REMEDIAL INVESTIGATION REPORT
Southern Avenue Industrial Area Superfund Site
South Gate, California

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EXECUTIVE SUMMARY

The Southern Avenue Industrial Area Superfund Site ("SAIA" or "Site") is located in a mixed industrial and residential area in South Gate, California. The site is currently vacant. The property owner demolished any existing buildings in 2013. Prior to the demolition of the facility buildings, Seam Master Industries was the last occupant at the property, and used the facility to manufacture hot-melt adhesive tape for laying carpet. From 1942 to 1951, Pacific Screw Products Corporation, and then, from 1951 to 1972, Screw Products of America manufactured screw products at the subject property. These operations involved cleaning the screws with chlorinated solvents, which occurred at a degreasing building in the northeastern portion of the property. Releases from this part of the property during the periods of screw manufacturing appear to account for the contamination of soil, soil gas, indoor air, and groundwater at and near the property with volatile organic compounds (VOCs), and locally, metals in shallow soils.

Remedial investigation (RI) work involved characterizing subsurface soils for contaminants on the SAIA property and nearby areas to the north (on ELG Metals property) and to the east (in a truck parking area). Soil contamination by several metals and PCBs at analytical concentrations exceeding the industrial Regional Screening Levels (RSLs), was limited to several borings in the northeastern portion of the SAIA property, and adjoining areas in the southeastern portion of the ELG Metals property. Most of these RSL exceedances were within the upper 5 feet of the subsurface, and involved lead, arsenic, thallium, and the PCBs Aroclor 1248, and Aroclor 1260 that exceeded the RSLs at seven, one, two, two, and two locations, respectively. Analytical concentrations of arsenic in soils exceeded the RSL at all locations, but in all but one case, these concentrations appear to result from natural background for southern California soils. TCE was the only VOC that exceeded an RSL in soil sample analyses, but the two exceedances were associated with several other samples indicating elevated concentrations of chlorinated VOCs and petroleum-associated VOCs that, together, clearly indicated the location of the contaminant source of the extensive VOC groundwater contaminant plume downgradient from the property. This VOC source area in soil is limited in extent, located directly beneath the former location of

the degreasing building along the northeastern perimeter of the former main manufacturing building.

RI characterization of soil gas indicated an extensive plume of soil gas analytical concentrations exceeding industrial and/or residential RSLs (soil-gas RSLs are based on indoor-air RSLs divided by an attenuation factor of 0.03 [i.e., multiplied by 33.3]). This area of soil-gas exceedances extends beneath nearly the entire SAIA property and in adjoining areas to the north, east, and south. Within the SAIA property, occupied structures no longer exist, and thus there is no threat of vapor intrusion within the property. Off the SAIA property, many of the highest VOC concentrations in soil gas sample analyses were at depth (15, 25, or 35 feet bgs), and have relatively low potential to cause vapor intrusion into structures, compared to samples collected from shallower depth (5 feet bgs). However, the deeper concentrations are still relevant to assessing the risk and determining the protectiveness of any remedy as they represent the potential for vapor intrusion.

A vapor-intrusion (VI) assessment focused on residential structures where nearby soil-gas samples from the 5-foot bgs interval indicated VOC concentrations above residential RSLs. The RI field team could not complete planned sampling at similarly affected industrial buildings due to access issues. The VI assessment indicated PCE exceeded the residential RSL at one residential structure in samples from both sampling events. However, the evidence is somewhat ambiguous as to the source of PCE: while nearby soil gas samples contained PCE significantly above the soil-gas RSL, crawlspace air samples did not contain anomalous levels of PCE. Thus, the PCE could originate from indoor sources at this location.

At all other locations, exceedances of indoor-air RSLs by benzene and 1,2-dichloroethane (1,2-DCA) appear to be related to the occurrence of these samples in either normal background air (which is unremarkable based on the high-traffic area near Interstate 710 and busy streets), or at locations where other samples (crawlspace air and nearby soil-gas samples) provided no supporting evidence that these compounds would have originated from underlying soil gas. Also, benzene and 1,2-DCA are present in groundwater at analytical concentrations at least two

orders of magnitude lower than those reported for other chlorinated VOCs such as TCE and cis-1,2-dichloroethene (*cis*-DCE).

RI work included cone penetrometer test (CPT) borings and monitoring-well installations to characterize subsurface lithology and hydrogeology, which are generally consistent with previous work in the vicinity. The shallowest subsurface unit explored in the RI is the Bellflower Aquiclude, which is predominantly fine-grained, largely unsaturated, and does not transmit significant quantities of groundwater; thus, it does not contain VOCs at significant analytical concentrations. The underlying two units consist largely of sands and gravels and are the two aquifers of primary concern at the site: the Gaspur Aquifer, subdivided into shallow, intermediate, and lower intervals, and the underlying Exposition Aquifer, explored only to a depth of 140 feet below ground surface (bgs) (about 20 feet into the upper Exposition). Measurements of groundwater elevations indicate generally southerly hydraulic gradients, along with a significant downward component of flow both within the Gaspur Aquifer, and between the Gaspur and Exposition Aquifers.

These two aquifers have extensive groundwater contaminant plumes with analytical concentrations of TCE, *cis*-DCE, several other chlorinated VOCs, and the semivolatile organic compound (SVOC) 1,4-dioxane (1,4-D), at concentrations exceeding screening levels (SLs), specifically the EPA's maximum contaminant levels (MCLs) and the notification level (NL) for California. SL exceedances for metals in groundwater appear to be either local (aluminum, lead, and nickel) or related to the reducing geochemical conditions and common to groundwater conditions of the surrounding area (arsenic, manganese). Thus, the metal SL exceedances do not represent significant groundwater impacts attributable to the SAIA property.

Near the SAIA property, there are four other groundwater VOC plumes that approach and, in some cases, commingle somewhat with the SAIA groundwater VOC plume: the Jervis Webb plume; the Cooper Drum plume; the Atlantic Avenue plume; and several small plumes at the Los Angeles Unified School District (LAUSD) property. The RI team characterized the SAIA groundwater plumes and neighboring portions of the other plumes through collection of groundwater samples from the monitoring network, which included discrete-depth samples

collected from CPT borings, and four sampling events at groundwater monitoring wells installed for the RI, supplemented by results for sampling of 13 monitoring wells installed for investigations into the Cooper Drum VOC plume located a short distance west and southwest of the SAIA VOC plume. The characterization also used some analytical results obtained by others from groundwater investigations into the Jervis Webb, Atlantic Avenue, and LAUSD plumes.

The hydraulic gradients cited above account for the shape and vertical extent of the VOC groundwater contaminant plume attributable to the source area in the northeastern part of the SAIA property. Analytical results indicate that several VOCs and 1,4-D are widespread in groundwater beneath and downgradient from the site. *cis*-DCE has the largest footprint of the contaminants in the SAIA groundwater plume, and exists at analytical concentrations greater than the MCL (6 ug/L) across an aerial extent about 1,000 feet wide and at least 2,750 feet long. The plume migrates downward along its north-to-south migration path: at and near the SAIA property, the shallow Gaspur Aquifer is the primary interval affected; proceeding south, progressively lower intervals are impacted by SL exceedances, so that in its southernmost extent the bulk of contamination of the SAIA plume is within the Exposition Aquifer, at depths of least 120 feet bgs.

Geochemical conditions in the groundwater throughout and near the SAIA plume are anoxic to reducing, and foster the biologically mediated reductive dechlorination of TCE to *cis*-DCE, and under limited circumstances, further degradation to vinyl chloride. The ratio of *cis*-DCE to TCE increases markedly downgradient, indicating extensive biodegradation of TCE. The SAIA plume commingles marginally with the underlying, lower-concentration Jervis Webb VOC plume, and commingles to a limited extent with the Cooper Drum VOC plume to the west. The Atlantic Avenue and LAUSD plumes appear to be largely separate from the SAIA plume.

The following recommendations were developed during the RI:

- More fully characterize the extent of VOC impacts to the Exposition Aquifer, which is in contact with an underlying municipal water-supply aquifer (the Gage Aquifer at about 280 feet bgs), by advancing up to four groundwater profile borings downgradient and below the current extent of the SAIA monitoring network in the Exposition Aquifer; collect discrete-depth groundwater samples at every 20 feet beginning at 130 feet bgs down to 230 feet bgs, possibly followed by installation of monitoring wells.

- Collect two rounds of indoor-air samples from several industrial buildings just north and south of the SAIA property, at locations near borings where soil-gas analytical concentrations exceeded industrial RSLs, and indicate any potential impacts to indoor air. Although EPA attempted to gain access to buildings just south of the SAIA property, it is noted that the lack of indoor-air sampling in these buildings is a data gap.

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LIST OF ACRONYMS AND ABBREVIATIONS

Chemical Abbreviations

1,1-DCA	1,1-dichloroethane
1,1-DCE	1,1-dichloroethene
1,1,1-TCA	1,1,1-trichloroethane
1,1,2-TCA	1,1,2-trichloroethane
1,2-DCA	1,2-dichloroethane
1,4-D	1,4-dioxane
CCl_4	carbon tetrachloride
cis-DCE	*cis*-1,2-dichloroethene
EVA	ethyl vinyl acetate
Hg	Mercury
PCB	polychlorinated biphenyl
PCE	tetrachloroethene (perchloroethene)
TCA	Trichloroethane
TCE	Trichloroethene
TCM	Trichloromethane
trans-DCE	trans-1,2-dichloroethene
TCE	trichloroethene
VC	vinyl chloride

Abbreviations

ºC	degrees Celsius
ºF	degrees Fahrenheit
AASGP	Atlantic Avenue South Gate Plume
AOC	area of concern
AST	aboveground storage tank
bgs	below ground surface
CCS	California Coordinate System
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive, Environmental Response, and Liability Information System
CFR	Code of Federal Regulations
CLP	(US EPA) Contract Laboratory Program
cm	centimeter(s)
COC	chain of custody
COPC	contaminant of potential concern
CPT	cone penetrometer testing
DNAPL	dense non-aqueous phase liquid
D.O.	dissolved oxygen
DOC	dissolved organic carbon
DPT	direct push technology

DQSR	data quality summary report
DTSC	[California] Department of Toxic Substances Control
DWR	Department of Water Resources
eDMS	electronic data management system
EPA	U.S. Environmental Protection Agency
ft	Feet
ft/day	feet per day
ft/ft	feet per foot
ft/year	feet per year
FS	feasibility study
g/cm^3	grams per cubic centimeter
g/mL	grams per milliliter
gpm	gallons per minute
GPS	global positioning system
H	Henry's Law constant
HI	hazard index
HP	Hydropunch
HS	high school
HSA	hollow-stem auger
ID	identification
IDW	investigation-derived waste
in Hg	Inches of mercury
ITSI	Innovative Technical Solutions, Inc.
J	estimated result
kWh	kilowatt-hours
LAUSD	Los Angeles Unified School District
LNAPL	light non-aqueous phase liquid
MCL	maximum contaminant level
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
mgd	million gallons per day
mL	milliliter(s)
mL/g	milliliters per gram
mm	millimeter(s)
MS/MSD	matrix spike/matrix spike duplicate
mS/cm	millisiemens per centimeter
msl	mean sea level
mV	millivolts
NAD83	North American Datum of 1983
NAPL	non-aqueous phase liquid
NAVD88	North American Vertical Datum of 1988
NL	Notification Level
NPL	National Priorities List
NTU	nephelometric turbidity unit
OEHHA	Office of Environmental Health Hazard Assessment

ORP	oxidation-reduction potential
OU	operable unit
PA	preliminary assessment
ppm	parts per million
PVC	polyvinyl chloride
QA	quality assurance
QAO	Quality Assurance Office(r)
QC	quality control
R	retardation factor
R9	EPA Region 9
RDTM	Remedial Design Technical Memorandum
RI	remedial investigation
RI Report	Remedial Investigation Report
RL	reporting limit
RPD	relative percent difference
RSL	regional screening level, US EPA Region 9
RWQCB	[California] Regional Water Quality Control Board
SAIA	Southern Avenue Industrial Area
SAP	Sampling and Analysis Plan
SARA	Superfund Amendments and Reauthorization Act of 1986
SBT	sediment behavior type
SDG	sample delivery group
Site	SAIA Superfund Site
SI	site inspection
SL	screening level
SVOC	semivolatile organic compound
TOC	total organic carbon
ug/kg	micrograms per kilogram
ug/L	micrograms per liter
ug/m^3	micrograms per cubic meter
UN	United Nations
US EPA or EPA	United States Environmental Protection Agency
UST	underground storage tank
VI	vapor intrusion
VOA	volatile organic analysis
VOC	volatile organic compound
Weston	Weston Solutions, Inc.

1.0 INTRODUCTION

This Remedial Investigation Report presents the findings, conclusions, and recommendations from investigations that the United States Environmental Protection Agency (U.S. EPA or EPA) conducted at the Southern Avenue Industrial Area (SAIA) Superfund Site (the Site), located in South Gate, California (**Figure 1-1**). After several preliminary evaluations (**Section 1.1.4**), EPA began Remedial Investigation (RI) activities at the Site in 2012, soon after EPA included the Site on the National Priorities List (NPL) in September 2011. EPA proposed the addition of the SAIA property, at the time referred to as the "Seam Masters Industries" site, to the Superfund NPL in September, 2011. EPA finalized the SAIA property to the Superfund NPL as the "Southern Avenue Industrial Area" site in May, 2012.

As detailed in the Final Sampling and Analysis Plan (ITSI Gilbane, 2012), which specified in detail how the project objectives would be carried out through the field sampling and analysis efforts, the primary objectives of this RI as stated in the EPA's Statement of Work were to:

1. Identify the extent of the principal contaminants of concern, including volatile organic compounds (VOCs) in the soil and vadose zone (the area between the ground surface and the underground water table) within the on-site source area;
2. Define the horizontal and vertical extent of VOC contamination in groundwater on and off the site;
3. Due to the presence of VOCs, evaluate the potential for vapor intrusion into any buildings and residential areas located on or near the contaminated source areas and groundwater plume.

After completing this RI (including a human health risk assessment [HHRA]), EPA will conduct a Feasibility Study (FS) to evaluate remedial action alternatives (cleanup methods and treatment technologies) for the Site. EPA will present the selected remedy and remedial action objectives in a Proposed Plan which EPA will publish in a fact sheet and distribute to the community. The Proposed Plan will provide for a public comment period and community meeting. EPA will then document the selected remedy in a Record of Decision, will subsequently develop a remedial design and remedial action workplan, and will then implement the remedy for the Site.

EPA prepared this RI report in accordance with the EPA Guidance for Conducting Remedial Investigations and Feasibility Studies under the Comprehensive Environmental Response,

Compensation, and Liability Act (CERCLA; USEPA, 1988). The remainder of this report is organized as follows:

- The remainder of **Section 1.0** describes the site background including geologic setting, site operational history, and the investigative history of the Site and other nearby sites.
- **Section 2.0** provides information regarding field investigations conducted for this RI.
- **Section 3.0** describes the physical characteristics of the Site, including physiographic setting, land use and demographics, topography, climate, geology, and hydrogeology.
- **Section 4.0** describes the nature and extent of contamination in soil, soil gas, air, and groundwater.
- **Section 5.0** describes the contaminant fate and transport, migration pathways, exposure media, and receptors.
- **Section 6.0** presents a summary of the risk assessment.
- **Section 7.0** summarizes the RI and presents conclusions and recommendations based on RI findings.
- **Section 8.0** provides references used in the preparation of the RI.
- Tables, figures, and appendices provide supporting or illustrative information to supplement the text.

1.1 SITE BACKGROUND AND SETTING

This section provides a description of the physical setting, the subsurface geology and hydrogeology characteristics of the Site. This section also includes an inventory of production wells in the vicinity and their potential influences on groundwater movement. Finally, this section summarizes the operational history of the source site (the SAIA property) and the environmental investigations performed at the Site and at nearby contaminated sites.

1.1.1 Site Description

The SAIA property is nearly 4 acres in size and is located at 5211 Southern Avenue, South Gate, California. The property is roughly trapezoidal in shape and is oriented in an approximate east-west direction, parallel to Southern Avenue, as shown on **Figure 1-2**. The SAIA property is located in a mixed industrial, commercial, and residential area. ELG Metals borders the site to the north, railroad tracks and right-of-way border the site to the east, Domar Precision, Inc. borders the site to the south, and Bimbo Bakery borders the site to the west.

1.1.2 Regional Geologic and Hydrogeological Setting

The following summary of the regional geology and hydrogeology of the Los Angeles basin is based on the works of Driver (1948), Jahns (1954), Poland et al. (1956), Yerkes et al. (1965), and the California Department of Water Resources (DWR 1961). Following the regional geology and hydrogeology discussion is a summary of the local hydrogeology based on previous investigations conducted at the nearby Cooper Drum site by URS (RI report, 2002), Geotechnical Consultants (1989, 1990, and 1993), Ecology and Environment, Inc. (E&E; 1990), and Bechtel (1997). The present-day Los Angeles basin (often referred to as the Coastal Plain) is at the north end of the Peninsular Ranges geomorphic province. The physiographic basin is bounded on the east and southeast by the Santa Ana Mountains and San Joaquin Hills; on the northwest, it is bounded by the Santa Monica Mountains of the Transverse Ranges province, and the province boundary is an east-trending zone of faults.

Geology Setting

The Los Angeles Basin (Coastal Plain) is underlain by a structural depression of great relief and complexity in relation to its geologic youth, small size, and prolific oil production. The Los Angeles Basin is subdivided into four structural blocks, whose contacts with adjoining blocks are major zones of faulting or flexure in older basement rocks. The four structural blocks (southwestern, northwestern, central, and northeastern) have unique stratigraphic characteristics based on distribution, thickness, and internal structure. The Site lies within the central block.

The dominant structural feature of the central block of the Coastal Plain is a northwest-trending, doubly-plunging syncline that underlies its central part. The basement in the trough of this syncline is as deep as 30,000 feet below sea level. The central part of the basin continued to subside and to receive sediment throughout late Pleistocene and Recent times. Floods of coarse clastic debris derived from the distant San Gabriel Mountains and the rapidly rising Puente Hills, Santa Ana Mountains, and eastern Santa Monica Mountains pushed the retreating shoreline southward and westward. The tectonism which produced deformation within and adjacent to the Los Angeles Basin continued throughout Tertiary and Pleistocene time. The Recent-age sediments of dune sand and alluvium reportedly have not been structurally disturbed.

The Coastal Plain is underlain by more than 10,000 feet of Miocene to Recent marine and non-marine sediments which lay in nonconformity over the Triassic and Jurassic metasedimentary formations and Cretaceous batholithic units. The early Tertiary to Recent sediments of the Central basin include (oldest to youngest) the Paleocene-Eocene Chico and Martinez Formations, the Oligocene Vaqueros and Sespe Formations, the Miocene Puente, Monterey, Topanga, and Modelo Formations, the Pliocene Repetto and Pico Formations, the lower Pleistocene San Pedro Formation, the upper Pleistocene Lakewood Formation, and Recent dune and alluvium deposits.

Within the Coastal Plain area, the upper Pliocene Pico and Repetto Formations, the lower Pleistocene San Pedro Formation, the upper Pleistocene Lakewood Formation, and Recent alluvium are the primary water-bearing formations. The Pico Formation contains fresh water locally, while the underlying Repetto Formation contains saline water. The lower Pleistocene San Pedro Formation underlies almost all the Coastal Plain. Most of the important freshwater aquifers used for production within the Coastal Plain are contained within the San Pedro Formation.

The upper Pleistocene Lakewood Formation extends beneath most of the Coastal Plain. Coarse basal deposits of sand and gravel are fairly continuous, and are interbedded with discontinuous lenses of sandy silt and clay. In the upper part of the Lakewood Formation, lithologic changes are rapid, with discontinuous permeable zones and considerable variation in particle size. These features represent typical alluvial (stream) deposits, with floodplain-type, fine-grained sediments comprising from 40% to 80% of the total deposits. The Lakewood Formation hosts four water-bearing aquifers.

Recent-age materials were deposited upon the erosional surface that existed near the end of the last glacial stage (approximately 15,000 years before present). In most of the Coastal Plain these sediments are alluvial deposits, but near the ocean they include tidal, marine, and wind-deposited materials. Geologic members present within the alluvial deposits include an intermittent semi-perched aquifer, a near-surface aquiclude, a water table aquifer, and deeper aquifers.

Hydrogeologic Setting

Geological and surface features divide the Coastal Plain into four groundwater basins (Santa Monica, West Coast, Hollywood, and Central) (e.g., DWR, 1961). Groundwater basins are separated from adjacent basins by geologic features such as non-water-bearing rock, faults, or other geologic structures which impede groundwater movement, and by natural or artificial mounds or divides in the water table or piezometric surface. The Central Groundwater Basin comprises four areas: the Los Angeles Area, the Montebello Forebay Area, the Whittier Area, and the Central Basin Pressure Area. The Central Basin Pressure Area is the largest of the four subdivisions of the Central Basin. The Site is within the Central Basin Pressure Area groundwater basin that is dissected in a north-south direction by the Los Angeles River. The Site lies within the portion of the Central Basin Pressure Area west of the Los Angeles River.

Surface and subsurface waters inflow from the hills and mountains bordering the areas, and they, along with the adjacent San Gabriel and San Fernando Valleys, recharge the groundwater basins in the Coastal Plain. The extensive paving of streets and construction of urban communities has greatly reduced the areas open to direct percolation of precipitation and applied water. Extension of sewer systems discharging through ocean outfalls, improvement in surface drains, and the lining of river channels to facilitate the runoff of floodwaters also limit the volume of water that percolates into these groundwater basins.

The boundary between fresh and saline waters within the Coastal Plain is the geologic contact between the Upper Pliocene Repetto and Pico Formations. The first major freshwater-producing geologic unit in the Coastal Plain is the Lower Pleistocene San Pedro Formation. Only those members capable of storing or conveying groundwater in suitable quantities have been named as aquifers, while the intervening finer-grained zones were not named, except for the Recent-age, shallowest alluvial unit. Five separate aquifers have been recognized within the San Pedro Formation, designated (from deepest to shallowest) the Sunnyside, Silverado, Lynwood, Jefferson, and Hollydale Aquifers.

The Upper Pleistocene Lakewood Formation hosts four water-bearing aquifers, from deepest to shallowest: the Gage (deepest), the Gardena, the Artesia, and the Exposition (shallowest). The

Artesia Aquifer has a general southwesterly dip and varies in thickness and bottom configuration. The ancestral San Gabriel and Santa Ana Rivers and Coyote Creek appear to have been the main sources of the sediments comprising this aquifer. The configurations of the bases of the Exposition Aquifer and the Artesia Aquifer are highly irregular, and it appears that both were deposited on an erosional surface.

The maximum thickness of the Exposition Aquifer is 150 feet, and the unit is reportedly related to the ancestral Los Angeles River drainage system (DWR, 1961). Materials range in size from coarse gravel to clay, with the fine deposits separating lenticular sandy and gravelly beds. The upper coarse members of the Exposition appear to have been either eroded and backfilled by the overlying Gaspur Aquifer deposits, or some of the upper members were deposited contemporaneously with the formation of the younger Gaspur Aquifer. However, both the Artesia and Exposition Aquifers have been affected by folding and show slight warping near the Newport-Inglewood uplift and in the down-warped area of the Central Basin. The Potrero fault is the only known structure that displaces the Exposition Aquifer.

Recent-age geologic members that control the occurrence of groundwater within the alluvial deposits include a semi-perched aquifer, the near-surface Bellflower Aquiclude, and the water-table Gaspur Aquifer. Coarse sands and gravels of the semi-perched aquifer are found on or near the ground surface in much of the Coastal Plain. These materials vary in thickness from 0 to 60 feet and may contain significant amounts of unconfined water where they are more than 20 feet thick. Where the underlying aquifers are confined, the semi-perched aquifer is generally separated from them by silts, clays, and other low-permeability material referred to as the Bellflower Aquiclude. The relatively impermeable materials of the Bellflower Aquiclude restrict the vertical movement of water from the semi-perched aquifer into the underlying Gaspur Aquifer, which is the basal coarse phase of the Recent-age alluvium. The Gaspur Aquifer consists of alluvial deposits that range in size from boulders and gravel to silt and clay. The Gaspur Aquifer occurs within an ancestral Los Angeles River channel cut during the previous sea-level low-stand approximately 18,000 years before the present (Ehman et al., 2001). Variations in the thickness and width of the Gaspur Aquifer seem to indicate that the stream or streams responsible for original deposition were meandering, braiding, eroding, and aggrading.

Appendix A-1 contains a generalized geologic cross-section which parallels Firestone Boulevard (approximately 2,000 feet north of the site).

1.1.3 Local Hydrogeologic Setting and Groundwater Production Wells

Site Hydrogeology

The characterization of local hydrogeologic setting in this section is based on the investigations conducted for the Site, as well as for other nearby Superfund sites such as Cooper Drum to the northwest and Jervis B. Webb Co. (Jervis Webb) to the north (Geotechnical Consultants [1989, 1990, and 1993], Ecology and Environment, Inc. [1990], and Bechtel [1997]). Monitoring wells installed on and off the Site property penetrate the semi-perched aquifer, the Gaspur Aquifer, and the Exposition Aquifer. The majority of the monitoring wells EPA installed at the site were completed in the Gaspur Aquifer. There are a total of 13 locations with monitoring well installations, with 10 of those being multiple-well clusters completed in the Gaspur Aquifer, and three single wells completed in the upper portion of the Exposition Aquifer. At the Site, the Bellflower Aquiclude includes the interval from the ground surface to 50 feet below ground surface (bgs). The semi-perched aquifer within the Bellflower Aquiclude is generally encountered at a depth of approximately 30 feet bgs, while the top of the upper Gaspur Aquifer occurs at a depth of approximately 50 to 70 feet bgs. The top of the upper Exposition Aquifer occurs at a depth of approximately 110 to 120 feet bgs. The groundwater flow direction beneath the Site is to the south at a hydraulic gradient of 0.0017 feet/foot (ft/ft) in the Gaspur Aquifer.

Groundwater Production Wells

More than 90 production wells within four miles of the Site supply drinking water to 19 water systems serving more than 500,000 people. Groundwater production wells within about one mile of the Site are shown on **Figure 1-2**. The City of South Gate operates drinking water wells within one-half mile of the Site. City of South Gate wells #24 and #25 are located approximately 0.4 mile to the east, near the west edge of the concrete-lined Los Angeles River. The top of their perforated sections (or screen intervals) reportedly begin at 310 and 280 feet bgs, respectively. These two wells draw groundwater from the Gage Aquifer, the deepest aquifer of the Lakewood Formation. These wells have total depths of more than 1,200 feet, and hence also draw groundwater from aquifers of the San Pedro Formation. The Lynwood and Silverado Aquifers

of the deeper San Pedro Formation are the primary aquifers used for municipal, domestic, industrial, and commercial purposes in the vicinity of the Site.

City of South Gate production wells #13, #14, #18, and #19 are located in South Gate Park approximately 0.5 miles cross-gradient west/southwest of the Site. The screen intervals of these wells begin at approximately 600 feet bgs; thus, they draw water from the Silverado Aquifer (Figure A-1, **Appendix A**). The City of South Gate temporarily shut these wells down in 1987 due to low-level tetrachloroethene (PCE) contamination; wells #14, #18, and #19 are currently in service.

Data from City of South Gate production wells suggest the presence of VOC contamination in the immediate vicinity of the Site slightly greater than EPA maximum contaminant levels (MCLs). Well #7 is located approximately 2,000 feet cross-gradient and upgradient (north) of the Site, and Well #23 is located approximately 200 feet downgradient and south of the Site. The screen intervals of these wells begin at 500 and 530 feet bgs, respectively. Well #7 has shown low-level PCE and trichloroethene (TCE) concentrations of up to 9.9 micrograms per liter (ug/L) (City of South Gate, 2001), and Well #23 has also shown low-level PCE concentrations (E&E, 1990). Neither of these wells is active, and more-recent analytical data are not available.

The City of South Gate currently operates seven of its 11 existing production wells, as specified in the city's 2015 Urban Water Management Plan (City of South Gate, 2016). The active wells are #14, #18, #19, #24, #26, #27, and #28 (**Figure 1-2**; wells #26, #27, and #28 are located more than one mile from the Site and do not appear on this figure). The active wells have a combined rated/tested capacity of about 13,500 gallons per minute (gpm), or 19.4 million gallons per day (mgd). Six of the active wells discharge into existing storage reservoirs. Well #28 discharges directly into the distribution system using on-site chlorination. A brief description of the City of South Gate production wells located within one mile of the Site is provided below:

Well #13 (Standby): The City of South Gate drilled this well in 1940 in South Gate Park (**Figure 1-2**). The well is screened from depths of 600 to 758 feet, and has 16-inch-diameter casing. Well #13 discharges into the South Gate Park Reservoir. Chlorinated solvents including TCE and PCE have been detected in this well.

Well #14: The City of South Gate drilled this well in 1944 in South Gate Park. The well is screened from depths of 615 to 715 feet, has an 18-inch-diameter casing, and discharges into the South Gate Park Reservoir.

Well #18: The City of South Gate drilled this well in 1945 in South Gate Park. The well is screened from depths of 620 to 762 feet, and has an 18-inch-diameter casing. Well #18 discharges to South Gate Park Reservoir.

Well #19: The City of South Gate drilled this well in 1947 in South Gate Park. The well is screened from depths of 610 to 746 feet, and has an 18-inch-diameter casing. Well No. 19 discharges to South Gate Park Reservoir.

Well #23 (Standby): The City of South Gate drilled this well in 1952 just west of the Los Angeles River and south of Southern Avenue. The well is screened from 530 to 798 feet, and has an 18-inch-diameter casing. The well has suffered from periodic sand production problems, as well as manganese contamination. However, basic water quality at this well has been consistently good.

Well #24: The City of South Gate drilled this well 1985 at the Hawkins Reservoir site, about 2,000 feet northeast of the SAIA property. The well is screened from 310 to 630 feet deep, and has a 16-inch and 20-inch-diameter casing.

Well #25 (Standby): The City of South Gate drilled this well in 1985 at the Hawkins Reservoir site. The well is screened from 280 to 1,310 feet deep, and has a 16-inch and 20-inch-diameter casing. Water quality has generally been good.

Other Wells

One Water Replenishment District (WRD, 2018) nested monitoring well screened at multiple depths is present in the first block south of the SAIA property (**Figure 1-2**). This well, South Gate (SG) #1, is screened at various depth intervals ranging from 220 to 1460 feet bgs. These intervals are below the depth of the SAIA plume in this area, which ranges only to the lower Gaspur Aquifer (about 110 feet bgs), as discussed in **Section 4.3.3** and **Section 4.3.4** and depicted in related figures.

1.1.3.1 Operational History

Initially (from at least 1942 until 1951), Pacific Screw Products Corporation manufactured screw products at the site. According to City of South Gate building records and Sanborn maps, there was a large-scale manufacturing operation that included five large oil tanks having a combined capacity of approximately 72,000 gallons. A significant amount of this oil was likely used as cutting oil.

To produce a final product, operators removed the cutting oil in designated degreasing areas. One major degreasing area was located near the northeastern corner of the SAIA property inside a room that contains three former concrete sumps ("Former Degreasing Building" on **Figure 1-3**). Operators may have performed degreasing in the former oil recovery building, at least during the operation of Pacific Screw Products.

From approximately 1951 until 1972, when the business went bankrupt, Screw Products of America, a division of Monogram Industries, manufactured screw products at the subject site. According to Sanborn maps, the operation did not materially change from the Pacific Screw era, as the Sanborn Map from 1970 shows the same oil tanks and degreasing area in use. While the historic available documentation does not list what chemicals the screw manufacturing companies employed for degreasing, it is well documented that chlorinated solvents were most commonly used for degreasing after the 1940s.

From 1972 until 2013, Seam Masters Industries operated at the SAIA property with two enclosed buildings, one partially enclosed building (shed), a pallet manufacturing area, and a paved parking lot. The larger enclosed building, located near the center of the property, was the center of operations for the hot-melt adhesive manufacturing process and dry-goods storage. The hot-melt adhesive manufacturing process involved knitting a fiberglass or cotton roll, approximately five inches wide and several yards long. In a large bin, operators combined ethyl vinyl acetate (EVA), polyethylene, and tackifying resin to create a hot-melt adhesive which was formed first into long, thin strands, approximately one centimeter (cm) thick, and then cut into small pieces. Operators then melted the hot-melt adhesive pieces and the viscous liquid slowly poured onto the fiberglass or cotton rolls. A circular metallic wheel then cooled these rolls. The circular metallic wheel was kept at a low temperature using a refrigeration process. The refrigeration process

used the anti-freezing agent propylene glycol, which Seam Master Industries stored on the site in 55-gallon drums (Weston, 2003).

Seam Master Industries used the shed, located in the southeastern portion of the property, for storage. The pallet manufacturing area was located in the northwestern portion of the property, in an uncovered but paved area. Three concrete vaults containing oil above-ground storage tanks (ASTs) were also located in this northwestern area (**Figure 1-3**). Weston (2003) reported that these tanks had been removed prior to 1972, but the vaults remain. For the EPA preliminary assessment/site inspection (PA/SI), Weston (2003) collected samples from a variety of locations, including near a "sump" (the area of the three sumps at the degreasing building; **Figure 1-3**) and near an underground storage tank (UST) associated with the UST dispenser located in the southeastern portion of the property (**Figure 1-3**). Weston (2003) identified these three areas– the concrete vaults, the sump, and the UST–as the main Areas of Concern (AOCs) on the property. Weston also noted that there was no evidence for use of chlorinated solvents after 1972, when screw manufacturing last occurred at the property.

1.1.4 Summary of Previous Investigations and Related Nearby Work

Past operations associated with the SAIA Site, the Cooper Drum Superfund Site, and the Jervis Webb Superfund Site have contaminated the groundwater in the Gaspur Aquifer. Prior investigations conducted on and downgradient from the Site have identified the presence of volatile organic compounds (VOCs) in groundwater. A summary of the previous investigations conducted at SAIA, and work on or near the SAIA property but conducted for Cooper Drum investigations, is presented below:

- In 2002, URS, on behalf of the U.S. Environmental Protection Agency (EPA), completed a Remedial Investigation for the Cooper Drum Superfund Site (URS, 2002). In March 1999 and October 2000, EPA discovered groundwater contamination beneath the SAIA property during a remedial investigation of the adjacent Cooper Drum Superfund Site. EPA conducted depth-discrete groundwater sampling using Cone Penetrometer Testing/Hydropunch (CPT/HP) borings (CPT-8 to CPT-10, CPT-20, and CPT-21) at the SAIA site to delineate the eastern extent of the Cooper Drum groundwater plume (**Figure 1-4**). The analytical results indicated another groundwater plume of VOCs (TCE and *cis*-1,2-dichloroethene [*cis*-DCE]) beneath the southeastern portion of the SAIA site.
- In 2002, The Source Group, Inc, completed a Phase I Environmental Assessment for the Seam Master Industries Site on behalf of the property owner (The Source Group, Inc.,

2002). Results of this assessment indicated that areas on the property posed environmental concern. These areas included several sumps containing oil and water; three abandoned concrete-lined pits previously used for AST secondary containment; a UST at the southern perimeter of the SAIA property; and an abandoned sump located south of a warehouse structure adjacent to a railroad spur along the eastern perimeter of the SAIA property.

- In 2003, Weston, on behalf of EPA, completed a Preliminary Assessment/Site Inspection (PA/SI), for the Seam Master Industries property [SAIA] (Weston, 2003). Results of the PA/SI indicated that three areas of environmental concern exist on the SAIA property: the location of three former ASTs, an underground sump, and a UST. Weston reported VOC impacts in soil and groundwater analyses of samples collected on and off the property during the PA/SI. The investigation concluded that VOCs were released into the soil and groundwater beneath the SAIA property and that there was subsequent off-site migration in groundwater to downgradient areas, and attributed the release of VOCs to past operations at the SAIA property.
- In 2007, Lindmark Engineering completed a Site Evaluation for the site on behalf of the former tenant, Seam Master Industries (Lindmark Engineering, 2007). This site evaluation included additional soil sampling at the machine shop. This site evaluation reported similar contamination and concentrations to those identified in the previous PA/SI and provided a description of the handling of hazardous chemicals at Seam Master Industries.
- Beginning in 2003 and until 2009, EPA performed field activities for the remedial design and cleanup of the Cooper Drum Superfund Site (URS, 2007; ITSI, 2010). EPA installed additional CPT/HP borings and monitoring wells on and downgradient from the source site to define the areas of plume commingling. ITSI (2010) presented the estimated areas of the plumes and commingling in *Remedial Design Technical Memorandum (RDTM) for Field Sampling Results Addendum No. 4, Monitoring Well Installations, Pumping Test, and Groundwater Sampling Results, April/May 2009, Cooper Drum Company Superfund Site*. Groundwater monitoring wells installed in 2009 included four triple-completion wells and one single-completion well in the Gaspur Aquifer on and downgradient from the Cooper Drum site (MW42-44, MW-45, MW46-48, MW49-51, and MW52-54 [see **Figure 1-4**]).

1.1.4.1 Initiation of EPA RI Activity

EPA discovered contamination at the Site (SAIA) property during the RI effort conducted as part of the adjacent Cooper Drum Superfund Site (Cooper Drum). EPA conducted groundwater investigations on and around the SAIA property in March 1999 and October 2000 to assess the extent of contamination of the Cooper Drum plume to the east of Cooper Drum. Analytical results from the two sampling events indicated a separate groundwater plume of VOCs, with high concentrations of TCE, *cis*-DCE, and 1,1-dichloroethene (1,1-DCE), occurring beneath the

SAIA property. Based on those findings, EPA identified the SAIA property as a "high priority" Site requiring further environmental assessment under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA). EPA entered the SAIA Site into the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) on February 1, 2002 as "Seam Masters Industries" (EPA ID No.: CAN000905902(1)).

Weston Solutions, Inc. (Weston) performed a PA/SI at the SAIA property, on behalf of EPA in 2002. The California Department of Toxic Substances Control (DTSC) issued an order to the property owners and operator in June 2007 to characterize and remediate site contaminants, but both declined to do as directed. Since 2007, DTSC has been unsuccessful in compelling the potentially responsible parties to conduct work at the Site. Due to the lack of enforcement resources as well as the proximity of the Site to the existing Cooper Drum NPL site, DTSC requested that EPA assume the role of lead agency for the Site to ensure that investigative work continues and cleanup work begins. Site investigation and cleanup activities were thus returned to EPA. EPA proposed the addition of the SAIA property, at the time referred to as the "Seam Masters Industries" site, to the Superfund NPL in September, 2011. EPA finalized the SAIA property to the Superfund NPL as the "Southern Avenue Industrial Area" site in May, 2012.

1.1.5 Nearby Contaminated Sites

This section describes results of groundwater investigations conducted at nearby sites with groundwater contamination in the immediate vicinity of the Site. Information for these nearby sites has been obtained from Regional Water Quality Control Board (RWQCB) file data and the EPA website.

Five sites surrounding the Site have been contaminated with VOCs in groundwater. The five sites discussed in this section include: the Jervis Webb site, located at 5030 Firestone Boulevard; the former Dial Corporation site, located at 9300 and 9400 Rayo Avenue; the Cooper Drum site, located on 9316 South Atlantic Avenue; the Atlantic Avenue South Gate Plume (AASGP) site, located immediately north of the northwestern corner of the Legacy HS Site; and the Legacy High School (HS) property, located at 5225 Tweedy Boulevard, South Gate, California. **Figure 1-2**

depicts the location of each of these source property locations in relation to the Site, except for the AASGP, where the source property was determined to be unknown.

1.1.5.1 Jervis Webb Superfund Site

The Jervis Webb Superfund Site properties are located at 5030 Firestone Boulevard and 9301 Rayo Avenue in South Gate, northwest of the SAIA property. The Jervis B. Webb Company of California ("Jervis B. Webb Company") conducted metal fabrication, finishing, painting, and assembly operations associated with the manufacture of industrial conveyor belt systems from the 1950s to early 1996 on the southeastern portion of the site. In 1997, Reliable Steel, Inc., purchased this property (Rayo Parcel). The Jervis B. Webb Company purchased the northwestern property (Firestone Parcel) in 1975 from Spear Industries. Blake Rivet Company, which produced aluminum and stainless steel aircraft rivets, leased this northwestern portion of the site from 1953 until approximately 1979. Recent RI data collected by EPA for the Jervis Webb RI suggests that TCE and *cis*-DCE are migrating in groundwater from beneath the Jervis Webb site in a southeasterly direction toward the ELG Metals facility. **Appendix A-2** includes a groundwater contour map of the water surface elevations measured for the shallow interval of the Gaspur Aquifer in May 2017 at the Jervis Webb site. As shown on Figure A2-1, the groundwater flow direction is southeast to south, consistent with data collected for this site since November 1998; slight variations to southwesterly flows in localized parts of the Site have occurred through the years. Groundwater samples collected from the Jervis Webb site have shown analytical concentrations of TCE in the groundwater up to 33,000 micrograms per liter (ug/L) at the contaminant source area, and *cis*-DCE up to 17,000 ug/L in the downgradient area beneath the ELG Metals facility. **Appendix A-2** also includes a TCE plume map from the May 2017 monitoring event. The TCE plume map indicates the groundwater plume is migrating off the Jervis Webb site from the southern portion of the Rayo Parcel, with a total plume length of at least 1,200 feet south/southeast of the source area in the Firestone Parcel.

cis-DCE, as the breakdown product of the TCE, is the most predominant VOC analyte in the downgradient area of the Jervis Webb plume beneath the ELG Metals facility. Laboratory analyses detected the highest *cis*-DCE analytical concentration, 17,000 ug/L, from a sample collected in the intermediate Gaspur Aquifer (well JWMW-11B) in May 2017. A downward

migration of Jervis Webb VOC contaminants was also evident beneath the ELG Metals facility to a maximum investigated depth of 143 feet bgs in the Exposition Aquifer, where laboratory analyses detected a low concentration of *cis*-DCE above the MCL in groundwater sampled at well JWMW-12.

1.1.5.2 Former Dial Corporation Site

The main facility of Dial Corporation, formerly located at 9300 and 9400 Rayo Avenue (the main facility was located at 9300 Rayo Avenue), was the site of soap-making operations from the 1920s until the 1980s. Investigations in the 1990s revealed that petroleum hydrocarbons were the primary compounds impacting shallow soils and groundwater on the site, along with some chloroform and methylene chloride. Dial excavated soil and operated a soil-vapor extraction system under RWQCB oversight that removed approximately 34,000 pounds of volatile petroleum hydrocarbons (EMCON, 1996). Among chlorinated hydrocarbons, laboratory analyses detected 1,1-DCA and TCE only locally in soil and groundwater, with the primary detections being for TCE in groundwater along the western boundary of the former Dial Corporation facility: 1,400 ug/L of TCE was reported for a 1993 sample analysis of groundwater from monitoring well MW-5, located west of Rayo Avenue across from the Dial Corporation operations and along the southeastern edge of the Rayo parcel of the Jervis Webb properties (EMCON, 1996). This detection was not traceable to sources on the Dial facility, and was downgradient from the Jervis Webb contaminant source area; therefore, consistent with EMCON's conclusion in a 1996 progress report (EMCON, 1996), the RI team for Jervis Webb (Gilbane, 2018) concluded that the reported analytical detections of TCE represented groundwater contamination from Jervis Webb rather than from the former Dial Corporation facility.

1.1.5.3 Cooper Drum Superfund Site

As described in the Record of Decision for the Cooper Drum site, EPA estimated the groundwater plume from Cooper Drum to be 800 feet long and 250 feet wide, extending approximately 400 feet southeast of the Cooper Drum boundary. As depicted in contaminant plume maps and discussion in **Section 4.3**, the plume now extends approximately 1,200 feet downgradient from this boundary. Investigations and analyses have not detected dense non-

aqueous phase liquids (DNAPLs) in soil or groundwater at Cooper Drum. The groundwater flow direction beneath the source area of contamination (west of Rayo Avenue) is to the southeast. East of Cooper Drum along Rayo Avenue, the groundwater flow direction is southerly.

Shallow groundwater beneath Cooper Drum occurs within or is controlled by an area of lower permeability, the near-surface Bellflower Aquiclude, which incorporates a perched aquifer. The perched aquifer is present beneath the source area at approximately 35 feet bgs and is at least 5 feet thick. The perched aquifer in the area is intermittent and EPA and the Cooper Drum Cooperating Parties Group have not determined its lateral extent. Groundwater sample analyses indicate contamination above drinking water standards down to the shallow Gaspur Aquifer, which extends to depths of approximately 110 feet bgs. EPA defined the extent of the Cooper Drum contaminant plume approximately 400 feet southeast of the property boundary, and delineated two other contaminant plumes to the east: the "northeast plume" attributed to Jervis Webb, and the "southeast plume" attributed to SAIA (URS, 2002). Remedial activities at the Cooper Drum site are ongoing; the Cooper Drum Cooperating Parties Group began operating a soil-vapor extraction system and dual-phase extraction system in 2011, and began operating a groundwater extraction system in 2012 (AMEC, 2012).

1.1.5.4 Atlantic Avenue South Gate Plume Site

The Atlantic Avenue South Gate Plume (AASGP) site, located approximately 1,000 feet southwest of the SAIA property (**Figure 1-2**), is a VOC groundwater plume with no currently identified source. On behalf of EPA, Weston (2012) conducted a Site Inspection (SI) of the AASGP. During the SI, Weston collected perched aquifer analytical groundwater samples from eight of the nine CPT locations at depths that ranged from 32 to 39 feet bgs, and collected Gaspur Aquifer analytical groundwater samples from all CPT locations at depths between 67 and 75 feet bgs. The groundwater plume associated with the AASGP site is defined by relatively high concentrations of TCE and TCE degradation products, primarily *cis*-DCE, within the semi-perched aquifer of the Bellflower Aquiclude and the shallow Gaspur Aquifer (Weston, 2012).

1.1.5.5 Los Angeles Unified School District (LAUSD)

The Legacy School property, owned by the Los Angeles Unified School District (LAUSD), is located at 5225 Tweedy Boulevard, South Gate, California. The 35-acre Site was separated into

several operable units (OUs) to facilitate the environmental investigation (RI/FS) and cleanup by LAUSD under the oversight of DTSC (AECOM, 2013). The Legacy School is approximately 1,250 feet downgradient of the SAIA property. Laboratory analyses of groundwater samples detected nine VOCs and 1,4-dioxane above their respective MCLs or Notification Levels (NLs). The groundwater sampling analytical results (Accord Engineering, Inc., 2015) from the perched and shallow zones indicate a source of VOCs is present beneath the LAUSD property. The VOC plume emanating from beneath the LAUSD property is likely commingling with the SAIA plume at the intermediate and lower Gaspur Aquifer, at depth under the LAUSD property (Gilbane, 2017d).

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2.0 REMEDIAL INVESTIGATION ACTIVITIES

EPA performed the RI activities described in this report from 2012 to 2017. The EPA field team implemented and performed these activities in accordance with the *Final Sampling and Analysis Plan, Remedial Investigation/Feasibility Study, Southern Avenue Industrial Area Superfund Site, South Gate, California* (SAP; ITSI Gilbane, 2012), and the *Sampling and Analysis Plan, Vapor Intrusion Evaluation, Southern Avenue Industrial Area Superfund Site, South Gate, Los Angeles County, California* (Indoor Air SAP; Gilbane, 2015a). The specific field activities, tests, and analyses completed for the RI included:

- soil analytical sampling,
- soil gas analytical sampling,
- Indoor and outdoor air analytical sampling at residential properties, preceded by building walk-through inspections to evaluate indoor air parameters and sampling locations,
- discrete-depth groundwater (Hydropunch™ method) analytical sampling,
- cone penetrometer testing (CPT) of soil,
- monitoring well installation,
- groundwater elevation monitoring and analytical sampling.

2.1 SOIL INVESTIGATION

The RI field team (field team) completed subsurface lithologic characterization primarily using CPT drilling, and investigated contaminated soils by collecting discrete soil analytical samples from soil borings advanced using the direct-push technology (DPT) method.

2.1.1 Cone Penetrometer Testing

The field team advanced a total of 22 boreholes (SAIA-CPT01 through SAIA-CPT22) using CPT methods in three separate events in March 2013, July 2015, and June 2016 (**Figure 1-4**). The CPT investigation served two purposes: to further define the lithology and to confirm whether contaminants impacted groundwater. The field team collected groundwater samples at discrete depths from the CPT borings using Hydropunch sampling methods. The field team used the subsurface profiling provided with each CPT log to perform basic stratigraphic correlation and mapping, as well as to support the design of permanent monitoring wells. **Section 3.2.1**

provides specific information on the data obtained from CPT logging, and how it applies to geologic cross-section development. **Appendix B** includes the CPT logs.

2.1.2 Soil Borings

The drilling subcontractor collected soil samples using a truck-mounted or a limited-access DPT drill rig. The DPT method consisted of advancing drill rods to the desired sampling depth. The drillers attached drill rods to a sample tube equipped with a retractable drive point, and lowered a narrow sampling rod through the center of the drill rod into the sample tube to unscrew the drive point. With the drive point loosened, the drillers drove the sample tube down to fill the sampler with soil. When full, the drillers retracted the sampler to the surface and prepared it for delivery to the applicable laboratory for analysis. The drillers advanced each soil boring to a maximum depth of 35 feet bgs, and collected six soil samples from each boring location at approximately 0.5, 2, 5, 15, 25, and 35 feet bgs.

The EPA field team conducted three subsurface soil investigation events from April 1 through April 4, 2013; from March through April 2014; and during April 2017, collecting approximately 226 total analytical samples from 37 soil boring locations (SAIA-SB/SG01 through -SB12, SAIA-SB/SG18 through -SB/SG39, and SAIA-SB/SG44 through -SB/SG47, respectively (**Figure 2-1**). Soil boring locations were determined based on areas of concern of historical operations, and subsequent data gaps, as specified in the SAP (ITSI Gilbane, 2012).

The field team submitted soil samples for laboratory analysis of EPA Priority Pollutants including metals, VOCs, SVOCs, and polychlorinated biphenyls (PCBs). Soil boring logs are in **Appendix B**.

2.2 SOIL GAS INVESTIGATION

For the soil gas investigation, the drilling subcontractor advanced temporary soil gas borings to 35 feet bgs utilizing the DPT method, and completed each boring with four separate sampling points at intervals of approximately 4 to 5, 14 to 15, 24 to 25, and 34 to 35 feet bgs. The driller installed a perforated ceramic sample point and ¼-inch Teflon tubing at the bottom of each sample interval and added coarse aquarium-grade silica sand as a filter medium around each sample point. The annular spaces between sampling intervals, and from the shallowest sampling

interval to ground surface, were sealed with sodium bentonite, hydrated in place. In all three soil gas sampling events, the field team waited for the equilibration period recommended in the guidance documents *DTSC Advisory – Active Soil Gas Investigations* (2012, 2015) after installation of the temporary soil gas wells and prior to any purging or sampling. The field team performed an initial purge volume test following the DTSC Advisory – Active Soil Gas Investigation guidelines (DTSC, 2012). The field team calculated tubing and sample point volumes, and purged volumes of one, three, and ten times the tubing/sample point volume from each sample interval from one location based on historically high VOC concentrations in groundwater. Based on analytical results (e.g., highest concentrations), the field team selected the optimal purge volumes most appropriate for soil gas sampling conducted for each event.

The EPA field team conducted the soil gas investigation in three separate events in April 2013, April-May 2014, and April 2017, collecting a total of 200 soil gas analytical samples (including 16 field duplicates) from 47 temporary soil gas boring locations (**Figure 2-1**). For the first event, the field team advanced 18 borings (15 on the SAIA property, three off-property) in areas of concern based on site inspections and existing soil and groundwater data (Final SAP, RI/FS Study, ITSI Gilbane, October 2012). The subsequent event of April-May 2014 was based primarily on data gaps identified from the April 2013 event. This second event included 25 soil-gas sampling locations (16 locations installed on the SAIA property, nine off-property) to evaluate the extent of soil gas migration and the potential for soil-vapor intrusion from elevated VOC concentrations present in either shallow soil gas or groundwater. For the 2017 event, the field team collected soil-gas samples from four borings located just east of the SAIA property (SAIA SB/SG-44 through SAIA SB/SG-47) to further delineate the eastern margin of the source area.

For the 2013 and 2014 events, the field team retained an on-site mobile analytical laboratory (H&P Mobile Geochemistry, Inc.) to analyze samples in the field, and to evaluate soil-gas concentrations on a “real-time” basis. For the smaller 2017 event, the field team submitted soil-gas samples only to EPA Region 9 Laboratory for analysis. The field team also collected split samples and sent them to the EPA Region 9 Laboratory for analysis. The field team collected soil gas samples initially in a Tedlar bag and then immediately transferred the sample volume

into a syringe for the mobile laboratory split sample, and into a 1-liter summa canister for the EPA Region 9 laboratory split sample. The EPA Region 9 laboratory provided certified canisters for the sampling events. Prior to sampling, the field team recorded the initial vacuum in each canister. To collect representative soil gas samples, vacuum in the canister is required to be between 25 and 30 inches of mercury (in Hg). If canister pressure did not meet that requirement, the field team did not use the canister and returned it to the EPA R9 laboratory. After checking for vacuum pressure, the field team connected the canister to the tubing, and slowly opened the valve. The field team considered sampling to be complete when pressure in the canister reduced to between -5 and -7 in Hg relative to atmospheric pressure.

Upon completion of soil gas sampling activities, the field team removed all soil gas probes and construction materials from each borehole, backfilled the boreholes from total depth to approximately six inches bgs with bentonite grout, and filled the remaining portion with material appropriate to match the pre-existing ground surface conditions (e.g., asphalt or concrete). The field team disposed of all used soil gas probe construction and sampling materials as non-hazardous waste.

2.3 VAPOR INTRUSION INVESTIGATION ACTIVITIES

EPA conducted vapor intrusion (VI) investigation activities consisting of indoor air sampling at those residences located nearest the SAIA property, located above groundwater with elevated analytical concentrations of VOCs, and located in areas where soil gas analytical data indicated a potential exposure risk to occupants. The field team conducted the VI investigation for the residential dwellings in accordance with the *Sampling and Analysis Plan, Vapor Intrusion Evaluation, Southern Avenue Industrial Area Superfund Site, South Gate, Los Angeles County, California* (VI SAP; Gilbane, 2015a). A *Final Supplemental Sampling and Analysis Plan, Vapor Intrusion Evaluation, Southern Avenue Industrial Area Superfund Site, South Gate, Los Angeles County, California* [Gilbane, 2017] was completed for industrial indoor air sampling, but was not implemented because of access issues at the industrial sampling locations. From the VI SAP, the principal study questions to fulfill the data quality objectives are:

1. Are PCE and/or TCE from the subsurface migrating into residential structures adjacent to and downgradient of the site?

2. Are the detected indoor air concentrations in the sampled residential structures above the residential indoor air RSLs (EPA, 2015c)?
3. What are the sources of the detected VOCs in indoor air?

The boundaries of the VI investigation primarily included the residences where nearby soil gas concentrations exceeded residential screening levels for VOCs. The soil gas analytical data collected off-site and downgradient from the Site property contained VOCs exceeding applicable screening levels for *cis*-DCE, PCE, and TCE; these concentrations were generally higher at locations nearest to the SAIA property and at deeper sample intervals (25 feet to 35 feet bgs).

2.3.1 Residential Properties

EPA conducted indoor air sampling to determine if vapor intrusion is a pathway of concern in residential structures downgradient of the SAIA property (**Figure 2-1**). Before collecting samples, the field team completed preparatory steps including notification of property owners and tenants of the affected buildings, and an assessment of each dwelling to determine optimal sample locations, identify the presence or absence of a crawlspace, understand the building structure and air flow, and identify potential interferences (e.g., household products) that could affect indoor air quality. The field team recorded the findings of these assessments on the Indoor Air Quality Survey forms presented in **Appendix C**. The field team collected indoor, outdoor, and crawlspace air samples at a total of eight residences located south of the SAIA property in April 2015 and January 2016 using charcoal-based Radiello® RAD130 passive-type air samplers, and shipped them for laboratory VOC analysis. Six of the parcels for indoor air sampling had multiple residential units; one residential unit was selected and sampled at these parcels. One parcel had a building with multiple apartments; three units (Units A, B, and D) were sampled at this parcel. The field team collected a total of 28 air samples in the two sampling events (14 samples per event; two samples at each location except where indicated) at the following properties:

<u>17 indoor samples from 6 buildings:</u>

- Building #1 at McCallum Avenue (2 samples [RES 01-IA]).
- Building #2 (Unit 1) at McCallum Avenue (2 samples [RES 02-IA]).
- Building #3 (Unit A) at McCallum Avenue (2 samples [RES 03-IA]).

- Building #3 (Unit B) at McCallum Avenue (2 samples [RES 04-IA]).
- Building #3 (Unit D) at McCallum Avenue (2 samples [RES 05-IA]).
- Building #4 at McCallum Avenue (2 normal samples and 1 field duplicate [RES 06-IA]).
- Building #5 (Unit 1) at McCallum Avenue (2 samples [RES 07-IA]).
- Building #6 at McCallum Avenue (2 samples [RES 08-IA]).

5 outdoor samples from 3 locations:

- Building #1 at McCallum Avenue (1 normal sample, 1 field duplicate [RES 01-OA]).
- Building #4 at McCallum Avenue (2 samples [RES 06-OA]).
- Building #5 at McCallum Avenue (1 sample [RES 07-OA]).

6 crawlspace samples from 3 locations (corresponding to similar-numbered indoor samples):

- Building #1 at McCallum Avenue (2 samples [RES 01-CS]).
- Building #2 at McCallum Avenue (2 samples [RES 02-CS]).
- Building #6 at McCallum Avenue (2 samples [RES 08-CS]).

The EPA field team deployed the samplers, generally at the approximate breathing zone of the residents (approximately 3 feet to 5 feet above ground/floor surface), and left them undisturbed for the duration of the 7-day sampling period. For those residences with crawlspaces, the field team placed additional samplers within the crawlspaces. Outdoor air samples, collected on the same day and concurrently with the deployment of indoor air samplers, were generally located outside and away from wind-shielding objects such as buildings, trees, or bushes, but upwind of each structure and placed approximately 3 feet to 5 feet off the ground.

After the 7-day sampling period, the field team collected the passive air samplers and submitted them to Eurofins Air Toxics, an EPA-certified laboratory located in Folsom, California, which analyzed them for PCE, TCE, and their primary breakdown products, in accordance with EPA Method TO-17 (EPA, 1999), modified for low detection limits and selective ion monitoring.

2.3.2 Commercial Properties

The EPA was unable to gain access to investigate the VI potential on neighboring commercial properties south of the SAIA property.

2.4 GROUNDWATER INVESTIGATION

The EPA field team began the groundwater investigation in February 2013. The field team employed CPT profiling and HP sampling methods to define the subsurface stratigraphy and to collect discrete-depth groundwater samples for delineating the VOC plume at the Site. Subsequently, the field team installed permanent monitoring wells consisting of multiple- and single-construction wells to evaluate the extent of the VOC plume within the Gaspur Aquifer and the Exposition Aquifer.

2.4.1 Groundwater Discrete-Depth Sampling

The field team performed discrete-depth groundwater sampling using the combination of the CPT method (described in **Section 2.1.1** and **Section 3.2.1**) and the HP method (described here). At each of the CPT/Hydropunch locations, the drilling subcontractor pushed the electronic cone penetrometer tool, which consisted of an instrumented metal strain gage probe, into the soil at a constant rate using a 20-ton truck-mounted rig. After the driller manipulated the CPT data using computer processing techniques, the field team interpreted subsurface lithology and selected sampling depths based on the resulting CPT profile. The driller advanced another borehole within a radius of five feet of the CPT profiling borehole, and used the Hydropunch sampling tool to collect the discrete-depth groundwater samples at specific depths. The Hydropunch tool consisted of a nominal 2-inch-diameter by 5-foot hollow stainless-steel cylinder and drive point attached to slotted polyvinyl chloride (PVC) piping. The drilling subcontractor pushed the sampler with the CPT rig to the desired depth, then retracted the sampler by 6 inches to expose the PVC slotted piping, and allowed it to fill. The field team then sampled groundwater using a small stainless steel bailer to collect and transfer the sample volume to the appropriate laboratory sampling containers.

The field team advanced 17 CPT/Hydropunch borings (SAIA-HP10, -17, -18, -21, -36, and SAIA-CPT02 through -13) in February and March 2013 to define the groundwater contaminant plume at locations on the SAIA property, on ELG Metals facility to the north, in areas east of the SAIA property, and in downgradient areas to the south, to about 1,100 feet south of the SAIA property. These locations enabled (1) characterization of the upgradient portions of the Site, where other plumes (Jervis Webb and Cooper Drum) were suspected to be present and to

potentially commingle with the SAIA plume; and (2) characterization of the high-concentration portions of the SAIA plume south of the SAIA property. In July 2015 the field team advanced CPT/Hydropunch borings SAIA-CPT14 through -20 to define groundwater contamination on the LAUSD lots on either side of Tweedy Boulevard (**Figure 1-4**), where both the SAIA and LAUSD contaminant plumes are present. At all these locations, the field team collected discrete-depth samples from the semi-perched aquifer (where possible; this unit was sometimes dry); the shallow, middle, and lower Gaspur Aquifer; and the Exposition Aquifer.

2.4.2 Monitoring Well Installation and Development

During the RI, the field team installed a total of nine triple-completion and four single-completion wells (at locations SAIA-MW01 through SAIA-MW13) to evaluate the extent of groundwater contamination (**Figure 1-4**). Triple-completion wells were constructed with three screening interval depths within the same borehole to intercept the shallow, intermediate, and lower portions of Gaspur Aquifer. Identifiers for wells in these three units contain the suffixes A, B, or C, respectively (e.g., SAIA-MW1A indicates shallow Gaspur Aquifer, etc.). The field team installed the single-point completion wells to monitor groundwater in the upper portion of the Exposition Aquifer; the identifiers for these wells are SAIA-MW7, -8, -10, and -13. The monitoring wells were constructed of 2-inch-diameter, Schedule 40 PVC casing and 0.020-inch milled-slot PVC screen installed in a nominal 12-inch-diameter borehole; for single-completion wells, borehole diameter was 8 inches. Well screens ranged from 5 to 10 feet in length. During well construction, the drillers placed a filter pack to approximately 2 feet above the top of the well screen and filled the remaining portion of the annular space of the borehole with a mixture of neat cement grout. At the ground surface, a 12-inch-diameter traffic-rated well box was set in concrete.

Following a minimum of 24 hours after installation, the field team developed each new monitoring well by swabbing, bailing, and submersible pumping, and removed a minimum of 10 well casing volumes of groundwater from each well during development. The field team measured groundwater during well development for field water-quality parameters, and continued development until field groundwater parameters stabilized (i.e., pH ± 0.1 pH units, specific conductance ± 5 percent of previous readings, temperature ± 1degree Celsius [°C], and

turbidity less than 10 nephelometric turbidity units [NTU]; or 25 NTU for clay formations, in accordance with the SAP [ITSI Gilbane, 2012])). **Appendix B** includes monitoring well construction logs and **Appendix C** includes well development forms used to record field data during well development.

2.4.2.1 Monitoring Well Sampling

The field team sampled groundwater monitoring wells in four separate events, in March and August 2014, and July and September 2016. The network of wells selected for monitoring and sampling for this RI included existing and newly installed monitoring wells. **Figure 1-4** shows the network of existing and new monitoring wells sampled for the RI. **Table 2-1** presents a summary of the wells installed for the RI, and **Appendix B** includes as-built well construction details.

The field team sampled the monitoring wells in four events as follows:

- New wells installed in 2014 (sampled March and August 2014) – SAIA-MW1A/B/C, SAIA-MW2A/B/C, SAIA-MW3A/B/C, SAIA-MW4A/B/C, SAIA-MW5A/B/C, SAIA-MW6A/B/C, SAIA-MW7, SAIA-MW8.
- Existing wells installed as part of the Cooper Drum RI/RD (sampled March 2014) – MW-34, MW-35, MW-42, MW-43, MW-44, MW-45, MW-46, MW-47, MW-48, MW-49, MW-52, MW-56.
- New wells installed in 2016 (sampled July and September 2016) – SAIA-MW9A/9B/9C, SAIA-MW10, SAIA-MW11A/11B/11C, SAIA-MW12A/12B/12C, and SAIA-MW13.
- Existing wells (sampled July 2016) – SAIA-MW1A/1B/1C, SAIA-MW2A/2B/2C, SAIA-MW3A/3B/3C, SAIA-MW4A/4B/4C, SAIA-MW5A/5B/5C, SAIA-MW6A/6B/6C, SAIA-MW7, SAIA-MW8, MW-32, MW-34, MW-35, MW-42, MW-43, MW-44, MW-45, MW-46, MW-47, MW-48, MW-49, MW-52, MW-56.

The field team purged each monitoring well before sampling, and measured and recorded field parameters (pH, specific conductance, dissolved oxygen, temperature, oxidation-reduction potential, and turbidity) throughout the period of purging. The field team considered purging to be complete when at least three successive readings of parameters (recorded approximately every 3 to 5 minutes) were within the following criteria: ± 0.1 for pH, ± 3 percent for specific conductance, ± 10 percent for dissolved oxygen, ± 10 millivolts (mV) for oxygen-reduction potential (ORP), less than 10 NTU for turbidity (or 25 NTU for clay formations, per the SAP), while maintaining water-level drawdown of less than 0.33 feet (approximately four inches). If

turbidity was greater than 10 NTU (25 NTU for clay), the Puls and Barcelona (EPA, 1996) goal of ±10 percent variance for NTU was followed.

The field team submitted groundwater samples for analysis of VOCs and 1,4-D for all sampling events. Other analyte groups were sampled only for selected monitoring events or locations, including SVOCs, PCBs, metals, perchlorate, and general water chemistry parameters including alkalinity, chloride, sulfate, sodium, potassium, calcium, magnesium, iron, manganese, copper, zinc, total organic carbon, and total dissolved solids. The field team submitted all samples in accordance with the required sample collection, preservation, and chain-of-custody procedures as detailed in the SAP (ITSI Gilbane, 2012).

2.4.2.2 Groundwater Level Measurement

The field team measured groundwater elevations during the four groundwater monitoring events (March and August 2014, and July and September 2016), as summarized for the newly installed monitoring wells in **Table 2-1**, and collected groundwater elevation measurements from a network of approximately 65 to 75 monitoring wells across the Site. The field team measured groundwater levels at each existing and new well using an electronic sounder, recorded on a data sheet as feet below the measuring point (usually top of well casing) to the nearest 0.01 foot.

2.4.3 Decontamination Procedures

The field team decontaminated all reusable sampling equipment and tools that came in contact with potentially contaminated soil or water before and after each use, including all equipment used down-hole, such as groundwater pumps, water level meters, direct-push rods, CPT rods, hollow-stem auger (HSA) flights, Hydropunch samplers, and stainless-steel bailers, by steam-cleaning or scrubbing and rinsing.

2.4.4 Site Survey

A professional surveyor licensed in California surveyed the locations and elevations of each monitoring well location. The elevations were surveyed at a marked reference point at the top of the inside well casing, usually to the north. The field team also used this mark as the reference point for measuring groundwater depths. The surveyor used the elevations of the top of each casing as the reference point to the nearest 0.01 foot and elevations of the ground surface were

measured to the nearest 0.1 foot, both referenced to mean sea level (msl). The surveyor measured the horizontal location of each well's center-point to the nearest 0.1 foot. The survey coordinate data were based on California Coordinate System (CCS83), Zone 5, 1983 Datum. A summary of the survey data is in **Table 2-1**, and survey reports are in **Appendix D**.

The field team surveyed the CPT and soil gas sampling locations using a professional hand-held global positioning system (GPS) receiver, Trimble Geo XH 2005 model, with post-processing data correction capabilities for sub-foot accuracy.

2.4.5 Investigation-Derived Waste

During the well installation and sampling activities, the field team generated soil cuttings and rinsate/purge water, considered to be investigation-derived waste (IDW). The field team stored IDW temporarily at the SAIA property yard in 20-cubic-yard roll-off bins (soil) and Baker tanks (water), or in United Nations (UN) approved 55-gallon drums, labeled as non-hazardous waste, pending characterization and arrangements for transport and disposal.

The field team collected composite samples from IDW containers and submitted them for laboratory analysis. American Integrated Services, Inc., California profiled all IDW as soil or purge water waste, and properly transported and disposed of it. The IDW waste profile and manifest documentation is in **Appendix C**.

2.5 DATA QUALITY ASSURANCE/QUALITY CONTROL

The field team collected and reported approximately 63,000 results for the sampling events that comprise the RI. The Project Chemist compiled a Data Quality Summary Report (DQSR) encompassing groundwater, soil, soil gas, and indoor air samples collected between March of 2013 and April of 2017, attached in **Appendix F**.

The analytical laboratories analyzed groundwater samples for the following groups of constituents: VOCs, SVOCs, 1,4-D, PCBs, metals, cyanide, selected anions, perchlorate, total organic carbon (TOC), alkalinity, and total dissolved solids. Laboratories analyzed soil samples for VOCs, SVOCs, 1,4-D, PCBs, and metals; and analyzed indoor air and soil gas samples for VOCs only. The detailed analytical methods are presented in the DQSR (**Appendix F**).

Laboratories conducted analyses in accordance with approved standard methods and the following project sampling plans: the RI/FS SAP (ITSI Gilbane, 2012) and the VI SAP (Gilbane, 2015a).

The field team submitted soil and groundwater samples to the EPA Contract Laboratory Program (CLP) network of laboratories or EPA Region 9 (R9) Laboratory in Richmond, California. The field team submitted water quality parameter samples for general chemistry analysis to the R9 Laboratory. The R9 Laboratory and H & P Mobile Geochemistry, Inc., of Carlsbad, California analyzed the soil gas samples. The R9 Laboratory and Eurofins Air Toxics, Ltd. (Eurofins), of Folsom, California analyzed the indoor air samples. The laboratories submitted the laboratory analytical reports to Gilbane as portable document format (pdf) files, included as **Appendix E**. Gilbane uploaded the electronic data deliverables from each laboratory into the Gilbane electronic data management system (eDMS) database by sample delivery group (SDG). The eDMS database is configured to perform a consistency check between the laboratory data and the chain-of-custody input information. The Project Chemist resolved any discrepancies (e.g., non-matching sample identifiers) prior to approving the SDG. Gilbane performed an automated data review on all the results, and supplemented this with manual review to meet the requirements of a minimum of a Stage S2BVEM data review for CLP or commercial lab data and S2AVEM for R9 data as defined in the EPA *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (EPA, 2009).

The EPA Region 9 Quality Assurance Office (QAO) data validation contractor performed an independent EPA Tier 3 validation on approximately 10% of the CLP organic and metals data. CLP data received at least EPA Tier 1B validation by the EPA QAO or Stage S2BVEM by the Gilbane Project Chemist. The Gilbane Project Chemist performed approximately 10% S3VEM and 90% S2BVEM validation on indoor air data from the R9 or commercial laboratories.

The EPA Region 9 Quality Assurance Office and the Gilbane Project Chemist reviewed and validated the analytical data according to the procedures specified in the following project plans and EPA guidance, as applicable: RI/FS SAP and/or VI SAP; *National Functional Guidelines for Inorganic Superfund Methods Data Review* (EPA, 2017a); and *National Functional Guidelines*

for Organic Superfund Method Data Review (EPA, 2017b). The validation reports to the DQSR and the DQSR are in **Appendix F**.

2.5.1 Qualified Results

Data qualifiers are defined in National Functional Guidelines (EPA, 2017a and 2017b). The final data tables contain the EPA data qualifiers (J, UJ, U, or R) as appropriate for the RI data. The DQSR contains the reason codes for each data qualifier (Attachment F). Multiple qualifiers may apply to a result.

2.5.2 Rejected Results

The data review and validation process identified and qualified as rejected ("R") 10 results due to analytical performance issues, out of a total of 63,169. The following summarizes the reasons for the rejections:

- Data reviewers rejected nine results for continuing calibration verification (CCV) relative response factor (RRF) anomalies (bromomethane results in SAIA-MW5A, SAIA-MW5B, and SAIA-MW6C; and 1,2,4-trichlorobenzene results in four field samples [SAIA-MW9B-0716, MW56-0716, SAIA-MW9C-0716, and SAIA-MW10-0716], one field duplicate associated with SAIA-MW9C-0716, and one trip blank).
- Data reviewers rejected one result for low matrix spike recoveries (antimony in sample SAIA-SB12-05).

As none of these analytes are chemicals of concern, the loss of the rejected results has minimal impact on project decisions. Although the rejected data are not usable, they represent a very small percentage of the dataset (0.01%). The effect on data usability is not significant.

2.5.3 Field Duplicates

The field team collected approximately one in 10 samples as a field duplicate and submitted these samples for analysis of the same parameters as the primary samples. The RI/FS SAP and VI SAP specify that field duplicate results are in agreement when the relative percent difference (RPD) between the field duplicate result and the normal sample result is less than 35% when the results exceed the reporting limit (RL), or the absolute difference is less than the RL for concentrations near the RL. Data reviewers compared fifty-five sample pairs, representing 4,373 result pairs. Of these 4,373 result pairs, only 63 pairs exceeded the RPD goal of 35%. Over half of the exceedances were metals in soil; these exceedances are attributable to the generally

nonhomogeneous distribution of metals in that matrix. Three additional results with primary or field duplicate results less than one times the RL had absolute differences between the results greater than the RL and the data reviewers considered these out of validation criteria. The effect on data usability is very minor.

In addition to field duplicates, the field team collected soil gas split samples for the April 2014 soil and soil gas monitoring event. The split sample evaluation was presented under separate cover in the *Soil and Soil Gas Monitoring Results April 2014, Southern Avenue Industrial Area Superfund Site Remedial Investigation/Feasibility Study, South Gate, California Technical Memorandum* (Gilbane, 2015b), and is not further discussed here.

2.5.4 Field Deviations and Other Issues

EPA and Gilbane noted the following field deviations or sampling issues for the RI sampling. During the 2016 indoor air sampling event, the field blank was improperly collected, as shown by the dates of exposure on the chain of custody (COC) and by the sample's analytical results, indicating the field blank was collected across 7 days. As described in EPA Method TO-17, the accepted method for collecting field blanks for sorbent tubes is to uncap and immediately reseal the cartridge designated as the field blank. No usable field blank results were available for this event. The effect on data usability is unknown.

The field team collected a total of 1,079 out of 1,093 planned primary samples. During the March 2013 CPT/Hydropunch sampling event, the field team could not collect samples at seven locations, as no water was encountered at the planned depths. One soil boring at location SAIA-SB/SG26 met refusal before the bottom depth samples at 35 feet could be collected by the field team for soil or soil gas, and the soil-gas sample at SAIA-SB/SG28 at 25 feet could not be collected, probably because of a plugged opening in the porous ceramic sample point. Data usability is not significantly affected, as field completeness for the RI is 99.2%, which meets and exceeds the completeness goal of 95%.

2.5.5 Conclusion and Data Usability

The EPA Region 9 Quality Assurance Office selected the analytical methods used for the RI samples to provide quality data sufficient to meet data quality objectives, including

comparability to historical data, continuity of the groundwater monitoring program, and the project sensitivity requirements for soil gas and indoor air sampling.

The analytical completeness of the dataset is determined by the number of acceptable primary results after data review. The data reviewers only used the results for the primary project samples in the calculation to determine the completeness of the data. Out of 53,702 primary results, 3,816 were qualified by the data validator. Of these 3,816 qualified primary results, 1,079 primary results were qualified for trace values only, while 2,737 primary results, or 5.1% of the total primary results, were qualified for method performance or analytical QC issues. These results as qualified can be used for their intended purposes. Data validators qualified eight results as rejected, out of 53,702 primary results. Therefore, the completeness of the analytical dataset is 99.99%, which exceeds the completion goal of 95% specified in the SAPs. Field completeness is determined by the number of planned primary samples collected, shipped, and analyzed. Upon receipt by the laboratory, samples were cross-checked with the COC form documentation for completeness, and entered into the laboratory's data system. A total of 1,084 out of 1,093 planned primary samples were collected, shipped and analyzed. Therefore, the field completeness for the RI is 99.2%, which meets the completeness goal of 95%.

The Project Chemist has determined that the data generated for the RI sampling events met the project objectives. Overall, there were minor quality control deficiencies affecting the data. The estimated data as qualified are of acceptable quality and should be considered usable for their intended purposes. The rejected data, while not usable, are of minimal impact to the project.

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3.0 PHYSICAL CHARACTERISTICS OF THE SITE

The SAIA property is located at 5211 Southern Avenue, South Gate, California. The geographic coordinates for the site are 33º 56' 45" North latitude and 118º 10' 38" West longitude. The SAIA property and the surrounding area have relatively low relief, and are located approximately 1,000 feet west of the concrete-lined Los Angeles River, which flows due south. The Rio Hondo River flows into the Los Angeles River approximately 1.2 miles to the south of the Site. **Figure 1-1** shows the location of the Site.

3.1 HYDROGEOLOGY

Based on the CPT borings and monitoring wells installed for this RI effort, the project geologist has identified the near-surface hydrogeologic units as the semi-perched aquifer, the Bellflower Aquiclude, the Gaspur Aquifer, and the upper portions of the Exposition Aquifer. The RI distinguishes these units as shallow aquifer and deep aquifer systems. The shallow aquifer is composed of the saturated portion of the Bellflower Aquiclude, including a semi-perched aquifer, and the Gaspur Aquifer. The deeper aquifer includes the upper portion of the Exposition Aquifer. The Basin Plan prepared by the California Regional Water Quality Control Board, Los Angeles Region (RWQCB-LA) designates the groundwater beneath the Site as having beneficial uses; however, water purveyors do not use the semi-perched aquifer (or the Gaspur or Exposition aquifers) for drinking water purposes. Furthermore, it is very unlikely that the semi-perched aquifer would be capable of a minimum sustainable yield of 200 gallons per day, one of the criteria that define a potential domestic drinking water aquifer under RWQCB Resolution Number 88-63.

At the Site, the Bellflower Aquiclude extends from the ground surface to depths ranging between 50 and 70 feet bgs. The Gaspur Aquifer underlies the Bellflower Aquiclude and extends to depths ranging from approximately 110 to 120 feet bgs. The Exposition Aquifer is in the upper portion of the deeper aquifer system, underlying the Gaspur Aquifer.

Semi-Perched Aquifer

The RI field team identified the semi-perched aquifer at the Site at a depth of approximately 30 feet bgs. The unit ranges in thickness from approximately 3 to 10 feet, and appears to pinch out

in the downgradient direction, as profiled by the two farthest-downgradient CPT logs, at SAIA-CPT19 and SAIA-CPT22. The semi-perched unit occurs within the predominantly fine-grained Bellflower Aquiclude, and consists of poorly graded sands and silty sands with minor interbeds of finer-grained sediments. The monitoring of this aquifer for work at the nearby Cooper Drum Superfund Site has indicated that its groundwater levels are generally higher than in wells completed within the shallow interval of the Gaspur Aquifer, which lies beneath the semi-perched aquifer.

The lateral extent of the semi-perched aquifer is unknown. The observed water levels have historically fluctuated, suggesting that saturation of the semi-perched zone is intermittent.

Bellflower Aquiclude

Based on the CPT logs, the Bellflower Aquiclude described by DWR (1961), which incorporates the semi-perched aquifer, extends from the ground surface to a depth of approximately 50 to 60 feet near the Site property, and to approximately 70 feet bgs in the downgradient area of the overall Site impacts, south of Tweedy Blvd. The Bellflower Aquiclude consists predominantly of silts, clayey silts, silty clays, and sandy clays. The portion of the Bellflower Aquiclude lying below the semi-perched aquifer ranges from 10 to 30 feet thick.

Gaspur Aquifer

The Gaspur Aquifer as described by DWR (1961) is present beneath the Site starting at approximately 50 to 70 feet bgs, and extends to approximately 110 to 120 feet bgs, dipping and thickening somewhat to the south. The Gaspur Aquifer is present immediately below the overlying Bellflower Aquiclude. Based on the CPT logging conducted by the RI field team, the Gaspur Aquifer in the vicinity of SAIA consists of poorly graded sands, silty sands, clayey sands, well-graded sands, gravelly sands, and minor amounts of silt and clay interbeds.

The Gaspur Aquifer beneath the Site exhibits better sorted and coarser sediments to the east toward the Los Angeles River (see **Figure 3-3** [B-B'] and **Figure 3-4** [C-C'], respectively). The depth to groundwater in the Gaspur Aquifer at the Site is approximately 60 to 70 feet bgs, with a predominant southerly flow direction and gradient.

The RI uses three depth intervals for the Gaspur Aquifer to facilitate the interpretation of groundwater migration across the site, and to conform with the groundwater monitoring program established for the nearby Cooper Drum Superfund Site. The RI refers to these depth-specific intervals as the shallow Gaspur, intermediate Gaspur, and lower Gaspur Aquifers. Groundwater elevations in wells screened within the shallow, intermediate, and lower zones of the Gaspur Aquifer at the Site show downward vertical gradients, indicating downward groundwater flow within this unit (see **Section 3.3.3**).

Exposition Aquifer

The Exposition Aquifer as described by DWR (1961) is present beneath the Site beginning at a depth of approximately 110 to 120 feet bgs. The interface between the base of the Gaspur and the upper Exposition Aquifers is not a clear boundary, but instead varies spatially, consisting of alternating layers of predominantly fine-grained materials of silty sand, sandy silt and clayey silt ranging from 5 to 15 feet in thickness.

The RI team investigated only the upper portion of the Exposition Aquifer in the Site vicinity. Based on the CPT logs, the lithology of this unit is somewhat coarser than the shallower units, consisting of poorly graded sands, silty sands, gravelly sands, poorly graded gravels, sandy gravels, and interbeds of fine-grained silts and clayey silts.

The Exposition Aquifer is the shallowest of four aquifers found within the Lakewood Formation (DWR, 1961). The two deepest aquifers of the Lakewood Formation (Gardena and Gage) are reportedly the shallowest sources for municipal, industrial, and commercial wells in the general area of the Site, beginning at depths ranging from 280 to 300 feet bgs in the vicinity of the Site.

3.2 HYDROGEOLOGIC CROSS-SECTIONS

Figure 3-2 through **Figure 3-6** show five hydrogeologic cross-sections based on the CPT stratigraphic profiling, which in turn is based on the specific sediment behavior types (discussed in the following paragraphs) determined during CPT logging (CPT logs are in **Appendix B**). **Figure 3-1** shows a plan view of the lines of these cross-sections. Cross-section A-A' (**Figure 3-2**), in addition to following the north-south hydraulic gradient flow path from the contaminant source to the downgradient area, also follows the approximate center-line of contaminant

concentrations. The four transverse (east-west) cross-sections illustrate the breadth of contaminants above screening levels, as the eastern and western ends of the cross-sections indicate low VOC concentrations. These cross-sections (**Figure 3-3** through **Figure 3-6**, respectively) follow the southern boundary of the SAIA property (B-B'), McCallum Avenue (C-C'), Wood Avenue (D-D'), and Tweedy Boulevard (E-E').

3.2.1 CPT Logging and Cross-Section Development

The CPT method provides data useful in distinguishing the nature of sediment present in the subsurface, by collecting data on the amount of downward pressure needed to advance the borings, and the magnitude of friction resistance along the sidewall of the lower portion of the cylinder near the bottom of the boring. These data relate to fundamental soil properties, including characteristics such as strength, stiffness, and compressibility. Twelve sediment behavior types (SBTs) have been recognized on this basis by Robertson (1990). To simplify somewhat the display of sediment types and to facilitate comparisons and correlation of units from one location to the next in the cross-sections, the RI groups the sediments according to the following scheme:

- Clay, silty clay, and clayey silt = SBT3, SBT4, and SBT5.
- Clayey silt, sandy silt, and silty sand = SBT6 and SBT7.
- Silty sand, sand = SBT8.
- Sand, gravelly sand = SBT9 and SBT10.
- Very stiff fine-grained, over-consolidated or cemented = SBT11.
- Sand to clayey sand, over-consolidated or cemented = SBT12.

SBT1 and SBT2 are very soft sediment types that were not present in Site CPTs, while SBT11 and SBT12 were very sparse in occurrence. The remaining four sediment groupings listed above (SBT3 through SBT10) account for most of the stratigraphic thickness penetrated in the CPTs at the Site. The sediment groupings are also consistent with literature information (e.g., DWR [1961] and other references provided above) on the depths and distribution of stratigraphic units in the Site vicinity, which in turn support the general accuracy of the cross-sections.

The RI team devised the above grouping of SBTs while keeping in mind the ideas of sequence stratigraphy, which recognizes the prevalence of specific sequences or cycles of sediment

according to the environment in which sediments are deposited (e.g., Van Wagoner et al., 1990; Catuneanu, 2006). In the case of the Bellflower Aquiclude, Gaspur Aquifer, and Exposition Aquifer, the environment of deposition was predominantly that of an alluvial basin (e.g., Jahns, 1954; DWR, 1961). This type of environment of deposition is marked most commonly by a fining-upward sequence (Allen, 1965). The base of a single alluvial cycle is often sharp, eroded into the underlying layer; channel deposits of gravel and coarse sand are at the base of a cycle, overlain successively by finer sand, and then overbank deposits of silt and/or clay. These cycles may repeat multiple times. Specific sedimentary structures are often present, with cross-bedding in the coarse layers and burrowing or laminations in the finer layers. Not all sediment types are present in a single fining-upward alluvial cycle, and the fining-upward pattern does not always hold, but it tends to be the prevalent pattern.

The 22 CPT borings advanced for the RI revealed sediment types consistent with those of the surrounding area, including those at Cooper Drum (URS, 2002). The CPT boring logs from these sites characterize the sediments as having frequent changes in sediment type, with many units only 1 to 5 feet thick. However, some general patterns appear, and the boring logs from both sites distinguish the three main aquifer units described above (Bellflower, Gaspur, and Exposition). The RI team created another set of boring logs based on the physical samples collected from selected depths from the on-property soil borings (SAIA-SB/SG01 series). These soil boring logs correlate quite well with the CPT logs. At the 15- and 25-foot bgs depth samples, for example, the boring logs generally indicate the presence of silty sand, while the 35-foot sample indicated poorly graded (relatively well-sorted) sand; this observation is consistent with CPT logs from on-property locations, such as SAIA-CPT03, -04, and -05, and Cooper CPT-21 and -36 (also located on the SAIA property); both sets of boring logs are presented in **Appendix B**.

On the cross-sections, thick lines indicate boundaries between the three main hydrogeologic units (Bellflower, Gaspur, and Exposition), and narrow lines indicate boundaries between the thinner layers within the main hydrogeologic units. The RI team used analytical data from groundwater samples of both monitoring wells and discrete-depth samples from CPT borings for

the cross-section development and plume concentration contours for TCE and cis-DCE, the two contaminants with the highest analytical concentrations in the SAIA contaminant plume.

3.2.2 Bellflower Aquiclude

The vadose zone comprises the unsaturated portion of the subsurface that lies above the groundwater table. The soils in the vadose zone are not fully saturated with water; that is, the pores within them contain air as well as water. The vadose zone influences pathways of infiltration of water from the land surface to the aquifer. Vadose zone sediments across the site are part of the Bellflower Aquiclude, which ranges downward to depths ranging from 50 to 70 feet bgs. The Bellflower Aquiclude, as described above, is predominantly composed of silts, clayey silts, silty clays, and sandy clays. The blue and green CPT zones in the cross-sections, broadly indicating clay to silty sand, predominate in this upper 50-to-70-foot zone, constituting at least 80% of the sediment thickness of the Bellflower (see **Figure 3-2** through **Figure 3-6**).

The only continuous zone of coarser sediment within the Bellflower Aquiclude is a sandy, locally gravelly zone, ranging from 3 to 10 feet in thickness, which appears in the CPT logs at a depth of approximately 30 to 40 feet bgs. This is the only portion of the Bellflower that is water-saturated, and thus constitutes a semi-perched aquifer. This saturated interval, being thin and variable, is not a significant aquifer. Therefore, EPA does not monitor this semi-perched aquifer in the Site wells, although the nearby Cooper Drum site has several wells screened in the semi-perched aquifer.

Below the semi-perched aquifer, the lower 15 to 30 feet of the Bellflower Aquiclude (extending down to the Gaspur Aquifer) consist of fine-grained sediments similar to the shallower zone above the semi-perched aquifer.

3.2.3 Gaspur Aquifer

The Gaspur Aquifer was a primary focus of the groundwater work for the RI, as it is the shallowest aquifer with a broad horizontal and vertical extent, and prior investigations conclude that this aquifer is impacted by the main contaminants of potential concern (COPCs; TCE, *cis*-DCE, PCE; see **Section 1.1.4**). As a result, 27 of the 31 monitoring wells installed for the RI

monitor the Gaspur Aquifer. (The other four monitoring wells installed for the RI monitor the Exposition Aquifer.)

The CPT logs show that the Gaspur Aquifer is predominantly (about 50% to 80%) composed of sand and gravel, with occasional interbeds of finer sediments. Starting beneath Southern Avenue just downgradient of the SAIA property, and continuing to the south to Aldrich Road, the fine silts and clays (green and blue units; see **Figure 3-2**) become less common in the Gaspur Aquifer, and coarser sediments become predominant, as they are present in thicker, more continuous layers. At a depth of about 65 feet (elevation about 40 feet above msl), there is an apparently continuous coarse interval, in most cases containing both sand and gravel (see **Figure 3-2** through **Figure 3-6**). This coarse interval appears to be a significant unit in terms of contaminant transport, because the four well locations on-property and extending approximately 700 feet downgradient of the Site property (SAIA-MW1, SAIA-MW2, SAIA-MW3, and SAIA-MW4) have very high levels of total VOCs in the shallow Gaspur Aquifer on the Site property and in the intermediate Gaspur Aquifer downgradient of SAIA property (see **Figure 3-2**). The top and bottom contacts of the Gaspur Aquifer, as well as the smaller intervals within the Gaspur, appear to dip slightly southward from the SAIA property to the downgradient area at Aldrich Road, in general concordance with the downward slope of surface elevations from north to south (**Figure 3-2**). This figure also shows increasing depth of contamination southward, with the middle and lower units (middle and lower Gaspur Aquifer and the Exposition Aquifer) hosting the high contaminant concentrations in the southern part of the Site.

3.2.4 Exposition Aquifer

The field team identified the upper portion of the Exposition Aquifer in six of the CPT borings advanced for the RI (SAIA-CPT4, SAIA-CPT5, SAIA-CPT6, SAIA-CPT11, SAIA-CPT14, and SAIA-CPT19), at depths of approximately 110 to 120 feet bgs. CPT borings were advanced no more than about 5 to 15 feet into the Exposition Aquifer. Within this short interval, the field team characterized the sediment as gravel, sand, and fines (silt/clay), in order of decreasing proportions.

3.3 GROUNDWATER FLOW CHARACTERISTICS

EPA evaluated groundwater flow characteristics based on the observations and collection of groundwater data across the site as part of the RI, and on the results of the investigations conducted on the adjacent Cooper Drum Superfund Site (see **Section 1.1.4** and **Section 1.1.5.3**). The SAIA and Cooper Drum sites share close similarities in geologic and hydrogeologic conditions.

Table 2-2 presents the groundwater elevation data collected from the three rounds of water-level measurements in March 2014, July 2016, and September 2016. The data collected in 2016 incorporate the newer wells installed by the RI field team to delineate contaminant plume extent in the downgradient parts of the overall Site.

3.3.1 Groundwater Fluctuations

RI groundwater elevation measurements indicate that groundwater levels decreased by an average of approximately 5 feet across the site between 2014 and 2016. This scenario is likely due to the drought that occurred across the state of California from 2011 to 2015. Similar declines have occurred nearby: Over a longer period, groundwater levels at the Cooper Drum Site, just west of the SAIA Site, declined by about 10 feet in the shallow Gaspur Aquifer from 2012 to the present.

3.3.2 Horizontal Flow Gradients

Figure 3-7, **Figure 3-8**, and **Figure 3-9** show the groundwater potentiometric contour maps for the shallow, intermediate, and lower Gaspur Aquifers, respectively, based on the July 2016 monitoring event. **Figure 3-10** shows groundwater elevations for the Exposition Aquifer; however, the number of Exposition Aquifer wells is limited, and these elevations are not sufficiently consistent to allow for accurate interpretation of potentiometric lines. The water levels collected during the other groundwater monitoring events (March 2014 and September 2016) are generally consistent with the relative elevations and gradients determined for the July 2016 event.

Based on the RI groundwater elevation data measured at Site wells, the predominant groundwater flow direction within the Gaspur Aquifer is south to southeast, with an estimated

horizontal hydraulic gradient of 0.0015 ft/ft within the shallow interval of the Gaspur Aquifer. Local variations in groundwater flow direction within the shallow and intermediate Gaspur Aquifer also have occurred: A groundwater elevation map from URS Group (2007), presented in **Appendix A-3**, depicts south-southwesterly groundwater flow in a limited area beneath the western part of the SAIA property. The operation of the extraction system on and downgradient of the nearby Cooper Drum Superfund Site since December 2013 (Haley and Aldrich, 2014) appears to influence localized flow patterns west of the SAIA site, creating a local flow component to the southwest. This pattern has continued to the present (Haley and Aldrich, 2019).

3.3.3 Vertical Flow Gradients

Table 3-1 draws a comparison of water levels for wells screened in different vertical portions of the subsurface. These co-located pairs include (1) wells screened in different intervals within the Gaspur Aquifer and (2) locations where one well is screened in the Gaspur Aquifer and the other is screened in the underlying Exposition Aquifer. A positive result, by convention, indicates that the hydraulic head in the shallower well is greater than the hydraulic head in the deeper well. Calculation of the gradients is performed by dividing the difference in groundwater elevations between two wells, by the difference in the physical elevations of the mid-point of the well screens. A positive quotient indicates a downward vertical gradient between the two wells, from shallow to deep, indicating a tendency of groundwater to migrate downward as it moves along its direction of flow.

The vertical gradients between co-located pairs of wells within the Gaspur Aquifer ranged from -0.03 ft/ft at SAIA-MW4A (a shallow Gaspur well) and SAIA-MW4B (a middle Gaspur well), indicating a slight upward gradient, to 0.12 ft/ft at SAIA-MW11B and SAIA-MW11C (a lower Gaspur well), indicating a fairly strong downward gradient (**Table 3-1**). The calculated difference in water levels (hydraulic heads) between the Gaspur and Exposition Aquifers ranged from 0.06 ft/ft at the downgradient co-located wells (SAIA-MW12C and SAIA-MW13) to 0.25 ft/ft at the SAIA property wells (SAIA-MW2C and SAIA-MW7).

Within the three subunits of the Gaspur Aquifer (the A [shallow], B [middle], and C [lower] wells of each cluster), the calculated gradients tend to be more strongly downward between B

and C wells than between A and B wells. Between the Gaspur and the Exposition Aquifer, there is a predominant downward flow which serves to provide an impetus for contaminants to migrate downward as they proceed downgradient from the contaminant source area at the Site.

3.3.4 Aquifer Tests

EPA has not performed aquifer tests at the Site. However, URS (2009), on behalf of EPA, conducted a pumping test in May 2009 for the adjacent Cooper Drum Superfund Site as part of the remediation design to optimize the capture of VOC contaminants released from the Cooper Drum site. URS installed an extraction well (EW-3) to evaluate the conditions and potentially extract groundwater in the downgradient area along McCallum Avenue approximately 400 to 500 feet downgradient and south to southwest of the SAIA property. URS (2009) reported the results of these tests as showing hydraulic conductivity values ranging from 26 to 57 feet per day. A copy of the results of this pump test is in **Appendix G**.

3.4 CURRENT LAND USE

Land uses categorized as residential, commercial, industrial, and public/institutional comprise approximately 82% of the City of South Gate's total land area of 3,739 acres (South Gate General Plan, 2015). The remaining land consists of public parks, freeways, flood control rights-of-way, and railroad rights-of-way. Almost all of South Gate is developed, with less than 60 acres remaining undeveloped or vacant. Commercial land use includes neighborhood, community, and regional shopping centers; commercial sales and service; general office; medical office; and lodging. Commercial development is located primarily on commercial strips located adjacent to major arterials such as Firestone Boulevard, Long Beach Boulevard, and Tweedy Boulevard. The northeastern, eastern, and extreme western parts of the City contain the majority of industrial land uses. Warehousing and distribution sites occupy the southwestern industrial area of the City. A variety of industrial users, such as light manufacturing and mineral processing sites, occupy the northwestern industrial area of the City.

In the ultimate land use scenario, the City plans that 376 parcels totaling 160 acres will change from their current land uses. The 160-acre total represents 60 acres of vacant land slated for development and 100 acres of existing land use slated for redevelopment. The large areas of

concentrated redevelopment include two areas of new schools in the eastern/southeastern areas of the City (South Gate General Plan, 2015).

3.5 CLIMATOLOGY

South Gate has a semi-arid Mediterranean climate with mild winters and hot, dry summers. The average annual precipitation is 14.8 inches (380 millimeters [mm]) per year, with most occurring between November and April (Wikipedia). Temperatures range from a low of 40 degrees Fahrenheit (°F; 4 °C) to a high of 110 °F (43 °C). Throughout the year, the average daily temperatures range from 54 °F (12 °C) to 73 °F (23 °C).

In nearby Los Angeles (two miles west), wind velocity at the 90th percentile (based on hourly averages) ranges from 10 to 15 miles per hour throughout the year, with higher velocities generally occurring from November through April (https://weatherspark.com/y/1705/Average-Weather-in-Los-Angeles-California-United-States-Year-Round). Wind direction varies, but winds from the west are most common. Measured by dew point, the humidity levels are relatively low, being dry to comfortable (dew points less than 60 ºF) for much of the year. Inversion layers are more common in the summer months. On average, an inversion ceiling is present over Los Angeles 260 days a year (https://gizmodo.com/why-air-pollution-has-always-been-a-problem-in-l-a-an-1572151647). However, air quality has been good in recent decades, with no Stage 1 ozone alerts since 2003 (there were 112 such alerts per year from 1976 through 1980).

3.6 ECOLOGY

South Gate is an entirely urbanized municipality. Plants and trees are mostly located in parks, streetscaping, some riparian zones around the Los Angeles River and Rio Hondo Channel, and private yards and gardens. There are no known threatened or endangered species and very sparse wildlife, though natural areas such as South Gate Park or areas around the Los Angeles River may support migratory or native birds (South Gate General Plan 2015).

This site is completely covered with unbroken pavement. The industrial nature of the Site severely limits the available habitat for vegetation and soil invertebrates. As such, there are no actual or potential exposure pathways to any ecological receptors and so the ecological risk is

acceptable by definition. However, there are multiple contaminants present in soils and soil gas within 6 feet of the ground surface. If the pavement is ever removed and the land used in such a way as to allow exposure to uncovered soils, for example as a park, there would be complete exposure pathways and the ecological risk would likely be unacceptable. On this basis, EPA determined a screening-level ecological risk assessment is not warranted.

4.0 NATURE AND EXTENT OF CONTAMINATION

This section discusses the nature and extent of contamination identified at the Site during the RI. This key portion of the RI requires collection of sufficient quantitative data about the Site to fully characterize both the nature and extent of COPCs at the Site. The nature and extent of contamination provides input information to the fate and transport of contamination and the potential exposure pathways for risk, and serves as the basis for evaluation and selection of remedial alternatives if a site-specific human health risk assessment shows that remediation is necessary. This section describes the vertical and areal extent of contamination based on laboratory analysis of soil, soil vapor, air, and groundwater samples, and discusses the spatial distribution and temporal trends for specific COPCs identified based on this data.

4.1 SOIL AND VADOSE ZONE

EPA's soil and soil-gas investigations for the RI focused initially on sampling the areas of concern that previous studies identified as potential contaminant sources associated with historical operations at the former screw manufacturing facility at the SAIA property. The field team subsequently performed additional sampling at step-out locations, to define the extent of contamination in soil and soil gas. At each sampling location, the field team sampled soils within the vadose zone beneath the Site property at regular-interval depths of 0.5, 2, 5, 15, 25, and to a maximum depth of 35 feet bgs.

4.1.1 Soil Screening Levels

The RI team evaluated the analytical results detected above the respective laboratory reporting limits and compared them to the potential risk to human health based on EPA Regional Screening Levels (RSLs; EPA Region 9, 2018) for chemical contaminants under both residential and industrial land-use scenarios, using a total hazard quotient of 1.0. However, the applicable land-use scenario for the site where the field team collected soil samples is industrial, as all soil sampling locations are within either the SAIA property, the ELG Metals property, or the parking lot owned by Bell Foundry east of the SAIA property, just east of the railroad tracks. The field team advanced 31 soil borings on the SAIA property, nine borings a short distance off-property to the north (on the ELG Metals property), and four borings in the Bell Foundry property. The

field team collected soil analytical samples at 37 of these 40 soil borings, while the other three borings served as soil-gas collection locations only. The field team advanced an additional seven soil borings in the city right-of-way of properties south of the SAIA property. The field team did not collect soil samples for analysis from these locations; they only collected as soil-gas analytical samples.

4.1.2 Background Concentrations in Soil

Metals occur naturally in soils, and to be able to discern whether anomalous concentrations of metals are related to anthropogenic sources, the RI team compared Site analytical results with relevant regional background studies for applicable analytes (see discussion below). The regional background data provide threshold values to assess the degree and extent of contamination attributable to a Site. The California DTSC conducted a study of arsenic in background soils for the Southern California region in 2008, which resulted in an upper-bound background arsenic concentration of 12 milligrams per kilogram (mg/kg) for the region (DTSC, 2008). A study conducted by the Kearney Foundation of Soil Science in 1996 evaluated iron analytical concentrations in background soils in California in agricultural fields distant from known point-sources of contamination. Based on 50 such non-industrial soils, their reported average for iron concentration was 37,000 mg/kg (Bradford et al., 1996). Arsenic and iron are two of the only metals for which the background is greater than an RSL; background considerations are not significant for other metals at the Site.

4.1.3 Nature of Soil Contaminantion

Unlike metals that occur naturally in soils, most organic analytes (including most VOCs, SVOCs, and PCBs) are not naturally present in soils at significant levels.

4.1.3.1 VOCs

Table 4-1 lists the VOCs that laboratory analyses detected in samples that the field team collected from subsurface soils. Analyses indicated VOCs present in subsurface soil samples from various depths at 18 of the 37 soil boring locations analyzed for VOCs. Among VOCs, analyses detected only *cis*-DCE and TCE were at concentrations exceeding RSLs. Laboratory analyses reported *cis*-DCE at concentration of 65,000 micrograms per kilogram (ug/kg) in the 25-foot-bgs sample in soil boring SAIA-SB/SG09, exceeding the residential RSL. TCE soil

analyses exceeded the residential RSL at boring SAIA-SB/SG08 (2,000 ug/kg at 15 feet bgs), while TCE soil analyses exceeded residential or industrial RSLs at boring SAIA-SB/SG09 at all depths from 0.5 through 25 feet bgs, with the two industrial RSL exceedances reported at 32,000 ug/kg at 0.5 feet and 60,000 ug/kg at 25 feet bgs. **Figure 4-1** shows the extent of VOC contamination above industrial RSLs. This figure shows the approximate limits of contamination only around locations with analytical exceedances of the industrial RSLs, appropriate to the current and envisioned site use.

Of the 37 borings from which the field team collected soil samples for the RI, four borings had one or more sampling depths reporting analytical concentrations of one or more other chlorinated VOCs (other than TCE and *cis*-DCE) or petroleum-associated VOCs at levels less than RSLs, but at an order of magnitude greater than in the other borings (e.g., >100 ug/kg in these four borings). These VOC occurrences were limited to borings SAIA-SB/SG06, -SB/SG08, -SB/SG09, and -SB/SG10, from which samples from various depths contained chlorinated organics (trichloroethane [TCA], 1,1-DCA, 1,1,2-TCA, or PCE), and petroleum-associated compounds (isopropylbenzene, m,p-xylenes, or o-xylene) at peak analytical concentrations ranging from 100 to 3,000 ug/kg each. At all other soil sampling locations, these and all other VOCs were either non-detect or reported only at near-trace levels of about 10 ug/kg or less. The above-listed compounds have significance for characterizing the contaminant source area around the former degreasing building (see **Section 4.1.4**).

4.1.3.2 SVOCs

In RI soil samples, the analytical laboratory reported detections of SVOCs at concentrations above residential RSLs in six samples from five borings out of the 37 soil boring locations, at shallow depth intervals. **Table 4-2** lists the detected SVOCs and their soil sample analytical results, along with results for metals and PCBs. Benzo(a)pyrene exceeded the residential RSL at three soil boring locations, with detected analytical concentrations ranging from 130J (estimated) ug/kg (SAIA-SB/SB29, 0.5 feet bgs) to 1,100 ug/kg (SAIA-SB/SG36, 2 feet bgs). Dibenz(a,h)-anthracene also exceeded the residential RSL in the 5-foot analytical soil sample collected from SAIA-SB/SG36 (190 ug/kg), and in the near-surface 0.5-foot sample from SAIA-SB/SG38 (120J ug/kg). Naphthalene exceeded the residential RSL in the 5-foot analytical soil sample collected

from on-site boring SAIA-SB/SG03 (7,300J ug/kg). Two of the soil borings with residential RSL exceedances are off-property, in the southeastern portion of the ELG Metals recycling facility (at SAIA-SB/SG36 and SAIA-SB/SG38), and one is across the railroad tracks to the east of the Site on the Bell Foundry property (SAIA-SB/SG47); SAIA-SB/SG29 is located just inside the SAIA property, along its northern border with ELG Metals, while SAIA-SB/SG03 is located beneath the former Seam Master Industries building.

The highest SVOC analytical concentrations were from soil samples collected at and near the VOC source area in the northeastern part of the SAIA property, where a sample from 5 feet bgs at SAIA-SB/SG03 (between the degreasing building and the oil recovery building) had total SVOCs (mainly petroleum-associated compounds such as naphthalene and 2-methylnaphthalene) of 35,000 ug/kg. None of the SVOCs exceeded industrial RSLs in analytical soil samples; consequently, **Figure 4-1** does not show any SVOC exceedances.

4.1.3.3 Metals

Laboratory analyses for metals in soil samples reported antimony, arsenic, cobalt, copper, iron, lead, manganese, and thallium at concentrations above the residential RSL; only arsenic, lead, and thallium exceeded industrial RSLs, however. **Table 4-2** lists analytical results for metals in soil in **Table 4-2**, and **Figure 4-1** shows the distribution of metals exceeding industrial RSLs.

Arsenic. Arsenic analytical results exceeded both the residential and industrial RSLs in all soil borings and at nearly every sample depth, with detected concentrations ranging from 0.93J mg/kg to 43.8 mg/kg (J is a laboratory-applied qualifier indicating an estimated concentration). However, 227 of the 242 analytical soil samples had arsenic results ranging from 1.1 mg/kg to 12.7 mg/kg, within or slightly greater than the 12 mg/kg background range reported by DTSC (2008); two other samples were non-detect. Of the remaining 13 soil samples with higher reported arsenic analyses, 12 samples may also have arsenic of natural origin: while they range up to 27.5 mg/kg, they were all collected from depths of 25 or 35 feet, and the shallower samples from the same borings were all reported at less than the background range of 12 mg/kg. Site-related impacts of metals in soils should primarily occur at shallow depths rather than deep. As this is not the pattern for arsenic in these 12 samples from 25 and 35 feet, those exceedances likely reflect the natural background for arsenic. One soil analytical sample does appear to have

an arsenic analytical result that is Site-related: soil sample SAIA-SB/SG37 from 0.5 feet contained arsenic at 43.8 mg/kg. This soil sample also exceeded RSLs for analyses of antimony, iron, lead, manganese, and thallium, and may be due to site-related activities rather than being typical of background. Deeper soil samples from this location had much lower analytical concentrations of arsenic, and there is no evidence for either significant mobility of this metal, or broad distribution due to an onsite source on either ELG or SAIA properties.

Lead. Among other metals, lead had the greatest number of exceedances of RSLs in soil, with 20 exceedances of the residential RSL and 10 exceedances of both the industrial and residential RSLs reported from the 242 analytical soil sampling results. The highest analytical result for lead in soil was for sample SAIA-SB/SG26 at 2.0 feet bgs, at 2,620J mg/kg. All the lead analyses that exceeded residential or industrial RSLs were collected by the field team from the upper four feet of soil sampled (mostly from 0.5 or 2 feet bgs). At these borings with lead RSL exceedances, analytical concentrations of lead declined abruptly with depth in soil samples collected from below 2 feet bgs. The shallow distribution of lead exceedances in soil is most consistent with a source from atmospheric deposition of lead due to settling out of the combustion products of leaded gasoline, which was very commonly used in the U.S. from about 1926 through the 1970s. The elevated lead concentrations are likely to have settled on surface soils before the SAIA and ELG properties were paved in about 1950. The fairly broad occurrence of lead in the upper 2 feet of the soil is common in high-traffic areas, and the lack of penetration of lead to greater depths indicates very little mobility of this metal.

Other Metals. The other metals exceeding RSLs in soil analytical samples generally followed the distribution of lead exceedances in terms of location and depth, although with a much lower frequency of RSL exceedances than for lead, as follows (note that **Figure 4-1** shows analytical exceedances of industrial RSLs only, while the bullets below also list exceedances of residential RSLs):

- Antimony analytical soil results exceeded the residential RSL in two samples, with the maximum result of 64.1 mg/kg in SAIA-SG/SB26 at a depth of 2 feet bgs.
- Cobalt analytical soil results exceeded the residential RSL in five samples, with the maximum analytical concentration of 197J mg/kg in SAIA-SB/SG29 at the depth of 0.5

feet bgs. The other four exceedances for cobalt ranged from 24.3 to 25.2 mg/kg, only slightly greater than the residential RSL of 23 mg/kg.

- Copper analytical soil results exceeded the residential RSL in one sample, at 4,350 mg/kg in sample SAIA-SB/SG19 at 0.5 feet bgs.
- Iron analytical results exceeded the residential RSL in three samples, at shallow depths down to 2 feet bgs, with concentrations ranging up to 206,000 mg/kg at SAIA-SB/SG37 at a depth of 0.5 feet bgs.
- Manganese analytical soil results exceeded the residential RSL in two soil boring locations, at shallow depths, with concentrations ranging up to 5,260 mg/kg at SAIA-SB/SG37 at a depth of 2 feet bgs.
- Thallium analytical results exceeded the residential RSL in three soil samples and exceeded the industrial RSL in two samples. The industrial RSL exceedances were at analytical concentrations of 26.2 mg/kg in sample SAIA-SB/SG34 at 35 feet, and 12.1 mg/kg in sample SAIA-SB/SG25 at 2 feet.

The only metals with exceedances of industrial RSLs were lead, thallium, and arsenic. As discussed above, the lead exceedances are common for near-surface soils in urban areas, and likely originated by deposition of lead as a combustion product of leaded gasoline, before the sites were paved. Thallium and arsenic exceedances of industrial RSLs were single isolated occurrences that do not indicate any pattern of continuity, mobility or penetration in the soil; they most likely reflect background conditions.

4.1.3.4 PCBs

In RI soil samples, the analytical laboratory reported detections of PCBs in 15 samples from soil boring locations. While 12 of these exceedances were from shallow depths of 0.5 to 5 feet bgs, two were from 15 feet bgs and one was from 35 feet bgs. **Table 4-2** lists the analytical results for detected PCBs in all RI soil samples, and **Figure 4-1** displays the extent of PCB contamination above industrial RSLs. Laboratory analyses detected PCB contamination in samples collected from three general locations within the SAIA property (north of a former oil recovery building, the former sumps in the former degreasing room, and a former shed area; see **Figure 1-3**). There were ten analytical results for Aroclor 1248 that exceeded either residential or industrial RSLs, five analytical results that exceeded the residential RSL only for Aroclor 1254, and five analytical results that exceeded both residential and industrial RSLs for Aroclor 1260. Analyses indicated Aroclor 1248 at analytical concentrations ranging from 9.8 ug/kg

(SAIA-SB/SG12, at 5 feet bgs) to 24,000 ug/kg (SAIA-SB/SG08, 0.5 feet bgs). Analyses detected Aroclor 1254 at analytical concentrations ranging from 3.7 ug/kg (SAIA-SB/SG06, 5 feet bgs) to 320 ug/kg (SAIA-SB/SG01, 0.5 ft bgs). Analyses indicated Aroclor 1260 at analytical concentrations ranging from 390 ug/kg (SAIA-SB/SG29, 35 feet bgs) to 7,300J ug/kg (SAIA-SB/SG26, 0.5 ft bgs).

4.1.4 Extent of Soil Contamination On and Off the SAIA Property

Analytical results for soil samples collected during the RI indicated concentrations of contaminants above the industrial RSLs mainly in samples collected from the eastern portion of the SAIA property, as shown by the locations of the industrial RSL exceedances on **Figure 4-1**. The soil contamination is associated primarily with past industrial operations at the SAIA property (**Section 1.1.4**; see also ITSI, 2010).

VOCs: Laboratory analyses detected TCE-impacted soil samples, some with concentrations exceeding RSLs, in samples collected beneath the area of the former degreasing building, where three sumps existed (see **Figure 1-3**). Analyses detected TCE and other chlorinated and petroleum-associated VOCs at most sampling depths from near-surface (0.5 feet bgs) to 35 feet bgs from the three borings beneath this building (SAIA-SB/SG08, -SB/SG09, and -SB/SG10) and from one nearby boring (SAIA-SB/SG06). The 0.5 and 25-foot analytical samples from SAIA-SB/SG09 greatly exceeded the industrial RSL for TCE. Thus, chlorinated VOCs in soil (and in soil gas; see soil gas discussion in **Section 4.1.5** and **Section 4.1.6**) beneath the former degreasing building appear to be the primary sources of chlorinated VOC contamination of groundwater, resulting in a contaminant plume at least 2,800 feet long (as discussed in **Section 4.3.4**). Furthermore, the field team collected the highest TCE analytical groundwater sampling result for the RI from nearby monitoring well SAIA-MW1A (about 50 feet to the southeast and approximately downgradient of SAIA-SB/SG09) (see also **Section 4.3.4.2**). While PCE did not exceed an RSL in soil analytical samples, it was detected in most of the same samples that had TCE detections (but at much lower concentrations), thus accounting for the PCE analytical detections in many soil gas samples (**Section 4.1.5**).

SVOCs and PCBs: Laboratory analyses did not indicate SVOCs in soils at concentrations above industrial RSLs; thus SVOCs are not discussed further.

PCB contamination is present in three small areas within the SAIA property (**Figure 4-1**): adjacent to the former oil recovery building, at the former degreasing room, and near the former shed (near the southeastern corner of the property). PCB contamination in soil appears to be isolated and not migrating extensively, as analyses did not detect PCBs in samples collected from the step-out sampling locations; also, nearly all exceedances were in the upper 15 feet of soils, likely indicating limited vertical migration.

Metals: Most detections of arsenic and cobalt in soil analyses appear to be due to background conditions, with the exceptions being one off-site sample with arsenic above background near the southeastern corner of the ELG Metals property (at SAIA-SB/SG37) and one sample near the northern SAIA property boundary (cobalt above background at SAIA-SB/SG29; but this result exceeded the residential RSL only, and thus does not appear on **Figure 4-1**). The two thallium exceedances are at widely separated locations at 2 and 35 feet, and are not associated with other contaminants. By a factor greater than two, the highest analytical result for thallium was from 35 feet. These facts are consistent with the idea that the thallium soil exceedances of industrial RSLs may be due to natural background conditions.

Lead was the compound that most frequently exceeded RSLs, and laboratory analyses reported lead concentrations above the industrial RSL in 10 samples (from seven locations) within the upper 2 feet bgs in two areas beneath the former Seam Master Industries building, and along parts of the northern and eastern perimeters of the SAIA property. Copper contamination is present at shallow depths (to 2 feet bgs) near the northeastern perimeter of the SAIA property (SAIA-SB/SG19). Metal contamination off-property occurs in the southeastern corner of the ELG Metals facility, with significant concentrations of antimony, arsenic, iron, manganese, and lead from near-surface to 2 feet bgs (SAIA-SB/SG37). These shallow occurrences of metal contamination are relatively common for metals, based on their generally low aqueous solubilities. However, while many of these metal analytical results are likely site-related, the only site-related results that exceeded the applicable industrial RSLs were lead (seven sample locations), thallium (two locations), and arsenic (one location) (see **Figure 4-1**). As discussed in **Section 4.1.3.3**, these exceedances are all limited in extent and do not indicate significant mobility. For lead, the RSL exceedances are all limited to shallow soils and probably originated

from atmospheric deposition of the combustion products of leaded gas. The arsenic and thallium RSL exceedances are isolated, single occurrences; thus they do not indicate significant mobility in the subsurface, and are more likely than not to originate through natural background conditions rather than from operations on either the SAIA or ELG properties.

4.1.5 Soil-Gas Data

The most frequently-detected and highest-concentration VOCs reported in soil-gas sample analyses collected from locations on the SAIA property were 1,1-DCA, *cis*-DCE, PCE, TCE, and VC. **Table 4-3** presents a listing of the detected analytical results for VOCs and 1,4-D (laboratories report 1,4-D in the VOC scan for air samples). **Figure 4-2** displays TCE analytical results in soil-gas samples, and highlights those results that exceeded RSLs. On-property soil-gas boring locations were SAIA-SB/SG01 through -SB/SG14 and -SB/SG19 through -SB/SG35, representing 138 samples. The following compounds exceeded RSLs in soil-gas analytical samples:

- 1,1-DCA exceeded either residential or industrial RSLs in 17 of the 31 on-property soil-gas boring locations at various depths, with analytical concentrations ranging up to 650,000 micrograms per cubic meter (ug/m^3) in SAIA-SB/SG10 at 25 feet bgs.
- 1,1-DCE exceeded either residential or industrial RSLs in five of the 31 on-property borings at various depths, with analytical concentrations ranging up to 140,000 ug/m^3 in SAIA-SB/SG09 at 25 feet bgs.
- Benzene exceeded either residential or industrial RSLs in 25 of the 31 on-property borings at various depths, with analytical concentrations up to 910 ug/m^3 in SAIA-SB/SG20 at 15 feet bgs.
- *cis*-DCE exceeded either residential or industrial RSLs in 23 of the 31 on-property borings at various depths, with analytical concentrations ranging up to 23,000,000 ug/m^3 in SAIA-SB/SG20 at 25 feet bgs.
- Ethylbenzene exceeded either residential or industrial RSLs in seven of the 31 on-property borings at various depths, with analytical concentrations up to 580 ug/m^3 in SAIA-SB/SG09 at 35 feet bgs.
- PCE exceeded either residential or industrial RSLs in 27 of the 31 on-property borings at various depths, with analytical concentrations ranging up to 53,000 ug/m^3 in SAIA-SB/SG27 at 5 feet bgs.
- *trans*-DCE exceeded either residential or industrial RSLs in nine of the 31 on-property borings at various depths, with analytical concentrations up to 93,000 ug/m^3 in SAIA-SB/SG20 at 35 feet bgs.

- TCE exceeded either residential or industrial RSLs in 30 of the 31 on-property borings at various depths, with analytical concentrations ranging up to 7,800,000 ug/m^3 in SAIA-SB/SG03 at 35 feet bgs.
- Vinyl chloride exceeded either residential or industrial RSLs in 21 of the 31 on-property borings at various depths, with analytical concentrations ranging up to 6,100,000 ug/m^3 in SAIA-SB/SB10 at 25 feet bgs).
- The following other compounds exceeded either residential or industrial RSLs at one or more depths in fewer than five of the 31 on-property borings: 1,1,1-trichloroethane (1,1,1-TCA); 1,1,2-TCA; 1,2-DCA; 1,2,4-trimethylbenzene; 1,3,5-trimethylbenzene; 1,4-dichlorobenzene; 1,4-D; m,p-xylenes; naphthalene; and o-xylene.

The field team installed the sixteen off-property soil-gas borings (SAIA-SB/SG15 through -SB/SG18, and -SB/SG36 through -SB/SG47) at locations upgradient, cross-gradient, and downgradient of the SAIA property (**Figure 4-2**). The following compounds exceeded RSLs in soil-gas analytical samples:

- 1,1-DCA exceeded either residential or industrial RSLs in four of the 16 off-property soil-gas boring locations at 35 feet bgs only, with analytical concentrations ranging up to 45,000 ug/m³ in SAIA-SB/SG38 at 35 feet bgs.
- Benzene exceeded either residential or industrial RSLs in 14 of the 16 off-property borings at various depths, with analytical concentrations ranging up to 230 ug/m³ in SAIA-SB/SG38 at 35 feet bgs.
- Chloroform exceeded either residential or industrial RSLs in five of the 16 off-property borings at various depths, with analytical concentrations ranging up to 44 ug/m³ in SAIA-SB/SG38 at 35 feet bgs.
- *cis*-DCE exceeded either residential or industrial RSLs in eight of the 16 off-property borings at various depths, with analytical concentrations ranging up to 1,100,000 ug/m³ in SAIA-SB/SG38 at 35 feet bgs.
- PCE exceeded either residential or industrial RSLs in 10 of the 16 off-property borings at various depths, with analytical concentrations ranging up to 3,100 ug/m³ in SAIA-SB/SG38 at 35 feet bgs.
- TCE exceeded either residential or industrial RSLs in all 16 off-property borings, with analytical concentrations ranging up to 940,000 ug/m³ in SAIA-SB/SG38 at 35 feet bgs.
- Vinyl chloride exceeded either residential or industrial RSLs in seven of the 16 off-property borings at various depths, with analytical concentrations ranging up to 52,000 ug/m³ at SAIA-SB/SG38 at 35 feet bgs.
- The only other VOC with analytical concentrations reported at above an RSL was 1,2-DCA in a single off-property sample, at 65 ug/m³ in SAIA-SB/SG38 at 35 feet bgs.

4.1.6 Extent of Soil Gas Contamination

On-Property Extent

Of all VOCs (including 1,4-D, an SVOC that the analytical laboratory can prepare for analysis as a VOC), laboratory analyses most frequently reported TCE at analytical soil-gas concentrations greater than RSLs (at 46 of the 47 borings). Thus, it is a good indicator for the extent of VOCs at concentrations greater than RSLs. **Figure 4-2** displays TCE concentrations for all depths at the locations where the field team collected analytical samples. The highest concentrations of VOCs, principally TCE and *cis*-DCE, were present in the northeastern portion of the SAIA property, in the area directly beneath and near the former degreasing building (**Figure 1-3**). This area contained high analytical VOC concentrations from both shallow (e.g., 5 feet bgs) and deeper sampling intervals of the soil-gas borings, at SAIA-SB/SG03, -08, -09, -10, -19, and -20) (**Figure 4-2**). VOC concentrations were typically lower in the western and southern portions of the SAIA property, especially at shallow depths. However, even away from the northeastern corner of the property, areas within or immediately adjacent to the footprint of the former main building on the SAIA property had significant VOC analytical concentrations above industrial RSLs. The property owner demolished all buildings and other structures associated with the former manufacturing operations at the SAIA property in late 2013 and early 2014, and the property is currently vacant and used for truck parking. Therefore, with no on-property structures except for a small security guard station, there is not a current potential for vapor intrusion at the SAIA property.

Reported analytical soil-gas sample concentrations varied somewhat with depth, and were generally higher at greater depths (25 feet and 35 feet bgs). The VOC analytical results from the shallower depths (5 feet and 15 feet bgs) were relatively lower, with most of the analytes below their respective RSLs (see TCE soil-gas analytical results according to depth in **Figure 4-2**). The exception is that PCE and TCE analyses exceeded residential or industrial RSLs in more than half of the soil-gas samples collected at 5 feet bgs.

Figure 4-3 displays contoured analytical results for soil-gas samples collected from 5 feet bgs for both on-property and off-property soil-gas borings. This figure displays how the elevated analytical concentrations of TCE in soil gas are located primarily in the eastern part of the SAIA

property. For this set of samples from 5 feet bgs, laboratory analyses reported the highest TCE analytical concentration, 5,800,000 ug/m^3, for the sample from SAIA-SB/SG09; this boring is located directly below where the former degreasing building was located along the east side of the larger building. The area surrounding this location is the primary locus of the highest TCE analytical concentrations (e.g., above 1,000 ug/m^3), as is evident from **Figure 4-3**. These elevated TCE results are reflected in samples from greater depth (**Figure 4-2** and **Table 4-3**); the highest analytical results for 1,1-DCA, *cis*-DCE, and vinyl chloride (the other compounds with especially high VOC soil-gas concentrations relative to RSLs) reach their peaks in this same area beneath or near the former degreasing building. Taken together, this evidence appears to indicate that the area constitutes a VOC contaminant source to groundwater. The fact that SAIA-SB/SG08 and -09 are the only borings where soil analytical results exceeded RSLs for VOCs (*cis*-DCE and TCE; see **Section 4.1.3.1**) supports this conclusion. Furthermore, laboratory analyses reported the highest TCE concentration in groundwater in samples from monitoring well SAIA-MW1A located about 50 feet downgradient from the former degreasing building (see **Section 4.3.4**).

Off-Property Extent

For the off-property areas, the field team collected soil gas samples from five borings advanced on the ELG Metals property north of the SAIA property (SAIA-SB/SG18, and -36 through -39); from four borings advanced on the Bell Foundry property east of SAIA (SAIA-SB/SG44 through -47); and from seven borings advanced in the city right-of-way on properties south of Southern Avenue (SAIA-SB/SG15 through -17 and -40 through -43).

In soil-gas sample analyses from the ELG Metals property, all five borings had RSL exceedances at one or more depths. At the 5-foot bgs depth, these analytical samples showed relatively low concentrations. However, just off the ELG property and a few feet south of the large ELG Metals building, laboratory analyses from SAIA-SB/SG29 reported TCE at 5,700 ug/m^3, significantly greater than the industrial RSL. While this location is on SAIA property, it is less than 10 feet from the ELG building. The main ELG building should thus be assessed with indoor-air sampling. By far the highest soil-gas concentrations on ELG property were from the deep (35-foot bgs) sample from SAIA-SB/SG38, where eight VOCs had analytical

concentrations exceeding the industrial RSL; peak concentrations were for cis-DCE and TCE, both near 1,000,000 ug/m^3 at this depth. These analytical results at SAIA-SB/SG38 are similar to those from the deep (25 and 35-foot) soil-gas samples at borings located to the southeast (SAIA-SB/SG03, -24, and -26), toward the VOC source area centered below the former degreasing building. Thus, it appears fairly likely that the high soil-gas analytical results at off-property location SAIA-SB/SG38 are continuous with the soil-gas plume that exists in the 25-to-35-foot bgs range between SAIA-SB/SG38 and the VOC contaminant source below the former degreasing building. This deep contamination is also indicative of a contaminant source that has probably migrated laterally at depth, close to the saturated or perhaps capillary zone.

At locations south of the SAIA property, the field team collected soil gas samples along the alley between Southern and McCallum avenues, McCallum Avenue, and Duncan Way. Four borings (SAIA-SB/SG15 through -17, and -40) yielded PCE and/or TCE analytical concentrations exceeding residential and industrial RSLs at all sampling depths, with a peak concentration of 6,800 ug/m^3 for TCE at SAIA-SB/SG17 at 35 feet bgs (**Table 4-3**). Soil-gas analytical concentrations were considerably lower in the other three of the four southernmost borings along McCallum Avenue and Duncan Way (SAIA-SB/SG41 through -43): benzene, PCE, or TCE exceeded a residential RSL at one or more depths per boring, but analytical concentrations of each compound were less than 100 ug/m^3 in each sample. EPA used the soil-gas analytical results from this area to determine locations of residences where EPA would conduct indoor-air sampling, to evaluate the threat of vapor intrusion into structures. **Section 4.2** discusses indoor air sampling results.

Laboratory analyses also detected TCE and *cis*-DCE at concentrations above residential or industrial RSLs in off-site soil gas borings advanced east and northeast of the SAIA property (SAIA-SB/SG44 through -47). However, these and other VOCs were detected at analytical concentrations one to two orders of magnitude higher in the soil gas samples collected within the SAIA property boundary (to the west, at SAIA-SB/SG19, -20, and -21). Thus, the source of these off-site soil gas exceedances is likely to be within the SAIA property.

4.2 VAPOR INTRUSION

This section presents the analytical results from the three rounds of soil gas sampling and the two rounds of residential air sampling that the field team completed to evaluate the potential vapor intrusion (VI) contaminant migration pathway. **Section 2.2** and **Section 2.3** present details of the field activities completed for the soil gas investigation and indoor air sampling.

4.2.1 Air Screening Levels

The screening levels used to evaluate indoor air quality are based primarily on DTSC and USEPA risk-based screening concentrations (DTSC, 2018 and USEPA, 2018b). The VI COPCs are those VOCs for which risk values are promulgated and based on a conservative risk level for residential (indoor) air (i.e., total hazard quotient of 1.0). Soil gas can enter enclosed structures and create an exposure hazard to humans who work or live in those structures. However, structures have floors and/or foundations that cause attenuation of vapors migrating from the subsurface into the structure. As a result, while health-based RSLs exist for indoor air in structures used for residential and industrial purposes, EPA applies an attenuation factor to soil gas samples before applying the RSL. Based on their compilation of empirical attenuation factors for chlorinated VOCs at 913 buildings, EPA (2015) recommended use of an attenuation factor of 0.03 for determining vapor intrusion screening levels for near-source exterior soil gas (outside a building's footprint) and sub-slab soil gas. The RI applies the attenuation factor as follows:

$$\text{Soil-vapor Screening Level} = \text{Indoor Air RSL} / 0.03$$

This results in screening levels for soil vapor that are about 30 times greater than those used for indoor air. **Table 4-3** presents the resulting RSLs modified for soil-vapor assessment.

4.2.2 Outdoor Air Conditions

The RI team evaluated outdoor air through the collection of outdoor air samples, concurrently with the crawlspace and indoor air sampling. The field team conducted air sampling in accordance with EPA's vapor intrusion guidance (EPA, 2015b) and the VI SAP (Gilbane, 2015a).

The RI field team collected two outdoor air samples during each event, from the front or back yards of residential buildings nearest to the soil gas locations on McCallum Avenue that contained moderate levels of VOCs (**Figure 4-4**). The field team collected these outdoor air samples to establish the outdoor air quality in the surrounding neighborhood during the indoor air sampling events.

Laboratory analyses detected low levels of 1,2-DCA, PCE, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, ethylbenzene, toluene, and xylene in the outdoor air analytical samples as presented in **Table 4-4**. However, benzene was the only compound for which outdoor air analyses exceeded the residential RSL (0.36 ug/m^3). The presence of benzene in outdoor air is consistent with the range of the ambient levels in the community, as measured by EPA and historically by the South Coast Air Quality Management District in North Long Beach (EPA, 2010). Elevated benzene levels are a common occurrence in neighborhoods near major freeways (the 710 freeway is located about 1,700 feet to the east of SAIA).

4.2.3 Vapor Intrusion Evaluation

EPA used the soil gas sample analytical data collected during the 2013 and 2014 investigations to identify the residential buildings to be sampled for indoor air, as specified in the VI SAP (Gilbane, 2015a). EPA had also identified industrial buildings for indoor-air sampling in the Supplemental VI SAP [Gilbane, 2017], but access approval issues prevented collection of these samples. The COPCs EPA selected for analysis in the indoor-air sampling events were PCE, TCE, their primary breakdown products, and petroleum-associated compounds. EPA's goal for this sampling event was to determine if vapor intrusion poses a potential exposure pathway to humans in the residential structures downgradient of the SAIA property. Indoor air typically contains detectable levels of VOCs that are not attributable to vapor intrusion from VOC contamination of vadose zone soil and/or shallow groundwater. The sources of these indoor air VOCs are both outdoor air and indoor sources (chemical products present within the building). VOCs attributable to outdoor air are present in indoor air due to exchanges with outdoor air that occur dozens of times a day, depending upon the building's use and ventilation system (EPA, 2011). **Section 4.2.2** lists the VOCs present in the aforementioned outdoor air analyses.

Indoor sources that may emit VOCs include consumer products (e.g., cleaners, solvents, strippers, polish, adhesives, water repellants, lubricants, air fresheners, aerosols, mothballs, scented candles, insect repellants, plastic products, etc.); building materials (e.g., carpet, insulation, paint, wood-finishing products); fuels; dry-cleaned clothing or draperies; municipal tap water; or occupant activities (e.g., craft hobbies). The types and concentrations of VOCs in background indoor air typically differ between residential and commercial buildings. In addition, VOC concentrations in background indoor air can vary with meteorological events (e.g., the passage of low- and high-pressure systems), as well as over longer times, such as with the seasons.

Based on 15 indoor air studies conducted between 1990 and 2005, EPA (2011) found that the VOCs most commonly present in background indoor air (including outdoor air as a contributing source) include benzene, toluene, ethylbenzene, xylene, trichloromethane (TCM), carbon tetrachloride (CCl_4), PCE, TCE, and 1,1,1-trichloroethane. In contrast, the studies rarely detected VC, 1,1-DCE, *cis*-DCE, and 1,1-DCA in background indoor air. The table below lists the 95th-percentile ranges for VOCs most commonly present in background indoor air.

Chemicals	Background Indoor Air Concentration Range (ug/m^3) [2]
Benzene	9.9 – 29
Toluene	79 – 144
Ethylbenzene	12 – 17
Xylenes	21 – 63.5
Carbon tetrachloride	Less than Reporting Limit of 1.1
Tetrachloroethene (PCE)	4.1 – 9.5
Trichloromethane[1]	4.1 – 7.5
1,1,1-Trichloroethane	3.4 – 28

[1] Commonly used chemical name is chloroform
[2] Source: US EPA, 2011.
ug/m^3 = micrograms per cubic meter

4.2.3.1 Residential Air Sampling Results

The field team sampled indoor air during two sampling events (April 2015 and January 2016) at eight residential buildings located downgradient of the SAIA property, where the nearby soil gas sampling results had suggested the possible presence of VOCs beneath the buildings. In addition to collecting indoor air samples at each of these locations, the field team collected crawlspace air

samples (from beneath the residence) at several locations, to evaluate potential pathways from soil vapor to indoor air. **Table 4-4** presents a summary of the detected analytical results for outdoor, crawlspace, and indoor air samples. **Appendix E** provides full analytical data tables and laboratory reports.

Table 4-4 identifies all indoor-air contaminants detected above reporting limits. Analytical results for those contaminants with crawlspace or indoor air concentrations above the applicable SLs are in bold type and the cells are highlighted. **Figure 4-3** summarizes the analytical results of indoor air and crawlspace sampling in buildings and nearby soil gas locations. The following paragraphs discuss analytical results for individual buildings.

Building #1

For each of the 2015 and 2016 sampling events, the field team collected a crawlspace sample (RES 01-CS) and an indoor air sample (RES 01-IA); the field team collected an outdoor air sample (RES 01-OA) at this building during the 2016 sampling event only. **Figure 4-4** depicts the sample locations; the larger context of these samples relative to the SAIA property is shown on **Figure 4-3**. Laboratory analyses detected PCE in the indoor air sample for both sampling events, with the maximum analyzed concentration of 1.4 ug/m^3 (in April 2015) exceeding the residential RSL of 0.46 ug/m^3. Laboratory analyses detected 1,2-DCA in the indoor air sample at a concentration (0.19 ug/m^3) that exceeded the residential RSL in the 2015 event, but not in 2016. Laboratory analyses detected benzene in all analytical samples (crawlspace, indoor, and outdoor) at concentrations that exceeded the residential RSL in both sampling events, with the highest concentration of 1.6 ug/m^3 in both 2016 outdoor air samples (RES 01-OA outside this building, and RES 06-OA at a building less than 200 feet away).

The PCE analytical concentrations detected in the indoor air samples were significantly greater than those reported for the outdoor air samples, suggesting that a VI pathway may exist. However, the lack of a significant detection in the crawlspace samples from this location are not consistent with a vapor-intrusion origin for PCE at this location. Comparing this detection to the four nearby soil gas analytical results for PCE at 5 feet bgs, PCE was significantly above the soil gas RSL at SAIA-SB/SG15, -17, and -40 (up to 750 ug/m^3), but was not detected at SAIA-

SB/SG41, as depicted in **Figure 4-4**. Therefore, the evidence from sampling is slightly ambiguous, but it appears most likely that the PCE analytical concentrations above the RSL in both indoor air samples from this building may have originated from sources that may exist inside the building; while less likely, contributions from a groundwater source are still possible.

1,2-DCA analytical concentrations were lower in the crawlspace and outdoor samples than in the indoor air sample. The 2016 analytical indoor sample also showed a 1,2-DCA detection at slightly below the SL, while the crawlspace and outdoor air analytical samples were non-detect. Laboratory analyses did not detect 1,2-DCA in soil gas samples from any depth at surrounding locations SAIA-SB/SG15, -17, -40 and -41. Therefore, the field team attributes the 1,2-DCA concentration to an existing indoor source. Benzene analytical concentrations exceeded the SL in all samples, with the highest of 1.6 ug/m^3 from the primary outdoor sample, indicating that the benzene source is likely associated with outdoor air in the neighborhood.

Building #2

The field team collected a crawlspace sample (RES 02-CS) and an indoor air sample (RES 02-IA) in the areas listed in **Table 4-4** and depicted on **Figure 4-4** for the 2015 and 2016 sampling events. In both sample locations from this building (crawlspace and indoor samples), laboratory analyses detected only benzene at analytical concentrations exceeding the SL in both sampling events, with the highest concentration of 1.5J ug/m^3 reported for the indoor sample. As discussed above for Building #1, laboratory analyses detected benzene concentrations in the outdoor air samples at similar levels, indicating that benzene levels indoors are likely associated with the outdoor levels typical of the neighborhood. Therefore, a VI pathway does not appear to exist at this property.

Building #3

The field team collected samples from three apartment units within the Building #3 complex at McCallum Avenue in 2015 and 2016. The team collected one indoor-air sample from each of the apartments at Unit A (RES 03-IA), Unit B (RES 04-IA), and Unit D (RES 05-IA) in the areas listed in **Table 4-4** and depicted on **Figure 4-4**. Benzene concentrations exceeded the SL in all indoor air samples collected from these apartment units. Laboratory analyses detected benzene

in all air samples (indoor and outdoor; note that the single outdoor sample in this area [RES-07-OA] was collected next-door at Building #5) at concentrations that exceeded the SL in both events (2015 and 2016), with the highest concentration of 2.7J ug/m^3 detected in the indoor air sample (RES 05-IA) from Unit D. Laboratory analyses detected 1,2-DCA in the indoor air sample from Unit D at concentrations above the SL, at 0.27 ug/m^3 and 0.43J ug/m^3 in the 2015 and 2016 events, respectively. Laboratory analyses detected two other VOCs above screening levels: ethylbenzene at 2.4 ug/m^3, and naphthalene at 0.24J ug/m^3 both collected from Unit B (RES 04-IA).

Benzene analytical values at this building were similar to benzene ranges reported for outdoor levels for the neighborhood for both sampling events (RES 01-OA, RES 06-OA, and RES 07-OA; **Table 4-4**). 1,2-DCA analytical concentrations above the SL detected at unit D appear to be associated with existing indoor sources, as all the surrounding soil gas samples (SAIA-SB/SG17, -41, -42, and -43; see **Figure 4-4** for locations) had non-detect analytical results for 1,2-DCA. Similarly, the analytical levels above the SLs for ethylbenzene at 2.4 ug/m^3 and naphthalene at 0.24J ug/m^3, for the indoor air sample collected in Unit B in 2016, are not consistent with non-detect results for the same analytes in the same four nearby soil gas sampling locations (SAIA-SB/SG17, -41, -42, and -43). Thus, the RI team attributes the above detections of these analytes to an outdoor source (for benzene) and to an indoor source (for ethylbenzene and naphthalene). Based on the discussion above, a VI pathway does not exist for the units sampled at this address.

Building #4

The RI field team collected an indoor air sample (RES 06-IA) and an outdoor air sample (RES 06-OA) in the areas listed in **Table 4-4** and depicted on **Figure 4-4** in each of the 2015 and 2016 sampling events. Laboratory analyses detected 1,2-DCA in the indoor duplicate sample at a concentration of 0.17 ug/m^3, exceeding the SL, in the 2016 event only. Laboratory analyses detected benzene in all samples (indoor and outdoor) at concentrations that exceeded the SL in both sampling events (2015 and 2016), with the highest concentration of 1.6 ug/m^3 reported for both the indoor and outdoor samples, indicating that the levels are likely associated with outdoor air in the neighborhood.

Similar to findings at other properties, 1,2-DCA analytical concentrations above the SL at this address appear to be associated with indoor sources, as 1,2-DCA was not detected in soil gas samples from any depth at the surrounding soil gas sampling locations (SAIA-SB/SG15, -16, -17, or -41), consistent with an existing indoor source for this compound. Based on the discussion above, a VI pathway does not exist in this residence.

Building #5

The RI field team collected indoor air samples (RES 07-IA) in 2015 and 2016, and collected one outdoor sample (RES 07-OA) in 2015 only, in the areas listed in **Table 4-4** and depicted on **Figure 4-4**. Laboratory analyses detected 1,2-DCA and ethylbenzene at 0.36 ug/m^3 and 1.3 ug/m^3, respectively, above the SLs, in the indoor sample for the 2016 event only. Laboratory analyses detected benzene in all samples (indoor and outdoor) at concentrations that exceeded the SL in both sampling events (2015 and 2016), with the highest concentration of 1.7 ug/m^3 reported for the indoor sample collected in 2016.

1,2-DCA and ethylbenzene analytical concentrations above the SL appear to be associated with indoor sources, as the nearest soil gas samples (from SAIA-SB/SG17) and the other surrounding analytical results (from SAIA-SB/SG41, -42, and -43) for 1,2-DCA and ethylbenzene were below the laboratory reporting limits for all depths. Benzene analytical concentrations exceeded the SL in all samples, with the highest value of 1.7 ug/m^3 from the indoor sample in 2016. Benzene analytical concentrations at this building are consistent with the outdoor sample concentrations reported for the same event, and are also consistent with the other 2016 results from adjacent Buildings #3 and #6 (which also peaked in 2016). These results indicate that the concentrations are likely associated with the outdoor air in the neighborhood. Based on the discussion above, a VI pathway does not appear to exist at this residence.

Building #6

The RI field team collected a crawlspace sample (RES 08-CS) and an indoor air sample (RES 08-IA) in the 2015 and 2016 sampling events, in the areas listed in **Table 4-4** and depicted on **Figure 4-4**. Benzene was the only compound detected in analytical samples at concentrations exceeding the SL; it exceeded the SL in both crawlspace and indoor samples in both sampling

events (2015 and 2016), with the highest concentration of 1.5 ug/m^3 in the 2016 indoor sample. Benzene analytical concentrations in indoor air are consistent with the outdoor air sample levels reported for the same event, indicating that the indoor levels likely originated from outdoor air in the neighborhood. Therefore, a VI pathway does not appear to exist at this residence.

4.3 GROUNDWATER

The EPA's RI team evaluated the nature and extent of groundwater contamination described in this report based on the data they collected from four groundwater investigation and monitoring events completed since March 2014. The compiled groundwater data consists of discrete-depth (Hydropunch) samples collected from CPT borings advanced for the RI, and samples collected from permanent wells installed to monitor groundwater conditions at the Site. The monitoring well network includes new RI wells installed on the SAIA property and off-property, and a number of existing wells installed by EPA as part of the Cooper Drum RI/FS which are located cross-gradient and partially downgradient of the SAIA property. The Cooper Drum monitoring well network extends southward to Duncan Avenue, mainly west of Adella Avenue. However, based on their locations on or close to the SAIA property, the RI field team sampled several Cooper Drum monitoring wells concurrently with the RI groundwater sampling efforts for SAIA; these wells include Cooper Drum wells on the western portion of the SAIA property (MW41 and MW42-44) and at downgradient locations (MW34-35, MW45, MW46-48) east of Adella Avenue. The CPT borings and the network of monitoring wells selected for RI groundwater monitoring for SAIA are shown on **Figure 1-4**, along with other monitoring wells in the area.

4.3.1 Groundwater Screening Levels

Groundwater SLs are a basis for evaluating analytical concentrations of contaminants in groundwater. This RI compares analytical concentrations of VOCs detected above laboratory reporting limits to the corresponding California State Water Resources Control Board maximum contaminant levels (MCLs; January 2018), many of which are the same as Federal MCLs. Where EPA has not promulgated MCLs, the RI compared analytical concentrations to U.S. EPA Region 9 Tapwater Screening Levels, DTSC-modified RSLs, or California Department of Public Health Notification Levels (NLs; 2018). These SLs are specified in the notes at the bottom of the tables that list the groundwater sample analytical results.

4.3.2 Groundwater Movement in Gaspur and Exposition Aquifers

The RI team assessed groundwater potentiometric surface elevations, based on groundwater elevations measured in July 2016, and calculated an average horizontal hydraulic gradient of 0.0015 ft/ft within the Gaspur Aquifer, with a predominant southerly flow direction (see **Section 3.3**).

Figure 3-7, **Figure 3-8**, and **Figure 3-9** present the July 2016 groundwater potentiometric contours for the shallow, intermediate, and lower Gaspur Aquifers, respectively. We also show groundwater elevations for the Exposition Aquifer on **Figure 3-10**, but these elevations do not show a consistent flow pattern or direction; therefore, contours are not drawn for this unit. The water levels measured during the March 2014, August 2014, and September 2016 sampling events are consistent with those shown on **Figure 3-7** through **Figure 3-10**; the hydraulic gradients and flow directions for these three events are consequently also similar to those for the July 2016 event. Wells SAIA-MW11C and SAIA-MW12C, shown on both **Figure 3-9** and **Figure 3-10**, are completed at slightly greater depths (5 to 10 feet deeper) than most wells completed in the lower Gaspur Aquifer, and are more representative of the depths of the transition from the Gaspur to the Exposition Aquifer.

As we presented in **Section 3.3.3** and **Table 3-1**, the RI team used the differences in groundwater elevation at locations with multiple completion monitoring wells (wells in close proximity and with screen intervals at different depths) to evaluate the vertical hydraulic gradients between the Gaspur zones (wells with A, B, and C suffixes), and between the Gaspur Aquifer and the Exposition Aquifer. The predominant pattern is downward flow gradients within the Gaspur Aquifer, and downward gradients between the lower Gaspur and the Exposition.

4.3.3 Nature of Groundwater Contamination in Gaspur and Exposition Aquifers

The RI team characterized the hydrogeologic and groundwater quality conditions at the Site using an extensive network of monitoring wells, and discrete-depth samples from CPT borings. In addition to the 31 SAIA monitoring wells at 13 locations, the network of monitoring wells includes 13 other monitoring wells, installed under investigations conducted for the nearby Cooper Drum Superfund Site but located within or near the SAIA groundwater contaminant plume (see **Table 4-5**). EPA delineated the nature and extent of groundwater contaminant

plumes based on the locations of analytical concentrations exceeding regulatory criteria such as MCLs, as well as fundamental groundwater hydraulics and solute-transport principles.

COPCs that the RI team identified as impacting Site groundwater quality are primarily the chlorinated VOCs TCE and *cis*-DCE and, to a lesser extent, a variety of other VOCs, along with the SVOC 1,4-D. As specified in the SAP (ITSI Gilbane, 2012), the laboratory analyzed groundwater samples for several other analytical groups (e.g., metals and PCBs) due to their possible presence resulting from historical facility operations, and analyzed general chemistry parameters to provide information useful in evaluating impacts to groundwater. For individual VOCs, SVOCs, metals, PCBs, and general chemistry parameters with any detections in groundwater, **Table 4-5** and **Table 4-6** present analytical sample results from all samples collected for monitoring wells and CPT investigations, respectively. These tables also list MCLs and other SLs, and denote exceedances with highlighted values (based on exceedances of MCLs, or on exceedances of other SLs where MCLs do not exist). The following subsections (**Section 4.3.3.1** through **Section 4.3.3.6**) discuss the analytical groundwater results from monitoring wells, while **Section 4.3.3.7** discusses the analytical results from discrete-depth groundwater samples collected from CPT borings.

4.3.3.1 Volatile Organic Compounds (VOCs) in Monitoring Wells

This section discusses VOC contaminants detected in samples at concentrations above screening levels in analytical groundwater samples collected from the RI monitoring network. As discussed above, the RI data includes four groundwater sampling events conducted since 2014. However, as the most complete monitoring event, performed in July 2016, includes the newer monitoring wells installed in 2016, the discussion of VOC data is based on data collected in July 2016. **Section 4.3.4.4** also discusses any notable variations in concentrations of compounds reported from the four groundwater sampling analytical events; however, these variations were relatively minor. For the discussion below, note that some contamination in the lower units (lower Gaspur and Exposition Aquifers) originated from the Jervis Webb plume (Gilbane, 2018), thus accounting for the fact that contours are open to the north (upgradient) on some of the plume (isoconcentration) maps. This topic is discussed in greater detail in the section on the

extent of groundwater contamination (**Section 4.3.4** and subheadings therein). The plume maps depict only the July 2016 event, the only complete sampling event.

Tetrachloroethene (PCE)

Laboratory analyses did not detect PCE in any groundwater samples collected from monitoring wells in July 2016 (and detected PCE in only one well from any other event, at below the 0.5 ug/L reporting limit). However, analyses did detect PCE very frequently in soil gas, and in several soil samples. Thus, its presence in soil and soil gas media on and near the SAIA property and its lack of mobility into groundwater appear to be a disparity. This contrast may reflect a combination of its low aqueous solubility, its high propensity for sorption to soil, as well as its relative ease of biodegradation by dechlorination under reducing conditions; these are all factors that reduce a contaminant's tendency to migrate in groundwater, as discussed in **Section 5.0**.

Trichloroethene (TCE)

Laboratory analyses detected TCE in 40 out of the 49 groundwater samples from the July 2016 monitoring event, with detected concentrations ranging from 0.57 to 3,500 ug/L. Laboratory analyses reported TCE exceeding the MCL of 5 ug/L in 14 groundwater samples from monitoring wells, with the highest concentration of 3,500 ug/L at well SAIA-MW3B, an off-site well installed in the intermediate Gaspur Aquifer and located approximately 500 feet south of the contaminant source area on the SAIA property. TCE exceedances were present in analytical samples from all three groundwater zones of the Gaspur Aquifer, as shown on the plume maps for the shallow, intermediate, and lower zones of this aquifer (**Figure 4-5** through **Figure 4-7**, respectively; note that, in addition to groundwater analytical samples from monitoring wells, the figures include the analytical results from discrete-depth groundwater samples collected from CPT borings (**Section 4.3.3.7**). TCE also slightly exceeded the MCL at a few wells in the Exposition Aquifer, as shown on **Figure 4-8**.

***cis*-1,2-Dichloroethene (*cis*-DCE)**

Of the COPCs in groundwater samples, *cis*-DCE had the highest reported analytical concentrations. In addition, the *cis*-DCE plume has the largest areal extent (as defined by concentrations exceeding its California MCL of 6 ug/L). Laboratory analyses detected *cis*-DCE in 47 out of 49 groundwater samples collected in the July 2016 event, with reported

concentrations ranging from 0.16J to 4,600 ug/L. Thirty-seven groundwater samples had *cis*-DCE concentrations above the California MCL. Samples from all three zones of the Gaspur Aquifer had *cis*-DCE analytical concentrations above the California MCL, with the most elevated concentrations present in groundwater monitored by the intermediate-zone wells. **Figure 4-9** through **Figure 4-11** show the spatial extent of *cis*-DCE contamination in groundwater of the shallow, intermediate, and lower zones of Gaspur Aquifer, respectively, and **Figure 4-12** shows *cis*-DCE contamination in the Exposition Aquifer.

trans-1,2-Dichloroethene (_trans_-DCE)

Laboratory analyses detected *trans*-DCE in 40 of the 49 groundwater samples collected for the July 2016 monitoring event, with concentrations ranging from 0.13J to 340 ug/L. Laboratory analyses detected the maximum concentration in a sample from the intermediate Gaspur groundwater well SAIA-MW3B, which also contained the peak analytical concentrations of TCE and *cis*-DCE. Twenty groundwater samples had *trans*-DCE concentrations that exceeded the California MCL of 10 ug/L. Analytical concentrations of *trans*-DCE are much lower than those of *cis*-DCE, and the *trans*-DCE plume has a smaller areal footprint.

1,1-Dichloroethene (1,1-DCE)

Laboratory analyses detected 1,1-DCE in 11 of the 49 groundwater samples collected in July 2016, with detected concentrations ranging from 0.66 to 6.4 ug/L. The maximum analytical concentration of 6.4 ug/L was the only exceedance of the SL (the California MCL), and was detected in shallow Gaspur well SAIA-MW2A, located on the SAIA property.

Vinyl Chloride (VC)

Laboratory analyses detected VC in eight of the 49 groundwater samples collected for the July 2016 event, with all eight detections exceeding the California MCL of 0.5 ug/L. Vinyl chloride analytical detections ranged from 0.81 to 45 ug/L. Groundwater in the lower zone of the Gaspur Aquifer monitored by well SAIA-MW4C, located approximately 800 feet downgradient of the source area, had the highest VC analytical result, at 45 ug/L. Laboratory analyses reported VC in exceedance of the California MCL in samples primarily from the intermediate and lower zones of the Gaspur Aquifer.

1,1 -Dichloroethane (1,1-DCA)

Laboratory analyses detected 1,1-DCA in 17 of the 49 groundwater samples collected in July 2016, with reported concentrations ranging from 0.45J to 23J ug/L. The highest analytical result was detected in groundwater from well SAIA-MW3B, located 300 feet downgradient of the SAIA property. Groundwater analyses for nine monitoring wells (four shallow, four intermediate, and one lower Gaspur Aquifer wells) had 1,1-DCA analytical concentrations above the California MCL of 5 ug/L.

1,2-Dichloroethane (1,2-DCA)

Laboratory analyses detected 1,2-DCA in 18 of the 49 groundwater sample analyses collected for the July 2016 monitoring event, with reported concentrations ranging from 0.31J to 44 ug/L. The maximum analytical result for 1,2-DCA was reported in the groundwater sample collected from deep-zone Gaspur Aquifer well SAIA-MW1C, located in the contaminant source area on the SAIA property. Groundwater from five intermediate and seven lower Gaspur Aquifer wells, and three Exposition Aquifer zone wells, had analytical results for 1,2-DCA above the California MCL of 0.5 ug/L.

Benzene

Laboratory analyses detected benzene in four of the 49 groundwater sample analyses, with two reported concentrations exceeding the California MCL of 1 ug/L. Benzene slightly exceeded the California MCL in two Gaspur Aquifer lower-zone wells, with the maximum concentration of 3.2 ug/L in the SAIA property well SAIA-MW1C.

4.3.3.2 Semivolatile Organic Compounds (SVOCs) in Monitoring Wells

1,4-Dioxane (1,4-D)

Laboratory analyses detected 1,4-D in 26 out of 49 groundwater samples in July 2016, with reported concentrations ranging from 0.72 to 62J ug/L (the peak concentration overall was 110J ug/L in the March 2014 event; see **Table 4-5**). Twenty-four of the 26 analytical detections exceeded the SL for 1,4-D (the California NL of 1 ug/L): six in the shallow zone of the Gaspur Aquifer, seven in the intermediate zone, and ten in the lower zone. One well in the Exposition Aquifer had 1,4-D analytical concentrations that exceeded the NL. The highest analytical results for 1,4-D were reported from the intermediate Gaspur Aquifer, with the peak value of 62J ug/L

at SAIA-MW4B. **Figure 4-13** through **Figure 4-16** depict the 1,4-D exceedances in analytical groundwater samples on the plume maps for the shallow, intermediate, and lower zones of the Gaspur Aquifer and for the Exposition Aquifer, respectively.

No other SVOCs had analytical results exceeding their respective laboratory reporting limits, except for samples from MW-43 (bis[2-ethylhexyl]phthalate), MW-52 (bis[2-ethylhexyl]phthalate), and SAIA-MW1C (carbazole). However, these analytical results did not exceed the respective SLs. **Table 4-5** presents the analytical results for all SVOC compounds detected in groundwater samples from one or more monitoring wells.

4.3.3.3 Metals in Monitoring Wells

Table 4-5 presents a listing of analytical results for samples with detections of metals. The laboratory conducted metals analysis only in groundwater samples collected in the March 2014 sampling event; thus, the list of exceedances of SLs reflects only this groundwater sampling event for the Site. Laboratory analysis reported aluminum at analytical concentrations exceeding the MCL (California) of 1,000 ug/L in six of the 36 samples collected from monitoring wells in March 2014. However, the occurrences of aluminum exceeding the MCL were, with one exception (MW43 in the intermediate Gaspur Aquifer), limited to the shallow intervals of the Gaspur Aquifer. Thus, it is quite unlikely that aluminum originating from the SAIA property migrates deep enough to impact the Exposition Aquifer or the deeper water-supply aquifers in the area.

Laboratory analyses reported arsenic at concentrations exceeding the MCL in 26 of the 36 samples collected for the same event. Manganese and cobalt were reported at analytical concentrations exceeding the tapwater SL in 36 and 18 of the 36 monitoring well samples collected for the same event, respectively. However, neither manganese nor cobalt have primary MCLs, and SLs are not enforceable criteria. The similarity of the broad distribution of arsenic and manganese SL exceedances reported for groundwater and soil suggests that these metals may be naturally occurring in the Gaspur Aquifer, particularly considering the reducing conditions in the aquifer in both impacted and unimpacted areas (see **Section 5.0**). Arsenic and manganese were reported from every soil sample at about 2-15 mg/kg (arsenic) and 300-700 mg/kg (manganese), without discernible peaks in concentration at SAIA. (These metals are

always present in natural soils.) Additionally, analytical concentrations of arsenic and manganese were consistent with groundwater data collected from nearby sites (e.g., the Cooper Drum Superfund Site; URS, 2002). As to other metals in groundwater, laboratory analyses reported lead and nickel at concentrations exceeding MCLs from one shallow Gaspur Aquifer well each.

SL exceedances for metals in groundwater thus appear to be either local (aluminum, lead, and nickel) or related to the reducing geochemical conditions and common to groundwater conditions of the surrounding area (arsenic, manganese). Thus, the metal SL exceedances do not indicate significant groundwater impacts of metals attributable to the SAIA property.

4.3.3.4 PCBs in Monitoring Wells

Laboratory analyses did not detect PCBs above their respective laboratory reporting limits in any of the 13 groundwater samples analyzed for these compounds for the March 2014 event, the only event in which PCBs were analyzed.

4.3.3.5 Perchlorate in Monitoring Wells

Laboratory analyses did not detect perchlorate above the laboratory reporting limit in any of the 11 groundwater samples analyzed for this component in the March 2014 event, the only event for which perchlorate was analyzed.

4.3.3.6 General Chemistry in Monitoring Wells

General chemistry parameters (e.g. alkalinity, chloride, sulfate, total dissolved solids, total organic carbon) were reported for nearly all the analytical samples collected for the March 2014 event, the only event for which these parameters were analyzed. Sulfate exceeded its secondary (non-enforceable) MCL of 250 mg/L in more than 85% of the samples. Elevated sulfate levels are typical of the aquifers of the area, and were found in many wells reported for the Cooper Drum RI (URS, 2002). **Table 4-5** presents a listing of compounds detected in samples analyzed for general chemistry parameters.

4.3.3.7 VOCs and SVOCs Exceeding Screening Levels in Discrete-Depth Groundwater Samples

EPA analyzed discrete-depth groundwater samples from CPT borings for VOCs and the SVOC 1,4-D. **Table 4-6** presents the analytical results for all detected analytes in discrete-depth samples, and **Appendix E** presents the results for all analytes in discrete-depth samples (whether detected or not). These samples provide analytical results that complement the monitoring well analytical results, as the field team advanced CPT borings across a wider cross-gradient (east-west) extent than monitoring wells; thus, **Figure 4-5** through **Figure 4-16** present these discrete-depth results along with monitoring well results on the contaminant plume maps. The following contaminants exceeded SLs in one or more discrete-depth groundwater samples:

- TCE exceeded the MCL of 5 ug/L in 38 out of the 133 total discrete-depth sample analyses from CPT borings, with a peak concentration of 3,500 ug/L in the shallow Gaspur Aquifer sample analysis from SAIA-HP21, located on the SAIA property and about 100 feet downgradient from the contaminant source area.
- *cis*-DCE exceeded the California MCL of 6 ug/L in 74 out of 133 discrete-depth sample analyses, with a peak concentration of 3,900 ug/L in the intermediate Gaspur Aquifer sample analysis from SAIA-CPT06, located about 400 feet downgradient of the SAIA property along McCallum Avenue.
- *trans*-DCE exceeded the California MCL of 10 ug/L in 32 out of 133 discrete-depth sample analyses, with a peak concentration of 770 ug/L in the intermediate Gaspur Aquifer sample analysis from SAIA-CPT06, located along McCallum Avenue.
- 1,1-DCA exceeded the MCL of 5 ug/L in 9 out of 133 discrete-depth sample analyses, with a peak concentration of 22J ug/L in the intermediate Gaspur Aquifer sample analysis from on-property location SAIA-HP10, located 100 feet downgradient of the source area.
- 1,2-DCA exceeded the MCL of 0.5 ug/L in 28 out of 133 discrete-depth sample analyses, with a peak concentration of 58 ug/L in a sample analysis from the intermediate Gaspur, from on-property location SAIA-HP10.
- Benzene exceeded the MCL of 1 ug/L in one out of 133 discrete-depth sample analyses, with a concentration of 15 ug/L in the intermediate Gaspur Aquifer sample analysis from SAIA-HP10.
- PCE exceeded the MCL of 5 ug/L in two out of the 133 discrete-depth samples analyzed for this compound, with a peak concentration of 9.9 ug/L in the Exposition Aquifer sample analysis from SAIA-CPT10, located on Wood Avenue, 1,000 feet downgradient from the SAIA property. No other Exposition Aquifer sample analyses exceeded the MCL for PCE.

- 1,2,3-Trichloropropane exceeded the DTSC-modified RSL of 0.0002 ug/L in one out of the 133 discrete-depth samples analyzed for this compound, with a concentration of 0.094J ug/L in the lower Gaspur sample analysis from SAIA-CPT06.
- The SVOC 1,4-D exceeded the California NL of 1 ug/L in 37 out of the 133 discrete-depth samples analyzed for this compound, with a peak concentration of 34 ug/L in the lower Gaspur sample analysis from SAIA-CPT06.

The discussion of the extent of groundwater contamination in **Section 4.3.4** includes the analytical results from discrete-depth groundwater samples from CPT borings along with those from monitoring wells; the groundwater contaminant plume maps cited in that section also show both sets of results.

4.3.4 Extent of Groundwater Contamination

Two VOCs, specifically TCE and *cis*-DCE, and the SVOC 1,4-D, are the most widespread groundwater contaminants at the Site, having been detected above SLs in analyses of groundwater samples from monitoring wells located both on and downgradient from the SAIA property. Note also that the plume maps include several groundwater sampling locations from the ELG Metals property just upgradient from the SAIA property: on the plume contour maps these samples show VOCs and 1,4-D migrating toward the SAIA property, with the contaminants originating from the Jervis Webb property about 1,500 feet to the north; these contaminants are part of the Jervis Webb VOC plume (Gilbane, 2018). The Jervis Webb and SAIA VOC plumes appear to contact each other at depth and just south of SAIA, and appear to commingle for another several hundred feet south of the SAIA property, as discussed in **Section 4.3.5**. Contamination from monitoring wells within the Cooper Drum plume to the west (Haley and Aldrich, 2017) indicates that VOCs originating from Cooper Drum come into proximity with the SAIA plume at locations west and southwest of the SAIA property. The SAIA plume maps presented in the figures thus display results from both the Jervis Webb and Cooper Drum plumes where they approach the SAIA plume.

The plume contour maps for the shallow Gaspur Aquifer suggest that the TCE and *cis*-DCE plumes (**Figure 4-5** and **Figure 4-9**, respectively) originate from the area around the sumps of the former degreasing building on the SAIA property, where laboratory analyses reported the highest VOC concentrations from both soil and soil gas samples. Based on analyses of samples

of these three media, the area of the former sumps thus appears to be the primary contaminant source area for the Site groundwater contaminant plumes. The TCE and *cis*-DCE plumes have migrated off the SAIA property to the south, conforming with the general groundwater flow direction in the area. Along with the CPT results from 2013 and 2015, the wells installed in 2014 and 2016 characterize the areal extent of the VOC plumes. The *cis*-DCE groundwater contaminant plume, the longest contiguous plume, extends at least 2,800 feet south from its source at the SAIA property, to at least Aldrich Avenue, a short distance south of the LAUSD property.

4.3.4.1 Semi-perched Aquifer

RI groundwater sampling events showed VOC contamination above SLs in the semi-perched aquifer, at relatively low concentrations at two locations beneath the southeastern portion of the SAIA property (SAIA-HP10 and -HP21), with maximum analytical concentrations for TCE at 20 ug/L and *cis*-DCE at 11 ug/L at SAIA-HP10. In this small aquifer, only one off-site boring (SAIA-CPT05) advanced south of the SAIA property reported *cis*-DCE, at a low analytical concentration of 9.8 ug/L. At the other 14 CPT locations downgradient from the SAIA property where the field team collected a sample from the semi-perched aquifer, there were no analytical exceedances of SLs except for one to three isolated, low-level MCL exceedances each for *cis*-DCE and TCE near the SAIA property (locations SAIA-HP10, -HP21, and SAIA-CPT05; **Table 4-6**). Thus, groundwater contaminants are not present in the semi-perched aquifer more than about 200 feet south from the SAIA property boundary along Southern Avenue. The lack of contaminants beyond this location is likely due to groundwater contaminants either migrating downward into the underlying Gaspur Aquifer, or simply not migrating south at a significant rate, possibly due to low permeability or low hydraulic gradients, and likely variably saturated conditions beyond the immediate area. The perched water bearing zones are often not contiguous and are transiently (seasonally) unsaturated.

4.3.4.2 Gaspur Aquifer

VOC impacts to Site groundwater are most significant in the Gaspur Aquifer. RI groundwater sampling events showed high analytical concentrations of VOCs (above 1,000 ug/L for TCE and *cis*-DCE) at SAIA-MW1A, SAIA-MW2A, MW-42, and SAIA-CPT10 and -CPT21, which span

the eastern two-thirds of the SAIA property (see **Figure 4-5** and **Figure 4-9**). This observation is consistent with soil-gas analytical results, which showed elevated results in the same area, corresponding to the approximate footprint of the former buildings on the property (**Figure 4-2** and **Figure 4-3**). The SAIA VOC plume likely commingles with the Cooper Drum VOC plume in the southwestern portion of the SAIA property (discussed in greater depth in the section on commingling, **Section 4.3.5**). VOC groundwater contamination extends downgradient (south) from the SAIA property; however, the contaminant plumes for TCE and *cis*-DCE differ significantly.

TCE: South of the SAIA property, the TCE groundwater plume extends in the shallow Gaspur Aquifer for about 1,500 feet south of the contaminant source area (**Figure 4-5**). TCE appears to migrate downward into the intermediate Gaspur Aquifer within about 400 feet south of the source area, based on high analytical concentrations at well SAIA-MW3B and several discrete-depth (CPT) samples (**Figure 4-6**). The TCE plume in the intermediate zone appears to continue into the northern part of the LAUSD property. In the lower Gaspur Aquifer, laboratory analyses reported TCE at greater than the MCL from only one location (SAIA-CPT10, about 1,200 feet south of the SAIA source area) that appears part of contamination that originated from the SAIA source (**Figure 4-7**). At and near the SAIA property, however, the lower-Gaspur TCE contamination originated from the Jervis Webb VOC plume, as evidenced by the high TCE concentrations present upgradient (north of) the SAIA property (**Figure 4-7**). On and near SAIA, the intervening intermediate Gaspur Aquifer (B zone) has relatively low TCE concentrations (compare **Figure 4-6** and **Figure 4-7**): this intermediate interval separates the shallow-Gaspur plume (A zone) that originated from the SAIA contaminant source area, from the lower-Gaspur plume (C zone) that originated from the continuous TCE plume that extends upgradient to the Jervis Webb property about 1,500 feet north of SAIA. Like its distribution in the lower Gaspur, TCE attributable to SAIA has only negligible occurrence in the Exposition Aquifer, with scattered analytical concentrations slightly above the MCL (**Figure 4-8**). The limited distribution of TCE in the two lower intervals may indicate a slower contaminant velocity for TCE than for *cis*-DCE in the groundwater system downgradient from the SAIA property. This phenomenon is likely due in part to degradation by reductive dechlorination of TCE to produce *cis*-DCE, which has a much more extensive plume than TCE (see discussion

under *cis*-DCE below). Degradation of TCE tends to retard its migration progress in groundwater, much like sorption does (see **Section 5.3**). The degradation concept is also documented for the plumes originating at the nearby Jervis Webb (Gilbane, 2018) and Cooper Drum (URS, 2002) properties, and is supported by geochemical data indicating a chemically-reducing environment that is conducive to reductive dechlorination (**Section 5.3**).

A significant aspect of TCE and other groundwater contaminants at the site is that there are other contaminant plumes near SAIA that originate from sources separate from the SAIA property. The TCE plume maps depict these other plumes with orange contours. Specifically, **Figure 4-5** shows a separate area of shallow-Gaspur TCE contamination in the area labeled the Atlantic Avenue Plume (Weston, 2012), with high concentrations at well MW-56. There are two smaller shallow-Gaspur plumes centered on the western and eastern parts of the LAUSD property. In the intermediate Gaspur Aquifer, only one small TCE plume is apparent on the LAUSD property (**Figure 4-6**), while in the lower Gaspur, small TCE plumes are visible downgradient from the Cooper Drum property (at MW62B) and downgradient from the LAUSD property (at SAIA-MW11C; **Figure 4-7**). All these plumes are separate from the TCE contaminant plume that originates at SAIA, based on intervening wells with low to non-detect analytical results for TCE.

Finally, there are several areas of TCE contamination that are not separate from the SAIA TCE plume and may commingle with it: (1) low concentrations of TCE in the intermediate Gaspur near the southwestern corner of the SAIA property appear to emanate from the Cooper Drum VOC plume to the northwest (**Figure 4-6**), and (2) higher concentrations of TCE in the intermediate and lower Gaspur intervals, located at the ELG Metals property upgradient (north) from the SAIA property, likely originate from the Jervis Webb property about 1,600 feet north of SAIA (see **Figure 4-6** and **Figure 4-7**). **Section 4.3.5** discusses the topic of commingling.

cis-DCE: The distribution of *cis*-DCE in Gaspur Aquifer groundwater at levels of concern (above MCLs) is more complex and much more widespread than that of TCE. Directly south of the SAIA property, a contiguous plume of *cis*-DCE extends in the shallow Gaspur Aquifer for about 1,250 feet south of Southern Avenue (**Figure 4-9**), similar to the extent of the TCE plume. However, *cis*-DCE has migrated deeper and at higher analytical concentrations than TCE, as is

evident in the comparison of the contours and concentrations in the intermediate Gaspur Aquifer for TCE (**Figure 4-6** and **Figure 4-7**) with those for *cis*-DCE (**Figure 4-10** and **Figure 4-11**). The contiguous *cis*-DCE plume in the intermediate Gaspur extends about 2,500 feet south of Southern Avenue, to approximately the southern boundary of the LAUSD property (**Figure 4-10**). In the lower Gaspur interval, *cis*-DCE concentrations were somewhat lower than in the intermediate interval, ranging up to 870 ug/L at SAIA-MW4C; however, the lower-Gaspur plume extends somewhat farther downgradient than in the intermediate interval, to include well SAIA-MW12C (**Figure 4-11**). The *cis*-DCE plume extends even farther south and to greater depth into the Exposition Aquifer, as discussed under the next heading.

The much greater downgradient extent of the *cis*-DCE plumes attributable to the SAIA source area compared to the TCE plumes are likely due in part to the fact that *cis*-DCE is a daughter product of the reductive dechlorination of TCE. *cis*-DCE has greater solubility than TCE, and is less prone to sorption, as discussed in **Section 5.3** and **Section 5.4**.

As with TCE, there are other *cis*-DCE plumes near SAIA that originate from sources separate from the SAIA property. The *cis*-DCE plume maps depict these other plumes with yellow-green contours. On **Figure 4-9**, there are five areas of *cis*-DCE above the MCL that represent groundwater contamination in the shallow Gaspur that is largely separate from the larger *cis*-DCE plume directly south of the SAIA property: a small plume west of the SAIA property, located downgradient from (and attributable to) the Cooper Drum property; a larger area with high concentrations centered on well MW-56 (the Atlantic Avenue Plume); and three small plumes centered on the parts of the LAUSD property. In the intermediate Gaspur Aquifer, there are two such areas of cis-DCE that are only partly separate from the SAIA plume (**Figure 4-10**): (1) the cis-DCE occurrences at and west of wells MW-31 and MW-39, downgradient from the Cooper Drum property and likely attributable to that facility; and (2) a small plume near the western boundary of the LAUSD property. In the lower Gaspur Aquifer, the Cooper Drum *cis*-DCE plume is somewhat more distinguishable from the SAIA *cis*-DCE plume, while a small LAUSD plume of this compound still appears to be present, but probably commingles with the SAIA plume (**Figure 4-11**). In all these cases, *cis*-DCE concentrations in the smaller plumes

(Cooper Drum, Atlantic Avenue, and LAUSD plumes) are much lower (usually by at least an order of magnitude) than in the SAIA plume.

Upgradient (north) from SAIA, *cis*-DCE at analytical concentrations above MCLs are apparent in all three intervals of the Gaspur Aquifer (**Figure 4-9** through **Figure 4-11**). These occurrences are attributable to past operations on the Jervis Webb property. In contrast to the other plumes, these *cis*-DCE occurrences originating from Jervis Webb are directly upgradient of the SAIA plume, and are best distinguished from the cis-DCE of the SAIA plume in the cross-section A-A' (see **Figure 3-2**). As discussed above under TCE, the *cis*-DCE contamination of the Jervis Webb and SAIA plumes are also separated vertically at the SAIA property, with the SAIA *cis*-DCE plume largely limited to the shallow Gaspur (e.g., SAIA-MW1A and -2A), and the Jervis Webb *cis*-DCE plume mainly in the lower Gaspur (e.g., at SAIA-MW1C). Compared to Jervis Webb, the SAIA property is the much larger source for contamination. This is based on the fact that the Jervis Webb VOC plume appears to end within about 500 feet of the southern SAIA property boundary (near McCallum Avenue; see **Figure 4-7** and **Figure 4-11**), and VOC concentrations in the SAIA VOC plume at a similar distance downgradient (i.e. 500 feet) are much higher than concentrations in the Jervis Webb plume (see this area on **Figure 4-9** through **Figure 4-11**, which label the areas attributable to the two plumes). **Section 4.3.5** further discusses commingling of the Jervis Webb and SAIA plumes.

1,4-D: The distribution of 1,4-D in groundwater at levels above its SL (the California NL of 1 ug/L) is like that of cis-DCE, with the compound present above its NL in all three intervals of the Gaspur Aquifer. All five plume groups mentioned above (SAIA, Cooper Drum, Atlantic Avenue, LAUSD, and Jervis Webb) contain 1,4-D exceedances of the NL. Analytical concentrations of 1,4-D are not nearly as high as concentrations of TCE or *cis*-DCE, but one difference is that 1,4-D is represented more prominently than TCE or *cis*-DCE in the Cooper Drum plume in terms of concentration and area within the 1 ug/L contour of the SL (**Figure 4-13** through **Figure 4-16**). While analytical concentrations of TCE and *cis*-DCE are much higher in the SAIA plume than the Cooper Drum plume, analytical concentrations of 1,4-D are approximately the same in the Cooper Drum as in the SAIA plume. **Section 4.3.5** further

discusses this contrast of the proportionally higher concentrations of 1,4-D in the Cooper Drum plume versus the SAIA plume as it relates to plume commingling.

4.3.4.3 Exposition Aquifer

VOC impacts to Site groundwater reach into the Exposition Aquifer in the following three discrete areas, and from three different sources:

- The ELG Metals and SAIA properties, where the Jervis Webb plume contains *cis*-DCE and TCE at analytical concentrations above MCLs in a limited area that appears to end near the southern boundary of the SAIA property (see **Figure 4-8** and **Figure 4-12**). As observed in the Jervis Webb RI Report (Gilbane, 2018), the main portion of the Jervis Webb plume in this area is slightly higher, in the overlying lower Gaspur Aquifer.
- Downgradient from the Cooper Drum property, centered somewhere near Cooper Drum well MW-55, where *cis*-DCE exceeds the California MCL. The size of this plume is not well defined, but it is not as large as the SAIA plume, and appears to be separate from the SAIA plume (**Figure 4-12**).
- A large *cis*-DCE plume that begins in the northern part of the LAUSD property and extends southward at least to Aldrich Avenue south of the LAUSD property. This plume is contiguous with the *cis*-DCE plume in the lower Gaspur that originates at the SAIA property; therefore, this *cis*-DCE plume in the Exposition Aquifer beneath LAUSD likely commingles with the *cis*-DCE plume which originates at the SAIA property. South of Tweedy Avenue, *cis*-DCE concentrations in the Exposition Aquifer exceed those in the lower Gaspur Aquifer (compare **Figure 4-11** with **Figure 4-12**), indicating that the center of mass of the *cis*-DCE plume has passed downward from the lower Gaspur to the Exposition.

The Exposition Aquifer is of particular interest because it immediately overlies the Gage Aquifer, a local water-supply aquifer, in which some wells are screened as shallow as 280 feet bgs; the RI wells are screened only as deep as 140 feet bgs. The first two areas of impact to the Exposition Aquifer show declining concentrations with depth (i.e., concentrations are lower in the Exposition Aquifer than in the overlying lower Gaspur), while the opposite is true for the SAIA plume (concentrations are similar or higher in the Exposition than in the overlying Gaspur). Additionally, the SAIA plume in the Exposition Aquifer is much larger and contains much higher concentrations (up to 250 ug/L at SAIA-MW13) than the other two plumes in the Exposition Aquifer (see **Figure 4-12**). Therefore, one data gap remains: the extent and depth of the downgradient VOC impacts to the Exposition Aquifer beyond well SAIA-MW13, which is at the southern end of the area investigated during the RI.

4.3.4.4 Temporal Changes in Contaminant Concentrations

For the six monitoring wells installed in the Gaspur Aquifer in 2014 (SAIA-MW1A/B/C through SAIA-MW6A/B/C), there were marked changes in concentrations from the 2014 sampling events to the July 2016 sampling event. At wells with analytical concentrations of at least 100 ug/L for either *cis*-DCE or TCE, the concentrations of *cis*-DCE generally declined between 10% and 60% from 2014 to 2016, while TCE declined between 50% and 95% (see **Table 4-5**). The greater decline in the analytical concentrations of TCE may be due to increased degrees of degradation to its daughter product, *cis*-DCE. Similar magnitudes of analytical concentration declines during this period can be observed in monitoring wells installed and sampled under the Cooper Drum investigation, including MW34, MW42, MW47, and MW56. Thus, the declining trends for this limited 2014 to 2016 time period appear to be real, and not due to some type of sampling or laboratory artifact.

In several cases, deeper monitoring wells (lower Gaspur Aquifer wells MW35 and MW46, and Exposition well SAIA-MW7) showed increases in *cis*-DCE analytical concentrations by factors of up to five during this period, while TCE concentrations remained constant or decreased. It is possible that these changes may reflect some downward migration of contaminants with time.

Despite these changes in concentrations, the extent of the area underlain by the SAIA contaminant plume changed very little (if at all) among the sampling events. Specifically, nearly every well with one or more compounds that exceeded an SL in one event also exceeded the SL for the same compounds in other events when it was sampled, except in instances when concentrations were close to SLs (see **Table 4-5**).

4.3.5 Commingling of the SAIA Groundwater Plume with Neighboring Plumes

As discussed above, the SAIA property is located near several other sites that have associated VOC groundwater contaminant plumes. The largest of these are the Jervis Webb Superfund Site and the Cooper Drum Superfund Site. Because of the proximity of these plumes, there may be some cross-gradient comingling (between Jervis Webb and Cooper Drum plumes; and between SAIA and Cooper Drum plumes) and some degree of vertical commingling down the axis of the plumes (between SAIA and Jervis Webb plumes). There are several ways of assessing whether and to what extent contaminant plumes may commingle. The RI team used recent data from all

three of these sites to evaluate commingling between the SAIA plume and other nearby contaminant plumes.

4.3.5.1 Evidence Based on Hydraulic Considerations

One method to evaluate plume commingling is to examine groundwater potentiometric contours at various times. Figures A2-1 through A2-3 in **Appendix A-2** depict groundwater elevation contours measured for the Jervis Webb RI (Gilbane, 2018) for the Gaspur Aquifer hydrologic intervals, for the time closest to when the field team measured groundwater elevations at SAIA (May-June 2017). These maps also depict groundwater elevations for Cooper Drum monitoring wells (data from Haley and Aldrich, 2017). Owing to sparse data from the Exposition Aquifer, the RI can only reliably evaluate the shallow, intermediate, and lower Gaspur Aquifer for this period. The RI team also examined historical maps of groundwater elevation contours developed for the Cooper Drum site (December 2000 and February 2007 events, reproduced in **Appendix A-3**).

Figures A2-1 through A2-3 of **Appendix A-2** indicate that groundwater passing beneath the Jervis Webb contaminant source area had gradients impelling migration to the southeast beneath the Jervis Webb property, and then more directly south beneath the ELG Metals and SAIA properties. These gradients direct groundwater flow and contaminant migration from Jervis Webb to locations a short distance east of the Cooper Drum property, at the area of JWMW-11A/B/C, and then almost directly south toward the SAIA property and its source area (near SAIA-MW1A/B/C). The slight shift in direction of hydraulic gradients, from south-southeast near the southern end of the Jervis Webb properties, to more directly south and south-southwest at locations east of the Cooper Drum site, was documented in various groundwater contour maps completed for the Cooper Drum site, such as the February 2007 event included in **Appendix A-3**. (This map shows southeasterly gradients near Cooper Drum well MW-19 in the north, and south-to-southwesterly gradients to the south of MW-19, across the remainder of the Cooper Drum monitoring network.) The net result is that contaminants present in the Jervis Webb VOC plume have tended to migrate toward the SAIA property, a fact borne out by the shape of the Jervis Webb plume and its presence at depth beneath the ELG and SAIA properties (see the

lower Gaspur and Exposition Aquifer plume maps on **Figure 4-7**, **Figure 4-8**, **Figure 4-11**, and **Figure 4-12** in this report).

Beneath the SAIA property, the Jervis Webb plume is located some 40 feet beneath the SAIA contaminant plume (Gilbane, 2018). At the SAIA property, the SAIA plume is largely restricted to the shallow Gaspur Aquifer, at SAIA-MW1A and -MW2A. At, and just west of, the SAIA property, it appears that the hydraulic gradients in 2000 and 2007 were to the south or south-southwest for the shallow Gaspur interval (**Appendix A-3**). By 2016, the south-southwesterly gradients in the same locations and aquifers had yielded to gradients oriented more directly to the south or south-southeast (**Figure 3-7**). Spatial and temporal variations in groundwater flow directions such as these have likely caused some amount of commingling of the SAIA and Jervis Webb VOC plumes with the Cooper Drum VOC plume located to their west, at least along plume margins located east of the northeast corner of the Cooper Drum property beneath Rayo Avenue.

4.3.5.2 Evidence Based on Differing VOC Concentrations

As discussed in **Section 4.3.4.2** under TCE and *cis*-DCE, the Jervis Webb and SAIA VOC plumes are separated vertically beneath the SAIA property, with the SAIA TCE and *cis*-DCE plumes largely limited to the shallow Gaspur (e.g., SAIA-MW1A and -2A), and the Jervis Webb TCE and *cis*-DCE plumes mainly limited to the lower Gaspur (e.g., at SAIA-MW1C). The Jervis Webb VOC plume ends within about 500 feet of the southern SAIA property boundary (near McCallum Avenue; see **Figure 3-2**, **Figure 4-7**, and **Figure 4-11**). An intervening low-VOC concentration interval in the intermediate Gaspur at the same locations (at SAIA-MW1B and -MW2B) serves to define the plumes from Jervis Webb (below, in the "C" wells) and SAIA (above, in the "A" wells) vertically.

In addition, where the Jervis Webb and SAIA VOC plumes coexist, the differing VOC proportions, based on the progressive degradation of TCE to *cis*-DCE by reductive dechlorination, as initially described in **Section 4.3.4.2**, distinguishes these two plumes. For these two plumes, **Figure 4-17** shows the differing ratios of analytical concentrations of *cis*-DCE, the primary TCE degradation daughter product, to TCE (the parent compound). At a given

point on the x-axis, this ratio is higher for wells in the Jervis Webb VOC plume than for wells in the SAIA VOC plume.

The reason for the differing contaminant ratios between the Jervis Webb and SAIA VOC plumes is that the Jervis Webb plume in this area is more mature, having lost most of its TCE through biodegradation to *cis*-DCE. This figure shows increasing values of this ratio in the Jervis Webb plume with distance downgradient from the Jervis Webb contaminant source area. When the Jervis Webb plume arrives at depth beneath the SAIA site, this ratio has increased from <1 at and near the Jervis Webb source area, to >50 at wells SAIA-MW01C and SAIA-MW02C, screened at depth beneath the SAIA property but still within the Jervis Webb plume. In contrast, the shallow wells at the SAIA site are relatively immature and un-degraded, based on much lower *cis*-DCE/TCE ratios of 0.3 to 15 for wells at and near the SAIA source area (wells SAIA-MW1A and -MW2A). Similar to the Jervis Webb plume, the *cis*-DCE/TCE degradation ratios for the SAIA plume increase in the downgradient direction, to values generally > 100, as illustrated on **Figure 4-17**.

Figure 3-2 is a longitudinal cross-section beginning just north of the SAIA property. This cross-section follows the approximate center-line of the downgradient portion of the Jervis Webb plume starting on the ELG Metals property and continuing downgradient (south) along the approximately center-line of the SAIA VOC contaminant plume, to the southern extent of the SAIA monitoring network (**Figure 3-3**). As noted above, these two plumes appear to be separated vertically beneath the SAIA site, based on relatively low analytical concentrations in the intermediate-depth wells SAIA-MW1B and SAIA-MW2B on the SAIA property.

Downgradient from the SAIA property, however, there does not appear to be much vertical separation, if any, between the Jervis Webb and SAIA plumes, as there are no examples of well clusters containing low-concentration VOC intervals located between the two plumes (**Figure 3-2**); nor can we distinguish the two plumes chemically, because from this point and downgradient to the south, the *cis*-DCE/TCE ratio is similar for both plumes. Instead, beginning about 250 feet south of Southern Avenue, the SAIA and Jervis VOC plumes appear to at least be in contact with each other, and may have commingled to some extent. In this commingled area, the relative contribution of VOCs from the Jervis Webb VOC plume is significantly less than VOCs from

the SAIA plume, based on relative concentrations of the two plumes: peak analytical concentrations of total VOCs in the Jervis Webb plume near McCallum Avenue are about 100 ug/L, while in the SAIA plume total VOCs are about 10,000 ug/L. Thus, it appears that the Jervis Webb and SAIA plumes may be slightly commingled, because the leading edge of the Jervis Webb plume is at much lower concentrations relative to that of SAIA by the time that it contacts the SAIA plume.

4.3.5.3 Evidence Based on Contrasting VOC Fingerprints

While *cis*-DCE-to-TCE ratios distinguish the Jervis Webb and SAIA VOC plumes (**Section 4.3.5.2**), the Cooper Drum VOC plume has irregular patterns of this ratio, with no apparent trends correlating with distance downgradient from the Cooper Drum VOC source area. There are other ways to distinguish the Cooper Drum plume from the other two plumes. While the primary COPCs in the groundwater contaminant plumes from all three sites are identical (TCE and *cis*-DCE), the relative proportions of several other contaminants differ among the plumes. The compounds 1,1-DCA, 1,1-DCE, and 1,4-D appear to be present at higher concentrations in the Cooper Drum VOC plume than in the other two plumes. These three compounds are most commonly associated with TCA rather than TCE or PCE. 1,1-DCA and 1,1-DCE form readily as byproducts of biotic and abiotic degradation of TCA, respectively (**Section 5.3.2.3**), while industrial facilities widely used 1,4-D in the 1980s as a stabilizer and metal corrosion inhibitor for TCA during its storage and transport in aluminum containers (Mohr et al., 2010; Wikipedia, 2018). While groundwater analyses for each of the three sites did not detect TCA, analyses did detect it in many soil-gas samples from the Jervis Webb, Cooper Drum, and SAIA sites, and in some soil sample analyses from only the Cooper Drum site. Owing to high degradation/hydrolysis rates, the presence of its common daughter products 1,1-DCA and 1,1-DCE indicate that TCA was probably present at higher concentrations in the past at each site. Most significantly, in soil sample analyses for the 1996 pre-RI investigation at Cooper Drum, Bechtel (1997) reported TCA at up to 13.4 mg/kg in 11% of the soil samples analyzed for TCA and total TCA (the sum of 1,1,1-TCA and 1,1,2-TCA); TCA was the third-most-frequently detected chlorinated compound in soil samples (**Appendix A-3** presents the summary table from Bechtel [1997]). These detections of TCA in soil sample analyses for the Cooper Drum site

distinguish it from the Jervis Webb and SAIA sites, where analyses did not detect TCA in soil samples.

Considering the various organic contaminants at the SAIA, Jervis Webb, and Cooper Drum sites, EPA groups the contaminants into those associated with the chlorinated ethenes PCE and TCE (a group that includes *cis*-DCE and *trans*-DCE), and those generally associated with the chlorinated ethane TCA (a group that includes 1,1-DCA, 1,1-DCE, and 1,4-D). For the higher-concentration wells in each plume, using groundwater analytical data, the RI team calculated ratios of the concentrations (by mass) in each sample, of:

- 1,4-D to the sum (*cis*-DCE + TCE), and
- the sum (1,1-DCA + 1,1-DCE) to the sum (*cis*-DCE + TCE).

These ratios, in effect, give a measure of the proportion of TCA-associated compounds (1,1-DCA, 1,1-DCE, and 1,4-D) to TCE-associated compounds (cis-DCE and TCE). To compare the most representative samples from each site, the RI team calculated ratios only for wells where the sums of the *cis*-DCE and TCE analyses were at least 50 ug/L. For the date range, the RI team used groundwater analytical samples from monitoring wells collected primarily in the June through December 2016 period, which were available from all three sites; the RI team also used data from May 2017 for two Jervis Webb wells that the field team did not sample in 2016. To the set of data for the SAIA Site used in this comparison, the RI team added the most-recent (2013) discrete-depth groundwater analytical samples from CPT locations advanced for the SAIA RI. The ratios calculated using the 2013 SAIA discrete-depth groundwater analyses appear to be consistent with the ratios based on the 2016 monitoring well sampling events for SAIA.

Figure 4-18 provides a graph of the two ratios listed above, color-coded according to location within the Cooper Drum, SAIA, or Jervis Webb plume. In addition, the RI team plot these ratios for one groundwater analytical sample from each of two minor contaminant plumes (the Atlantic Avenue plume and the LAUSD plume) in or near downgradient portions of the SAIA plume; these samples met the >50 ug/L concentration criterion noted above. This figure shows a significant separation in the regions of the graph occupied by the Cooper Drum plume groundwater samples compared to the other sites. Analytical samples from the Cooper Drum

plume plot in the upper right portion of the graph, while the great majority of analytical samples from the Jervis Webb and SAIA plumes plot to the left of and below the Cooper Drum plume samples. This indicates that the Cooper Drum analytical samples have consistently higher proportions of 1,4-D, 1,1-DCA, and 1,1-DCE relative to *cis*-DCE and TCE, which are the main contaminants of each plume. Using ratios is a key step, because the magnitudes of 1,4-D, 1,1-DCA, and 1,1-DCE concentrations are similar in each plume; the contrast between samples from the respective plumes is brought out by normalizing concentrations of these less-abundant compounds to the more-abundant *cis*-DCE and TCE. As noted above, 1,1-DCA, 1,1-DCE and 1,4-D are most commonly associated with TCA, which was reported in soil sample analyses from the Cooper Drum site but not from the other two sites.

The spread of data on **Figure 4-18** is fairly compact, and there appears to be a correlation between the two ratios in the plot. These points support the idea that there is a systematic difference between the Cooper Drum VOC plume and the Jervis Webb and SAIA VOC plumes (as well as a difference with the two smaller plumes). This graph supports the existence of a consistent and distinctive fingerprint for the Cooper Drum plume that the RI uses as a line of evidence to distinguish it from the Jervis Webb and SAIA plumes based on the contrasting VOC compositions of the plumes.

A more specific way to evaluate whether and where the plumes have commingled is to examine the ratios in groundwater analytical samples for specific wells located along transects that extend from one plume to another; transect lines are shown in **Figure 4-19**. **Figure 4-20** and **Figure 4-21** are transects of analytical data and ratios of groundwater from wells and CPT discrete-depth samples collected from the Cooper Drum plume in the west and proceeding east to the Jervis Webb and/or SAIA plume(s). The x-axis in these plots represents distance, and the y-axis represents two different measures. The right-hand (secondary y-axis) scale represents the two ratios listed above. Red represents the 1,4-D / (*cis*-TCE + TCE) ratio, and blue represents the (1,1-DCA + 1,1-DCE) / (*cis*-DCE + TCE) ratio. Green represents the analytical concentrations of *cis*-DCE, the most abundant VOC contaminant in all three plumes on the left-hand y-axis scale.

In general, the Cooper Drum samples that appear on the left side of these graphs have ratios that are notably higher than ratios in either the Jervis Webb or SAIA plumes, for all four transects. Along Transect B-B' (**Figure 4-20**), however, wells MW31B (Cooper Drum plume) and MW35 (Jervis Webb plume) have ratios that are somewhat close to each other, possibly indicating that they may be transitional in their compositions due to commingling along the interface between these two plumes. The Cooper Drum Cooperating Parties Group installed monitoring well MW35 for the Cooper Drum site investigation, but the well is more directly downgradient of Jervis Webb and the SAIA operations area; the Cooper Drum Cooperating Parties Group installed the well to evaluate the eastern boundary of the Cooper Drum VOC plume in the area.

The concentrations of *cis*-DCE provide a third method to distinguish the Cooper Drum VOC plume from the Jervis and SAIA VOC plumes. In all four transects, the Jervis Webb and/or SAIA plumes, on the right side of each transect, have much higher concentrations of *cis*-DCE than the Cooper Drum plume, in the range of an order of magnitude higher. This pattern corroborates the idea that these plumes differ significantly. As a result, it appears that there is some, albeit limited, commingling between the Cooper Drum VOC plume and the other two plumes, based on a data resolution/limitation of roughly 200-foot scale of the spacing between the wells typical of the Cooper Drum plume and those typical of the Jervis Webb and SAIA plumes.

Figure 4-22 shows the approximate plume boundaries based on the VOC fingerprint (ratios) and *cis*-DCE concentration patterns discussed above, along with considerations of hydraulic gradients. There are several lines of evidence that corroborate this evaluation:

- East of the Cooper Drum site, groundwater sampling analytical results indicate that contaminant concentrations are often somewhat lower in the areas between the Cooper Drum plume and the other two plumes. For example, Cooper Drum monitoring wells MW17, MW19, and MW23, located between the Jervis Webb and Cooper Drum plumes, have had relatively low analytical concentrations (< 50 ug/L TCE + *cis*-DCE) since at least 2011 (**Appendix A-4**). These results suggest evidence of minimal commingling in a narrow zone, where the plume boundaries overlap. However, the plumes still have distinctive characteristics distinguishing them.
- Though there are no non-detect wells between the SAIA and Cooper Drum plumes, data from the contaminant plume area that encompass the boundary between these plumes south of Southern Avenue indicate that concentrations tend to change abruptly along this

boundary, resulting in the plumes having separate lobes of contamination definable by differing concentrations of *cis*-DCE and 1,4-D. *cis*-DCE, in particular, is at much higher concentrations in SAIA plume wells located downgradient (south) of SAIA operations, along and east of a line from MW34 to MW50, than it is in wells just to the west within the Cooper Drum plume, such as along and west of the line from MW31 to MW54 (see **Figure 4-9** through **Figure 4-11**).

- Previous work for the Cooper Drum site shows a prior evaluation of commingling of VOC plumes resulting in a distribution of the contaminant plumes for the Cooper Drum, Jervis Webb, and SAIA sites (Figure 22 of ITSI [2010], provided in **Appendix A-5**) nearly identical to the areas we present in this report.

In much of the area south of Southern Avenue, the Cooper Drum VOC plume is either close to or in contact with the SAIA VOC plume, consistent with the somewhat variable hydraulic gradient directions in the Gaspur Aquifer in this area through the years (see **Section 4.3.5.1**). Based on the limited resolution afforded by the spacing between monitoring wells on the various sites, this investigation cannot be precise in assessing whether, and how much, commingling may have occurred on a scale less than about 200 feet. However, based on the evidence discussed above of contrasting fingerprints (e.g., 1,4-D / (*cis*-TCE + TCE) ratios) and differing contaminant concentration patterns (cis-DCE concentrations in the Cooper Drum compared to the SAIA plume), the zone of commingling is probably limited to an interface zone with a width of 200 feet or less. This zone of commingling does not affect a large proportion of any of the three plumes, because the transects presented on **Figure 4-19** and **Figure 4-20** show that the Cooper Drum VOC plume maintains its character in having distinctive contaminant concentrations and ratios that contrast markedly with those of the Jervis Webb and SAIA VOC plumes.

In the case of the Jervis Webb and SAIA VOC plumes, these plumes are much more similar to each other based on the parameters presented in the transects, and differ slightly in their daughter-to-parent ratios (*cis*-DCE to TCE), and in the Jervis Webb plume being located below the SAIA plume, with a low-concentration zone locally present between the two plumes (at wells SAIA-MW1B and SAIA-MW2B). These differences fade within approximately 500 feet south of Southern Avenue, likely due to a combination of a continuing decline in contaminant concentrations in the Jervis Webb plume, and commingling of the two plumes: in this area the Jervis Webb plume, limited to the lower Gaspur and Exposition Aquifers, has declined to concentrations below 100 ug/L for *cis*-DCE, while the SAIA plume in the same area contains

peak concentrations of *cis*-DCE of at least 4,500 ug/L (at intermediate Gaspur well SAIA-MW3B; **Table 4-5**); there is no low-concentration gap between the two plumes as there is on the SAIA property, at SAIA-MW1B and SAIA-MW2B (see the longitudinal hydrogeologic section of **Figure 3-2**). It appears that the two plumes effectively merge around 500 feet south of Southern Avenue, and the higher contaminant concentrations of the SAIA plume dominate the plume's composition from there downgradient and southward.

5.0 CONTAMINANT FATE AND TRANSPORT

EPA's characterization of Site soil, soil vapor, groundwater, and indoor air (**Section 4.0**) established the nature and extent of contamination at the SAIA Site. **Section 5.0** presents a description of the fate and transport of COPCs based on the nature and extent of contamination in the soil, soil gas, and groundwater media at the Site.

EPA analyzes contaminant fate and transport to identify potential routes and relative rates of contaminant migration or degradation in Site-specific environments. Various factors influence the fate and transport of chemical compounds released into the environment, including the chemical and physical properties of the contaminants, contaminant persistence in the environmental media, soil and groundwater characteristics, contaminant release mechanisms, and other Site-specific conditions. Evaluation of the mobility and persistence of contaminants, and of their potential to impact Site media depend on knowledge of physical, chemical, and biological properties of the contaminants, and the specific subsurface soil and groundwater environment of the Site.

VOC and 1,4-D contamination impacted the subsurface at the SAIA Site. The RI characterized groundwater from the Gaspur Aquifer near and downgradient of the SAIA property, and characterized the Exposition Aquifer in these areas to depths of about 140 feet. The RI did not delineate the lower limit of groundwater contamination in the Exposition Aquifer. The screen intervals of water-supply production wells in the area begin at or below 280 feet bgs, which is still some distance below the currently known depth of Site-derived contamination. The production wells have total depths up to at least 1,200 feet, and draw groundwater from the Gage Aquifer, the deepest aquifer of the Lakewood Formation, and from aquifers of the deeper San Pedro Formation. The Lynwood and Silverado Aquifers of the San Pedro Formation are the primary aquifers used for municipal, domestic, industrial, and commercial purposes near the Site.

VOCs are also present in the soil gas medium. However, based on the two events in which EPA sampled indoor air, the RI identified no COPCs as indoor air constituents that may have

originated from SAIA. The several compounds exceeding RSLs in indoor air sample analyses were likely due to outdoor air levels and materials stored inside the Site structures.

5.1 CHEMICAL RELEASES TO THE ENVIRONMENT AT THE SITE

The primary contaminant sources at the Site are industrial operations conducted at the former manufacturing facility on the SAIA property. A degreasing building that would have employed solvents and three associated sumps appear to be the sources of chlorinated solvents present as VOC contamination in shallow soils, with associated contaminants present in the source area down to at least the capillary zone just above the water table (**Section 4.1** and **Section 4.2**).

Groundwater plumes emanating from the former facility apparently resulted from the releases directly beneath the known VOC source area along the eastern side of the former main building on the SAIA property. Contamination by chlorinated VOCs remains within the source area, primarily as:

- Soil gas contamination as indicated in analytical samples across a wide area beneath the degreasing building and beneath most of the main building, extending to depths of at least 35 feet bgs;
- Locally high concentrations of soil contamination in one boring to 35 feet bgs as indicated in sample analyses; and
- High concentrations of *cis*-DCE and TCE as indicated in groundwater sample analyses at and near the source area.

Based on analytical sampling results, **Figure 4-1** displays the extent of impacted soil at the Site, **Figure 4-2** and **Figure 4-3** display impacted soil gas at the Site, and **Figure 4-5** through **Figure 4-16** display impacted groundwater. **Section 4.1.4**, **Section 4.1.6**, and **Section 4.3.4** describe the extent of contamination of these media.

Local concentrations of the SVOC 1,4-D are associated with the VOC concentrations in analyses of groundwater samples at and downgradient from the VOC source area. Other SVOCs have very limited distributions in site media, and EPA does not consider them to be COPCs. Except for lead in several shallow soil sample analyses, metals appear to be present in soil analyses primarily at natural background concentrations. PCB contamination is localized and limited to analyses of relatively shallow soil samples (the upper 15 feet bgs) at several locations.

In addition to releases at the former manufacturing facility, other chemical releases occurred because of former land uses and associated activities at the nearby Jervis Webb and Cooper Drum Superfund sites. Groundwater plumes of chlorinated VOCs are also present at both these sites, and there is likely some limited degree of mixing (commingling) of these plumes, as discussed in **Section 4.3.5**.

5.2 PROCESSES AFFECTING CONTAMINANT FATE AND TRANSPORT

Subsurface contaminant migration depends on site-specific environmental, physical, chemical, and biological characteristics, and contaminant properties and release characteristics. Migration pathways, mobility, and persistence are contaminant-dependent and impacted by environmental factors at a specific contaminated site. Examples of environmental factors that influence contaminant fate and transport include hydrogeological conditions, the pH and oxidation-reduction potential of groundwater, the concentrations and chemical properties/reactions of non-contaminant aqueous constituents, organic matter content, and the presence and concentration of microorganisms that can biodegrade contaminants. Mobility is the propensity of a contaminant to migrate from a source, or from one phase to another, while persistence is a measure of how long a contaminant remains in the environment.

The chemical properties of the contaminants, as well as the physical, chemical, and biological processes that occur in a site's specific subsurface environment affect the fate and transport of those contaminants. **Table 5-1** presents estimates of the relevant physical and chemical properties and process parameters associated with fate and transport for benzene, *cis*-DCE, PCE, TCE, and 1,4-D. Each of these contaminants has significantly exceeded an MCL, RSL, or other screening criterion in multiple samples of soil, soil gas, and/or groundwater in impacted areas attributable to releases at the SAIA Site.

5.2.1 Contaminant Properties

Physical and chemical properties that affect the fate and transport of contaminants in the environment include the following:

- **Aqueous Solubility** – The maximum concentration of a chemical that will dissolve in water at a specified temperature and pH is its aqueous solubility. Most chlorinated solvents and benzene have low solubility in water, with aqueous solubilities generally on

the order of several tens to the low thousands of milligrams per liter (mg/L; see **Table 5-1**). However, their aqueous solubilities are high relative to their established USEPA MCLs (Pankow and Cherry, 1996; Stroo and Ward, 2010). For chlorinated solvents such as TCE, a groundwater concentration of 1% of the effective solubility or higher is a likely indicator of the presence of dense, non-aqueous phase liquid (DNAPL) in or near the upgradient source location (Newell and Ross, 1992). The chemical 1,4-D is miscible in water; therefore, aqueous solubility does not limit concentrations of this contaminant. Contaminants with low solubility may be present in the vadose zone and/or the saturated zone as pools or droplets of "free-phase" (not dissolved in water) NAPL. Based on the highest analyzed TCE concentration of 7,400J ug/L in a groundwater sample from SAIA-MW1A in the VOC source area, TCE is present at up to about 1% of its effective aqueous solubility (based on solubility when a mixture of compounds is present, as stated in Raoult's Law), on the threshold of indicating its likely presence as part of a DNAPL in the source area or elsewhere at the Site. However, any DNAPL that may exist is probably limited to the VOC source area, as concentrations of TCE and other VOCs decline downgradient from well SAIA-MW1A.

- **Density** – The ratio of a substance's mass to its volume is its density (typically expressed in units of grams per milliliter [g/mL] or grams per cubic centimeter [g/cm^3]). Density indicates whether a liquid or solid will float or sink in water, with water having a density of 1.0 g/cm^3. Chlorinated solvents such as TCE are heavier than water, and thus can penetrate deeply into an aquifer. Considering its relatively low water solubility and high density, TCE can potentially exist as DNAPL in the subsurface environment.
- **Volatility** – The tendency of a chemical to vaporize at a given temperature is its volatility, which is directly related to a chemical's vapor pressure. Volatilization of a chemical can occur wherever a contaminant is exposed or partially exposed to the atmosphere, generally at the ground surface, in the vadose zone, or at (but not below) the water table. The Henry's Law constant (H) is a conventional measure of volatility, and defines the potential for a contaminant to vaporize from water. An H value greater than 10^{-3} atmosphere-cubic meter per mole (atm-m^3/mol) indicates a greater tendency for the dissolved contaminant to partition into the vapor phase; air stripping can readily remove such chemicals from water (Stroo and Ward, 2010). Chemicals with relatively high H and low solubility, such as TCE, PCE, and *cis*-DCE, can easily volatilize from water to air; 1,4-D is relatively non-volatile due to its low H value and high water solubility.
- **Viscosity** – The molecular friction within a fluid that produces resistance to flow is its viscosity; it is a measure of a fluid's resistance to gradual deformation by shear deformation, shear stress, and/or tensile stress. TCE and PCE DNAPLs have viscosity values less than water. Low viscosity and high density facilitate DNAPL movement in the vadose zone or in a zone saturated with groundwater.

5.2.2 Contaminant Fate and Transport Processes

The following processes can affect the transport of contaminants released to the environment:

- **Bulk product flow** – Movement of non-aqueous phase liquid (NAPL; typically made up of organic chemicals) in the environment, with the movement varying depending on

whether the organic mixture comprising the NAPL behaves as a light NAPL (LNAPL) or DNAPL.

- **Dissolution** – Transfer of a chemical phase from a solid form (e.g., salt), soil, or an organic chemical in a NAPL, to groundwater as a dissolved phase.
- **Advection and hydrodynamic dispersion** – Processes that describe the movement of contaminants in groundwater or the vapor phase, as follows:
    - Advection – Bulk movement of contaminants with groundwater or the vapor phase (soil vapor or air);
    - Hydrodynamic dispersion – Fluid mixing of contaminated groundwater or vapor, due to the different flow paths of the groundwater due to pore-scale tortuosity and aquifer heterogeneities. Note: Hydrodynamic dispersion typically includes both mechanical dispersion (described above) and molecular diffusion. Molecular diffusion, which is the movement of dissolved chemicals resulting from a concentration gradient, is typically minor compared to mechanical dispersion (except in clay-rich sediments).
- **Sorption** – Process by which chemicals partition between water (or air) and the surfaces of solid (soil) particles. Parameters used to predict the effect of sorption on chemical transport are the octanol-water partition coefficient (K_{ow}), the organic carbon-water partition coefficient (K_{oc}), and the fraction of organic carbon in the soil.
- **Volatilization** – Process by which a dissolved chemical vaporizes and is transferred from groundwater to the soil gas phase or the atmosphere. The release of a contaminant in the soil gas (vapor) phase to the atmosphere is also a type of volatilization.

The following processes can affect the ultimate fate of contaminants that have been released to the environment:

- **Abiotic degradation** – Process by which a chemical compound is converted to simpler chemical products by physical or chemical reaction mechanisms. Abiotic degradation processes associated with chlorinated ethenes and ethanes such as TCE, PCE, and TCA are chemical oxidation, chemical reduction, and hydrolysis.
- **Biodegradation** – Process by which a chemical compound is converted to simpler chemical products by biochemical reactions carried out by microorganisms.

5.3 CONTAMINANT FATE AND TRANSPORT AT SAIA

This section discusses fate and transport processes as they apply to the contaminants and different subsurface environments at and near the Site properties. As discussed below, processes and properties controlling contaminant fate and transport are commonly different in the vadose zone than in groundwater (e.g., saturated zones).

5.3.1 Contaminant Fate and Transport in the Vadose Zone

When chlorinated solvents are released to the environment, the extent of their movement and fate can differ depending on whether the contaminant is present as a non-aqueous liquid, a dissolved constituent, or sorbed onto soil particles. Typically, non-aqueous contaminants released from source areas infiltrate into the subsurface and migrate downward by gravity through the vadose zone. Some residual solvent is left behind as the contaminant migration follows the path of least resistance (higher hydraulic conductivity), and tends to pool on layers of lower permeability sediments, such as clays. The overall downward migration typically includes some lateral spreading due to the differing soil types, moisture, and other properties of the vadose zone. If sufficient solvent was released through time, the contamination may reach the water table and impact the quality of the groundwater that it contacts.

The VOCs present at SAIA may have been released as DNAPLs or as dissolved components in water. DNAPLs partition into pore water, soil, and soil gas. Equilibrium generally exists between all phases in the subsurface because the movement of the contaminants is slow relative to partitioning. TCE present as DNAPL can migrate through even low-permeability soils due to its low viscosity and high density (Pankow and Cherry, 1996), as the weight of DNAPL can overcome the pore entrance pressure of low-permeability soils. However, DNAPL migration decreases as the DNAPL's volume declines along its migration path due to some amounts being retained on or between soil particles; the DNAPL's distribution thus becomes discontinuous. Such discontinuous or residual DNAPL can remain in soil for an extended period and act as a continuing source of contamination through its dissolution into pore water. When the soil moisture content is low, pore water movement becomes limited and contamination dissolved in pore water and sorbed to soil can also remain in the vadose zone for extended time periods, if the contaminants do not degrade aerobically.

In these ways, vadose-zone contamination can present a long-term source of groundwater contamination. However, counteracting DNAPL persistence in the vadose zone, VOCs can also sorb readily to organic carbon, and can volatilize into the vapor phase of the soil, from which they may escape to the atmosphere. A limited amount of volatilization of VOCs to the atmosphere may have occurred in and near the contaminant source area, considering the shallow

depth of some of the TCE contamination (upper 5 feet) at boring SAIA-SB/SG09 beneath the former degreasing building on the SAIA property.

VOCs with high vapor pressures and high Henry's Law constants can volatilize from shallow groundwater and migrate with the soil gas through the vadose zone. VOCs present in soil gas can result in potential human exposure through vapor intrusion into the indoor air of buildings. Higher VOC vapor concentrations and higher contaminant mass flux into buildings would occur in areas of shallow groundwater containing high VOC concentrations, or areas with high VOC vapor concentrations in source material beneath the structures. Groundwater with low concentrations of VOCs, and deep or confined groundwater, is unlikely to pose a potential for substantial upward migration of VOC vapors. Volatilization from groundwater in areas away from contaminant sources is likely to be limited by the rate of the contaminant volatilization and diffusion from the water table. This limitation increases especially as a groundwater contaminant plume migrates downgradient, because the plume tends to sink as infiltrating recharge water (e.g., from precipitation) migrates down to the water table, tending to push the plume beneath the water table.

At the SAIA property, VOCs are present in the vadose zone (in both soil and soil gas) beneath the footprint of the former main building, not far from the location of their release (i.e., the former degreasing building and surrounding areas beneath and near the east side of the main building). In recent years and during RI sampling, the analytical concentrations of 1,4-D in this area have been much lower than those of the VOCs, based on the high aqueous solubility, very limited sorption, and high mobility of this compound.

There is evidence that reductive dechlorination has occurred within the vadose zone, based on the high cis-DCE analytical concentration in soil at depth (65,000 ug/kg 25 feet bgs) at SAIA-SB/SG09 (**Table 4-1**). Note that the shallow samples from this location had locally elevated TCE but not *cis*-DCE, as might be expected since degradation is unlikely to occur at shallower depth. At greater depth, conditions are likely more chemically-reducing and conducive to reductive dechlorination (discussed in greater detail in **Section 5.3.2.3**), consistent with the highest analytical concentrations at this depth of petroleum-associated organics (about 3,200

ug/kg of m,p-xylenes and others) that tend to consume oxygen as they degrade. Analyses also reported low concentrations of vinyl chloride in two vadose-zone soils; the presence of vinyl chloride is also consistent with reductive dechlorination within the soil. The analytical detections of both *cis*-DCE and vinyl chloride in a significant proportion of soil gas samples is consistent with their production in the vadose-zone soils through this method of biodegradation.

5.3.2 Saturated Zone

In the saturated zone, VOCs can be present as components sorbed to saturated-zone soils, as DNAPLs, or as dissolved compounds in groundwater. Only a few soil samples had greater than 100 ug/kg of chlorinated VOCs. Thus, it is likely that sorbed VOCs (and possibly DNAPL) are limited largely to the VOC source area, while dissolved VOCs and 1,4-D are present in groundwater beneath much of the SAIA Site and beyond (e.g., groundwater in downgradient areas). Groundwater flow controls the movement of contaminants dissolved in groundwater (i.e., advection and hydrodynamic dispersion) and sorption.

5.3.2.1 Advection and Hydrodynamic Dispersion

Advection, the bulk movement of contaminants with groundwater, is the dominant transport mechanism for contaminants in groundwater at and downgradient from the VOC source area in the degreasing building just east of the main facility building. For example, groundwater flow patterns indicate that contaminant flow tends to divert around clays and clay-rich units because of their lower hydraulic conductivity compared to coarser units. Hydrodynamic dispersion results in the lateral and vertical spreading of dissolved contaminants relative to the direction of groundwater flow. Higher dispersion results in a larger volume of contaminated aquifer, and lower contaminant concentrations.

5.3.2.2 Sorption

VOCs are known to adsorb readily to organic carbon and to mineral surfaces. Because the partitioning of the sorptive phase is fast relative to the advective transport of VOCs, local equilibrium (i.e., instantaneous sorption and desorption) is generally assumed. Sorption to organic carbon can be described by a linear partitioning coefficient, K_{oc}. Sorption reduces the rate of contaminant migration relative to groundwater flow, as the dissolved contaminants continuously sorb and desorb to maintain local equilibrium (i.e., they are temporarily removed

from the migrating groundwater phase). This reduction in migration rate is referred to as retardation of contaminant transport in groundwater. **Table 5-1** lists sorption properties of the major Site contaminants; higher sorption coefficients indicate greater sorption and retardation.

VOCs also adsorb to mineral surfaces, so some sorption occurs even where organic carbon content is low. For PCE, the threshold of organic carbon content is 0.0002 (mass of carbon per unit soil mass) for surfaces of organic materials to be the primary sorption sites. However, sorption onto mineral surfaces is difficult to quantify (Fetter, 2001). The RI report for the nearby Cooper Drum Superfund site provides analyses of total organic carbon (TOC) for three soils from the saturated zone at depths ranging from 45.5 to 175 feet, with results ranging from 200 to 2,100 parts per million (ppm; **Table 3-1** of URS, 2002) and an average TOC of 870 ppm. The distribution coefficient (K_d) is the product of the organic carbon partition coefficient (K_{oc}) and the fraction of organic carbon in the soil (870 ppm or 0.000870 for the Cooper Drum site). The calculated distribution coefficient for TCE in the shallow and intermediate Gaspur Aquifer is 0.075 milliliters per gram (mL/g), using a K_{oc} value of 86 mL/g (**Table 5-1**). Presuming that these results apply to the SAIA Site, and assuming a porosity value of 0.3 and bulk density of 1.66 g/cm^3 as used for the Cooper Drum site (URS, 2002), the calculated retardation factor (R) for TCE is 1.41. A retardation factor of 1.41 indicates that sorption would cause TCE to move at a rate about 41% slower than groundwater (discussed in **Section 5.4.3**). This retardation factor indicates that the sorption of TCE to organic carbon is significant in the groundwater at SAIA, and that sorption is one factor controlling TCE migration in groundwater.

A similar calculation for *cis*-DCE yields a retardation factor of 1.17. PCE, with a lower solubility and higher K_{oc} value than TCE, would have a higher retardation factor and would be significantly more retarded in its rate of migration in groundwater. However, for PCE and TCE, biodegradation is likely to have a greater effect in slowing contaminant migration than sorption, as documented by the progressively declining proportions of both PCE and TCE with distance as groundwater migrates downgradient in the SAIA VOC plume from the source area (see **Section 5.4.3**). This hypothesis is supported by the fact that *cis*-DCE, the primary degradation product of reductive dechlorination of TCE, increases quickly as a fraction of total VOCs in the downgradient direction.

The presence of two oxygen atoms in the molecular structure of 1,4-D results in this contaminant being hydrophilic and miscible in water. In addition, owing to its low K_{oc} (**Table 5-1**), 1,4-D does not sorb significantly to aquifer sediments or soil organic matter. Therefore, 1,4-D likely moves at a velocity close to that of groundwater.

5.3.2.3 Degradation

As discussed in **Section 5.2.2**, the degradation of contaminants at and near the SAIA Site may occur through biological and abiotic processes within the subsurface. Suitable conditions, as discussed below, must exist in the subsurface for either type of degradation to occur. For TCE and PCE, biological degradation is especially effective in attenuating these compounds, as we discuss in the following paragraph. Degradation processes affecting TCA are also relevant: while laboratory analyses did not detect TCA in groundwater samples from the Site, it was detected in soil samples from two source-area borings, and from one or more depths in seven soil gas borings analyzed for the RI. Thus, the RI considers TCA to have been formerly present in the media of source-area soils and groundwater; it is likely to have degraded in these media to below analytical reporting limits, by a biological method as described below, and by an abiotic method described under the subsequent heading. Laboratory analyses reported the compounds 1,1-DCA and 1,1-DCE, primary daughter products of these TCA degradation processes, in many groundwater and soil samples, and in some soil gas samples. The RI considers these detections as supporting evidence that TCA was formerly present more widely in the SAIA contaminant source area.

Biological Degradation

Environmental conditions, the presence and activity of suitable microorganisms, and other factors affect whether biological degradation will be significant, and these various factors are different for chlorinated solvents (i.e., PCE, TCE, TCA, and *cis*-DCE) and 1,4-D. The biological degradation processes for chlorinated solvents involve biochemical reactions that transfer electrons from an electron donor (e.g., organic food source) to an electron acceptor (the chlorinated solvent).

- PCE, TCE, TCA, and *cis*-DCE: Reductive dechlorination is the primary biological degradation process for PCE, TCE, TCA, and often, *cis*-DCE, and results in the formation of daughter products (chlorinated ethene and ethane molecules with fewer

chlorine atoms). When it proceeds to completion, the sequential reduction of chlorinated VOCs leads to the formation of innocuous end-products such as ethene, ethane, and carbon dioxide (Stroo and Ward, 2010). The other biological degradation processes that affect chlorinated ethenes–aerobic co-metabolism and direct oxidation–apply only to TCE and chlorinated ethenes with one or two chlorine atoms. Reductive dechlorination occurs only under anaerobic conditions (Stroo and Ward, 2010). Anaerobic conditions appear to prevail in much of the Gaspur and Exposition aquifers in the Site vicinity (see **Section 5.4.3**), and appear to exist at SAIA in the source area and for some distance downgradient. These Site conditions thus favor reductive dechlorination. Reductive dechlorination likely accounts for the lower concentrations of TCE (parent compound), and the relatively high ratios of *cis*-DCE (degradation daughter product) to TCE in samples collected downgradient from (south of) the Site properties (**Section 4.3.4.2**). In the case of TCA, reductive dechlorination primarily produces 1,1-DCA, which is present in many groundwater samples from across the Site. **Section 5.4.3** presents other evidence for reductive dechlorination in the plume.

- 1,4-D: Generally, 1,4-D does not biodegrade extensively in the aquatic environment (Mohr et al., 2010). Research has demonstrated the recalcitrance of 1,4-D to biological degradation, with only co-metabolism under specific conditions resulting in the microbial degradation of this compound.

Rates of biodegradation vary according to location-specific conditions, such as the abundance of carbon-containing substrates (used by microorganisms as energy sources while they can degrade chlorinated VOCs co-metabolically), the intensity of reducing chemical conditions, the presence and abundance of the proper consortium of microorganisms capable of degradation of chlorinated VOCs, and acclimatization of the microbial consortia to the contaminants. The increasing intensity and degree of these factors with time may account for the fact that TCE degradation in Site groundwater has been more extensive in recent years (after 2014) than previously, based on increases in the ratio of *cis*-DCE to TCE in the post-2014 time period at most monitoring well locations at the Site, as the table below indicates with ratios of analytical results from high-concentration wells in the SAIA plume.

Well ID	*cis*-DCE / TCE ratio, average, March and August 2014	*cis*-DCE / TCE ratio, July 2016
SAIA-MW1A	0.94	2.6
SAIA-MW2A	1.9	11
SAIA-MW3B	1.2	1.3
SAIA-MW4B	19	640
SAIA-MW5B	22	700
SAIA-MW9C	NA	360; 630 *

Source of data: **Table 4-4**
NA = not applicable because well had not been installed in 2014.
* Second value represents result for September 2016

Similar increases through time in daughter-to-parent degradation ratios occur in the groundwater analytical data for the nearby Jervis Webb site (Gilbane, 2018). The higher *cis*-DCE / TCE ratios in 2016 may indicate that degradation by reductive dechlorination is more complete with time (however, one cannot accurately assess rates of degradation). It also appears, considering the progressive increase in these degradation ratios proceeding downgradient (e.g., the last three wells listed above), that degradation appears to occur not only in the contaminant source area on-property, but within the plume at downgradient locations. Owing to variable rates of degradation ratios over time and space, these ratios cannot be used to calculate plume migration rates.

Abiotic Degradation

Abiotic processes lead to the degradation of contaminants by oxidation-reduction or hydrolysis reactions, and therefore require the presence of suitable oxidizing or reducing conditions, or sufficient water, which may or may not exist in the subsurface environment at a site.

- PCE, TCE and *cis*-DCE: The abiotic degradation of chlorinated VOCs can occur under either suitable oxidizing or reducing conditions, and without the production of the daughter products associated with the reductive dechlorination biodegradation pathway. Based on low dissolved oxygen in groundwater and other indicators (high iron and manganese, low ORP), chemical oxidation will likely not occur in the saturated zone at SAIA. However, iron sulfides, magnetite, and other naturally occurring reduced minerals in the aquifer zone can chemically reduce PCE and other chlorinated solvents. The iron-mediated abiotic reduction pathways are, in general, different from the biologically mediated reductive dechlorination pathways, in requiring the presence of specific minerals rather than specific microorganisms. While some abiotic reduction of

chlorinated VOCs may be occurring in the shallow groundwater, the amount may be limited; however, this RI cannot assess the extent of such reduction.

- TCA: The abiotic degradation of TCA has been reported by many investigators to proceed readily through hydrolysis, with the byproduct being 1,1-DCE. Gerkens and Franklin (1989) reported rates of this reaction to be on the order of 1.7 years at 20 ºC, suggesting that TCA, which may have been present in soil and groundwater, may have degraded rather readily. This degradation mechanism may have been more significant than the anaerobic degradation route producing 1,1-DCA, because the concentrations of 1,1-DCE in groundwater samples were generally twice those of 1,1-DCA.
- 1,4-D: Intrinsic abiotic reduction and hydrolysis has not been identified as a degradation pathway for 1,4-D.

5.4 CONTAMINANT MIGRATION

5.4.1 Volatilization

Volatilization from soil and/or groundwater can be an important transport mechanism for organic chemicals with Henry's Law Constants greater than 10^{-3} atm-m^3/mol and low water solubility (<several g/mol). In general, chlorinated VOCs in contact with soil and water (soil moisture or groundwater) will tend to establish an equilibrium distribution between the phases of soil, aqueous (dissolved in water), and soil vapor. Relatively high soil vapor detections of chlorinated VOCs at shallow depths (up to 5,800,000 ug/m^3 of TCE) in some RI analytical samples collected at 5 feet bgs support the RI team's hypothesis that VOC migration by volatilization may be significant in portions of the property, especially where VOC contamination exists at shallow depths. Even with a slab or pavement remaining at the surface of the property, some volatilization of chlorinated VOCs from shallow depths to the atmosphere is likely to occur.

5.4.2 Soil-to-Groundwater Migration

The primary factors that determine the migration of contaminants from soil to groundwater are the physical and chemical properties of the contaminants (e.g., solubility, density, viscosity, organic carbon partition coefficient [K_{oc}], and soil-water partition coefficient [K_d]), and the physical and chemical properties of the environment (e.g., soil type, permeability, porosity, particle size distribution, organic carbon content, pH, oxidation-reduction potential, and rainfall infiltration rate). Because of the numerous factors that interact to affect the rate of contaminant migration in soil, it is often difficult to predict the rate of contaminant movement from soil to groundwater. However, the mass of chlorinated VOCs currently remaining in the soil beneath

the Site property is relatively limited, confined to an area immediately beneath the former degreasing building in the eastern part of the SAIA property (SAIA-SB/SG08, -09, and -10). At most other locations, the primary COPCs (cis-DCE, PCE, and TCE) were either non-detect, or reported at less than 10 ug/kg. However, there is also a likely pathway from soil gas to groundwater, based on elevated COPCs at depth across much of the SAIA property. In such areas, COPCs appear to occupy deep parts of the vadose zone due to their high densities, where they can contact the capillary and saturated zones and migrate into the groundwater.

5.4.3 Migration in Groundwater

TCE and other chlorinated VOCs have the potential to enter and move through a groundwater system in two forms: as a liquid product in its original form, as DNAPL, or as a solute dissolved in groundwater. Laboratory analyses have not detected free-phase products at the Site. It is possible that accumulations of DNAPL are present locally, as the analytical concentrations of TCE in groundwater (e.g., at SAIA-MW1A) range up to 0.7% of its aqueous solubility, close to the threshold of 1% considered to be evidence of DNAPL. However, the elevated TCE analytical concentrations could also be due to sorption onto soils in the same area (the former degreasing building). Based on the patterns of TCE levels in groundwater, if DNAPL is present in the contaminant source area, it may be in small quantities and may not exist more than a short distance from well SAIA-MW1A, because TCE concentrations at other wells are considerably lower. Thus, it appears likely that DNAPL, if present, is a local feature in or near the immediate VOC source area near the northeastern corner of the former main building on the SAIA property. It is more likely that the elevated TCE concentrations in groundwater at SAIA-MW1A relate to elevated concentrations sorbed onto soils, as detected in analytical samples of the nearby borings beneath the former degreasing building (e.g., SAIA-SB/SG09).

Chemical and biological processes have the potential to control the fate and transport of solutes. While these processes can greatly affect the movement and concentration of a solute through a groundwater system, they are difficult to quantify and predict without detailed study. However, reductive dechlorination is one biological process that is very important for Site contaminants.

Through the biochemical process of reductive dechlorination in a favorable (anaerobic) geochemical environment, the chlorinated ethenes break down to degradation (or daughter) products through the sequential loss of chlorine atoms as follows (Stroo and Ward, 2010):

PCE → TCE → *cis*-DCE → vinyl chloride → ethene

At and near the SAIA property the presence of *cis*-DCE could indicate that biodegradation of TCE has occurred, or it may simply indicate that *cis*-DCE was also initially released. However, there is no clear evidence of a release of *cis*-DCE, based on moderate analytical detections of this compound in groundwater near the source area on the SAIA property (e.g., SAIA-MW1A and -MW2A). Instead, the peak concentrations of *cis*-DCE in groundwater occur downgradient from the source area (SAIA-MW3B), and *cis*-DCE steadily increases downgradient in its ratio to TCE (*cis*-DCE / TCE increases from <5 to >100). One would not expect these patterns if the *cis*-DCE were released at the contaminant source along with TCE.

It appears that the requisite geochemical environment for reductive dechlorination may be present throughout much of the plume. Dissolved oxygen (D.O.), measured with field instruments during well purging prior to sampling, was less than 1 mg/L in 84% to 100% of the wells sampled in three of the four sampling events: March 2014, August 2014, and September 2016, with the remainder having D.O. between 1 and 2 mg/L (**Table 5-2**). In the July 2016 event, 68% of the wells had D.O. between 1 and 2 mg/L, with most of the others having less than 1 mg/L. The U.S. Geological Survey (2006) considers values of D.O. less than 1 mg/L in groundwater to indicate anaerobic (anoxic) conditions, and they consider D.O. values between 1 and 2 mg/L to be chemically reducing. Consistent with the low D.O., oxidation-reduction potential (ORP) was low in most wells, being less than -100 mV in most wells in all four events. Dissolved iron analytical concentrations were also high nearly everywhere: iron concentrations were in the thousands of micrograms per liter in about 84% of monitoring well samples analyzed for metals (27 of 32 wells, analyzed in one event). Iron is a redox-sensitive element, and analytical concentrations greater than 1,000 ug/L (>1 mg/L) generally indicate anaerobic conditions (Dimkic et al., 2008). Taken together, these geochemical parameters indicate anaerobic to reducing conditions throughout nearly the entire volume of groundwater within the monitoring network.

It is somewhat unusual to have a plume in permeable materials, like sand and gravel, exist under predominantly anoxic conditions (the generally high rates of infiltration through these permeable materials delivers oxygen to the groundwater). However, there are two factors that probably account for this:

- Paved surfaces cover the clear majority of the area of the plume, as well as areas upgradient from the plume, such as the Jervis Webb VOC plume located about 600 to 1,500 feet upgradient of the SAIA property, and other industrial facilities in the neighborhood. Paved surfaces allow negligible infiltration of precipitation, and very little introduction of atmospheric oxygen in general.
- Labile organic compounds exist locally, and were probably much more abundant in the past. Various petroleum-associated compounds were reported in analyses of soils from the contaminant source area on the SAIA property, including ethylbenzene, isopropylbenzene (cumene), m,p-xylenes, o-xylene, and toluene, at most sampling depths from samples from the contaminant source beneath the degreasing building (SAIA-SB/SG08, -09, and -10); the summed analytical concentrations of these compounds ranged up to 3,200 ug/kg. It is also evident that there would have been larger quantities of these and other petroleum compounds in the source area in the past, owing to the use of oil in the manufacturing process (i.e., creating the need for a degreasing building). Oxidation relatively easily degrades these petroleum-associated compounds, and often create a significant oxygen demand during the process. This process in turn tends to produce more-reducing conditions in the subsurface, which would affect the oxidation levels in the saturated zone.

These factors probably help to explain both the reducing geochemistry in the saturated zone and the amenability of the groundwater to reductive dechlorination.

The analytical detection of PCE in groundwater at only one well (SAIA-MW1A, located in the contaminant source area, at 0.42J ug/L in August 2014), along with more numerous detections in both soil and soil gas samples in the eastern half of the SAIA property, indicates a likely release of this compound at the contaminant source area, but extensive biodegradation of this compound to TCE near the source area, possibly combined with some attenuation by sorption. As we discussed in the preceding paragraph, the source area is likely amenable to biodegradation by reductive dechlorination, based on various measures of redox conditions in groundwater, as well as patterns of daughter-to-parent contaminant ratios.

A portion of the contaminant mass in groundwater can become sorbed to the soil mass, particularly the organic carbon content; however, sorbed concentrations are not likely to be

especially high, based on the low VOC concentrations reported for most soil analytical results (**Section 4.1**). Instead, VOCs are relatively mobile in groundwater. At the locations with elevated TCE in soils (e.g., SAIA-SB/SG08 through -SB/SG10), some of the TCE is likely to remain in place for an extended period, either as sorbed concentrations or possibly in localized DNAPL accumulations that are not in direct contact with groundwater. This area will constitute an ongoing contaminant source to groundwater.

The coarse-grained deposits in the Gaspur and Exposition Aquifers are capable of conveying groundwater (and any solutes) over long distances, as evidenced by the length of the contiguous plume of *cis*-DCE in the shallow, intermediate, and lower Gaspur Aquifer and the Exposition Aquifer, to at least the southern boundary of the LAUSD property some 2,800 feet downgradient from the contaminant source area on the SAIA property. Along this path, downward hydraulic gradients within the Gaspur Aquifer, and from the Gaspur to the Exposition Aquifer, provide impetus for contaminants to migrate to a greater depth. The decreases in *cis*-DCE analytical concentrations in the shallow Gaspur Aquifer with distance downgradient, and progressive increases in the deeper intervals (intermediate Gaspur, lower Gaspur, and Exposition Aquifers) along the migration vector demonstrate this migration pattern.

Groundwater and Contaminant Migration Rates. Based on the May 2017 potentiometric surface of the shallow Gaspur Aquifer at and near the Site, with an average gradient of 0.0017 ft/ft (toward the south-southeast), and using a porosity of 0.3 and a hydraulic conductivity of 40.4 feet per day (ft/day) determined through aquifer testing performed for the Cooper Drum site (URS, 2009), EPA estimates the average linear groundwater velocity in the SAIA plume at 84 ft/year. While advection causes downgradient migration of contaminants in groundwater, biodegradation, along some sorption to clay and organic matter, retards movement of TCE/*cis*-DCE in groundwater relative to the estimated average linear groundwater velocity.

Assessing the velocity of the contaminant by dividing the average linear groundwater velocity by the retardation factor for TCE (1.41; see **Section 5.3.2.2**), EPA estimates the contaminant velocity for TCE in the shallow Gaspur Aquifer beneath the Site at 60 ft/year. A similar calculation for *cis*-DCE using a calculated retardation factor of 1.17 yields a migration rate of 72

ft/year for this contaminant, about 20% faster than for TCE. However, the migration velocity for TCE almost certainly errs on the high side because of demonstrated biodegradation of TCE to *cis*-DCE along the length of the plume, which–similar to sorption–serves to retard contaminant migration. A velocity for TCE of 60 ft/year would produce a plume reaching the 1,200 feet to its southern extent near Wood Avenue (Exposition Aquifer locations for SAIA-CPT10 and SAIA-MW8) within 20 years, if the same contaminant velocity applied to the entire Site. However, while *cis*-DCE from the SAIA VOC plume has traveled much farther at significant concentrations, the main mass of the TCE plume has not yet arrived at these locations: TCE is at least 99.8% attenuated at these two locations, to values of 15 ug/L or less, compared to 7,400 ug/L in the SAIA contaminant source area groundwater (at SAIA-MW1A). Thus, biodegradation has produced a large retardation effect in the TCE plume. Where biodegradation is active, accurate estimates of retardation factors and contaminant velocities are generally not possible, owing to limited information on the rates and locations of the biotransformation reactions.

For *cis*-DCE, a velocity of 72 ft/year would produce a plume reaching the 2,800 feet to its southern extent near Aldrich Avenue (lower Gaspur and Exposition Aquifer locations SAIA-MW12C and -MW13) within 39 years. These locations were first sampled for the RI in 2016, so the contaminant release date would have been in 1977 or earlier. The SAIA facility had been operating for a number of years by this time (since the early 1950s), so the release date and migration rate are plausible. However, there is uncertainty about where the leading edge of the *cis*-DCE plume is located; it could be some distance downgradient of well SAIA-MW13.

cis-DCE is also prone to biodegradation, although this process occurs under different conditions, locations, and rates than for TCE. In fact, based on its much longer plume compared to TCE, it appears that *cis*-DCE is not attenuating significantly through biodegradation. Also, *cis*-DCE has higher water-solubility and lower sorption than TCE (see **Table 5-1**). Considering these combined factors, *cis*-DCE likely migrates faster than TCE.

There is insufficient data for the Exposition Aquifer to calculate approximate groundwater or contaminant transport velocities for this unit. Contaminants derived from the SAIA VOC plume

affect the Exposition Aquifer only in the downgradient portion of the monitored area (at SAIA-MW10 and SAIA-MW13).

5.4.4 Fugitive Dust

Fugitive dust emissions caused by wind or mechanical disturbances are most likely to occur in unpaved and non-vegetated areas where soils are exposed at the surface. In addition to surface coverage by pavement, other factors such as wind speed, moisture content, and soil composition can influence dust migration. Because contaminated soil at the SAIA site is not currently exposed to the surface, fugitive dust entrainment is not a significant mechanism for contaminant migration at the Site.

5.4.5 Surface Water Runoff

The sub-pavement location of soil and groundwater contamination at the Site should eliminate the route of surface water runoff as a significant contaminant transport mechanism. The limited unpaved areas in the broader vicinity, such as South Gate Park (located side-gradient to the west), allow infiltration of precipitation and thus act as local recharge sources to groundwater.

5.5 POTENTIAL ROUTES OF FUTURE MIGRATION

This section discusses the potential routes of future migration for *cis*-DCE, PCE, TCE, benzene, and 1,4-D in subsurface soils, soil vapor, and groundwater at and near the Site. For each medium discussed below, the migration routes that are listed first are the more likely to occur.

5.5.1 Subsurface Soils

Laboratory analyses detected the compounds *cis*-DCE, PCE, TCE, along with several other chlorinated VOCs and several petroleum-associated VOCs, locally (four of 37 borings analyzed for soil VOCs) at significant levels (e.g., >100 ug/kg) in subsurface soil samples, with several of the concentrations above industrial RSLs. Under the current paved condition, the most likely potential future routes of migration for these VOCs are partitioning from soil to the soil vapor phase (and subsequent movement in soil vapor) and from soil to groundwater (limited desorption from vadose-zone soils to recharging or infiltrating water, and subsequent migration to groundwater). If future owners or operators unearth contaminated soil, VOC contaminants could migrate as vapors or in fugitive dust emissions, be carried away in surface water, or be more

easily dissolved and carried downward in infiltrating precipitation. Because of the low Henry's Law constant, partitioning of 1,4-D to the vapor phase is not a significant migration pathway.

Non-VOCs in soils are very localized in their distribution above typical background levels, with lead, copper, and several PCBs above screening levels in scattered locations. These contaminants are relatively insoluble and non-volatile, and are likely to remain where they are under pavement. However, removal of pavement, excavation, and/or site redevelopment or could result in mobilization of these localized soil contaminants, and/or human exposures to them.

5.5.2 Soil Vapor

From soil vapor, Site VOCs can partition back to the soil phase (and be rendered relatively immobile) or to groundwater. Within soil vapor, VOCs migrate primarily via advection (due to pressure gradients) and diffusion (from areas of high concentration to areas of low concentration). VOCs can migrate from subsurface sources into enclosed indoor spaces through a combination of diffusion and advection. Shallow soil vapors that are within the "building zone of influence" can ultimately enter the indoor air environment of buildings (i.e., by soil vapor intrusion) because of pressure differentials between the indoor and outdoor environments. Analytical results for soil gas sampling and one indoor air sampling event at six Site-area residential buildings have provided data for evaluation of the possibility of vapor intrusion into these structures. However, based on the indoor-air sampling results, there is very limited evidence that soil-vapor intrusion is an active migration pathway for Site VOCs. PCE was the only Site-related VOC detected above screening levels in analyses of indoor-air samples collected from the buildings for either event; however, its presence, limited to one building, is likely due to an indoor air source, because it was not detected in crawlspace air in the two sampling events.

One way in which soil gas will have future impacts is as an ongoing source of contamination to the groundwater contaminant plume. VOCs in soil gas are at relatively high concentrations that could potentially be dissolved in infiltrating water and eventually reach the underlying saturated zone. However, the amount of percolation from precipitation is limited under the current

presence of pavement at the SAIA property. Off-property, there is some potential for soil gas VOCs to be taken up by infiltrating water where pavement is not present (e.g., residential yards); however, soil gas concentrations are generally relatively low in these off-property areas.

Laboratory analyses detected 1,4-D in a single deep (35 feet bgs) soil gas sample on the SAIA property at above its screening level. Because of its high aqueous solubility and low Henry's Law constant, vapor concentrations are generally low for 1,4-D, and vapor intrusion is not a pathway of concern for this compound.

5.5.3 Groundwater

5.5.3.1 Future Contaminant Migration Routes in Groundwater

In groundwater at and near the Site, the most likely potential routes of future VOC contaminant migration are advection (movement with groundwater flow) and dispersion. These routes include migration by groundwater flow to greater depths and deeper aquifers, as demonstrated by downward *cis*-DCE migration in the downgradient portions of the SAIA VOC plume, which is enabled by downward hydraulic gradients. This migration is a current and ongoing migration route of concern, because in downgradient areas of the VOC plume, laboratory analyses reported *cis*-DCE at analytical concentrations above the MCL in the upper portions (upper 40 feet) of the Exposition Aquifer, which is in contact with an underlying water-supply aquifer. Contaminants in groundwater can also partition to the soil or soil vapor phases. Partitioning to soil tends to render contaminants less mobile, and below the water table, partitioning to soil vapor becomes insignificant.

Though biodegradation is not explicitly a migration process, the biodegradation of chlorinated VOCs affects migration, as the process produces compounds with fewer chlorine atoms that are typically somewhat more soluble (and more mobile) than the parent compounds. The existing monitoring well network cannot fully define the downgradient extent of the SAIA VOC plume, because groundwater samples from the farthest-downgradient locations still contain contaminants at analytical concentrations exceeding MCLs. Contaminants in groundwater could potentially also discharge to surface water via a spring or seep, but this is highly unlikely at or

near the Site given the depth to groundwater, depth of contamination, and absence of any discharge points in the vicinity.

In groundwater, the most likely potential routes of future contaminant migration for 1,4-D are advection and dispersion, including possible migration to greater depths and deeper aquifers, similar to VOCs; like *cis*-DCE, the compound 1,4-D has migrated into the lower Gaspur and Exposition Aquifers in the downgradient portion of the VOC plume. However, 1,4-D is also miscible in water and prone to dispersion, and it has very limited distribution in the Exposition Aquifer, reaching only slightly above the NL. In groundwater, 1,4-D also partitions to the soil or soil vapor phases, but due to its hydrophilic nature (high water solubility) and low Henry's Law constant, partitioning to the soil and vapor phases is insignificant. 1,4-D in groundwater can also eventually discharge to surface water via a spring or seep, but this is highly unlikely in the Site vicinity given the depth of contamination and absence of any discharge points.

5.5.3.2 Measures of Stability of the Contaminant Plume

It is useful to evaluate whether the SAIA VOC plume may be expanding, contracting, or at a steady state in terms of its advancement. However, the time span recorded by monitoring well sampling events within the SAIA plume is limited to just over two years. Furthermore, in the critical downgradient area, EPA only conducted two monitoring well sampling events, at just two months apart. In addition, EPA has not fully defined the downgradient extent of the VOC plume.

In the source-area and middle portions of the SAIA VOC plume, analytical concentrations increased from March 2014 to August 2014, and then decreased somewhat more from the August 2014 event to the July 2016 sampling event, especially in the shallow and intermediate Gaspur Aquifer. These are short-term trends that are not especially significant. However, a longer record of monitoring is available from wells installed for the Cooper Drum investigations. Analytical results for two lower-Gaspur wells sampled since 2009 (MW48 and MW51) show increases in *cis*-DCE concentrations by factors of two to eight from 2009 through 2017 (Haley and Aldrich, 2017; **Appendix A-4**). For the downgradient-area RI wells installed in 2016, the shallow and intermediate-Gaspur Aquifer wells were relatively constant in analytical

concentrations, while concentrations of *cis*-DCE in the lower Gaspur and Exposition Aquifer wells (SAIA-MW9C, -MW10, -MW11C, -MW12C, and -MW13) all increased during the same 2-1/2-month period. While little can be concluded for the short time records of SAIA RI groundwater monitoring, the Cooper Drum wells may indicate that the plume is expanding downgradient somewhat in the portions within the lower Gaspur and Exposition Aquifers.

In most of the SAIA plume, there is no sign of degradation of *cis*-DCE to other compounds. Reductive dechlorination of *cis*-DCE produces vinyl chloride. However, vinyl chloride is not especially abundant in the plume, with peak values (up to 47 ug/L at SAIA-MW3B) generally two orders of magnitude below those of *cis*-DCE. *cis*-DCE concentrations do not appear to be declining much along the length of the plume; witness the concentrations far above the MCL at the downgradient edge of the monitoring network at SAIA-MW13. Thus, it may be that reductive dechlorination is stalling out at *cis*-DCE. Bradley and Chappelle (2007) have reported a similar stall at *cis*-DCE for other VOC sites. If such stall is occurring for *cis*-DCE, it is likely that the *cis*-DCE plume may continue migrating for some time and distance beyond SAIA-MW13.

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6.0 HUMAN HEALTH BASELINE RISK ASSESSMENT

A human health risk assessment (HHRA) is a scientific method for determining the potential health risks for current and future receptors where a chemical release has or may have occurred (USEPA, 1989). A standard HHRA assumes evaluated receptors have a reasonable maximum exposure (RME) by applicable exposure routes. The assumption of potential exposure (by any complete and/or potentially complete exposure pathway) represents a conservative (e.g., health-protective) approach. Regulatory risk assessment guidance recommends this approach to make the HHRA sufficiently protective of the potential receptors (USEPA, 1989).

6.1 SCOPE OF THE HHRA

The HHRA consists of five primary components as the basis for identifying potential health risks posed to current and potential future receptors at a Site. These HHRA components are:

1. **Data Evaluation:** Evaluate site characterization data for risk assessment usability in terms of precision, accuracy, reproducibility, representativeness, and completeness.
2. **Chemicals of Potential Concern:** Identify the chemicals of potential concern (COPCs), which are those chemicals for which risk values are quantified.
3. **Exposure Assessment:** Identify the routes through which potential exposure to COPCs may occur. This also requires identifying potential human receptors, displaying them in a conceptual site exposure model (CSEM), and estimating the magnitude and duration of the receptor-specific exposures.
4. **Toxicity Assessment:** Identify relevant toxicity endpoints and dose-response criteria for the COPCs.
5. **Risk Characterization:** Employ the results of the toxicity assessment and exposure assessment to estimate the non-cancer hazard index (HI) and incremental lifetime cancer risk (ILCR) for each receptor.

This HHRA uses methods that are consistent with standard risk assessment practices and information provided in the following guidance documents:

- Risk Assessment Guidance for Superfund (RAGS), Volume I—Human Health Evaluation Manual, Part A, Interim Final (USEPA, 1989)
- Guidance for Data Usability in Risk Assessment (Part A), Final (USEPA, 1992a)
- Soil Screening Guidance: Technical Background Guidance Document (USEPA, 1996)
- Supplemental Guidance for Developing Soil Screening Levels at Superfund Sites (USEPA, 2002)
- Human Exposure-Based Screening Numbers Developed to Aid Estimation of Cleanup Costs for Contaminated Soil (CalEPA, 2005)

- Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (CalEPA, 2011)
- Guidelines for Exposure Assessment (USEPA, 1992b). Federal Register 57 (104): 22888-22938.
- Risk Assessment Guidance for Superfund (RAGS), Volume I—Human Health Evaluation Manual, Part E, Supplemental Guidance for Dermal Risk Assessment, Interim (USEPA, 2004)
- Risk Assessment Guidance for Superfund, Volume I: Human Health Evaluation Manual (Part F, Supplemental Guidance for Inhalation Risk Assessment) (USEPA, 2009)
- Exposure Factors Handbook (USEPA, 2011)
- California Department of Toxic Substances Control (DTSC) Human and Ecological Risk (HERO)
    - Note 3: DTSC-modified Screening Levels (DTSC-SLs) (2018)
- ProUCL Version 5.1 Technical Guide (USEPA, 2015a,b)
- OEHHA Toxicity Criteria Database (CalEPA, 2018b)
- Integrated Risk Information System (IRIS) database (USEPA, 2018a)
- Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air (USEPA, 2015c).

6.2 DATA EVALUATION

This HHRA uses data collected through several phases of RI work as detailed in **Section 4.0**. The tested media include soil gas, indoor/crawlspace air, ambient (outdoor) air, soil, and groundwater. **Table 6-1** presents chemicals detected in at least one sample in any of these media. **Appendix E** presents the analytical data used in this HHRA. **Figure 1-4** shows the CPT and groundwater sample locations, while **Figure 2-1** shows the soil, soil-gas, indoor/crawlspace air, and ambient (outdoor) air sample locations.

The data usability (DU) evaluation for both the soil matrix and soil vapor data uses the *Guidance for Data Usability in Risk Assessment* (USEPA 1992a). The DU evaluation provides the basis for (1) identifying whether there are site characterization data gaps and (2) supporting the uncertainty analysis portion of the HHRA with respect to the selection of COPCs and exposure-point concentrations, both of which are dependent on the site data (USEPA, 1989, 1992a).

A specific guidance framework established by the USEPA provides risk assessors a consistent basis for making decisions about the minimum quality and quantity of environmental analytical data that are sufficient to support HHRA-based decisions (USEPA, 1992a). The USEPA DU guidance provides an explicit set of data quality criteria that are used to determine the usability of site characterization data in the HHRA process. These criteria include:

- **Criterion I — Reports:** Confirmation that report(s) relied upon are complete and appropriate for use in the HHRA. *The recent soil and soil vapor investigation data detailed in **Section 4.1** satisfy this requirement. As such, Criterion I is met.*
- **Criterion II — Documentation:** Confirmation that each analytical result is associated with a specific sample location and that the appropriate sampling procedure is documented. *Soil matrix and soil vapor sample locations are provided in **Figure 1-4** and **Figure 2-1**. As such, Criterion II is met.*
- **Criterion III — Data Sources:** Confirmation that the analytical methods used are appropriate to identify the COPCs for the media of interest. *As **Section 4.1** discusses, the broad analytical suite, including VOCs, SVOCs, metals, and PCBs, sufficiently captured all potential chemical contaminants at the site. As such, Criterion III is met.*
- **Criterion IV — Analytical Methods and Detection Limits:** Confirmation that analytical methods appropriately identify the chemical form or species and that the sample detection limit is at or below a concentration appropriate for the risk assessment application. *Detection limits for soil matrix and soil vapor samples are less than the human health screening levels (or at low levels consistent with the capabilities of current analytical methods), and a California state-certified laboratory employed appropriate USEPA laboratory methods. As such, Criterion IV is met.*
- **Criterion V — Data Review:** Confirmation that the quality of analytical results is assessed by a professional knowledgeable in field collection procedures and analytical chemistry and that data quality are adequate to estimate exposure concentrations. *Staff scientists of The Fehling Group, LLC, are qualified and experienced in the DU process. They conducted the DU evaluation. As such, Criterion V is met.*
- **Criterion VI — Data Quality Indicators:** Documentation that sampling and analysis data quality indicators (including precision, accuracy, reproducibility, representativeness, and completeness, and reproducibility) are evaluated using criteria specific to the risk assessment. *The data quality for the COPCs is summarized below. The summary focuses on COPCs for which the results of the quality control/quality assurance results have the potential to underestimate exposures. The Uncertainty Analysis (see **Section 6.8**) further discusses the uncertainty associated with these findings. As such, Criteria VI is met.*

Further, data gap analysis review of the sample locations indicates that, in general, the samples collected were biased towards areas of past industrial operations based upon the CSEM. Based upon the areal distribution of samples (as presented in **Figure 1-4** and **Figure 2-1**) and detected concentrations, there are no data gaps for this HHRA.

6.3 CONCEPTUAL SITE EXPOSURE MODEL (CSEM)

The CSEM shown in **Figure 6-1** employs available information about past and current site operations and the nature of the chemicals detected in various media. The CSEM identifies the known or suspected source(s), transport mechanisms, exposure media, and exposure routes through which human receptors potentially could contact released chemicals.

For a complete exposure pathway to exist, each of the following elements must be present (USEPA, 1989):

- Source(s) and mechanism(s) for chemical release(s);
- Transport medium/media and associated migration pathway(s);
- Exposure medium/media which provide a point of potential human contact with one or more chemicals; and
- A route of exposure for chemical uptake into the body.

If any one of these elements is missing, the exposure pathway is considered incomplete and is not evaluated in the HHRA. That is, the HHRA evaluates only exposure pathways that currently are complete or that may be complete in the future.

Section 4.0 and **Section 5.0** discuss the sources and release mechanisms depicted on **Figure 6-1**, which are therefore not recounted here. This HHRA considers the following potential transport media and associated migration pathways:

Transport Media	Migration Pathway(s)
Soil	Eroded contaminated soil may be transported as airborne particulates ('dust'). Volatile chemicals present in soil may partition into the vapor phase and subsequently be transported by diffusion and/or advection (collectively referred to as 'volatilization' for this HHRA)
Soil Gas	Chemicals present in soil gas and/or air/crawlspace air may be transported via 'volatilization'.
Air/Crawlspace Air	
Groundwater	Chemicals present in groundwater may migrate from beneath the Site to off-site locations and subsequently volatilize upward from groundwater.

This HHRA considers the following potential exposure media and associated exposure pathways:

Exposure Media	Exposure Pathway(s)
Indoor, Outdoor Air, Trench Air	Chemicals present in soil gas, crawlspace air, and/or groundwater may volatilize into: • the indoor air space of commercial and/or residential buildings where they subsequently may be inhaled; and/or • outdoor air or construction utility trench air where they subsequently may be inhaled.
Soil	On-site receptors may be exposed to chemicals via ingestion of and/or dermal contact with soil (ingestion and dermal contact are referred to as 'direct contact' exposure pathways). On-site receptors may also inhale windborne particulates ('dust') or volatilized chemicals. Exposure of off-site receptors to aerially-deposited windborne particulates via direct contact and/or inhalation is evaluated qualitatively in the uncertainty analysis.

Site-related chemicals may have potential impact on groundwater via downward migration through the unsaturated zone, through any capillary fringe, and ultimately into the saturated zone (i.e., 'leaching'). The HHRA evaluated these impacts through ongoing activities including, but not necessarily limited to, periodic groundwater monitoring and proposed groundwater remediation conducted with USEPA oversight. Therefore, this HHRA does not evaluate the leaching pathway – in which groundwater is the 'receptor' – through fate-and-transport modeling or similar analysis. The local groundwater aquifer that has been impacted by the Site is not used for any purpose (e.g., for drinking, cooking, or bathing – that is, as "tapwater"); therefore, groundwater is not an exposure medium for this HHRA. However, the State of California has identified the local groundwater aquifer to have beneficial use(s) as set forth in the Basin Plan developed by the Regional Water Quality Control Board (RWQCB; Los Angeles Region) of the California State Water Resources Control Board under the Porter-Cologne Act. As such,

USEPA has justified remediating groundwater within the local groundwater aquifer to maximum contaminant levels (MCLs).

Aerial imagery shows that Site has been vacant, other than for minimal vehicle parking/storage, since sometime between August 2013 and April 2014. Therefore, there are no current on-site receptors evaluated in this HHRA. The HHRA evaluated the following receptors and the associated exposure pathways:

- **Future On-Site Commercial/Industrial Worker:** This future receptor potentially may be exposed to soil in the upper 2 feet (i.e., from 0 to 2 feet below ground surface [ft bgs]). The evaluation assumes that the primary potential exposure pathway for this receptor is inhalation of volatile chemicals that may be present in soil gas and indoor air as well as volatile and non-volatile chemicals that may be present in soil.
- **Future On-Site Construction Worker:** This future receptor may undertake invasive activities which could result in exposure to soil and inhalation of volatile chemicals that may be present in utility trench air. This receptor potentially is exposed to soil in the upper 10 feet (i.e., from 0 to 10 ft bgs).
- **Current and Future Off-Site Residential Receptor:** The closest residential neighborhood is located approximately 150 feet south of the Site. Since it will remain as such into the foreseeable future, there is no difference between the current and future receptors for this HHRA. Given the distance from the Site and engineering controls that likely would be implemented to minimize dust migration during any future redevelopment, exposure to aerially deposited soil is not considered. The only residential exposure considered is inhalation of volatile chemicals that volatilize off groundwater and into indoor air.

The exposure assessment provides additional details regarding how the exposures for these receptors are quantified.

6.4 IDENTIFICATION OF CHEMICALS OF POTENTIAL CONCERN

COPCs are those chemicals for which risk values are calculated as part of the risk characterization for the various receptors and exposures identified in the CSEM. The HHRA retained as COPCs any detected chemicals whose presence could not be attributed to naturally-occurring processes. Except for metals, the tested chemical classes (e.g., VOCs, SVOCs, PAHs, and PCBs) are not naturally-occurring. Consequently, any chemical associated with these other classes detected in at least one sample in a given media was retained as a COPC for that media. For metals other than arsenic and lead, the HHRA assessed whether a release may have occurred by means of an outlier analysis based on concentration range and coefficient of variation (CV)

(CalEPA, 1997). Metals whose 0 to 2 ft bgs or 0 to 10 ft bgs sample concentration populations do not span more than two orders-of-magnitude or have a CV greater than unity[1] are attributed to naturally-occurring processes and were not assessed further. They include barium, beryllium, calcium, iron, manganese, potassium, and vanadium. Metals whose sample concentration populations exceed either of those criteria were assessed further. They are as follows:

- antimony (CV > 1);
- arsenic (CV > 1);
- cadmium (CV > 1);
- chromium (CV > 1);
- cobalt (CV > 1);
- copper (CV > 1);
- lead (CV > 1);
- manganese (CV > 1);
- mercury (CV > 1);
- nickel (CV > 1);
- selenium (CV > 1);
- silver (CV > 1);
- sodium (CV > 1);
- thallium (CV > 1); and
- zinc (CV > 1).

This list is identical for both the 0 to 2 ft bgs and 0 to 10 ft bgs populations. In several cases, the CV exceedances are driven largely by a low frequency of detection.

Antimony: The maximum detected concentration (64 mg/kg) exceeds the most stringent risk-based concentration (regional screening level [RSL], USEPA 2018) of 31 mg/kg (the non-cancer endpoint-based RSL for the child resident); therefore, antimony is retained as a COPC.

Cadmium: The maximum detected concentration (40.5 mg/kg) is comparable to the most stringent RSL (USEPA 2018) of 71 mg/kg (the non-cancer endpoint-based RSL for the child resident); therefore, cadmium is retained as a COPC.

Chromium: The maximum detected concentration (1,020 mg/kg) is well below the most stringent RSL (USEPA 2018) of 120,000 mg/kg (the non-cancer endpoint-based RSL for the child

[1] To provide a conservative analysis, non-detect results were assigned a concentration of zero.

resident using trivalent chromium as a surrogate); therefore, chromium is not retained as a COPC.

Cobalt: The maximum detected concentration (197 mg/kg) exceeds the most stringent RSL (USEPA 2018) of 23 mg/kg (the non-cancer endpoint-based RSL for the child resident); therefore, cobalt is retained as a COPC.

Copper: The maximum detected concentration (4,350 mg/kg) exceeds the most stringent RSL (USEPA 2018) of 3,100 mg/kg (the non-cancer endpoint-based RSL for the child resident); therefore, copper is retained as a COPC.

Manganese: The maximum detected concentration (5,260 mg/kg) exceeds the most stringent RSL (USEPA 2018) of 1,800 mg/kg (the non-cancer endpoint-based RSL for the child resident); therefore, manganese is retained as a COPC.

Mercury: The maximum detected concentration (0.46 mg/kg) is well below the most stringent RSL (USEPA 2018) of 23 mg/kg (the non-cancer endpoint-based RSL for the child resident); therefore, mercury is not retained as a COPC.

Nickel: The maximum detected concentration (585 mg/kg) is comparable to the most stringent RSL (USEPA 2018) of 1,500 mg/kg (the non-cancer endpoint-based RSL for the child resident); therefore, nickel is retained as a COPC.

Selenium: The maximum detected concentration (7.5 mg/kg) is well below the most stringent RSL (USEPA 2018) of 390 mg/kg (the non-cancer endpoint-based RSL for the child resident); therefore, selenium is not retained as a COPC.

Silver: The maximum detected concentration (2.7 mg/kg) is well below the most stringent RSL (USEPA 2018) of 390 mg/kg (the non-cancer endpoint-based RSL for the child resident); therefore, silver is not retained as a COPC.

Sodium: The maximum detected concentration (1,520 mg/kg) is comparable to the most stringent RSL (USEPA 2018) of 2,300 mg/kg (the non-cancer endpoint-based RSL for the child

resident) for chlorite (sodium salt). The CV (approximately 1.1 for both populations) is attributed to the fact that sodium was not detected in 36 of the 82 samples collected from 0 to 2 ft bgs and 53 of 124 samples collected from 0 to 10 ft bgs. When the detected and estimated concentrations in both populations are considered, the CV is calculated to be approximately 0.5 for both populations; therefore, sodium is not retained as a COPC.

Thallium: The maximum detected concentration (12.6 mg/kg) exceeds the most stringent RSL (USEPA 2018) of 0.78 mg/kg (the non-cancer endpoint-based RSL for the child resident); therefore, thallium is retained as a COPC.

Zinc: The maximum detected concentration (1,550 mg/kg) is well below the most stringent RSL (USEPA 2018) of 23,000 mg/kg (the non-cancer endpoint-based RSL for the child resident); therefore, zinc is not retained as a COPC.

Arsenic and Lead: A regional background concentration of 12 mg/kg for arsenic in Southern California has been established by CalEPA. Given that the maximum concentration of arsenic (43.8 mg/kg) for both populations exceeds this regional value, arsenic is retained as a COPC. For lead, CalEPA has established a residential soil level of 80 mg/kg. Given that the maximum concentration of lead (2,620 mg/kg) for both populations exceeds this lead level, lead is retained as a COPC.[2]

Table 6-2 summarizes the COPCs for the various media. As noted above, COPCs are those chemicals detected above a naturally-occurring level so not all detected metals in soil are retained as COPCs. However, all detected VOCs in any media and all detected 'non-VOCs' (i.e., SVOCs, PAHs, and PCBs) detected in soil are not considered to be naturally-occurring. Therefore, they were retained as COPCs consistent with the CSEM.

[2] It is noted that the CV for both arsenic and lead exceed 1 and that the range of lead concentrations spans more than two orders of magnitude (i.e., the minimum and maximum lead concentrations are 2.3 mg/kg and 2,620 mg/kg, respectively).

6.5 EXPOSURE ASSESSMENT, TOXICITY ASSESSMENT, AND AIR, SOIL GAS, AND SOIL RBCS

The exposure assessment and toxicity assessment establish air and soil RBCs. The risk characterization uses the air and soil RBCs to estimate the potential risks to human health posed by the COPCs.

6.5.1 Exposure Assessment

The exposure assessment measures or estimates the intensity, frequency, and duration of human exposure. The definition of exposure (USEPA, 1992b) is "a condition in which a chemical contacts the outer boundary of a human." The amount of chemical contacted is termed "potential dose." Potential dose generally is determined by incorporating assumptions regarding the contact rate with the outer boundary of a human. In the HHRA process, actual exposure cannot be determined. Accordingly, the risk assessor estimates potential dose by assuming and evaluating a conservative hypothetical exposure based on default regulatory guidance.
Superfund risk assessment guidance specifies that risks are to be assessed for an RME scenario. The guidance defines the RME as "the highest exposure that reasonably is expected to occur at a site". An RME exposure scenario is then based on the upper end of the distribution of human activities that impact exposure (e.g., inhalation rate, frequency and duration of exposure based on the number of days per year and years per lifetime a person is present at any one residence).
A Superfund risk assessment relies upon conservative RME exposure assumptions to ensure that the potential exposure is not underestimated (USEPA, 1989). As such, the RME is designed to be the highest exposure that reasonably is expected to occur for any member of the potentially exposed population (USEPA, 1989). The receptor-specific RME exposure parameters include body weight, exposure frequency, exposure duration, exposure time, inhalation and ingestion rates, skin surface area and soil adherence factors, and volatilization and particulate emission factors. USEPA (2018b) has published the values of these parameters, and the risk-based concentrations (along with toxicity criteria) incorporate the parameter values, as described below.

6.5.2 Toxicity Assessment

The toxicity assessment identifies adverse human health effects potentially caused by exposure to a chemical. The manifestation of these adverse health effects depends on the extent of

chemical intake. The toxicity assessment comprises the characterization and quantification of: 1) the cancer risks from exposure to a carcinogenic COPC, and 2) the non-cancer hazards from exposure to a COPC.

6.5.2.1 Cancer Effects

There are two steps to the toxicity assessment of a chemical with the potential to cause cancer or increase the incidence of cancer in humans. In the first step, the risk assessor uses evidence from laboratory toxicity and human epidemiology studies to determine the likelihood that a chemical is a carcinogen. Based on the weight of evidence from these studies, the chemical is then ranked on a scale from "not likely to be carcinogenic" to "human carcinogen." In the second step, the risk assessor uses dose-response data, usually from one or more animal carcinogenicity studies, to develop cancer potency factors which can be used to estimate cancer risks for humans exposed to the chemical in question. Similar to the non-cancer hazard assessment, quantification of cancer risks is accomplished using cancer risk-based concentrations for each COPC, as **Section 6.5.3** describes below. These values incorporate the cancer potency factor derived from animal carcinogenicity studies, along with the RME exposure assumptions noted above. For each analyte, its cancer risk-based concentration corresponds to an ILCR equivalent of 1E-06 (1-in-one-million), which USEPA considers to be a *de minimis* level of risk. For carcinogens, risk assessors generally assume that any level of exposure has a finite possibility of causing cancer. As stated previously, the HHRA incorporates the cancer toxicity value (known as the inhalation unit risk or 'IUR') into the USEPA and CalEPA risk-based concentrations used in this assessment.

6.5.2.2 Non-Cancer Hazards

To be health-protective, the HHRA based non-cancer risk evaluations on the noncancer air risk-based concentrations, as **Section 6.5.3** describes below. These values incorporate reference values that are health-protective for inhalation exposures (referred to as the reference concentration [RfC]). These reference values are estimates of a daily exposure to the human population (including sensitive subgroups) that USEPA considers to be without an appreciable risk of deleterious effects during a lifetime of exposure. Reference values are not exact or absolute thresholds above which health effects are expected in many, most, or all exposed

individuals. Rather, reference values represent a level of exposure using a margin of safety above which the potential for health effects to occur begins to increase enough that USEPA deems it prudent to consider measures to protect those exposed, especially members of more vulnerable or sensitive sub-populations (e.g., children, the elderly, the infirm).

6.5.3 Air, Soil Gas, Groundwater and Soil RBCs

This HHRA used USEPA RSLs and CalEPA DTSC-SLs for the air and soil RBCs as the basis for all receptors. These RBCs incorporate the latest toxicity values and latest exposure parameters from these agencies. The more stringent of the USEPA and CalEPA values was used to evaluate the potential cancer and non-cancer hazards. **Table 6-3a**, **Table 6-3b**, and **Table 6-3c** list the air RBCs for the commercial/industrial, construction worker[3], and residential receptors, respectively.

Soil gas sampling events were conducted in April 2013 (SG1 through SG18), April/May 2014 (SG19 through SG43), and April 2017 (SG44 through SG47). These sampling rounds involved collection of soil gas samples from depths of 5, 15, 25, and 35 ft bgs. At the direction of USEPA, given their understanding and interpretation of the vapor intrusion pathway for this site, the HHRA calculated soil gas RBCs for all soil gas COPC sample depths and receptors by assuming an attenuation factor of 0.03. That is, concentrations in indoor air for the commercial/industrial and residential receptors and in trench air for the construction worker receptor were assumed to be 33 times lower than those detected in the subsurface regardless of depth, soil type, and COPC. **Table 6-4** lists the soil gas RBCs for the commercial/industrial, construction worker, and residential receptors.

The most recent round of groundwater samples was collected in July and September of 2016. Several SAIA designated wells associated with the Los Angeles Unified School District parcel to

[3] The air RBCs for the construction worker are based on the commercial/industrial air RBCs. Specifically, the HHRA calculated construction worker RBCs by adjusting the commercial cancer RBCs upward by a factor of 25 given the 25-fold shorter exposure duration, and downward by a factor of 2 to account for the 2-fold higher inhalation rate associated with the IUR. No adjustment is made for the non-cancer RBCs and chronic toxicity criteria – as opposed to subchronic toxicity criteria – conservatively used for this comparatively short-term (1-year) receptor.

the south[4] were sampled in both months. The depth to groundwater is consistently on the order of 60 ft bgs. At the direction of USEPA, given their understanding and interpretation of the vapor intrusion pathway for this site, the HHRA calculated soil gas RBCs for all groundwater COPCs, depths, and receptors by assuming an attenuation factor of 0.001 after correction for COPC-specific Henry's constants to convert groundwater concentrations to soil gas concentrations at the water table. That is, the HHRA assumed concentrations in indoor air for the residential receptor to be 1,000 times lower than soil gas concentrations in equilibrium with groundwater concentrations at the water table regardless of depth and soil type. The residential receptor is the only receptor evaluated using groundwater in accordance with the CSEM. **Table 6-5** lists the groundwater RBCs for residential receptors.

The RI sampling team collected indoor/crawlspace air analytical samples in September 2017[5]. As these are direct measurements at the exposure point, no attenuation factor correction is needed. As such, the air RBCs listed in **Table 6-3a** through **Table 6-3c** are the indoor air RBCs for the various receptors considered in this HHRA.

Finally, **Table 6-6a** and **Table 6-6b** list the soil RBCs for the commercial/industrial and construction worker[6] receptors, respectively.

6.6 RISK CHARACTERIZATION

The last step of the HHRA is the risk characterization. The risk characterization estimates the potential risks to human health posed by the assumed exposure to the COPCs. These risk values are the ILCR (for carcinogenic COPCs only) and the HI for non-cancer health effects. Risk value calculations (i.e., ILCR and HI values) use sample-specific soil gas, indoor/crawlspace air, groundwater, and soil concentrations as summarized in **Table 6-7,** in

[4] These wells include SAIA-MW9A, SAIA-MW9C, SAIA-MW10, SAIA-MW11A, SAIA-MW11B, SAIA-MW12A, SAIA-MW12B, SAIA-MW12C, and SAIA-MW13.

[5] The RI team collected ambient air analytical samples concurrently with indoor air samples in September 2017.

[6] The soil RBCs for the construction worker are the RWQCB ESLs (CalEPA, 2016).

conjunction with the RBCs consistent with the ratio approach set forth in USEPA guidance (USEPA, 2018b).

Eqn. 1:

$$ILCR = RR \times \left(\frac{C_{COPC1}}{RBC_{C,COPC1}} + \frac{C_{COPC2}}{RBC_{C,COPC2}} + \ldots + \frac{C_{COPCn}}{RBC_{C,COPCn}} \right)$$

Eqn. 2:

$$HI = RHQ \times \left(\frac{C_{COPC1}}{RBC_{NC,COPC1}} + \frac{C_{COPC2}}{RBC_{NC,COPC2}} + \ldots + \frac{C_{COPCn}}{RBC_{NC,COPCn}} \right)$$

where:

ILCR	incremental lifetime cancer risk (unitless);
RR	reference incremental lifetime cancer risk (1E-06; unitless);
C_{COPC1}	concentration for first of "n" COPCs (µg/m^3 or mg/kg);
C_{COPC2}	concentration for second of "n" COPCs (µg/m^3 or mg/kg);
C_{COPCn}	concentration for last of "n" COPCs (µg/m^3 or mg/kg);
$RBC_{C,COPC1}$	RBC for cancer endpoint for first of "n" COPCs (µg/m^3 or mg/kg;
$RBC_{C,COPC2}$	RBC for cancer endpoint for second of "n" COPCs (µg/m^3 or mg/kg); and
$RBC_{C,COPCn}$	RBC for cancer endpoint for last of "n" COPCs (µg/m^3 or mg/kg).
HI	hazard index (unitless);
RHQ	reference hazard quotient (1; unitless)[7];
$RBC_{NC,COPC1}$	RBC for non-cancer endpoint for first of "n" COPCs (µg/m^3 or mg/kg);
$RBC_{NC,COPC2}$	RBC for non-cancer endpoint for second of "n" COPCs (µg/m^3 or mg/kg); and
$RBC_{NC,COPCn}$	RBC for non-cancer endpoint for last of "n" COPCs (µg/m^3 or mg/kg).

The concentration ("C_{COPC}") terms in these risk characterization equations are the sample-specific measured concentrations for soil gas, indoor air, and groundwater. For soil, the C_{COPC} terms are average concentrations over the exposure area, which is defined as the trapezoidal-shaped SAIA site for this HHRA. That is, soil samples collected from the ELG Metals site to the north (SB18 and SB36-SB39) and the Union Pacific Railroad right-of-way/Flood Control

[7] The ratios in the parenthetical term of Eq. 2 are referred to as the hazard quotient (HQ).

District easement to the east (SB44-SB47) are not included as they are considered 'off-site'. The average concentration is calculated as the 95% upper confidence level (95% UCL) of the mean concentration of the remaining soil boring locations as calculated using USEPA's guidance and statistical software (USEPA, 2015). This approach results in a 95% UCL for arsenic (5.1 mg/kg) that is less than the background concentration of 12 mg/kg; therefore, arsenic is eliminated as a COPC. In accordance with the CSEM, soil exposures are assessed for the commercial/industrial receptor for soil from 0 to 2 ft bgs and for the construction worker receptor for soil from 0 to 10 ft bgs. For 'non-detect' results for the metals soil COPCs, the laboratory reporting limit was used for the UCL calculations. For the non-metals soil COPCs, a value of 0 was used for the UCL calculations. For the metals soil COPCs, the laboratory reporting limit was used for the UCL calculations.

6.6.1 Commercial/Industrial Receptor

Table 6-8a lists the risk values associated with the inhalation exposure pathway due to predicted vapor intrusion of the soil gas COPCs into indoor air for this future receptor using a default attenuation factor. **Table 6-8b** lists the risk values associated with the soil exposure pathways.

6.6.1.1 Soil Gas COPCs (Vapor Intrusion)

Of the 234 soil gas samples:

- 190 have an ILCR that exceeds the *de minimis* ('risk benchmark') level of 1E-06 (these values are shaded orange or red in the table);
- 68 have an ILCR that exceeds 1E-04, which generally is considered to be the upper bound of the risk management range (these values are shaded red in the table); and
- 44 have an ILCR less than 1E-06 (24 of which had no detectable concentrations of any COPCs);
- The most-frequent risk-driving COPCs for the cancer endpoint are, in order of frequency: TCE (150 samples), PCE (107 samples), benzene (89 samples), vinyl chloride (77 samples), and 1,1-DCA (53 samples);
- 130 have an HI that exceeds the commonly-applied HI benchmark level of 1;
- 104 have an HI equal to or less than 1 (20 of which have no detectable concentrations of any COPCs);
- The most-frequent risk-driving COPCs for the non-cancer endpoint are, in order of frequency: TCE (128 samples), cis-1,2-DCE (79 samples), and vinyl chloride (30 samples).

6.6.1.2 Soil COPCs

Risk values are presented based on both the 95% UCL and maximum concentration for the soil COPCs so the impact of high outliers ('hot spots') is more readily apparent and due to the commonly infrequent detection of non-metal COPCs. As shown in **Table 6-8b**, the risk values associated with the following soil COPCs exceed the *de minimis* ILCR of 1E-06 and/or an HQ of 1 for the future commercial/industrial receptor:

- Cadmium: HQ > 1 for maximum concentration;
- Lead: Soil lead level exceeded for both maximum and 95% UCL concentrations;
- Manganese: HQ > 1 for maximum concentration only;
- Aroclor 1248: ILCR > 1E-06 for both maximum and 95% UCL concentrations;
- Aroclor 1260: ILCR > 1E-06 for maximum concentration; and
- TCE: ILCR > 1E-06 and HQ > 1 for maximum concentration only.

6.6.2 Construction Worker Receptor

Table 6-9a lists the risk values associated with the inhalation exposure pathway due to vapor intrusion of the soil gas COPCs into utility trench air for this future receptor using a default attenuation factor. **Table 6-9b** lists the risk values associated with the soil exposure pathways.

6.6.2.1 Soil Gas COPCs (Vapor Intrusion)

Of the 234 soil gas samples:

- 116 have an ILCR that exceeds the *de minimis* ('risk benchmark') level of 1E-06 (these values are shaded in orange or red in the table);
- 38 have an ILCR that exceeds 1E-04, which generally is considered to be the upper bound of the risk management range (these values are shaded red in the table); and
- 118 have an ILCR less than 1E-06 (24 of which had no detectable concentrations of any COPCs);
- The most-frequent risk-driving COPCs for the cancer endpoint are, in order of frequency: TCE (91 samples), vinyl chloride (56 samples), PCE (34 samples), 1,1-DCA (32 samples), and benzene (11 samples);
- Because the soil gas RBCs and attenuation factor are identical to those used for the commercial/industrial receptor, 130 have an HI that exceeds the commonly-applied HI benchmark level of 1, 104 have an HI equal to or less than 1 (20 of which have no detectable concentrations of any COPCs), and the most-frequent risk-driving COPCs for the non-cancer endpoint are, in order of frequency: TCE (128 samples), cis-1,2-DCE (79 samples), and vinyl chloride (30 samples).

6.6.2.2 Soil COPCs

As for the commercial/industrial receptor, risk values are presented based on both the 95% UCL and maximum concentration for the soil COPCs so the impact of high outliers ('hot spots') is more readily apparent and due to the commonly infrequent detection of non-metal COPCs. As shown in **Table 6-9b**, the risk values associated with the following soil COPCs exceed the *de minimis* ILCR of 1E-06 and/or an HQ of 1 for the future commercial/industrial receptor:

- Cobalt: ILCR > 1E-06 and HQ > 1 for the maximum concentration only;
- Lead: Soil lead level exceeded for both maximum and 95% UCL concentrations;
- Nickel: HQ > 1 for maximum concentration only;
- Aroclor 1248: ILCR > 1E-06 for maximum concentration only; and
- Thallium: HQ > 1 for maximum concentration only.

6.6.3 Indoor Air (Residential Receptor) Risk Values

Risk values associated with the inhalation exposure pathway for indoor air are based on soil gas, indoor air/crawlspace, and groundwater concentrations.

Table 6-10a lists the risk values associated with the inhalation exposure pathway due to predicted vapor intrusion of the soil gas COPCs into indoor air for this receptor using a default attenuation factor. These values are applicable to the current receptor given that they are associated with the 23 soil gas samples collected in the residential area (i.e., those from SG-15, SG-16, SG-17, SG-40, and SG-41):

- 22 have an ILCR that exceeds the *de minimis* ('risk benchmark') level of 1E-06 (these values are shaded orange or red in the table);
- 3 have an ILCR that exceeds 1E-04, which generally is considered to be the upper bound of the risk management range (these values are shaded red in the table); and
- 1 has an ILCR equal to or less than 1E-06;
- The most-frequent risk-driving COPCs for the cancer endpoint are, in order of frequency: TCE (21 samples), PCE (18 samples), benzene (9 samples), 1,1-DCA (1 samples), and vinyl chloride (1 samples);
- 16 have an HI that exceeds the commonly-applied HI benchmark level of 1;
- 7 have an HI equal to or less than 1; and
- The most-frequent risk-driving COPCs for the non-cancer endpoint are, in order of frequency: TCE (16 samples), cis-1,2-DCE (7 samples), PCE (2 samples), and benzene (1 sample).

Table 6-10b lists the risk values associated with the inhalation exposure pathway due to measured COPC concentrations in indoor and crawlspace air[8]. By their very nature, these are applicable solely to the current receptor. Of the 23 indoor air/crawlspace samples:

- All 23 have an ILCR that exceeds the *de minimis* ('risk benchmark') level of 1E-06 (these values are shaded orange in the table);
- None of the 23 samples have an ILCR that exceeds 1E-04, which generally is considered to be the upper bound of the risk management range;
- None of the 23 samples has an ILCR less than 1E-06;
- The most-frequent risk-driving COPCs for the cancer endpoint are, in order of frequency: benzene (all 23 samples), 1,2-DCA (6 samples), ethylbenzene and PCE (2 samples), and naphthalene (1 sample);
- TCE is not a risk driver in any of the samples despite being the most frequent risk driver for the soil gas samples;
- TCE is either not detected or detected at estimated concentrations[9] in the indoor air/crawlspace samples;
- None of the 23 samples have an HI that exceeds the commonly-applied HI benchmark level of 1.

Table 6-10c lists the risk values associated with the inhalation exposure pathway due to predicted vapor intrusion of the groundwater COPCs into indoor air for this receptor using a default attenuation factor. Since all wells are considered here, these values are applicable to both current and future receptors. As noted above, there is no computational difference between the current and future receptors; as such, the risk values are identical for both scenarios. As shown in this table, several wells are screened at depths exceeding 60 ft bgs; therefore, the risk values associated with these deeper wells are likely to significantly be overestimated as the COPCs would have to diffuse upward through the groundwater before reaching the bottom of the vadose zone, where vapor-phase diffusion could then occur. Of the 55 groundwater samples:

- 34 have an ILCR that exceeds the *de minimis* ('risk benchmark') level of 1E-06 (these values are shaded orange in the table);
- 5 have an ILCR that exceeds 1E-04, which generally is considered to be the upper bound of the risk management range (these values are shaded red in the table);
- 21 have an ILCR equal to or less than 1E-06;

[8] Crawlspace air is considered to be equivalent to indoor air for this assessment. That is, a crawlspace-to-indoor air attenuation factor of 1 is assumed.

[9] Estimated ("J flagged") concentrations generally are low concentrations below the laboratory equipment calibration range that lie between the method detection limit and the reporting limit.

- The most-frequent risk-driving COPCs for the cancer endpoint are, in order of frequency: TCE (36 samples), vinyl chloride (11 samples), 1,2-DCA (8 samples), and benzene (4 samples);
- TCE is the most frequent risk driver despite not being a risk driver for any of the indoor air/crawlspace samples;
- PCE is not a risk driver for any of the groundwater samples;
- 13 samples have an HI that exceeds the commonly-applied HI benchmark level of 1 (these values are shaded red in the table);
- 42 have an HI equal to or less than 1;
- The most-frequent risk-driving COPCs for the non-cancer endpoint are, in order of frequency: cis-1,2-DCE (27 samples), TCE (16 samples), and trans-1,2-DCE (1 sample).

The ILCR associated with TCE in those wells within the residential area (i.e., MW-3A,B,C; MW-4A,B,C; and MW-45, MW-46, and MW-47) are as follows:

- MW-3A-C: ILCR ranges from 2E-07 to 3E-03;
- MW-4A-C: ILCR ranges from 0 to 6E-06; and
- MW-45,-46,-47: ILCR ranges from 1E-06 to 5E-05.

Assuming that the measured indoor air/crawlspace air concentrations of TCE are representative of actual conditions, this analysis shows that those calculated using a default attenuation factor may overestimate the ILCR by several orders of magnitude.

6.7 SUMMARY

The risk values for the various receptors are summarized below.

6.7.1 Future Commercial/Industrial Receptor

1. Vapor intrusion of soil gas COPCs and subsequent inhalation of indoor air:
    a. 81% of the samples (190 of 234 samples) exceed the *de minimis* ILCR of 1E-06;
    b. 29% of the samples (68 of 234 samples) exceed the upper bound risk management ILCR of 1E-04;
    c. The risk-drivers for the ILCR values are TCE, PCE, benzene, vinyl chloride, and 1,1-DCA;
    d. 56% of the samples (130 of 234 samples) exceed the risk benchmark HI of 1; and
    e. The risk-drivers for the HI values are TCE, cis-1,2-DCE, and vinyl chloride.
2. Ingestion, dermal contact, and particulate inhalation of soil COPCs:
    a. Cadmium: The maximum concentration exceeds the risk benchmark HI of 1;
    b. Lead: Both the maximum and 95% UCL concentrations exceed the soil lead level;
    c. Manganese: The maximum concentration exceeds the risk benchmark HI of 1 (the 95% UCL concentration does not exceed this benchmark level);
    d. Aroclor 1248: Both the maximum and 95% UCL concentrations exceed the *de minimis* ILCR of 1E-06; and

e. Aroclor 1260: The maximum concentration exceeds the *de minimis* ILCR of 1E-06.

6.7.2 Future Construction Worker Receptor

1. Vapor intrusion of soil gas COPCs and subsequent inhalation of trench air:
    a. 50% of the samples (116 of 234 samples) exceed the *de minimis* ILCR of 1E-06;
    b. 16% of the samples (38 of 234 samples) exceed the upper bound risk management ILCR of 1E-04;
    c. The risk-drivers for the ILCR values are TCE, vinyl chloride, PCE, 1,1-DCA, and benzene;
    d. 56% of the samples (130 of 234 samples) exceed the risk benchmark HI of 1; and
    e. The risk-drivers for the HI values are TCE, cis-1,2-DCE, and vinyl chloride.
2. Ingestion, dermal contact, and particulate inhalation of soil COPCs:
    a. Cobalt: The maximum concentration exceeds the *de minimis* ILCR of 1E-06 and the risk benchmark HI of 1 (the 95% UCL concentration does not exceed these benchmark levels);
    b. Lead: Both the maximum and 95% concentrations exceed the soil lead level;
    c. Nickel: The maximum concentration exceeds the risk benchmark HI of 1 (the 95% UCL concentration does not exceed this benchmark level);
    d. Aroclor 1248: The maximum concentration exceeds the *de minimis* ILCR of 1E-06 (the 95% UCL concentration does not exceed this benchmark level);
    e. Aroclor 1260: The maximum concentration exceeds the *de minimis* ILCR of 1E-06 (the 95% UCL concentration does not exceed this benchmark level); and
    f. Thallium: The maximum concentration exceeds the risk benchmark of 1.

6.7.3 Residential Receptor

1. Current/Future Receptor: Vapor intrusion of soil gas COPCs and subsequent inhalation of indoor air for samples collected in the current residential area south of the former facility parcel:
    a. 96% of the samples (22 of 23 samples) exceed the *de minimis* ILCR of 1E-06;
    b. 13% of the samples (3 of 23 samples) exceed the upper bound risk management ILCR of 1E-04;
    c. The risk-drivers for the ILCR values are TCE, PCE, benzene, 1,1-DCA, and vinyl chloride;
    d. 70% of the samples (16 of 23 samples) exceed the risk benchmark HI of 1; and
    e. The risk-drivers for the HI values are TCE, cis-1,2-DCE, PCE, and benzene.
2. Current Receptor only: Vapor intrusion of crawlspace COPCs and subsequent inhalation of indoor air (and inhalation of the indoor air COPCs) for samples collected in the current residential area south of the former facility parcel:
    a. 100% of the samples (23 of 23 samples) exceed the *de minimis* ILCR of 1E-06;
    b. None of the samples (0 of 23 samples) exceed the upper bound risk management ILCR of 1E-04;
    c. The risk-drivers for the ILCR values are benzene, 1,2-DCA, ethylbenzene, PCE, and naphthalene;

   d. TCE is either not detected or detected at low concentrations such that is not a risk driver in any of the samples despite being detected in, and being the most frequent risk driver for the soil gas samples as noted above and for the groundwater samples as noted below;
   e. None of the samples (0 of 23 samples) exceed the risk benchmark HI of 1.
3. Current/Future Receptor: Vapor intrusion of groundwater COPCs and subsequent inhalation of indoor air for samples collected in the current residential area south of the former facility parcel:
   a. 62% of the samples (34 of 55 samples) exceed the *de minimis* ILCR of 1E-06;
   b. 9% of the samples (5 of 55 samples) exceed the upper bound risk management ILCR of 1E-04;
   c. The risk-drivers for the ILCR values are TCE, vinyl chloride, 1,2-DCA, and benzene;
   d. 24% of the samples (13 of 55 samples) exceed the risk benchmark HI of 1; and
   e. The risk-drivers for the HI values are cis-1,2-DCE, TCE, and trans-1,2-DCE.

6.8 UNCERTAINTY ANALYSIS

Uncertainty is inherent in many aspects of the risk assessment process. Uncertainty generally arises from a lack of knowledge, as well as variability of (1) site conditions and future site use, (2) toxicity and exposure parameters associated with the RBCs, and/or (3) the extent to which an individual may be exposed (if at all) to the chemicals and an individual's response to the exposure. This lack of knowledge means that the risk assessor must make assumptions based on information presented in the scientific literature or on professional judgment. Although some assumptions have a significant scientific basis, many do not. The following sections further discuss the assumptions that introduce the greatest amount of uncertainty, and their effects on the findings of this HHRA. This discussion is qualitative in nature, reflecting the difficulty of quantifying the uncertainty in specific assumptions. In general, the selected assumptions purposely bias the process toward health protection.

6.8.1 Uncertainty Associated with Site Characterization Data

Samples cannot be collected from every possible location and time; therefore, there is always some uncertainty associated with the representativeness of site characterization data. Soil and soil gas analytical samples provided reasonable lateral and vertical spatial coverage of the Site, were generally targeted to known or suspected source areas, and were tested for representative analytical suites given the history of the Site. Accordingly, the relative uncertainty in the site characterization data is low.

6.8.2 Uncertainty Associated with Risk-Based Concentrations

As mentioned earlier, the RBCs are based on toxicity parameters and exposure parameters published by CalEPA and USEPA. A large source of uncertainty in any risk assessment is the limited understanding of toxicity to humans who are exposed to the low concentrations that generally are encountered in the environment. Most toxicity data are from animal studies; these data generally are extrapolated using mathematical models or multiple uncertainty factors to predict what might occur in humans. Sources of conservatism in the toxicity criteria used in this HHRA include:

- the use of conservative (i.e., health-protective) methods and assumptions to extrapolate from high-dose animal studies to predict the possible response in humans at exposure levels far below those administered to animals;
- the assumption that chemicals considered to be carcinogens do not have thresholds (i.e., for all doses greater than zero, some risk is assumed to be present); and
- the fact that epidemiological studies (i.e., human exposure studies) are limited and generally are not considered quantitatively in deriving toxicity values.

The exposure assessment for this HHRA employs an RME scenario, which is defined by USEPA as the highest exposure that reasonably could be expected to occur for a given exposure pathway at a site (USEPA, 1989). To achieve this goal, the RME scenario uses highly conservative exposure assumptions. For example, this HHRA assumes that a future resident receptor is present at home 24 hours per day, 350 days per year, for 26 years. These and other upper-bound, default estimates of exposure (particularly the use of what are highly conservative attenuation factors for TCE given the indoor/crawlspace air data) most likely overestimate the potential health risks associated with the site. Therefore, the likelihood of underestimating exposure and the potential health risks is low.

In aggregate, the toxicological and exposure assumptions lead to overestimates of risk such that the actual risk is unlikely to be higher than the estimated risk. The actual risk could be considerably lower and, in fact, could be zero.

6.8.3 Uncertainty Associated with Risk Characterization

The uncertainties associated with risk characterization are generally the result of the combined uncertainties in the site conditions, exposure assumptions, and toxicity criteria. This HHRA quantified potential health risks for future commercial/industrial workers, construction workers, and current/future residents. Given the conservative nature of the exposure parameters used to

characterize these scenarios, it is highly unlikely that the same receptor would be exposed over the entire duration of the assumed exposure. The HHRA then combined these conservative estimates of exposure with even more conservative estimates of acceptable exposure or carcinogenic potency to estimate the magnitude (non-cancer) or likelihood (cancer) of potential effects.

One source of uncertainty that is unique to risk characterization is the assumption that the total risk associated with exposure to multiple chemicals is equal to the sum of the individual risks for each chemical (i.e., the risks are additive). Other possible interactions include synergism, where the total risk is higher than the sum of the individual risks, and antagonism, where the total risk is lower than the sum of the individual risks. Relatively few data are available regarding potential chemical interactions following environmental exposure to chemical mixtures. Studies carried out of rodents that were given simultaneous doses of multiple chemicals indicated no interactive effects for mixtures of chemicals that affect different target organs (i.e., each chemical acted independently), whereas antagonism was observed for mixtures of chemicals that affect the same target organ, but by different mechanisms (Risk Commission, 1997).

While there are no data on chemical interactions in humans exposed to chemical mixtures at the dose levels typically observed in environmental exposures, animal studies suggest that synergistic effects will not occur at levels of exposure below their individual effect levels (Seed et al., 1995). As exposure levels approach the individual effect levels, a variety of interactions may occur, including additive, synergistic, and antagonistic interactions (Seed et al., 1995). USEPA guidance for risk assessment of chemical mixtures (USEPA, 1986) recommends assuming an additive effect following exposure to multiple chemicals. Subsequent recommendations by other parties, such as the National Research Council (1988) and the Presidential/Congressional Commission on Risk Assessment and Risk Management (Risk Commission, 1997), also have advocated a default assumption of additivity. As currently practiced, risk assessments of chemical mixtures generally sum cancer risks regardless of tumor type and sum non-cancer hazard indices regardless of toxic endpoint or mode of action. Given the available experimental data, this approach likely overestimates potential risks associated with simultaneous exposure to multiple chemicals.

There is also uncertainty as to the origin of various COPCs detected in indoor air at risk levels of concern. Some of the COPCs listed in **Section 6.7** do not appear to be attributable to operations formerly conducted at the SAIA property. Specifically, 1,2-DCA, benzene, and ethylbenzene were detected in most or all outdoor-air samples at concentrations similar to those found in residential indoor air samples, and their presence in indoor air likely reflects the result of outdoor air exchanging with indoor air (see **Section 4.2.3.1**). The COPCs 1,2-DCA, ethylbenzene, and naphthalene were very localized in their occurrence in soil gas, and were not detected at significant concentrations in any of the soil-gas samples collected near the residences, which are located south of the SAIA property; similarly, these compounds are not significant components in the groundwater contaminant plume. The petroleum-associated compounds benzene, ethylbenzene, and naphthalene appear to not be attributable to operations at the SAIA property, but to instead be present in indoor air due to the influx of outdoor air and/or their possible presence in household products.

There is also uncertainty about the origin of PCE in indoor air at the one residence where it was reported at concentrations greater than the RSL. The two crawlspace samples at this residence contained concentrations typical of outdoor (ambient) air, suggesting that the PCE inside the residence most likely originated from a household product present inside the structure, rather than originating from soil-vapor intrusion of site-related compounds. Considering these factors, it appears that the majority of compounds posing risks via indoor air (1,2-DCA, benzene, ethylbenzene, naphthalene, and PCE) are not attributable to operations at the SAIA property.

In summary, these and other assumptions contribute to the overall uncertainty in the results of the HHRA. However, given that the largest sources of uncertainty generally result in overestimates of exposure or risk, it is likely that the non-carcinogenic and carcinogenic risks presented in this HHRA represent conservative estimates of the risks, if any, posed by residual chemicals at the site.

7.0 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

This section summarizes the results and observations from the RI field investigations to identify and evaluate contaminants present at the SAIA Site. This RI identified the contaminants, contaminant sources, fate and transport of contaminants, and associated potential health risks resulting from exposures to soil, soil gas, indoor air, and groundwater containing the COPCs. Following the summary are conclusions and recommendations.

7.1 SUMMARY

7.1.1 Remedial Investigation Activities

The field team carried out RI activities for SAIA from 2013 to 2016, with multiple sampling events conducted separately for soil, soil gas, indoor air, and groundwater media. These field tasks included:

- Using CPT and discrete-depth (Hydropunch) groundwater sampling methods to define the lithology and provide preliminary analytical results to assess the extent of groundwater contamination, and to identify optimal locations for permanent monitoring wells.
- Installing thirteen permanent groundwater monitoring wells, consisting of nine triple-completion wells for the Gaspur Aquifer and four single-completion wells for the Exposition Aquifer, located across the Site based on the preliminary groundwater analytical results obtained from discrete-depth Hydropunch groundwater samples.
- Collecting groundwater samples from a network of 31 wells designed to evaluate the SAIA plume, including the permanent wells installed during the SAIA RI along with 13 selected existing wells that either EPA or the Cooper Drum Cooperating Parties Group installed for the Cooper Drum site investigations. The field team completed sampling of the monitoring wells installed for the SAIA RI and Cooper Drum wells in two to three rounds per well (in four separate events).
- Collecting soil and soil gas samples focused on areas of concern based on operational history at the former manufacturing facility on the SAIA property, and collecting several soil samples from off-site areas a short distance to the east and north as well.
- Collecting a few off-site soil gas samples to the north, east and south, to delineate contamination found along the perimeter of the SAIA property. In the downgradient area, the soil gas sampling extended to Duncan Avenue, approximately 700 feet south from the Southern Avenue property boundary.
- Collecting indoor air, outdoor air, and crawlspace air samples at eight apartments or homes in six buildings located along McCallum Avenue and the alley between

Southern and McCallum avenues, within approximately 500 feet south of the SAIA contaminant source area, to evaluate the existence and extent of vapor intrusion.

7.1.2 Physical Characteristics

Based on CPT profiling, regional studies, and investigations at the Cooper Drum site, the RI team characterized the following physical attributes of the subsurface soils:

- The Bellflower Aquiclude extends from just below the ground surface to a maximum depth of 70 feet bgs. A sandy layer characterized as a perched aquifer consistently occurs at depths between 30 and 40 feet bgs within the Bellflower. The thickness of the sandy layer appears to decrease gradually from the SAIA property to the downgradient area at Aldrich Road.
- The sediments of the three depth intervals of the Gaspur Aquifer are moderately well sorted and consist of predominantly coarse materials (sands and gravels), interbedded with subordinate proportions of finer units (silts and clays) across the Site.
- The stratigraphic contact between the Gaspur and Exposition Aquifers is gradational. This transition is characterized by a predominance of finer sediment types (fine sands, silts and clays) occurring from 100 to 125 feet bgs, below which are the coarse sand and gravels of the Exposition Aquifer.
- The sediment layers of Bellflower Aquiclude and Gaspur Aquifer appear to dip slightly from the SAIA property toward the south (downgradient), conforming with the natural local topography of gentle north-to-south slopes.

7.1.3 Nature and Extent of Contamination

Based on field sampling and analysis of soil, soil gas, air, and groundwater, the RI team characterized the following features of the nature and extent of contaminated media at the Site:

- VOCs in soils are present at significant concentrations beneath the area of the former degreasing area and sumps (contaminant source area) along the northeast side of the former main building on the SAIA property. TCE was the only analyte to exceed industrial screening levels in soil samples collected for the RI.
- Metals contamination in soil, specifically lead, arsenic, and thallium from historical activities, exceeds industrial RSLs (at seven, one, and two locations, respectively). These metals occur mainly in the shallow soils (less than 2.5 feet bgs). Lead, along with the one exceedance of arsenic and one residential RSL exceedance of copper, is present along the northeastern and eastern perimeters of SAIA property, and in isolated areas beneath the former main building. The two thallium exceedances are at widely separated locations at 2 and 35 feet, and are not associated with other contaminants.
- PCBs in soils are present in two main areas within the SAIA property: the area of the former degreasing building, and the area of the former oil recovery building, both near the northeastern corner of the SAIA property. PCB concentrations above industrial RSLs

were mainly limited to shallow soils in the upper 5 feet bgs, but were detected in one sample as deep as 15 feet bgs.

- Considering the most-relevant (shallow) depths of 5 feet bgs, the highest soil-gas analytical concentrations by far are primarily in the northeastern portion of the SAIA property, near the former degreasing building. From that contaminant source area, VOCs in shallow soil gas exceeding RSLs extend throughout the eastern two-thirds of the SAIA property; locally into adjoining southern portions of the ELG Metals facility, near the northern SAIA property boundary; and off-site to the south as far as Duncan Avenue, approximately 700 feet south of the SAIA property boundary.
- Vapor intrusion does not appear to be introducing concentrations of COPCs above the RSLs into residential structures near the SAIA property, based on analytical results from the two sampling rounds at indoor-air sampling locations. The several VOCs that exceeded residential RSLs are likely attributable to exchange with outdoor air, or from household products stored inside the structures, rather than infiltrating upward into the structures from underlying soil gas. PCE concentrations above RSLs are present in one building, however this PCE occurrence appears more likely accounted for by an indoor household source, because the crawlspace samples at this structure had the very low PCE concentrations typical of outdoor air.
- *cis*-DCE, 1,4-D, and TCE were the most widespread contaminants identified in groundwater analyses at concentrations exceeding MCLs or NLs (in the case of 1,4-D) in the SAIA plume.
- The footprint of the VOC plume in groundwater extends from the source area on the SAIA property to 2,800 feet south on Aldrich Road. The portion attributable to the contaminant source on the SAIA property is about 1,100 feet wide, extending from approximately 600 feet east of Atlantic Avenue to the western side of the Los Angeles River channel. The Cooper Drum and Atlantic Avenue plumes border the SAIA plume on its west side.
- Groundwater impacts of VOCs attributable to the SAIA property, mainly as *cis*-DCE, extend vertically at a few locations from the Gaspur Aquifer into the upper Exposition Aquifer, to the maximum investigated depth of 140 feet bgs.
- There are several other groundwater VOC plumes near the SAIA groundwater VOC plume, and they come in contact with and locally commingle with the SAIA plume:
    - The Jervis Webb VOC plume has migrated southward to locations below the SAIA VOC plume, to at least approximately 500 feet south of Southern Avenue. At this point it probably contacts and partly commingles with the SAIA plume. However, from that point onward (south), the SAIA plume dominates the character of the locally commingled Jervis Webb/SAIA plume—based on the fact that, just before their contact, concentrations of total VOCs in the Jervis Webb plume peak at about 800 ug/L, while total VOCs in the SAIA plume peak at about 10,000 ug/L of total VOCs.

  - The Cooper Drum VOC plume appears to contact and likely commingle with the SAIA and Jervis Webb VOC plumes in a relatively narrow interval (on the order of 200 feet)
  - The relatively small LAUSD plume appears to contact the southern end of the SAIA plume in the intermediate and lower Gaspur Aquifer, while commingling may be minimal. The Atlantic Avenue plume is largely separate from the SAIA VOC plume.

- The SAIA VOC plume has proportions of the minor contaminants 1,1-DCA, 1,1-DCE, and 1,4-D at analytical concentrations generally similar to those in the Jervis Webb VOC plume. Using these proportions, one can distinguish both plumes from the Cooper Drum VOC plume, located to the west, which has proportionally higher levels of these compounds than the other two plumes. It appears that the SAIA, Jervis Webb, and Cooper plumes contact each other, but that there is limited commingling of the Cooper Drum plume with these two plumes. The distribution of *cis*-DCE supports this conclusion, because concentrations of *cis*-DCE (generally the most abundant VOC in all three plumes) in groundwater sample analyses from the SAIA and Jervis Webb plumes are notably higher compared to neighboring wells in the Cooper plume.

7.1.4 Contaminant Fate and Transport

7.1.4.1 Soil

- Based on the presence of TCE at high analytical concentrations (>1,000 ug/kg) from the 0.5-foot to 25-foot sampling depths in boring SAIA-SB/SG09, and moderate concentrations of TCE and other VOCs at various depths in borings SAIA-SB/SG08 and SAIA-SB/SG10, former operators released VOCs in large quantities from the area of the former degreasing building. The high concentrations are either in the form of localized DNAPL retained in pore spaces between soil particles, or as quantities sorbed onto soil particles, or–more likely–a combination of the two. Also present in soil in this area are high analytical concentrations of the TCE degradation daughter product (through reductive dechlorination), cis-DCE. The existence of this degradation pathway is fostered by the continued presence of oxidatively degradable petroleum-associated compounds at moderate concentrations (hundreds to low-thousands of ug/kg) in these same three borings; the microbial respiration produced during degradation of these compounds produces the anoxic conditions that enable reductive dechlorination to proceed. Petroleum-associated compounds were not reported at more than negligible concentrations in soil sample analyses from other locations.
- The other COPCs that exceeded RSLs (in one or more samples) and are apparently attributable to facility operations, such as PCBs, lead, copper (one residential RSL exceedance only), arsenic and thallium in soil sample analyses, are non-volatile and have low aqueous solubility. Thus, they appear to have remained at their sites of release beneath or near the former oil recovery facility (PCBs), and largely in the upper two feet of the subsurface beneath the main building of the former facility on the SAIA property. The metals contamination is most likely associated with the historical operations of screw manufacturing.

7.1.4.2 Soil Gas

- Soil-gas analytical samples have analytical concentrations at levels of concern (greatly exceeding RSLs) in a much wider area than the soil sample analytical detections. The entire eastern portion of the property has analytical concentrations in soil-gas samples that exceed RSLs at one or more depths, generally for several compounds (e.g., cis-DCE, PCE, TCE, 1,1-DCE, 1,1,1-TCA, and/or vinyl chloride). Beneath the contaminant source area, very high (>1,000 ug/m^3) concentrations of TCE and other VOCs are present starting at shallow depths (5 feet), continuing at high concentrations to the lowest depth sampled (35 feet). Outward from the source area, soil-gas concentrations are notably lower in near-surface intervals, somewhat reducing the potential soil-vapor intrusion threats in those areas.

- TCE degradation daughter products cis-DCE and vinyl chloride are present at up to millions of ug/m^3 in soil-gas analyses from within and near the contaminant source area. These compounds, formed by reductive dechlorination, require anaerobic or strongly reducing conditions to form. Such anaerobic conditions are fostered by petroleum-associated compounds (a carbon source that is degraded by microbes that consume available oxygen) that were probably more abundant in the past, having been used during manufacturing and released along with the chlorinated solvents such as TCE and PCE at the former degreasing building.

7.1.4.3 Groundwater

- The geochemical environment of the SAIA VOC plume is generally reducing, and commonly anoxic. Anoxic conditions are indicated in the majority of the Site's monitoring wells, where D.O. values were less than 1 mg/L and ORP less than -100 mV. Low redox conditions are probably due to (1) pavement covering a large proportion of the ground surface of the largely industrial facilities upgradient and near the SAIA property, which reduces infiltration of oxygen-saturated infiltration, and (2) the presence of petroleum-associated hydrocarbons in the contaminant source area that are labile and thus sustain microbes that respire and serve to deplete the subsurface of oxygen, creating reducing to anoxic conditions.
- SL exceedances for metals in groundwater appear to be either limited in extent (aluminum, lead, and nickel), or ubiquitous and related to the reducing geochemical conditions typical of the surrounding area (arsenic, manganese). Thus, the metal SL exceedances do not represent significant groundwater impacts attributable to the SAIA property.
- Strongly reducing conditions in the groundwater are amenable to reductive dechlorination, the bacterially-mediated process that can remove chlorine from PCE, TCE, and other chlorinated VOCs. Reductive dechlorination likely accounts for the fact that PCE, abundant in soil-gas analyses on the property, is nearly absent from groundwater analytical samples throughout the SAIA plume, while TCE concentrations decline in groundwater analytical samples within about 1,200 feet downgradient from the contaminant source area.

- In contrast to TCE, the SAIA plume of *cis*-DCE does not appear to be attenuating significantly, based both on its greater downgradient extent and the fact that its primary degradation product, vinyl chloride, was detected seldom and at low analytical concentrations. These patterns for TCE and cis-DCE are consistent with observations reported for both the Cooper Drum and Jervis Webb sites (Haley and Aldrich, 2018b; Gilbane, 2018). *cis*-DCE has migrated into the upper portion of the Exposition Aquifer, the lowest unit investigated for the RI.
- Contaminant migration rates in groundwater are not well constrained, but a rate of 72 ft/year is a plausible estimate for cis-DCE, considering possible release dates based on site operational history. The migration rate for TCE was calculated as 60 ft/year, but this is likely low because the effects of degradation are not considered. Degradation rates vary according to locations/conditions, and are not well-enough constrained to use to accurately estimate TCE migration rates in groundwater.
- While the timespan of monitoring is not long enough (2-1/2 years) to conclude whether the SAIA groundwater plume is contracting or expanding, monitoring at wells installed for Cooper Drum investigations but located within the SAIA plume suggest some increased downward migration into the lower Gaspur and Exposition Aquifers.

7.1.5 Human Health Risk Assessment (HHRA) and Identification of Site COPCs

The HHRA determined the risk values for various receptors as summarized below.

Future Commercial/Industrial Receptor

- Vapor intrusion of soil gas COPCs and subsequent inhalation of indoor air:
    - 81% of the samples (190 of 234 samples) exceed the de minimis ILCR of 1E-06;
    - 29% of the samples (68 of 234 samples) exceed the upper bound risk management ILCR of 1E-04;
    - The risk-drivers for the ILCR values are TCE, PCE, benzene, vinyl chloride, and 1,1-DCA;
    - 56% of the samples (130 of 234 samples) exceed the risk benchmark HI of 1; and
    - The risk-drivers for the HI values are TCE, cis-1,2-DCE, and vinyl chloride.
- Ingestion, dermal contact, and particulate inhalation of soil COPCs:
    - Cadmium: The maximum concentration exceeds the risk benchmark HI of 1;
    - Lead: Both the maximum and 95% UCL concentrations exceed the soil lead level;
    - Manganese: The maximum concentration exceeds the risk benchmark HI of 1 (the 95% UCL concentration does not exceed this benchmark level);
    - Aroclor 1248: Both the maximum and 95% UCL concentrations exceed the de minimis ILCR of 1E-06; and

- Aroclor 1260: The maximum concentration exceeds the de minimis ILCR of 1E-06.

Future Construction Worker Receptor

- Vapor intrusion of soil gas COPCs and subsequent inhalation of trench air:
  - 50% of the samples (116 of 234 samples) exceed the de minimis ILCR of 1E-06;
  - 16% of the samples (38 of 234 samples) exceed the upper bound risk management ILCR of 1E-04;
  - The risk-drivers for the ILCR values are TCE, vinyl chloride, PCE, 1,1-DCA, and benzene;
  - 56% of the samples (130 of 234 samples) exceed the risk benchmark HI of 1; and
  - The risk-drivers for the HI values are TCE, cis-1,2-DCE, and vinyl chloride.
- Ingestion, dermal contact, and particulate inhalation of soil COPCs:
  - Cobalt: The maximum concentration exceeds the de minimis ILCR of 1E-06 and the risk benchmark HI of 1 (the 95% UCL concentration does not exceed these benchmark levels);
  - Lead: Both the maximum and 95% concentrations exceed the soil lead level;
  - Nickel: The maximum concentration exceeds the risk benchmark HI of 1 (the 95% UCL concentration does not exceed this benchmark level);
  - Aroclor 1248: The maximum concentration exceeds the de minimis ILCR of 1E 06 (the 95% UCL concentration does not exceed this benchmark level);
  - Aroclor 1260: The maximum concentration exceeds the de minimis ILCR of 1E 06 (the 95% UCL concentration does not exceed this benchmark level); and
  - Thallium: The maximum concentration exceeds the risk benchmark of 1.

Residential Receptor

- Current/Future Receptor: Vapor intrusion of soil gas COPCs and subsequent inhalation of indoor air for samples collected in the current residential area south of the former facility parcel:
  - 96% of the samples (22 of 23 samples) exceed the de minimis ILCR of 1E-06;
  - 13% of the samples (3 of 23 samples) exceed the upper bound risk management ILCR of 1E-04;
  - The risk-drivers for the ILCR values are TCE, PCE, benzene, 1,1-DCA, and vinyl chloride;
  - 70% of the samples (16 of 23 samples) exceed the risk benchmark HI of 1; and

  - The risk-drivers for the HI values are TCE, cis-1,2-DCE, PCE, and benzene.

- Current Receptor only: Vapor intrusion of crawlspace COPCs and subsequent inhalation of indoor air (and inhalation of the indoor air COPCs) for samples collected in the current residential area south of the former facility parcel:
  - 100% of the samples (23 of 23 samples) exceed the de minimis ILCR of 1E-06;
  - None of the samples (0 of 23 samples) exceed the upper bound risk management ILCR of 1E-04;
  - The risk-drivers for the ILCR values are benzene, 1,2-DCA, ethylbenzene, PCE, and naphthalene;
  - TCE is either not detected or detected at low concentrations such that is not a risk driver in any of the samples despite being detected in, and being the most frequent risk driver for the soil gas samples as noted above and for the groundwater samples as noted below;
  - None of the samples (0 of 23 samples) exceed the risk benchmark HI of 1.
- Current/Future Receptor: Vapor intrusion of groundwater COPCs and subsequent inhalation of indoor air for samples collected in the current residential area south of the former facility parcel:
  - 62% of the samples (34 of 55 samples) exceed the de minimis ILCR of 1E-06;
  - 9% of the samples (5 of 55 samples) exceed the upper bound risk management ILCR of 1E-04;
  - The risk-drivers for the ILCR values are TCE, vinyl chloride, 1,2-DCA, and benzene;
  - 24% of the samples (13 of 55 samples) exceed the risk benchmark HI of 1; and
  - The risk-drivers for the HI values are cis-1,2-DCE, TCE, and trans-1,2-DCE.

There is unavoidable uncertainty intrinsic to the risk values listed above. Uncertainty generally arises from a lack of sufficiently detailed knowledge, as well as variability of (1) site conditions and future site use, (2) toxicity and exposure parameters associated with the RBCs, and/or (3) the extent to which an individual may be exposed (if at all) to the chemicals and an individual's response to the exposure.

There is also uncertainty as to the origin of various COPCs detected in indoor air at risk levels of concern. In fact, most of the COPCs listed above for risk concerns related to inhalation hazards do not appear to be attributable to operations formerly conducted at the SAIA property. Specifically, 1,2-DCA, benzene, ethylbenzene, naphthalene, and PCE were found to be not likely attributable to former SAIA operations, either because they (1) were detected at similar levels in outdoor air as in indoor air; (2) were not detected in soil gas at any sampling locations near the indoor air detections; or (3) were not detected in crawlspace air samples beneath the indoor air detections.

7.2 CONCLUSIONS

- The widespread presence of VOCs at the SAIA Site is attributable to contamination caused by historical operations at the former facility on the SAIA property. These past operations have impacted the soil, soil gas, and groundwater media. Other contaminants such as metals and PCBs occur locally in soils on the SAIA property only.
- The horizontal and vertical extent of the SAIA VOC plume in groundwater within the Gaspur Aquifer and Exposition Aquifer has been adequately characterized pursuant to the planned RI scope. Some data gaps, however, still exist to fully define the horizontal and vertical extent of the VOC plume in the Exposition Aquifer in the downgradient area, and to determine whether the VOC plume is a threat to water quality in a nearby production well (South Gate Well No. 23) screened starting at 600 feet bgs (i.e., below the bottom of the Exposition Aquifer). Shallower production wells are located at least 0.6 miles upgradient from where the plume enters the Exposition Aquifer.
- Soil analyses indicated contamination with VOCs, mainly TCE and *cis*-DCE, directly beneath the former degreasing building and its sumps, from near-surface to a depth of 35 feet bgs (results greatly exceeded industrial RSLs in some samples down to 25 feet bgs). This area is the contaminant source for the VOC release at the Site.
- TCE, PCE, *cis*-DCE, 1,1-DCA, and VC were the most prevalent VOCs detected in soil gas analyses, and exceeded RSLs in an area much larger than soil RSL exceedances. Laboratory analyses reported one or more of these compounds in samples from the shallowest depth sampled (5 feet bgs) (and the depth of most concern) beneath the entire former SAIA facility buildings, and along the eastern and northern sides of the SAIA property. VOCs in soil gas migrating off the SAIA property were found to extend less than 100 feet north of the property beneath an industrial building, but approximately 500 feet to the south, beneath residential buildings. The off-site VOC exceedances of RSLs are at least a factor of five times less than the levels encountered in the source area.
- Vapor intrusion in residences located above the VOC soil-gas plume does not appear to be occurring at the buildings sampled, based on comparing the results for indoor air, crawlspace air, and soil gas results. Analytical results for indoor air samples indicated some benzene and 1,2-DCA values exceeding RSLs, but these results are due to unrelated sources such as freeways or household products.
- VOCs in groundwater beneath the SAIA Site also originated from the former degreasing area of the former facility. The VOCs TCE and cis-DCE are the two compounds most widespread in the contaminant plume. Other VOCs less widespread, with significantly lower concentrations, include 1,1-DCA, 1,2-DCA, trans-DCE, and VC.
- The center of mass of the groundwater contaminant plume moves downward as it migrates downgradient (south), from the shallow Gaspur Aquifer on the SAIA property, to the Exposition Aquifer at and south of the LAUSD property.
- The SAIA VOC plume is near several other VOC plumes originating from neighboring sites, and may contact and commingle with some of these plumes. These other plumes and their relationship to the SAIA plume are:

1) The Jervis Webb plume: extends beneath the SAIA property in the lower Gaspur and Exposition Aquifers, and slightly commingles with the SAIA plume in the lower Gaspur Aquifer near McCallum Avenue.
2) The Cooper Drum plume: located west of the SAIA plume, and probably commingles marginally with the SAIA plume near the intersection of Adella and Southern Avenues and at points directly to the south, in the intermediate and lower zones of the Gaspur Aquifer.
3) The Atlantic plume: located cross-gradient and about 200 feet west of the SAIA plume at Duncan Way, mainly within the shallow Gaspur Aquifer, it does not appear to contact the SAIA plume.
4) The LAUSD plume: located in the shallow, intermediate, and lower Gaspur near the downgradient portion of the SAIA plume (in the westernmost part of the LAUSD property), and appears to marginally contact the SAIA plume.

- Groundwater data provide strong evidence that anaerobic degradation and reductive dechlorination of VOCs is occurring within the groundwater plume beneath the Site. The high analytical results for cis-DCE downgradient of the Site and relatively low detections of other VOCs suggest that the transformation (through reductive dechlorination) of other VOCs (e.g., PCE and TCE) proceeds relatively easily. However, this dechlorination may be stalling at *cis*-DCE, as has been reported at a number of other VOC groundwater contamination sites (Bradley and Chappelle, 2007).

7.3 RECOMMENDATIONS

This section recommends the next steps to address contamination concerns at the Site:

Soil Gas:

- The industrial-use buildings at ELG Metals and in the first block south of the SAIA property have not yet been sampled to determine whether vapor intrusion is occurring. The RI field team was unable to complete planned sampling at industrial buildings south of the SAIA property due to access issues. This is a data gap in the vapor intrusion evaluation. EPA should also consider a vapor intrusion sampling event at the ELG Metals property.
- The impacts on-property, where soil-gas concentrations are highest, are minimal under current circumstances, due to the site being paved and without any structures. However, redevelopment of the property would likely present risks to the occupants of any future structures on-property, owing to the very high soil-gas VOC concentrations. Any future operator should take this into consideration and conduct or arrange for appropriate sampling of indoor air.

Groundwater:

- Groundwater contaminants at levels of concern (exceeding MCLs) are present in the SAIA VOC plume across an extensive area downgradient (south) of the SAIA property. The contaminant plume extends downward to at least 140 feet bgs in the upper part of the

Exposition Aquifer, at about 2,800 feet south (downgradient) of the contaminant source area. Contamination of the Exposition Aquifer is of concern because it immediately overlies the Gage Aquifer, in which municipal water-supply wells are screened at depths as shallow as 310 and 280 feet (City of South Gate wells 24 and 25, located about 0.4 miles east [hydraulically cross-gradient] of the SAIA property); where the SAIA contaminant plume reaches the Exposition Aquifer, it is about 0.6 miles southwest of these two wells, and is migrating away from them. Other water-supply wells are screened at depths starting at 600 feet, and thus may be too deep to be impacted by Site-derived contaminants, which occur at much shallower depths (shallower than 150 feet). Thus, the SAIA plume likely does not pose a significant threat to the municipal wells. However, at least three new monitoring wells should be advanced into the Exposition Aquifer downgradient and below the current extent of the monitoring network, to determine the extent and depth of contamination in the SAIA plume.

- Collect discrete-depth groundwater samples at four additional groundwater profile borings, collecting groundwater samples every 20 feet beginning at 130 feet bgs down to 230 feet bgs.
- Collect a continuous core of subsurface lithology to define area stratigraphy.
- Following the above data collection and analysis, install additional groundwater monitoring wells to define the horizontal and vertical limits of the cis-1,2-DCE plume within the Exposition Aquifer migrating downgradient from the Site.
- Remedial alternatives should take into account the possible effects of remediation on nearby contaminant plumes, and on current and future uses of the Site and other nearby facilities.

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TABLES

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Table 2-1
Groundwater Monitoring Well Installation Data
Southern Avenue Industrial Area Superfund Site
South Gate, California

Monitoring Well ID	Northing	Easting	Top of Casing (feet msl)	Top of Screen (feet bgs)	Bottom of Screen (feet bgs)
SAIA-MW10	1800992.94	6507504.81	97.38	128	138
SAIA-MW11A	1800660.89	6507020.24	97.78	74	79
SAIA-MW11B	1800660.89	6507020.24	97.88	96	106
SAIA-MW11C	1800660.89	6507020.24	97.85	116	121
SAIA-MW12A	1800103.57	6507403.62	96.51	70	80
SAIA-MW12B	1800103.57	6507403.62	96.53	94	99
SAIA-MW12C	1800103.57	6507403.62	96.51	110	115
SAIA-MW13	1800104.7	6507389.77	96.6	128	138
SAIA-MW1A	1802835.8	6508007.66	104.92	60	65
SAIA-MW1B	1802835.8	6508007.66	104.76	75	85
SAIA-MW1C	1802835.8	6508007.66	104.71	94	104
SAIA-MW2A	1802791.74	6507926.09	104.76	60	65
SAIA-MW2B	1802791.74	6507926.09	104.75	76	86
SAIA-MW2C	1802791.74	6507926.09	104.76	96	106
SAIA-MW3A	1802347.53	6507982.62	102.12	58	68
SAIA-MW3B	1802347.53	6507982.62	102.1	76	86
SAIA-MW3C	1802347.53	6507982.62	102.12	96	106
SAIA-MW4A	1801997.48	6507983.98	100.89	58	68
SAIA-MW4B	1801997.48	6507983.98	101.04	74	84
SAIA-MW4C	1801997.48	6507983.98	100.86	92	102
SAIA-MW5A	1801648.05	6507783.8	99.84	58	68
SAIA-MW5B	1801648.05	6507783.8	99.91	76	86
SAIA-MW5C	1801648.05	6507783.8	99.84	96	106
SAIA-MW6A	1801560.92	6508477.6	100.34	58	68
SAIA-MW6B	1801560.92	6508477.6	100.1	76	81
SAIA-MW6C	1801560.92	6508477.6	100.19	90	100
SAIA-MW7	1802778.32	6507931.05	104.64	122	132
SAIA-MW8	1801659.23	6507681.99	100.15	124	134
SAIA-MW9A	1800995.07	6507491.13	97.51	55	60
SAIA-MW9B	1800995.07	6507491.13	97.41	73	78
SAIA-MW9C	1800995.07	6507491.13	97.59	94	104

Notes:

msl - mean sea level

bgs - below ground surface

Survey Coordinates in NAD_1983; StatePlane; California V FIPS 0405 Feet

Table 2-2
Groundwater Elevations
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Measurement Point Elevation (feet MSL)	Water Level Measurement Date	Depth to Water from TOC (feet)	Groundwater Elevation (feet MSL)
MW15	104.27	03/27/2014	54.6	49.67
	104.27	07/26/2016	60.02	44.25
	104.27	09/23/2016	60.23	44.04
MW15B	104.71	03/27/2014	54.52	50.19
	104.71	07/26/2016	60.14	44.57
	104.71	09/23/2016	60.38	44.33
MW16	104.67	07/26/2016	64.72	39.95
	104.67	09/23/2016	65.02	39.65
MW24	103.96	03/27/2014	54.08	49.88
	103.96	07/26/2016	59.6	44.36
	103.96	09/23/2016	59.85	44.11
MW25	103.74	03/27/2014	54.02	49.72
	103.74	07/26/2016	59.6	44.14
	103.74	09/23/2016	59.78	43.96
MW25B	103.54	03/27/2014	53.98	49.56
	103.54	07/26/2016	59.62	43.92
	103.54	09/23/2016	59.83	43.71
MW26	103.86	03/27/2014	59.3	44.56
	103.86	09/23/2016	66.22	37.64
MW27	103.6	03/27/2014	54.07	49.53
	103.6	07/26/2016	59.72	43.88
	103.6	09/23/2016	59.88	43.72
MW28	103.53	03/27/2014	54.17	49.36
	103.53	07/26/2016	59.85	43.68
	103.53	09/23/2016	60.09	43.44
MW29	102.95	03/27/2014	53.52	49.43
	102.95	07/26/2016	59.1	43.85
	102.95	09/23/2016	59.4	43.55
MW29A	102.95	03/27/2014	53.44	49.51
	102.95	07/26/2016	58.89	44.06
	102.95	09/23/2016	59.1	43.85
MW30	103.09	03/27/2014	54.23	48.86
	103.09	07/26/2016	60	43.09
	103.09	09/23/2016	60.09	43
MW31	103.3	03/27/2014	53.73	49.57
	103.3	07/26/2016	59.22	44.08
	103.3	09/23/2016	59.53	43.77
MW31A	103.07	03/27/2014	53.23	49.84
	103.07	07/26/2016	58.64	44.43
	103.07	09/23/2016	58.98	44.09
MW31B	103.15	03/27/2014	53.92	49.23
	103.15	07/26/2016	59.5	43.65
	103.15	09/23/2016	59.75	43.4
MW32	103.27	03/27/2014	58.7	44.57
	103.27	07/26/2016	65.33	37.94
	103.27	09/23/2016	65.76	37.51

Table 2-2
Groundwater Elevations
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Measurement Point Elevation (feet MSL)	Water Level Measurement Date	Depth to Water from TOC (feet)	Groundwater Elevation (feet MSL)
MW34	103.24	03/27/2014	53.55	49.69
	103.24	07/26/2016	58.64	44.6
	103.24	09/23/2016	59.06	44.18
MW35	103.25	03/27/2014	53.81	49.44
	103.25	07/26/2016	59.25	44
	103.25	09/23/2016	59.54	43.71
MW36	102.73	03/27/2014	53.3	49.43
	102.73	07/26/2016	58.82	43.91
	102.73	09/23/2016	59.03	43.7
MW37	102.5	03/27/2014	53.4	49.1
	102.5	07/26/2016	58.91	43.59
	102.5	09/23/2016	59.22	43.28
MW38	102.28	03/27/2014	52.89	49.39
	102.28	07/26/2016	58.23	44.05
	102.28	09/23/2016	58.64	43.64
MW39	102.34	03/27/2014	52.99	49.35
	102.34	07/26/2016	58.55	43.79
	102.34	09/23/2016	58.88	43.46
MW40	102.06	03/27/2014	52.81	49.25
	102.06	07/26/2016	58.45	43.61
	102.06	09/23/2016	58.75	43.31
MW41	104.34	03/27/2014	54.67	49.67
	104.34	07/26/2016	60.31	44.03
	104.34	09/23/2016	60.41	43.93
MW42	104.36	03/27/2014	54.4	49.96
	104.36	07/26/2016	60.1	44.26
	104.36	09/23/2016	60.25	44.11
MW43	104.25	03/27/2014	54.3	49.95
	104.25	07/26/2016	59.92	44.33
	104.25	09/23/2016	60.15	44.1
MW44	104.17	03/27/2014	54.3	49.87
	104.17	07/26/2016	60.2	43.97
	104.17	09/23/2016	60.1	44.07
MW45	102.47	03/27/2014	53	49.47
	102.47	07/26/2016	58.49	43.98
	102.47	09/23/2016	58.85	43.62
MW46	101.87	03/27/2014	52.5	49.37
	101.87	07/26/2016	58.14	43.73
	101.87	09/23/2016	58.44	43.43
MW47	101.74	03/27/2014	52.36	49.38
	101.74	07/26/2016	57.93	43.81
	101.74	09/23/2016	58.31	43.43
MW48	101.68	03/27/2014	52.35	49.33
	101.68	07/26/2016	57.95	43.73
	101.68	09/23/2016	58.28	43.4

Table 2-2
Groundwater Elevations
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Measurement Point Elevation (feet MSL)	Water Level Measurement Date	Depth to Water from TOC (feet)	Groundwater Elevation (feet MSL)
MW49	100.53	03/27/2014	51.05	49.48
	100.53	07/26/2016	57.33	43.2
	100.53	09/23/2016	57.58	42.95
MW50	100.65	03/27/2014	51.77	48.88
	100.65	07/26/2016	57.45	43.2
	100.65	09/23/2016	57.73	42.92
MW51	100.64	03/27/2014	51.82	48.82
	100.64	07/26/2016	57.48	43.16
	100.64	09/23/2016	57.75	42.89
MW52	100.77	03/27/2014	51.78	48.99
	100.77	07/26/2016	57.5	43.27
	100.77	09/23/2016	57.7	43.07
MW53	100.73	03/27/2014	51.95	48.78
	100.73	07/26/2016	57.5	43.23
	100.73	09/23/2016	57.81	42.92
MW54	100.88	03/27/2014	52.5	48.38
	100.88	07/26/2016	58.22	42.66
	100.88	09/23/2016	58.25	42.63
MW55	102.57	03/27/2014	57.75	44.82
	102.57	07/26/2016	64.73	37.84
	102.57	09/23/2016	64.75	37.82
MW56	101.73	03/27/2014	52.6	49.13
	101.73	07/26/2016	58.14	43.59
	101.73	09/23/2016	58.46	43.27
MW62A	105.22	03/27/2014	55.13	50.09
	105.22	07/26/2016	60.75	44.47
	105.22	09/23/2016	61.54	43.68
MW62B	105.22	03/27/2014	55.22	50
	105.22	07/26/2016	60.82	44.4
	105.22	09/23/2016	61.6	43.62
PZ7A	105.67	03/27/2014	55.73	49.94
	105.67	07/26/2016	61.34	44.33
	105.67	09/23/2016	61	44.67
PZ7B	105.66	03/27/2014	55.71	49.95
	105.66	07/26/2016	61.42	44.24
	105.66	09/23/2016	61.06	44.6
SAIA-MW1A	104.92	03/27/2014	54.5	50.42
	104.92	08/25/2014	55.65	49.27
	104.92	07/26/2016	61.35	43.57
	104.92	09/23/2016	60.11	44.81
SAIA-MW1B	104.76	03/27/2014	54.6	50.16
	104.76	08/25/2014	55.53	49.23
	104.76	07/26/2016	59.94	44.82
	104.76	09/23/2016	60.22	44.54

Table 2-2
Groundwater Elevations
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Measurement Point Elevation (feet MSL)	Water Level Measurement Date	Depth to Water from TOC (feet)	Groundwater Elevation (feet MSL)
SAIA-MW1C	104.71	03/27/2014	54.6	50.11
	104.71	08/25/2014	55.62	49.09
	104.71	07/26/2016	60	44.71
	104.71	09/23/2016	60.2	44.51
SAIA-MW2A	104.76	03/27/2014	54.5	50.26
	104.76	08/25/2014	55.62	49.14
	104.76	07/26/2016	59.92	44.84
	104.76	09/23/2016	60.3	44.46
SAIA-MW2B	104.75	03/27/2014	54.4	50.35
	104.75	08/25/2014	55.57	49.18
	104.75	07/26/2016	60	44.75
	104.75	09/23/2016	60.28	44.47
SAIA-MW2C	104.76	03/27/2014	54.6	50.16
	104.76	08/25/2014	55.64	49.12
	104.76	07/26/2016	59.93	44.83
	104.76	09/23/2016	60.45	44.31
SAIA-MW3A	102.12	03/27/2014	52.31	49.81
	102.12	08/25/2014	53.5	48.62
	102.12	07/26/2016	58.22	43.9
	102.12	09/23/2016	58.38	43.74
SAIA-MW3B	102.1	03/27/2014	52.29	49.81
	102.1	08/25/2014	53.42	48.68
	102.1	07/26/2016	57.85	44.25
	102.1	09/23/2016	58.18	43.92
SAIA-MW3C	102.12	03/27/2014	53.09	49.03
	102.12	08/25/2014	53.5	48.62
	102.12	07/26/2016	58.65	43.47
	102.12	09/23/2016	58.31	43.81
SAIA-MW4A	100.89	03/27/2014	51.58	49.31
	100.89	08/25/2014	52.56	48.33
	100.89	07/26/2016	57.42	43.47
	100.89	09/23/2016	57.42	43.47
SAIA-MW4B	101.04	03/27/2014	51.54	49.5
	101.04	08/25/2014	52.73	48.31
	101.04	07/26/2016	57.15	43.89
	101.04	09/23/2016	57.55	43.49
SAIA-MW4C	100.86	03/27/2014	51.43	49.43
	100.86	08/25/2014	52.48	48.38
	100.86	07/26/2016	57.02	43.84
	100.86	09/23/2016	53.37	47.49
SAIA-MW5A	99.84	03/27/2014	50.91	48.93
	99.84	08/25/2014	52.19	47.65
	99.84	07/26/2016	56.65	43.19
	99.84	09/23/2016	56.97	42.87

Table 2-2
Groundwater Elevations
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Measurement Point Elevation (feet MSL)	Water Level Measurement Date	Depth to Water from TOC (feet)	Groundwater Elevation (feet MSL)
SAIA-MW5B	99.91	03/27/2014	50.98	48.93
	99.91	08/25/2014	52.28	47.63
	99.91	07/26/2016	56.75	43.16
	99.91	09/23/2016	57.04	42.87
SAIA-MW5C	99.84	03/27/2014	51.06	48.78
	99.84	08/25/2014	52.24	47.6
	99.84	07/26/2016	56.78	43.06
	99.84	09/23/2016	57.07	42.77
SAIA-MW6A	100.34	03/27/2014	51.26	49.08
	100.34	08/25/2014	52.32	48.02
	100.34	07/26/2016	57.5	42.84
	100.34	09/23/2016	57.3	43.04
SAIA-MW6B	100.1	03/27/2014	51.18	48.92
	100.1	08/25/2014	52.38	47.72
	100.1	07/26/2016	57	43.1
	100.1	09/23/2016	57.23	42.87
SAIA-MW6C	100.19	03/27/2014	51.21	48.98
	100.19	08/25/2014	52.6	47.59
	100.19	07/26/2016	57.11	43.08
	100.19	09/23/2016	57.33	42.86
SAIA-MW7	104.64	03/27/2014	59.7	44.94
	104.64	08/25/2014	61.27	43.37
	104.64	07/26/2016	66.62	38.02
SAIA-MW8	100.15	03/27/2014	55.16	44.99
	100.15	08/25/2014	56.5	43.65
	100.15	07/26/2016	61.62	38.53
	100.15	09/23/2016	61.98	38.17
SAIA-MW9A	97.51	07/26/2016	48.15	49.36
	97.51	09/23/2016	48.55	48.96
SAIA-MW9B	97.41	07/26/2016	55.82	41.59
	97.41	09/23/2016	56.1	41.31
SAIA-MW9C	97.59	07/26/2016	55.95	41.64
	97.59	09/23/2016	56.27	41.32
SAIA-MW10	97.38	07/26/2016	59.23	38.15
	97.38	09/23/2016	59.6	37.78
SAIA-MW11A	97.78	07/26/2016	56.52	41.26
	97.78	09/23/2016	56.79	40.99
SAIA-MW11B	97.88	07/26/2016	56.5	41.38
	97.88	09/23/2016	56.9	40.98
SAIA-MW11C	97.85	07/26/2016	58.8	39.05
	97.85	09/23/2016	59.18	38.67
SAIA-MW12A	96.51	07/26/2016	54.71	41.8
	96.51	09/23/2016	55.19	41.32
SAIA-MW12B	96.53	07/26/2016	55.11	41.42
	96.53	09/23/2016	55.16	41.37
SAIA-MW12C	96.51	07/26/2016	56.25	40.26
	96.51	09/23/2016	56.48	40.03
SAIA-MW13	96.6	07/26/2016	58.38	38.22
	96.6	09/23/2016	58.68	37.92

Notes:

MSL - Mean Sea Level

TOC - Top-of-casing

Table 3-1
Vertical Gradients in Gaspur and Exposition Aquifers
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Aquifer	Measurement Point Elevation (feet above MSL)	Water Level Measurement Date	Groundwater Elevation (feet above MSL)	Difference in Water Level	Calculated Potential Vertical Gradient (feet/foot)[1]
SAIA-MW1A	Shallow Gaspur	104.92	07/26/2016	44.42	-0.4	-0.02
SAIA-MW1B	Intermediate Gaspur	104.76	07/26/2016	44.82		
SAIA-MW1C	Lower Gaspur	104.71	07/26/2016	44.71	0.11	0.01
SAIA-MW4A	Shallow Gaspur	100.89	07/26/2016	43.47	-0.42	-0.03
SAIA-MW4B	Intermediate Gaspur	101.04	07/26/2016	43.89		
SAIA-MW4C	Lower Gaspur	100.86	07/26/2016	43.84	0.05	0.00
SAIA-MW11A	Shallow Gaspur	97.78	07/26/2016	41.26	-0.12	-0.01
SAIA-MW11B	Intermediate Gaspur	97.88	07/26/2016	41.38		
SAIA-MW11C	Lower Gaspur	97.85	07/26/2016	39.05	2.33	0.12
SAIA-MW12A	Shallow Gaspur	96.51	07/26/2016	41.8	3.58	0.06
SAIA-MW13	Exposition	96.6	07/26/2016	38.22		
SAIA-MW2C	Lower Gaspur	104.76	07/26/2016	44.83	6.81	0.25
SAIA-MW7	Exposition	104.64	07/26/2016	38.02		
SAIA-MW5C	Lower Gaspur	99.84	07/26/2016	43.09	4.56	0.16
SAIA-MW8	Exposition	100.15	07/26/2016	38.53		
SAIA-MW9C	Lower Gaspur	97.59	07/26/2016	41.64	3.49	0.10
SAIA-MW10	Exposition	97.38	07/26/2016	38.15		
SAIA-MW12C	Lower Gaspur	96.51	07/26/2016	40.26	3.58	0.17
SAIA-MW13	Exposition	96.6	07/26/2016	38.22		

Notes:

MSL - Mean Sea Level

[1] Positive value indicates downward vertical gradient between well pairs.

Table 4-1
Summary of VOCs Detected in Soil
Southern Avenue Industrial Area Superfund Site
South Gate, Los Angeles County, California

Location ID	Sample ID	Sample Date	Sample Type	Sample Depth (feet bgs)	Bottom Sample Depth	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichloroethane	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chloroform
SAIA-SB/SG01	SAIA-SB/SG01-0.5	04/05/2013	N	0.5	1	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
SAIA-SB/SG01	SAIA-SB/SG01-02	04/05/2013	N	2	2.5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<11	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7
SAIA-SB/SG01	SAIA-SB/SG01-05	04/05/2013	N	5	5.5	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<11	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG01	SAIA-SB/SG01-06	04/05/2013	FD	6	6.5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG01	SAIA-SB/SG01-15	04/05/2013	N	15	15.5	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3
SAIA-SB/SG01	SAIA-SB/SG01-25	04/05/2013	N	25	25.5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<11	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7
SAIA-SB/SG01	SAIA-SB/SG01-35	04/05/2013	N	35	35.5	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<12	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8
SAIA-SB/SG02	SAIA-SB/SG02-0.5	04/01/2013	N	0.5	1	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<11	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG02	SAIA-SB/SG02-02	04/01/2013	N	2	2.5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<11	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7
SAIA-SB/SG02	SAIA-SB/SG02-05	04/01/2013	N	5	5.5	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<12	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8
SAIA-SB/SG02	SAIA-SB/SG02-15	04/01/2013	N	15	15.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5
SAIA-SB/SG02	SAIA-SB/SG02-25	04/01/2013	N	25	25.5	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
SAIA-SB/SG02	SAIA-SB/SG02-35	04/01/2013	N	35	35.5	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<11	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG03	SAIA-SB/SG03-0.5	04/01/2013	N	0.5	1	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<12	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8
SAIA-SB/SG03	SAIA-SB/SG03-02	04/01/2013	N	2	2.5	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<12	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG03	SAIA-SB/SG03-03	04/01/2013	FD	3	3.5	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<12	<6	<6	<6	<6	<6	<6	<6
SAIA-SB/SG03	SAIA-SB/SG03-05	04/01/2013	N	5	5.5	<6.1	<6.1	<6.1	<6.1	**4.7 J**	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<12	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG03	SAIA-SB/SG03-15	04/01/2013	N	15	15.5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<11	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG03	SAIA-SB/SG03-25	04/01/2013	N	25	25.5	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<14	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2
SAIA-SB/SG03	SAIA-SB/SG03-35	04/01/2013	N	35	35.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<11	<5.5	<5.5	<5.5	**2.2 J**	<5.5	<5.5	<5.5
SAIA-SB/SG04	SAIA-SB/SG04-0.5	04/01/2013	N	0.5	1	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<12	<6	<6	<6	<6	<6	<6	<6
SAIA-SB/SG04	SAIA-SB/SG04-02	04/01/2013	N	2	2.5	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<13	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
SAIA-SB/SG04	SAIA-SB/SG04-05	04/01/2013	N	5	5.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<15	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5
SAIA-SB/SG04	SAIA-SB/SG04-15	04/01/2013	N	15	15.5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG04	SAIA-SB/SG04-25	04/01/2013	N	25	25.5	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<11	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG04	SAIA-SB/SG04-35	04/01/2013	N	35	35.5	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<9.2	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6
SAIA-SB/SG05	SAIA-SB/SG05-0.5	04/02/2013	N	0.5	1	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<12	<6	<6	<6	<6	<6	<6	<6
SAIA-SB/SG05	SAIA-SB/SG05-02	04/02/2013	N	2	2.5	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<12	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG05	SAIA-SB/SG05-05	04/02/2013	N	5	5.5	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<12	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG05	SAIA-SB/SG05-15	04/02/2013	N	15	15.5	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<12	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG05	SAIA-SB/SG05-25	04/02/2013	N	25	25.5	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<12	<6	<6	<6	<6	<6	<6	<6
SAIA-SB/SG05	SAIA-SB/SG05-35	04/02/2013	N	35	35.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<11	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG06	SAIA-SB/SG06-0.5	04/03/2013	N	0.5	1	<6.2	<6.2	<6.2	<6.2	**1.4 J**	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	**54**	<6.2	<6.2	<6.2	<6.2	<6.2	**0.95 J**	<6.2
SAIA-SB/SG06	SAIA-SB/SG06-02	04/03/2013	N	2	2.5	<5.3	<5.3	<5.3	<5.3	**0.85 J**	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	**22**	<5.3	**1 J**	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG06	SAIA-SB/SG06-05	04/03/2013	N	5	5.5	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	**28**	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6
SAIA-SB/SG06	SAIA-SB/SG11-06	04/03/2013	FD	6	6.5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<11	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7
SAIA-SB/SG06	SAIA-SB/SG06-15	04/03/2013	N	15	15.5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<11	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG06	SAIA-SB/SG06-25	04/03/2013	N	25	25.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5
SAIA-SB/SG06	SAIA-SB/SG06-35	04/03/2013	N	35	35.5	<6	<6	<6	<6	**0.93 J**	<6	<6	<6	<6	<6	<6	<12	<6	**1.2 J**	<6	<6	<6	<6	<6
SAIA-SB/SG07	SAIA-SB/SG07-0.5	04/02/2013	N	0.5	1	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<11	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG07	SAIA-SB/SG07-02	04/02/2013	N	2	2.5	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
SAIA-SB/SG07	SAIA-SB/SG07-05	04/02/2013	N	5	5.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5
SAIA-SB/SG07	SAIA-SB/SG07-15	04/02/2013	N	15	15.5	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<11	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG07	SAIA-SB/SG07-25	04/02/2013	N	25	25.5	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<12	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG07	SAIA-SB/SG07-35	04/02/2013	N	35	35.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<11	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG08	SAIA-SB/SG08-0.5	04/03/2013	N	0.5	1	<5.5	<5.5	<5.5	<5.5	**8.2**	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<11	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG08	SAIA-SB/SG08-02	04/03/2013	FD	2	2.5	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<13	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
SAIA-SB/SG08	SAIA-SB/SG08-05	04/03/2013	N	5	5.5	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<8.9	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4

Table 4-1
Summary of VOCs Detected in Soil
Southern Avenue Industrial Area Superfund Site
South Gate, Los Angeles County, California

Location ID	Sample ID	Sample Date	Sample Type	Sample Depth (feet bgs)	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Cyclohexane	Ethylbenzene	Isopropylbenzene (Cumene)	m,p-Xylene	Methyl Acetate	Methylcyclohexane	Methylene Chloride	o-Xylene	Styrene	tert-Butyl Methyl Ether (MTBE)	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride
SAIA-SB/SG01	SAIA-SB/SG01-0.5	04/05/2013	N	0.5	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
SAIA-SB/SG01	SAIA-SB/SG01-02	04/05/2013	N	2	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7
SAIA-SB/SG01	SAIA-SB/SG01-05	04/05/2013	N	5	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG01	SAIA-SB/SG01-06	04/05/2013	FD	6	<5.1	<5.1	**1.9 J**	**3 J**	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	**1.5 J**	<5.1	<5.1	<5.1
SAIA-SB/SG01	SAIA-SB/SG01-15	04/05/2013	N	15	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3
SAIA-SB/SG01	SAIA-SB/SG01-25	04/05/2013	N	25	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7
SAIA-SB/SG01	SAIA-SB/SG01-35	04/05/2013	N	35	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8
SAIA-SB/SG02	SAIA-SB/SG02-0.5	04/01/2013	N	0.5	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG02	SAIA-SB/SG02-02	04/01/2013	N	2	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	**4.6 J**	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7
SAIA-SB/SG02	SAIA-SB/SG02-05	04/01/2013	N	5	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8
SAIA-SB/SG02	SAIA-SB/SG02-15	04/01/2013	N	15	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-SB/SG02	SAIA-SB/SG02-25	04/01/2013	N	25	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
SAIA-SB/SG02	SAIA-SB/SG02-35	04/01/2013	N	35	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG03	SAIA-SB/SG03-0.5	04/01/2013	N	0.5	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8
SAIA-SB/SG03	SAIA-SB/SG03-02	04/01/2013	N	2	<5.9	<5.9	<5.9	<5.9	**1.9 J**	**3.1 J**	**4.8 J**	<5.9	<5.9	<5.9	**7.8 J**	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG03	SAIA-SB/SG03-03	04/01/2013	FD	3	<6	<6	<6	<6	**2.1 J**	**2.9 J**	**5 J**	<6	<6	<6	**8.3 J**	<6	<6	<6	**2 J**	<6	<6	<6	<6	<6
SAIA-SB/SG03	SAIA-SB/SG03-05	04/01/2013	N	5	<6.1	**5.9 J**	<6.1	<6.1	**7.6 J**	**11 J**	**25 J**	<6.1	**4.3 J**	<6.1	**34 J**	<6.1	<6.1	<6.1	**3.2 J**	<6.1	<6.1	**2.3 J**	<6.1	<6.1
SAIA-SB/SG03	SAIA-SB/SG03-15	04/01/2013	N	15	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	**5.7**	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG03	SAIA-SB/SG03-25	04/01/2013	N	25	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2
SAIA-SB/SG03	SAIA-SB/SG03-35	04/01/2013	N	35	<5.5	**4.6 J**	<5.5	<5.5	**2.4 J**	**3.9 J**	**7**	<5.5	<5.5	<5.5	**10 J**	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	**4.1 J**	<5.5	<5.5
SAIA-SB/SG04	SAIA-SB/SG04-0.5	04/01/2013	N	0.5	<6	<6	<6	<6	<6	<6	<6	**5.3 J**	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
SAIA-SB/SG04	SAIA-SB/SG04-02	04/01/2013	N	2	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
SAIA-SB/SG04	SAIA-SB/SG04-05	04/01/2013	N	5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	**4.3 J**	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5
SAIA-SB/SG04	SAIA-SB/SG04-15	04/01/2013	N	15	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG04	SAIA-SB/SG04-25	04/01/2013	N	25	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG04	SAIA-SB/SG04-35	04/01/2013	N	35	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	**1.5 J**	<4.6	<4.6
SAIA-SB/SG05	SAIA-SB/SG05-0.5	04/02/2013	N	0.5	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
SAIA-SB/SG05	SAIA-SB/SG05-02	04/02/2013	N	2	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG05	SAIA-SB/SG05-05	04/02/2013	N	5	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG05	SAIA-SB/SG05-15	04/02/2013	N	15	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG05	SAIA-SB/SG05-25	04/02/2013	N	25	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
SAIA-SB/SG05	SAIA-SB/SG05-35	04/02/2013	N	35	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG06	SAIA-SB/SG06-0.5	04/03/2013	N	0.5	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG06	SAIA-SB/SG06-02	04/03/2013	N	2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	**5.7**	**0.98 J**	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG06	SAIA-SB/SG06-05	04/03/2013	N	5	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	**2.8 J**	<6.6	<6.6	<6.6	**2.1 J**	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6
SAIA-SB/SG06	SAIA-SB/SG11-06	04/03/2013	FD	6	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	**1 J**	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7
SAIA-SB/SG06	SAIA-SB/SG06-15	04/03/2013	N	15	**2.5 J**	**120**	<5.4	<5.4	<5.4	<5.4	<5.4	**3.7 J**	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG06	SAIA-SB/SG06-25	04/03/2013	N	25	<5	<5	<5	<5	<5	<5	<5	<5	<5	**23**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-SB/SG06	SAIA-SB/SG06-35	04/03/2013	N	35	<6	<6	<6	<6	<6	<6	<6	**7.9**	**1.1 J**	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
SAIA-SB/SG07	SAIA-SB/SG07-0.5	04/02/2013	N	0.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG07	SAIA-SB/SG07-02	04/02/2013	N	2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
SAIA-SB/SG07	SAIA-SB/SG07-05	04/02/2013	N	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-SB/SG07	SAIA-SB/SG07-15	04/02/2013	N	15	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG07	SAIA-SB/SG07-25	04/02/2013	N	25	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG07	SAIA-SB/SG07-35	04/02/2013	N	35	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG08	SAIA-SB/SG08-0.5	04/03/2013	N	0.5	<5.5	**34**	<5.5	<5.5	**4.2 J**	**2.2 J**	**15**	<5.5	**2.7 J**	<5.5	**11**	<5.5	<5.5	**2.6 J**	**4.6 J**	<5.5	**2 J**	<5.5	<5.5	<5.5
SAIA-SB/SG08	SAIA-SB/SG08-02	04/03/2013	FD	2	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	**4.9 J**	<6.4	<6.4	<6.4	**3.9 J**	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
SAIA-SB/SG08	SAIA-SB/SG08-05	04/03/2013	N	5	<4.4	**2.4 J**	<4.4	<4.4	**1.5 J**	<4.4	**6.1**	<4.4	<4.4	<4.4	**4.7**	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4

Table 4-1
Summary of VOCs Detected in Soil
Southern Avenue Industrial Area Superfund Site
South Gate, Los Angeles County, California

Location ID	Sample ID	Sample Date	Sample Type	Sample Depth (feet bgs)	Bottom Sample Depth	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichloroethane	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chloroform
SAIA-SB/SG08	SAIA-SB/SG08-06	04/03/2013	FD	6	6.5	<4.9	<4.9	<4.9	<4.9	**1.8 J**	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<9.8	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
SAIA-SB/SG08	SAIA-SB/SG08-15	04/03/2013	N	15	15.5	<6.9	<6.9	<6.9	<6.9	**27**	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<14	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9
SAIA-SB/SG08	SAIA-SB/SG08-25	04/03/2013	N	25	25.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<13	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5
SAIA-SB/SG08	SAIA-SB/SG08-35	04/03/2013	N	35	35.5	<6.6	<6.6	<6.6	**1 J**	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<13	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6
SAIA-SB/SG09	SAIA-SB/SG09-0.5	04/05/2013	N	0.5	1	**240 J**	<54	<54	**110 J**	<54	<54	<54	<54	<54	<54	<54	**260 J**	<54	<54	<54	<54	<54	<54	<54
SAIA-SB/SG09	SAIA-SB/SG09-02	04/05/2013	N	2	2.5	**4.5 J**	<13	<13	**18 J**	<13	<13	<13	<13	<13	<13	<13	**62 J**	<13	<13	<13	<13	<13	<13	<13
SAIA-SB/SG09	SAIA-SB/SG09-05	04/05/2013	N	5	5.5	**13 J**	<14	<14	**16**	**18**	<14	<14	<14	<14	<14	<14	**180**	<14	<14	<14	<14	<14	<14	<14
SAIA-SB/SG09	SAIA-SB/SG09-15	04/05/2013	N	15	15.5	**11 J**	<5.7	<5.7	<5.7	**100 J**	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	**34 J**	<5.7	<5.7	<5.7	<5.7	**0.96 J**	<5.7	<5.7
SAIA-SB/SG09	SAIA-SB/SG09-25	04/05/2013	N	25	25.5	<7.2	<7.2	<7.2	<7.2	**270 J**	**19 J**	<7.2	<7.2	<7.2	<7.2	**4.1 J**	<14	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2
SAIA-SB/SG09	SAIA-SB/SG09-35	04/05/2013	N	35	35.5	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	**1.1 J**	<5.8	<5.8	**26**	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8
SAIA-SB/SG10	SAIA-SB/SG10-0.5	04/05/2013	N	0.5	1	**31**	<25	<25	<25	**7.1 J**	<25	<25	<25	<25	<25	<25	<51	<25	<25	<25	<25	<25	<25	<25
SAIA-SB/SG10	SAIA-SB/SG10-01	04/05/2013	FD	1	1.5	**7.6**	<5.4	<5.4	<5.4	**1.6 J**	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<11	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG10	SAIA-SB/SG10-02	04/05/2013	N	2	2.5	**26**	<7	<7	<7	**9.7 J**	<7	<7	<7	<7	<7	<7	<14	<7	<7	<7	<7	<7	<7	<7
SAIA-SB/SG10	SAIA-SB/SG10-05	04/05/2013	N	5	5.5	**19**	<6.9	<6.9	<6.9	**4.6 J**	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	**31**	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9
SAIA-SB/SG10	SAIA-SB/SG10-15	04/05/2013	N	15	15.5	**59**	<14	<14	<14	**77 J**	<14	<14	<14	<14	<14	<14	<29	<14	<14	<14	<14	<14	<14	<14
SAIA-SB/SG10	SAIA-SB/SG10-25	04/05/2013	N	25	25.5	<6.4	<6.4	<6.4	<6.4	**16**	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<13	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
SAIA-SB/SG10	SAIA-SB/SG10-35	04/05/2013	N	35	35.5	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<12	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG11	SAIA-SB/SG11-0.5	04/03/2013	N	0.5	1	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<11	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG11	SAIA-SB/SG11-02	04/03/2013	N	2	2.5	<5.6	**0.75 J**	**0.71 J**	<5.6	<5.6	<5.6	<5.6	<5.6	**0.76 J**	**0.71 J**	**0.69 J**	<11	<5.6	<5.6	**0.68 J**	<5.6	**0.69 J**	**0.68 J**	<5.6
SAIA-SB/SG11	SAIA-SB/SG11-05	04/03/2013	N	5	5.5	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<11	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG11	SAIA-SB/SG11-15	04/03/2013	N	15	15.5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<11	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG11	SAIA-SB/SG11-25	04/03/2013	N	25	25.5	<5.3	<5.3	**0.75 J**	<5.3	**0.69 J**	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<11	<5.3	**0.76 J**	<5.3	<5.3	**0.72 J**	**0.75 J**	<5.3
SAIA-SB/SG11	SAIA-SB/SG11-35	04/03/2013	N	35	35.5	<5.1	<5.1	**0.8 J**	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB12	SAIA-SB12-0.5	04/02/2013	N	0.5	1	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<11	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB12	SAIA-SB12-02	04/02/2013	N	2	2.5	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<12	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB12	SAIA-SB12-05	04/02/2013	N	5	5.5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<11	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7
SAIA-SB12	SAIA-SB12-15	04/02/2013	N	15	15.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<11	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB12	SAIA-SB12-25	04/02/2013	N	25	25.5	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<12	<6	<6	<6	<6	<6	<6	<6
SAIA-SB12	SAIA-SB12-35	04/02/2013	N	35	35.5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG19	SAIA-SB19-0.5	04/16/2014	N	0.5	0.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<11	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG19	SAIA-SB19-0.6	04/16/2014	FD	0.5	0.5	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<12	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG19	SAIA-SB19-2	04/16/2014	N	2	2	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<11	**0.62 J**	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG19	SAIA-SB19-5	04/16/2014	N	5	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<9.9	<5	<5	<5	<5	<5	<5	<5
SAIA-SB/SG19	SAIA-SB19-6	04/16/2014	FD	5	5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<11	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG19	SAIA-SB19-15	04/16/2014	N	15	15	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<12	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8
SAIA-SB/SG19	SAIA-SB19-25	04/16/2014	N	25	25	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<13	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
SAIA-SB/SG19	SAIA-SB19-35	04/16/2014	N	35	35	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<12	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG21	SAIA-SB21-5	04/18/2014	N	5	5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<11	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG21	SAIA-SB21-15	04/18/2014	N	15	15	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3
SAIA-SB/SG21	SAIA-SB21-16	04/18/2014	FD	15	15	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<12	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8
SAIA-SB/SG21	SAIA-SB21-25	04/18/2014	N	25	25	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<13	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7
SAIA-SB/SG21	SAIA-SB21-35	04/18/2014	N	35	35	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<12	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1

Table 4-1
Summary of VOCs Detected in Soil
Southern Avenue Industrial Area Superfund Site
South Gate, Los Angeles County, California

Location ID	Sample ID	Sample Date	Sample Type	Sample Depth (feet bgs)	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Cyclohexane	Ethylbenzene	Isopropylbenzene (Cumene)	m,p-Xylene	Methyl Acetate	Methylcyclohexane	Methylene Chloride	o-Xylene	Styrene	tert-Butyl Methyl Ether (MTBE)	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride
SAIA-SB/SG08	SAIA-SB/SG08-06	04/03/2013	FD	6	<4.9	**12**	<4.9	<4.9	**2.9 J**	**2.1 J**	**11**	<4.9	<4.9	<4.9	**8.7**	<4.9	<4.9	<4.9	**2.1 J**	<4.9	<4.9	<4.9	<4.9	<4.9
SAIA-SB/SG08	SAIA-SB/SG08-15	04/03/2013	N	15	<6.9	**720 J**	<6.9	<6.9	**54 J**	**55**	**140**	<6.9	<6.9	<6.9	**130**	**3.7 J**	<6.9	**14**	**30**	<6.9	<6.9	**2,000**	<6.9	<6.9
SAIA-SB/SG08	SAIA-SB/SG08-25	04/03/2013	N	25	<6.5	**21**	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5
SAIA-SB/SG08	SAIA-SB/SG08-35	04/03/2013	N	35	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	**18**	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6
SAIA-SB/SG09	SAIA-SB/SG09-0.5	04/05/2013	N	0.5	<54	<54	<54	<54	**96 J**	**89 J**	**190 J**	<54	<54	<54	**170 J**	<54	<54	**330 J**	**57 J**	<54	<54	**32,000 J**	<54	<54
SAIA-SB/SG09	SAIA-SB/SG09-02	04/05/2013	N	2	<13	**32 J**	<13	<13	**13 J**	**12 J**	**34 J**	<13	<13	<13	**31 J**	<13	<13	**50 J**	<13	<13	<13	**4,000 J**	<13	<13
SAIA-SB/SG09	SAIA-SB/SG09-05	04/05/2013	N	5	<14	**430**	<14	**5.4 J**	**8 J**	**8.1 J**	**20 J**	<14	<14	<14	**20 J**	<14	<14	**34 J**	<14	<14	<14	**3,000 J**	<14	<14
SAIA-SB/SG09	SAIA-SB/SG09-15	04/05/2013	N	15	<5.7	**590 J**	<5.7	**2.4 J**	**46 J**	**100 J**	**80 J**	<5.7	<5.7	<5.7	**190 J**	**5.5 J**	<5.7	**34 J**	**31 J**	**2.8 J**	<5.7	**2,700 J**	<5.7	<5.7
SAIA-SB/SG09	SAIA-SB/SG09-25	04/05/2013	N	25	<7.2	**65,000 J**	<7.2	<7.2	**76 J**	**120 J**	**2,600 J**	<7.2	<7.2	<7.2	**280 J**	**8 J**	<7.2	**27 J**	**88 J**	**33 J**	<7.2	**60,000 J**	<7.2	<7.2
SAIA-SB/SG09	SAIA-SB/SG09-35	04/05/2013	N	35	<5.8	**4.8 J**	<5.8	<5.8	<5.8	<5.8	<5.8	**6.3**	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	**26**	<5.8	<5.8
SAIA-SB/SG10	SAIA-SB/SG10-0.5	04/05/2013	N	0.5	<25	**360**	<25	<25	**4 J**	<25	**11 J**	**9.7 J**	<25	<25	**7.9 J**	<25	<25	**19 J**	<25	<25	<25	**480**	<25	<25
SAIA-SB/SG10	SAIA-SB/SG10-01	04/05/2013	FD	1	<5.4	**86**	<5.4	**1.2 J**	**1.1 J**	**0.68 J**	**2.5 J**	<5.4	<5.4	<5.4	**1.9 J**	<5.4	<5.4	**4.1 J**	<5.4	<5.4	<5.4	**120**	<5.4	<5.4
SAIA-SB/SG10	SAIA-SB/SG10-02	04/05/2013	N	2	<7	**1,200 J**	<7	<7	**2.1 J**	**1.3 J**	**5.6 J**	<7	<7	<7	**3.9 J**	<7	<7	**7.4**	<7	<7	<7	**210**	<7	<7
SAIA-SB/SG10	SAIA-SB/SG10-05	04/05/2013	N	5	<6.9	**220**	<6.9	<6.9	**3.2 J**	**1.8 J**	**9.4**	**5.9 J**	<6.9	<6.9	**6.2 J**	<6.9	<6.9	**4.7 J**	<6.9	<6.9	<6.9	**40**	<6.9	<6.9
SAIA-SB/SG10	SAIA-SB/SG10-15	04/05/2013	N	15	<14	**9,900 J**	<14	<14	**4.9 J**	**5.9 J**	**17**	<14	**3 J**	<14	**14**	<14	<14	<14	<14	**4.3 J**	<14	**5.2 J**	<14	<14
SAIA-SB/SG10	SAIA-SB/SG10-25	04/05/2013	N	25	<6.4	<6.4	<6.4	**7.5**	**6 J**	**9.7**	**4 J**	<6.4	**30**	<6.4	**11**	<6.4	<6.4	**4.6 J**	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
SAIA-SB/SG10	SAIA-SB/SG10-35	04/05/2013	N	35	<6.1	**42**	<6.1	<6.1	<6.1	<6.1	<6.1	**5.8 J**	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG11	SAIA-SB/SG11-0.5	04/03/2013	N	0.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	**4.7 J**	**1.1 J**	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG11	SAIA-SB/SG11-02	04/03/2013	N	2	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	**5.1 J**	**1 J**	<5.6	<5.6	<5.6	**0.76 J**	<5.6	<5.6	<5.6	<5.6	<5.6	**0.73 J**	**0.84 J**
SAIA-SB/SG11	SAIA-SB/SG11-05	04/03/2013	N	5	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	**6.4 J**	**1.1 J**	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG11	SAIA-SB/SG11-15	04/03/2013	N	15	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	**0.92 J**	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG11	SAIA-SB/SG11-25	04/03/2013	N	25	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	**0.71 J**	**0.73 J**	<5.3	<5.3	<5.3	**0.75 J**	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG11	SAIA-SB/SG11-35	04/03/2013	N	35	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	**0.97 J**
SAIA-SB12	SAIA-SB12-0.5	04/02/2013	N	0.5	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB12	SAIA-SB12-02	04/02/2013	N	2	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB12	SAIA-SB12-05	04/02/2013	N	5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7
SAIA-SB12	SAIA-SB12-15	04/02/2013	N	15	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB12	SAIA-SB12-25	04/02/2013	N	25	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
SAIA-SB12	SAIA-SB12-35	04/02/2013	N	35	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG19	SAIA-SB19-0.5	04/16/2014	N	0.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG19	SAIA-SB19-0.6	04/16/2014	FD	0.5	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG19	SAIA-SB19-2	04/16/2014	N	2	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG19	SAIA-SB19-5	04/16/2014	N	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-SB/SG19	SAIA-SB19-6	04/16/2014	FD	5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG19	SAIA-SB19-15	04/16/2014	N	15	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8
SAIA-SB/SG19	SAIA-SB19-25	04/16/2014	N	25	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	**1.3 J**	<6.4	**1.5 J**	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
SAIA-SB/SG19	SAIA-SB19-35	04/16/2014	N	35	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG21	SAIA-SB21-5	04/18/2014	N	5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG21	SAIA-SB21-15	04/18/2014	N	15	<6.3	**1.9 J**	<6.3	<6.3	**1.2 J**	<6.3	**4 J**	<6.3	<6.3	<6.3	**1.5 J**	<6.3	<6.3	**1.1 J**	<6.3	<6.3	<6.3	**2.1 J**	<6.3	<6.3
SAIA-SB/SG21	SAIA-SB21-16	04/18/2014	FD	15	<5.8	<5.8	<5.8	<5.8	**0.94 J**	<5.8	**3.3 J**	<5.8	<5.8	<5.8	**1.1 J**	<5.8	<5.8	**0.95 J**	<5.8	<5.8	<5.8	**1.2 J**	<5.8	<5.8
SAIA-SB/SG21	SAIA-SB21-25	04/18/2014	N	25	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7
SAIA-SB/SG21	SAIA-SB21-35	04/18/2014	N	35	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1

Table 4-1
Summary of VOCs Detected in Soil
Southern Avenue Industrial Area Superfund Site
South Gate, Los Angeles County, California

Location ID	Sample ID	Sample Date	Sample Type	Sample Depth (feet bgs)	Bottom Sample Depth	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichloroethane	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chloroform
SAIA-SB/SG22	SAIA-SB22-0.5	04/18/2014	N	0.5	0.5	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<11	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG22	SAIA-SB22-2	04/18/2014	N	2	2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<12	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG22	SAIA-SB22-5	04/18/2014	N	5	5	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<12	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG22	SAIA-SB22-15	04/18/2014	N	15	15	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<11	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG22	SAIA-SB22-25	04/18/2014	N	25	25	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3
SAIA-SB/SG22	SAIA-SB22-35	04/18/2014	N	35	35	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<12	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG24	SAIA-SB24-0.5	04/16/2014	N	0.5	0.5	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
SAIA-SB/SG24	SAIA-SB24-2	04/16/2014	N	2	2	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<11	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG24	SAIA-SB24-5	04/16/2014	N	5	5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<11	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG24	SAIA-SB24-15	04/16/2014	N	15	15	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<12	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG24	SAIA-SB24-25	04/16/2014	N	25	25	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3
SAIA-SB/SG24	SAIA-SB24-35	04/16/2014	N	35	35	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<11	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG26	SAIA-SB26-0.5	04/16/2014	N	0.5	0.5	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	**6.6**	**48**	<5.2	<5.2	<5.2	<10	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
SAIA-SB/SG26	SAIA-SB26-0.6	04/16/2014	FD	0.5	0.5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG26	SAIA-SB26-2	04/16/2014	N	2	2	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<11	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG26	SAIA-SB26-5	04/16/2014	N	5	5	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
SAIA-SB/SG26	SAIA-SB26-15	04/16/2014	N	15	15	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<12	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG26	SAIA-SB26-16	04/16/2014	FD	15	15	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<12	<6	<6	<6	<6	<6	<6	<6
SAIA-SB/SG26	SAIA-SB26-25	04/16/2014	N	25	25	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<12	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG28	SAIA-SB28-5	04/14/2014	N	5	5	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<12	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG28	SAIA-SB28-15	04/14/2014	N	15	15	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3
SAIA-SB/SG28	SAIA-SB28-25	04/14/2014	N	25	25	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<12	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG28	SAIA-SB28-35	04/14/2014	N	35	35	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<12	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG29	SAIA-SB29-0.5	04/16/2014	N	0.5	0.5	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<12	<6	<6	<6	<6	<6	<6	<6
SAIA-SB/SG29	SAIA-SB29-2	04/16/2014	N	2	2	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<11	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG29	SAIA-SB29-5	04/16/2014	N	5	5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<11	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7
SAIA-SB/SG29	SAIA-SB29-6	04/16/2014	FD	5	5	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<12	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG29	SAIA-SB29-15	04/16/2014	N	15	15	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<12	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG29	SAIA-SB29-25	04/16/2014	N	25	25	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<14	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2
SAIA-SB/SG29	SAIA-SB29-35	04/16/2014	N	35	35	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<11	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG30	SAIA-SB30-0.5	04/15/2014	N	0.5	0.5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<11	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7
SAIA-SB/SG30	SAIA-SB30-2	04/15/2014	N	2	2	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<11	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG30	SAIA-SB30-5	04/15/2014	N	5	5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG30	SAIA-SB30-15	04/15/2014	N	15	15	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<14	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9
SAIA-SB/SG30	SAIA-SB30-25	04/15/2014	N	25	25	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<12	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG30	SAIA-SB30-35	04/15/2014	N	35	35	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<9.8	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
SAIA-SB/SG31	SAIA-SB31-0.5	04/15/2014	N	0.5	0.5	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<13	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
SAIA-SB/SG31	SAIA-SB31-2	04/15/2014	N	2	2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<11	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG31	SAIA-SB31-5	04/15/2014	N	5	5	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<12	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG31	SAIA-SB31-15	04/15/2014	N	15	15	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<12	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG31	SAIA-SB31-25	04/15/2014	N	25	25	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<12	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG31	SAIA-SB31-35	04/15/2014	N	35	35	<5.6	<5.6	**1 J**	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<11	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG31	SAIA-SB31-36	04/15/2014	FD	35	35	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<11	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4

Table 4-1
Summary of VOCs Detected in Soil
Southern Avenue Industrial Area Superfund Site
South Gate, Los Angeles County, California

Location ID	Sample ID	Sample Date	Sample Type	Sample Depth (feet bgs)	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Cyclohexane	Ethylbenzene	Isopropylbenzene (Cumene)	m,p-Xylene	Methyl Acetate	Methylcyclohexane	Methylene Chloride	o-Xylene	Styrene	tert-Butyl Methyl Ether (MTBE)	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride
SAIA-SB/SG22	SAIA-SB22-0.5	04/18/2014	N	0.5	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG22	SAIA-SB22-2	04/18/2014	N	2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG22	SAIA-SB22-5	04/18/2014	N	5	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG22	SAIA-SB22-15	04/18/2014	N	15	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG22	SAIA-SB22-25	04/18/2014	N	25	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3
SAIA-SB/SG22	SAIA-SB22-35	04/18/2014	N	35	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG24	SAIA-SB24-0.5	04/16/2014	N	0.5	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
SAIA-SB/SG24	SAIA-SB24-2	04/16/2014	N	2	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG24	SAIA-SB24-5	04/16/2014	N	5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG24	SAIA-SB24-15	04/16/2014	N	15	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG24	SAIA-SB24-25	04/16/2014	N	25	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3
SAIA-SB/SG24	SAIA-SB24-35	04/16/2014	N	35	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG26	SAIA-SB26-0.5	04/16/2014	N	0.5	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
SAIA-SB/SG26	SAIA-SB26-0.6	04/16/2014	FD	0.5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG26	SAIA-SB26-2	04/16/2014	N	2	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG26	SAIA-SB26-5	04/16/2014	N	5	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
SAIA-SB/SG26	SAIA-SB26-15	04/16/2014	N	15	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG26	SAIA-SB26-16	04/16/2014	FD	15	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
SAIA-SB/SG26	SAIA-SB26-25	04/16/2014	N	25	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG28	SAIA-SB28-5	04/14/2014	N	5	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG28	SAIA-SB28-15	04/14/2014	N	15	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3
SAIA-SB/SG28	SAIA-SB28-25	04/14/2014	N	25	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG28	SAIA-SB28-35	04/14/2014	N	35	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG29	SAIA-SB29-0.5	04/16/2014	N	0.5	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
SAIA-SB/SG29	SAIA-SB29-2	04/16/2014	N	2	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG29	SAIA-SB29-5	04/16/2014	N	5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7
SAIA-SB/SG29	SAIA-SB29-6	04/16/2014	FD	5	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	**1.2 J**	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG29	SAIA-SB29-15	04/16/2014	N	15	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG29	SAIA-SB29-25	04/16/2014	N	25	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2
SAIA-SB/SG29	SAIA-SB29-35	04/16/2014	N	35	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG30	SAIA-SB30-0.5	04/15/2014	N	0.5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7
SAIA-SB/SG30	SAIA-SB30-2	04/15/2014	N	2	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG30	SAIA-SB30-5	04/15/2014	N	5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG30	SAIA-SB30-15	04/15/2014	N	15	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9
SAIA-SB/SG30	SAIA-SB30-25	04/15/2014	N	25	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG30	SAIA-SB30-35	04/15/2014	N	35	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
SAIA-SB/SG31	SAIA-SB31-0.5	04/15/2014	N	0.5	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
SAIA-SB/SG31	SAIA-SB31-2	04/15/2014	N	2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG31	SAIA-SB31-5	04/15/2014	N	5	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG31	SAIA-SB31-15	04/15/2014	N	15	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG31	SAIA-SB31-25	04/15/2014	N	25	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG31	SAIA-SB31-35	04/15/2014	N	35	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG31	SAIA-SB31-36	04/15/2014	FD	35	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4

Table 4-1
Summary of VOCs Detected in Soil
Southern Avenue Industrial Area Superfund Site
South Gate, Los Angeles County, California

Location ID	Sample ID	Sample Date	Sample Type	Sample Depth (feet bgs)	Bottom Sample Depth	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichloroethane	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chloroform
SAIA-SB/SG32	SAIA-SB32-0.5	04/15/2014	N	0.5	0.5	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<11	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG32	SAIA-SB32-2	04/15/2014	N	2	2	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG32	SAIA-SB32-5	04/15/2014	N	5	5	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<12	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG32	SAIA-SB32-15	04/15/2014	N	15	15	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<11	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	**13**
SAIA-SB/SG32	SAIA-SB32-25	04/15/2014	N	25	25	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<11	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG32	SAIA-SB32-35	04/15/2014	N	35	35	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG33	SAIA-SB33-0.5	04/15/2014	N	0.5	0.5	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<11	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG33	SAIA-SB33-2	04/15/2014	N	2	2	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<11	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG33	SAIA-SB33-5	04/15/2014	N	5	5	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<11	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	**7.6 J**
SAIA-SB/SG33	SAIA-SB33-15	04/15/2014	N	15	15	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<11	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG33	SAIA-SB33-25	04/15/2014	N	25	25	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<13	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
SAIA-SB/SG33	SAIA-SB33-35	04/15/2014	N	35	35	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	**10 J**
SAIA-SB/SG34	SAIA-SB34-0.5	04/15/2014	N	0.5	0.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<9.9	<5	<5	<5	<5	<5	<5	**8.7**
SAIA-SB/SG34	SAIA-SB34-2	04/15/2014	N	2	2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<12	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG34	SAIA-SB34-5	04/15/2014	N	5	5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<11	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG34	SAIA-SB34-15	04/15/2014	N	15	15	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG34	SAIA-SB34-16	04/15/2014	FD	15	15	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<11	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG34	SAIA-SB34-25	04/15/2014	N	25	25	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<12	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG34	SAIA-SB34-35	04/15/2014	N	35	35	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<11	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG35	SAIA-SB35-0.5	04/18/2014	N	0.5	0.5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<11	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG35	SAIA-SB35-2	04/18/2014	N	2	2	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG35	SAIA-SB35-3	04/18/2014	FD	2	2	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<11	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7
SAIA-SB/SG35	SAIA-SB35-5	04/18/2014	N	5	5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<11	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7
SAIA-SB/SG35	SAIA-SB35-15	04/18/2014	N	15	15	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<12	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG35	SAIA-SB35-25	04/18/2014	N	25	25	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<13	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
SAIA-SB/SG35	SAIA-SB35-35	04/18/2014	N	35	35	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<11	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG36	SAIA-SB36-0.5	04/17/2014	N	0.5	0.5	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<12	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8
SAIA-SB/SG36	SAIA-SB36-2	04/17/2014	N	2	2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5
SAIA-SB/SG36	SAIA-SB36-5	04/17/2014	N	5	5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<11	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG36	SAIA-SB36-15	04/17/2014	N	15	15	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<13	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
SAIA-SB/SG36	SAIA-SB36-25	04/17/2014	N	25	25	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<13	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7
SAIA-SB/SG36	SAIA-SB36-26	04/17/2014	FD	25	25	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<13	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5
SAIA-SB/SG36	SAIA-SB36-35	04/17/2014	N	35	35	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<12	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG37	SAIA-SB37-0.5	04/17/2014	N	0.5	0.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<9.9	<5	<5	<5	<5	<5	<5	<5
SAIA-SB/SG37	SAIA-SB37-2	04/17/2014	N	2	2	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<11	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG37	SAIA-SB37-5	04/17/2014	N	5	5	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<12	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG37	SAIA-SB37-6	04/17/2014	FD	5	5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG37	SAIA-SB37-15	04/17/2014	N	15	15	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<13	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6
SAIA-SB/SG37	SAIA-SB37-25	04/17/2014	N	25	25	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<13	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7
SAIA-SB/SG37	SAIA-SB37-35	04/17/2014	N	35	35	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG38	SAIA-SB38-0.5	04/17/2014	N	0.5	0.5	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<13	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
SAIA-SB/SG38	SAIA-SB38-2	04/17/2014	N	2	2	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1

Table 4-1
Summary of VOCs Detected in Soil
Southern Avenue Industrial Area Superfund Site
South Gate, Los Angeles County, California

Location ID	Sample ID	Sample Date	Sample Type	Sample Depth (feet bgs)	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Cyclohexane	Ethylbenzene	Isopropylbenzene (Cumene)	m,p-Xylene	Methyl Acetate	Methylcyclohexane	Methylene Chloride	o-Xylene	Styrene	tert-Butyl Methyl Ether (MTBE)	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride
SAIA-SB/SG32	SAIA-SB32-0.5	04/15/2014	N	0.5	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG32	SAIA-SB32-2	04/15/2014	N	2	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG32	SAIA-SB32-5	04/15/2014	N	5	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG32	SAIA-SB32-15	04/15/2014	N	15	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG32	SAIA-SB32-25	04/15/2014	N	25	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG32	SAIA-SB32-35	04/15/2014	N	35	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG33	SAIA-SB33-0.5	04/15/2014	N	0.5	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG33	SAIA-SB33-2	04/15/2014	N	2	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG33	SAIA-SB33-5	04/15/2014	N	5	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG33	SAIA-SB33-15	04/15/2014	N	15	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG33	SAIA-SB33-25	04/15/2014	N	25	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
SAIA-SB/SG33	SAIA-SB33-35	04/15/2014	N	35	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG34	SAIA-SB34-0.5	04/15/2014	N	0.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-SB/SG34	SAIA-SB34-2	04/15/2014	N	2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG34	SAIA-SB34-5	04/15/2014	N	5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG34	SAIA-SB34-15	04/15/2014	N	15	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG34	SAIA-SB34-16	04/15/2014	FD	15	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG34	SAIA-SB34-25	04/15/2014	N	25	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG34	SAIA-SB34-35	04/15/2014	N	35	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG35	SAIA-SB35-0.5	04/18/2014	N	0.5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG35	SAIA-SB35-2	04/18/2014	N	2	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG35	SAIA-SB35-3	04/18/2014	FD	2	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7
SAIA-SB/SG35	SAIA-SB35-5	04/18/2014	N	5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7
SAIA-SB/SG35	SAIA-SB35-15	04/18/2014	N	15	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG35	SAIA-SB35-25	04/18/2014	N	25	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
SAIA-SB/SG35	SAIA-SB35-35	04/18/2014	N	35	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG36	SAIA-SB36-0.5	04/17/2014	N	0.5	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8
SAIA-SB/SG36	SAIA-SB36-2	04/17/2014	N	2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-SB/SG36	SAIA-SB36-5	04/17/2014	N	5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG36	SAIA-SB36-15	04/17/2014	N	15	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
SAIA-SB/SG36	SAIA-SB36-25	04/17/2014	N	25	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7
SAIA-SB/SG36	SAIA-SB36-26	04/17/2014	FD	25	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5
SAIA-SB/SG36	SAIA-SB36-35	04/17/2014	N	35	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG37	SAIA-SB37-0.5	04/17/2014	N	0.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-SB/SG37	SAIA-SB37-2	04/17/2014	N	2	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG37	SAIA-SB37-5	04/17/2014	N	5	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG37	SAIA-SB37-6	04/17/2014	FD	5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG37	SAIA-SB37-15	04/17/2014	N	15	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6
SAIA-SB/SG37	SAIA-SB37-25	04/17/2014	N	25	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7
SAIA-SB/SG37	SAIA-SB37-35	04/17/2014	N	35	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG38	SAIA-SB38-0.5	04/17/2014	N	0.5	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
SAIA-SB/SG38	SAIA-SB38-2	04/17/2014	N	2	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1

Table 4-1
Summary of VOCs Detected in Soil
Southern Avenue Industrial Area Superfund Site
South Gate, Los Angeles County, California

Location ID	Sample ID	Sample Date	Sample Type	Sample Depth (feet bgs)	Bottom Sample Depth	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichloroethane	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chloroform
SAIA-SB/SG44	SAIA-SB44-0.5	04/25/2017	N	0	0.5	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<12	<6	<6	<6	<6	<6	<6	<6
SAIA-SB/SG44	SAIA-SB44-2	04/25/2017	N	1	2	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<11	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG44	SAIA-SB44-5	04/25/2017	N	4	5	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<13	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7
SAIA-SB/SG44	SAIA-SB44-15	04/25/2017	N	14	15	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3
SAIA-SB/SG44	SAIA-SB44-25	04/25/2017	N	24	25	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<12	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG44	SAIA-SB44-26	04/25/2017	FD	24	25	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<11	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG44	SAIA-SB44-35	04/25/2017	N	34	35	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<12	<6	<6	<6	<6	<6	<6	<6
SAIA-SB/SG45	SAIA-SB45-0.5	04/25/2017	N	0	0.5	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<15	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3
SAIA-SB/SG45	SAIA-SB45-2	04/25/2017	N	1	2	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<15	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4
SAIA-SB/SG45	SAIA-SB45-5	04/25/2017	N	4	5	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<12	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8
SAIA-SB/SG45	SAIA-SB45-15	04/25/2017	N	14	15	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<14	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8
SAIA-SB/SG45	SAIA-SB45-25	04/25/2017	N	24	25	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<12	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG45	SAIA-SB45-35	04/25/2017	N	34	35	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<12	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG46	SAIA-SB46-0.5	04/26/2017	N	0	0.5	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<18	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9
SAIA-SB/SG46	SAIA-SB46-0.6	04/26/2017	FD	0	0.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<15	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5
SAIA-SB/SG46	SAIA-SB46-2	04/26/2017	N	1	2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
SAIA-SB/SG46	SAIA-SB46-5	04/26/2017	N	4	5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<13	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5
SAIA-SB/SG46	SAIA-SB46-15	04/26/2017	N	14	15	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<11	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG46	SAIA-SB46-25	04/26/2017	N	24	25	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<12	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG46	SAIA-SB46-35	04/26/2017	N	34	35	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<12	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG47	SAIA-SB47-0.5	04/26/2017	N	0	0.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<13	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5
SAIA-SB/SG47	SAIA-SB47-2	04/26/2017	N	1	2	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<12	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG47	SAIA-SB47-3	04/26/2017	FD	1	2	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<14	<7	<7	<7	<7	<7	<7	<7
SAIA-SB/SG47	SAIA-SB47-5	04/26/2017	N	4	5	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<19	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3
SAIA-SB/SG47	SAIA-SB47-15	04/26/2017	N	14	15	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<12	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG47	SAIA-SB47-25	04/26/2017	N	24	25	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<12	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG47	SAIA-SB47-35	04/26/2017	N	34	35	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<13	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5
Screening Criteria																								
RSL for Soil - Residential [1]						1.7E+06 [2]	600	6.7E+06	1,100	3,600	2.3E+05	63,000	24,000	5.3	37	460	6.1E+07	330 [2]	300 [2]	20,000	6,800	7.7E+05	99 [2]	320
RSL for Soil - Industrial [1]						7.3E+06 [2]	2,700	2.8E+07	5,000	16,000	1.0E+06	3.1E+05 [2]	1.1E+05	64	160	2,000	6.7E+08	1,400 [2]	1,300 [2]	87,000	30,000	3.5E+06	430 [2]	1,400

Notes:

All results provided in ug/kg (micrograms per kilogram)

exceeds RSL for Soil -Residential

exceeds RSL for Soil - Industrial

[1] Based on USEPA Regional Screening Levels for Residential and Industrial Soils, Hazard Quotient = 1.0 (EPA RSLs, May 2018).

[2] Based on California-modified RSLs (DTSC, 2018 - Table 1 Screening Levels for Soil, HERO HHRA Note Number 3, DTSC-modified Screening Levels [DTSC-SLs] [June 2018 release date])

-- = Not analyzed

Detected results shown in bold

bgs = Below ground surface

FD = Field duplicate sample results

ID _ Identification number

J = Concentration is estimated

N = Normal sample results

NA = Not available

R = Rejected results

RSL = Regional Screening Level

ug/kg = Micrograms per kilogram

Table 4-1
Summary of VOCs Detected in Soil
Southern Avenue Industrial Area Superfund Site
South Gate, Los Angeles County, California

Location ID	Sample ID	Sample Date	Sample Type	Sample Depth (feet bgs)	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Cyclohexane	Ethylbenzene	Isopropylbenzene (Cumene)	m,p-Xylene	Methyl Acetate	Methylcyclohexane	Methylene Chloride	o-Xylene	Styrene	tert-Butyl Methyl Ether (MTBE)	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride
SAIA-SB/SG44	SAIA-SB44-0.5	04/25/2017	N	0	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
SAIA-SB/SG44	SAIA-SB44-2	04/25/2017	N	1	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG44	SAIA-SB44-5	04/25/2017	N	4	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7
SAIA-SB/SG44	SAIA-SB44-15	04/25/2017	N	14	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3
SAIA-SB/SG44	SAIA-SB44-25	04/25/2017	N	24	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG44	SAIA-SB44-26	04/25/2017	FD	24	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG44	SAIA-SB44-35	04/25/2017	N	34	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
SAIA-SB/SG45	SAIA-SB45-0.5	04/25/2017	N	0	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3
SAIA-SB/SG45	SAIA-SB45-2	04/25/2017	N	1	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4
SAIA-SB/SG45	SAIA-SB45-5	04/25/2017	N	4	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8
SAIA-SB/SG45	SAIA-SB45-15	04/25/2017	N	14	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8
SAIA-SB/SG45	SAIA-SB45-25	04/25/2017	N	24	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG45	SAIA-SB45-35	04/25/2017	N	34	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG46	SAIA-SB46-0.5	04/26/2017	N	0	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9
SAIA-SB/SG46	SAIA-SB46-0.6	04/26/2017	FD	0	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5
SAIA-SB/SG46	SAIA-SB46-2	04/26/2017	N	1	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
SAIA-SB/SG46	SAIA-SB46-5	04/26/2017	N	4	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5
SAIA-SB/SG46	SAIA-SB46-15	04/26/2017	N	14	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG46	SAIA-SB46-25	04/26/2017	N	24	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG46	SAIA-SB46-35	04/26/2017	N	34	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	**7.1**	<5.9	<5.9
SAIA-SB/SG47	SAIA-SB47-0.5	04/26/2017	N	0	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5
SAIA-SB/SG47	SAIA-SB47-2	04/26/2017	N	1	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG47	SAIA-SB47-3	04/26/2017	FD	1	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
SAIA-SB/SG47	SAIA-SB47-5	04/26/2017	N	4	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3
SAIA-SB/SG47	SAIA-SB47-15	04/26/2017	N	14	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG47	SAIA-SB47-25	04/26/2017	N	24	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG47	SAIA-SB47-35	04/26/2017	N	34	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5
Screening Criteria																								
RSL for Soil - Residential [1]					1.1E+05	19,000 [2]	1,800	6.5E+06	5,800	1.9E+06	5.5E+05	2.4E+07 [2]	5.5E+06 [2]	1,900 [2]	6.5E+05	6.0E+06	47,000	590 [2]	1.1E+06 [2]	1.3E+05 [2]	1,800	940	1.2E+06 [2]	8.8 [2]
RSL for Soil - Industrial [1]					4.6E+05	86,000 [2]	8,200	2.7E+07	25,000	9.9E+06	2.4E+06	1.3E+08 [2]	2.3E+07 [2]	24,000 [2]	2.8E+06	3.5E+07	2.1E+05	2,700 [2]	5.4E+06 [2]	6.0E+05 [2]	8,200	6,000	5.4E+06 [2]	150 [2]

Notes:

All results provided in ug/kg (micrograms per kilogram)

exceeds RSL for Soil -Residential

exceeds RSL for Soil - Industrial

[1] Based on USEPA Regional Screening Levels for Residential and Industrial Soils, Hazard Quotient = 1.0 (

[2] Based on California-modified RSLs (DTSC, 2018 - Table 1 Screening Levels for Soil, HERO HHRA Not

-- = Not analyzed

Detected results shown in bold

bgs = Below ground surface

FD = Field duplicate sample results

ID _ Identification number

J = Concentration is estimated

N = Normal sample results

NA = Not available

R = Rejected results

RSL = Regional Screening Level

ug/kg = Micrograms per kilogram

Table 4-2
Summary of SVOC, Metals, and PCBs Detected in Soil
Southern Avenue Industrial Area Superfund Site
South Gate, Los Angeles County, California

				Semivolatiles (in ug/kg)																						
Location ID	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**2-Methylnaphthalene**	**Acenaphthene**	**Anthracene**	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene**	**Benzo(g,h,i)perylene**	**Benzo(k)fluoranthene**	**Biphenyl (Diphenyl)**	**bis(2-Ethylhexyl) Phthalate**	**Carbazole**	**Chrysene**	**Dibenz(a,h)anthracene**	**Dibenzofuran**	**Diethyl Phthalate**	**Dimethyl Phthalate**	**Di-n-Butyl Phthalate**	**Fluoranthene**	**Fluorene**	**Indeno(1,2,3-cd)pyrene**	**Naphthalene**	**Phenanthrene**	**Phenol**	**Pyrene**
SAIA-SB/SG01	04/05/2013	N	0.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG01	04/05/2013	N	2	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	**130 J**	<180	<180	<180	<180	<180	**130 J**
SAIA-SB/SG01	04/05/2013	N	5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG01	04/05/2013	FD	6	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG01	04/05/2013	N	15	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220
SAIA-SB/SG01	04/05/2013	FD	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG01	04/05/2013	N	25	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG01	04/05/2013	N	35	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG02	04/01/2013	N	0.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG02	04/01/2013	N	2	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG02	04/01/2013	N	5	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG02	04/01/2013	N	15	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG02	04/01/2013	N	25	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG02	04/01/2013	N	35	<190	<190	<190	<190	<190	<190	<190	<190	<190	**94 J**	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG03	04/01/2013	N	0.5	**150 J**	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	**78 J**	**95 J**	<200	<200
SAIA-SB/SG03	04/01/2013	N	2	**4,500 J**	**220**	<180	<180	<180	<180	<180	<180	**280**	<180	<180	<180	<180	<180	<180	<180	<180	<180	**720**	<180	**1,500 J**	**1,900 J**	<180	<180
SAIA-SB/SG03	04/01/2013	FD	3	**4,200 J**	**190 J**	<180	<180	<180	<180	<180	<180	**230 J**	<180	<180	<180	<180	<180	<180	<180	<180	<180	**670 J**	<180	**1,400 J**	**1,500 J**	<180	<180
SAIA-SB/SG03	04/01/2013	N	5	**21,000 J**	**560 J**	<220	<220	<220	<220	<220	<220	**1,000 J**	<220	<220	<220	<220	<220	<220	<220	<220	<220	**1,500 J**	<220	**7,300 J**	**3,700 J**	<220	<220
SAIA-SB/SG03	04/01/2013	N	15	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG03	04/01/2013	N	25	**6,500**	<230	<230	<230	<230	<230	<230	<230	**380**	<230	<230	<230	<230	<230	<230	<230	<230	<230	**820**	<230	**2,100**	**2,300**	<230	<230
SAIA-SB/SG03	04/01/2013	N	35	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG04	04/01/2013	N	0.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG04	04/01/2013	N	2	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG04	04/01/2013	N	5	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220
SAIA-SB/SG04	04/01/2013	N	15	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG04	04/01/2013	N	25	<200	<200	<200	<200	<200	<200	<200	<200	<200	**84 J**	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG04	04/01/2013	N	35	<190	<190	<190	<190	<190	<190	<190	<190	<190	**130 J**	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG05	04/02/2013	N	0.5	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG05	04/02/2013	N	2	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG05	04/02/2013	N	5	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG05	04/02/2013	N	15	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG05	04/02/2013	N	25	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG05	04/02/2013	N	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG06	04/03/2013	N	0.5	**1,400**	**120 J**	<190	<190	<190	<190	<190	<190	**98 J**	<190	<190	<190	<190	<190	<190	<190	<190	<190	**250**	<190	**250**	**420**	<190	<190
SAIA-SB/SG06	04/03/2013	N	2	**1,200 J**	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	**230**	<180	**230 J**	**330**	<180	<180
SAIA-SB/SG06	04/03/2013	N	5	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG06	04/03/2013	FD	6	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG06	04/03/2013	N	15	**2,400**	<200	<200	<200	<200	<200	<200	<200	**290**	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	**630**	<200	<200	<200
SAIA-SB/SG06	04/03/2013	N	25	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG06	04/03/2013	N	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG07	04/02/2013	N	0.5	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG07	04/02/2013	N	2	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG07	04/02/2013	N	5	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG07	04/02/2013	N	15	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG07	04/02/2013	N	25	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG07	04/02/2013	N	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG08	04/03/2013	N	0.5	**420**	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	**190**	**2,900 J**	<190	<190
SAIA-SB/SG08	04/03/2013	FD	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG08	04/03/2013	FD	2	**450**	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	**180 J**	**500**	<190	<190
SAIA-SB/SG08	04/03/2013	N	5	**2,100**	<170	<170	<170	<170	<170	<170	<170	**150 J**	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	**680**	**490**	<170	<170
SAIA-SB/SG08	04/03/2013	FD	6	**2,000**	<200	<200	<200	<200	<200	<200	<200	**150 J**	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	**730**	**500**	<200	<200
SAIA-SB/SG08	04/03/2013	N	15	**430**	<200	<200	<200	<200	<200	<200	<200	**170 J**	<200	<200	<200	<200	<200	<200	<200	<200	<200	**170 J**	<200	**340**	**340 J**	<200	<200
SAIA-SB/SG08	04/03/2013	N	25	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG08	04/03/2013	N	35	**2,300**	**240**	<210	<210	<210	<210	<210	<210	**270**	<210	<210	<210	<210	<210	<210	<210	<210	<210	**520**	<210	**520**	**900**	<210	<210
SAIA-SB/SG09	04/05/2013	N	0.5	**2,700**	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	**860**	<180	**810**	**1,300**	<180	<180
SAIA-SB/SG09	04/05/2013	N	2	**1,500**	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG09	04/05/2013	N	5	**2,200**	<190	<190	<190	<190	<190	<190	<190	**170 J**	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	**600**	**490**	<190	<190
SAIA-SB/SG09	04/05/2013	N	15	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG09	04/05/2013	N	25	**110 J**	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	**120 J**	<220	<220

Table 4-2
Summary of SVOC, Metals, and PCBs Detected in Soil
Southern Avenue Industrial Area Superfund Site
South Gate, Los Angeles County, California

				Metals (in mg/kg)																				PCBs (in ug/kg)			
Location ID	Sample Date	Sample Type	Sample Depth (feet bgs)	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Mercury	PCB-1016 (Arochlor 1016)	PCB-1248 (Arochlor 1248)	PCB-1254 (Arochlor 1254)	PCB-1260 (Arochlor 1260)
SAIA-SB/SG01	04/05/2013	N	0.5	**14,000**	<5.8	**2.8**	**130**	**0.34 J**	**0.13 J**	**11,100**	**23.7**	**10.5**	**26.7**	**25,300 J**	**69.6 J**	**7,570**	**355**	**16.4**	**4,570**	<3.44	<0.982	<491	<2.45	**45.3**	**77.3**	**0.078 J**	<36	<36	<36	<36
SAIA-SB/SG01	04/05/2013	N	2	**15,100**	<6.2	**2.8**	**133**	**0.31 J**	**0.1 J**	**8,230**	**27.4**	**11.1**	**23.9**	**27,400 J**	**6.1 J**	**7,940**	**364**	**16.6**	**4,430**	<3.65	<1.04	<522	<2.61	**51**	**72.3**	**0.027 J**	<36	<36	<36	<36
SAIA-SB/SG01	04/05/2013	N	5	**13,600**	<5.2	**1.9**	**118**	**0.32 J**	**0.095 J**	**7,610**	**18.2**	**9.8**	**18.8**	**22,700 J**	**3.9 J**	**7,200**	**325**	**12.3**	**4,020**	<3.07	<0.876	<438	<2.19	**42.5**	**60**	**0.059 J**	<35	<35	<35	<35
SAIA-SB/SG01	04/05/2013	FD	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<34	<34	<34	<34
SAIA-SB/SG01	04/05/2013	N	15	**34,400**	<7.6	**4**	**251**	**1.1**	**0.29 J**	**14,400**	**39.9**	**19.1**	**61.9**	**38,600 J**	**12.4 J**	**14,500**	**502**	**28.9**	**5,490**	<4.49	<1.28	**2,750**	<3.21	**74.8**	**106**	**0.14 J**	<43	<43	<43	<43
SAIA-SB/SG01	04/05/2013	FD	16	**13,200**	<5.2	**1.8**	**120**	**0.3 J**	**0.091 J**	**6,970**	**18.3**	**9.7**	**17.6**	**22,800 J**	**4.4 J**	**7,070**	**325**	**12.2**	**4,000**	<3.07	<0.877	<438	<2.19	**43.3**	**57.9**	**0.026 J**	--	--	--	--
SAIA-SB/SG01	04/05/2013	N	25	**19,800**	<6.2	**3.7**	**203**	**0.45 J**	<0.5	**9,200**	**27.7**	**14.4**	**24.5**	**31,800 J**	**4.2 J**	**11,200**	**567**	**18.9**	**5,720**	<3.66	<1.05	**870**	<2.61	**52.3**	**79.7**	**0.072 J**	<41	<41	<41	<41
SAIA-SB/SG01	04/05/2013	N	35	**7,580**	<5.9	**10.5**	**77.6**	**0.17 J**	<0.4	**3,860**	**9.8**	**5.8**	**8.5**	**15,800 J**	**1.6 J**	**4,430**	**218**	**6**	**2,170**	<3.47	<0.993	<496	<2.48	**28.4**	**33.2**	**0.022 J**	<34	<34	<34	<34
SAIA-SB/SG02	04/01/2013	N	0.5	**15,200**	**2.5 J**	**4.4**	**146**	<0.4	**0.81**	**7,980**	**20.2**	**10.5**	**19.3**	**25,700**	**70.6**	**8,150**	**368**	**13.4**	**5,340**	<3.47	<0.991	**583**	<2.48	**47.9**	**86.3**	**0.1 J**	<35	<35	<35	<35
SAIA-SB/SG02	04/01/2013	N	2	**11,000**	**0.93 J**	**2.3**	**108**	<0.5	**0.59**	**5,580**	**13.9**	**7.7**	**12.8**	**19,900**	**20.4**	**6,030**	**276**	**9.4**	**3,660**	<3.69	<1.05	<527	<2.63	**39.2**	**53.7**	**0.032 J**	<34	<34	<34	<34
SAIA-SB/SG02	04/01/2013	N	5	**25,000**	**1.3 J**	**4.4**	**217**	**0.59**	**1.2**	**13,100**	**32.4**	**15.9**	**29**	**36,600**	**6.3**	**12,500**	**565**	**22.6**	**6,810**	<3.76	<1.08	**632**	<2.69	**69.4**	**92.9**	**0.057 J**	<36	<36	<36	<36
SAIA-SB/SG02	04/01/2013	N	15	**16,200**	**1.5 J**	**3.2**	**163**	<0.5	**0.88**	**8,730**	**22.8**	**11.7**	**20.9**	**27,200**	**41.6**	**9,010**	**412**	**15.3**	**5,290**	<3.89	<1.11	<556	<2.78	**50.9**	**92.7**	**0.038 J**	<40	<40	<40	<40
SAIA-SB/SG02	04/01/2013	N	25	**26,800**	**1.1 J**	**7.6**	**216**	**0.68**	**1.2**	**16,600**	**35.6**	**17.4**	**35.1**	**38,900**	**6.4**	**13,100**	**713**	**24.6**	**5,860**	<3.39	<0.969	**1,750**	<2.42	**65**	**89.7**	**0.078 J**	<39	<39	<39	<39
SAIA-SB/SG02	04/01/2013	N	35	**11,000**	<8.0	**8.3**	**92.9**	<0.6	<0.67	**7,660**	**23.9**	**6.8**	**12.6**	**19,800**	**3.3**	**5,470**	**271**	**9.1**	**2,710**	<4.69	<1.34	<670	<3.35	**37.7**	**46.5**	**0.02 J**	<37	<37	<37	<37
SAIA-SB/SG03	04/01/2013	N	0.5	**11,300**	**2.7 J**	**3.1**	**102**	<0.4	**0.69**	**10,300**	**23.6**	**8.3**	**228**	**20,800**	**94.6**	**5,850**	**280**	**19**	**3,600**	<3.47	<0.991	<496	<2.48	**35.6**	**107**	**0.024 J**	<38	<38	<38	<38
SAIA-SB/SG03	04/01/2013	N	2	**9,640**	**0.98 J**	**2.2**	**86.6**	<0.4	**0.58**	**7,710**	**18.5**	**7**	**13.5**	**19,400**	**4**	**5,140**	**245**	**8.4**	**2,920**	<3.14	<0.898	<449	<2.25	**37.2**	**42.1**	**0.013 J**	<36	<36	<36	<36
SAIA-SB/SG03	04/01/2013	FD	3	**10,000**	**1.3 J**	**2.5**	**88.9**	<0.5	**0.58**	**7,140**	**17.7**	**7**	**15.5**	**18,900**	**3.9**	**5,260**	**250**	**8.7**	**3,000**	<3.54	<1.01	<505	<2.53	**35.4**	**44.5**	**0.012 J**	<36	<36	<36	<36
SAIA-SB/SG03	04/01/2013	N	5	**23,300**	**1.5 J**	**4.5**	**186**	**0.59**	**1.1**	**13,000**	**29.4**	**14.6**	**34.1**	**31,500**	**7.3**	**11,300**	**513**	**21.4**	**5,310**	<3.69	<1.05	**585**	<2.64	**60.7**	**80.8**	**0.028 J**	<41	<41	<41	<41
SAIA-SB/SG03	04/01/2013	N	15	**20,600**	**1.3 J**	**2.7**	**162**	<0.5	**0.89**	**12,800**	**25.6**	**12.1**	**33.2**	**27,900**	**4.4**	**10,000**	**386**	**17.1**	**4,860**	<3.82	<1.09	**1,020**	<2.73	**55**	**71**	**0.036 J**	<40	<40	<40	<40
SAIA-SB/SG03	04/01/2013	N	25	**18,800**	**1.1 J**	**7.2**	**165**	<0.4	**0.79**	**8,520**	**26.3**	**12.1**	**25**	**27,500**	**4.9**	**9,530**	**460**	**18.9**	**4,130**	<3.22	<0.920	**1,060**	<2.30	**47.4**	**66.9**	**0.17 J**	<44	<44	<44	<44
SAIA-SB/SG03	04/01/2013	N	35	**9,910**	**0.69 J**	**7.8**	**91.5**	<0.5	<0.51	**5,060**	**13.2**	**6.7**	**12.1**	**17,400**	**1.8**	**5,270**	**242**	**7.8**	**2,810**	<3.60	<1.03	<514	<2.57	**31.9**	**50**	**0.021 J**	<40	<40	<40	<40
SAIA-SB/SG04	04/01/2013	N	0.5	**15,900**	**2.2 J**	**4.3**	**143**	<0.4	**0.87**	**8,310**	**24.7**	**10.6**	**30.1**	**27,500**	**116**	**9,520**	**702**	**21.9**	**5,150**	<3.14	<0.896	<448	<2.24	**48**	**78.6**	**0.025 J**	<35	<35	<35	<35
SAIA-SB/SG04	04/01/2013	N	2	**11,900**	**0.67 J**	**2.2**	**106**	<0.4	**0.65**	**7,090**	**16.7**	**8.3**	**13.4**	**22,300**	**4.7**	**6,650**	**326**	**11**	**3,630**	<3.34	<0.953	<477	<2.38	**42.5**	**49.8**	**0.027 J**	<35	<35	<35	<35
SAIA-SB/SG04	04/01/2013	N	5	**27,900**	**1.1 J**	**4.7**	**227**	**0.79**	**1.2**	**12,900**	**36.1**	**16.3**	**40.8**	**36,200**	**9**	**12,500**	**693**	**25.1**	**5,280**	<3.93	<1.12	**714**	<2.81	**65.6**	**90.6**	**0.11 J**	<43	<43	<43	<43
SAIA-SB/SG04	04/01/2013	N	15	**19,300**	**1.6 J**	**3.8**	**162**	<0.5	**0.99**	**14,300**	**35.7**	**13.2**	**27.8**	**30,300**	**4.8**	**9,980**	**478**	**26.9**	**4,730**	<4.17	<1.19	**1,690**	<2.98	**59.4**	**75.7**	**0.059 J**	<38	<38	<38	<38
SAIA-SB/SG04	04/01/2013	N	25	**26,300**	**1.5 J**	**13.6**	**236**	**0.64**	**1.4**	**31,300**	**31.2**	**15.3**	**34.7**	**34,500**	**6.6**	**12,600**	**713**	**21.6**	**5,610**	<4.28	<1.22	**1,960**	<3.06	**69.6**	**84.1**	**0.06 J**	<39	<39	<39	<39
SAIA-SB/SG04	04/01/2013	N	35	**8,960**	**0.95 J**	**4.1**	**92**	<0.4	**0.51**	**4,470**	**13.8**	**6.5**	**10.5**	**17,400**	**1.9**	**5,280**	**230**	**7.7**	**2,950**	<3.27	<0.933	<467	<2.33	**31.8**	**63.5**	**0.02 J**	<37	<37	<37	<37
SAIA-SB/SG05	04/02/2013	N	0.5	**14,900**	<6.3	**3.5**	**141**	<0.5	**0.047 J**	**9,660**	**20.2**	**10.3**	**30.5**	**25,100**	**128**	**8,070**	**361**	**13.7**	**5,200**	<3.73	<1.07	<533	<2.67	**45**	**76**	**0.025 J**	<36	<36	<36	<36
SAIA-SB/SG05	04/02/2013	N	2	**9,860**	<5.4	**1.8**	**95.4**	<0.4	<0.46	**5,340**	**11.5**	**6.6**	**11.6**	**17,100**	**4.4**	**5,220**	**231**	**7.6**	**3,270**	<3.20	<0.915	<457	<2.29	**31.1**	**40.8**	**0.034 J**	<35	<35	<35	<35
SAIA-SB/SG05	04/02/2013	N	5	**17,400**	<5.6	**2.9**	**165**	<0.4	**0.054 J**	**9,170**	**22.9**	**12.3**	**22**	**27,000**	**4.6**	**9,390**	**439**	**16**	**5,300**	<3.31	<0.945	<472	<2.36	**51.2**	**71.7**	**0.034 J**	<37	<37	<37	<37
SAIA-SB/SG05	04/02/2013	N	15	**17,500**	<5.6	**2.8**	**127**	<0.4	<0.47	**8,070**	**21.8**	**10.8**	**19.7**	**27,300**	**4.4**	**8,850**	**360**	**14.9**	**4,040**	<3.30	<0.942	**1,470**	<2.35	**49.6**	**63.9**	**0.056 J**	<41	<41	<41	<41
SAIA-SB/SG05	04/02/2013	N	25	**17,100**	<5.9	**4.3**	**164**	<0.4	**0.12 J**	**7,090**	**25.4**	**11.8**	**31.6 J**	**26,400**	**5.7**	**8,540**	**431**	**18.2**	**3,880**	<3.46	<0.988	**1,730**	<2.47	**47.9**	**63.1**	**0.086 J**	<39	<39	<39	<39
SAIA-SB/SG05	04/02/2013	N	35	**7,610**	<6.3	**8.7**	**63.9**	<0.5	<0.53	**4,310**	**9.1**	**5 J**	**8.8 J**	**13,600**	**1.8**	**3,920**	**190**	**5.6**	**1,880**	<3.72	<1.06	**540**	<2.66	**25.6**	**30.8**	**0.024 J**	<35	<35	<35	<35
SAIA-SB/SG06	04/03/2013	N	0.5	**14,600**	<6.4	**2.5**	**130**	<0.5	<0.54	**7,030**	**20.3**	**10.3**	**18.4**	**23,700**	**3.3**	**7,610**	**340**	**13.2**	**4,210**	<3.78	<1.08	<540	<2.70	**44.6**	**59.6**	**0.049 J**	<36	**310**	**320**	<36
SAIA-SB/SG06	04/03/2013	N	2	**15,100**	<4.7	**1.6**	**168**	<0.3	<0.39	**5,940**	**18.4**	**12**	**15.1**	**24,600**	**3.8**	**9,090**	**417**	**13.7**	**5,770**	<2.74	<0.784	<392	<1.96	**45.8**	**67.5**	**0.034 J**	<35	<35	**16 J**	<35
SAIA-SB/SG06	04/03/2013	N	5	**19,800**	<6.5	**4.1**	**170**	<0.5	<0.54	**16,700**	**26.1**	**12.3**	**25.7**	**29,600**	**6.1**	**9,470**	**635**	**17.5**	**4,200**	<3.79	<1.08	<542	<2.71	**54.7**	**69**	**0.069 J**	<39	<39	**3.7 J**	<39
SAIA-SB/SG06	04/03/2013	FD	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<37	<37	<37	<37
SAIA-SB/SG06	04/03/2013	N	15	**20,000**	<7.2	**3.6**	**163**	<0.6	<0.60	**18,100**	**25.2**	**13**	**25.6**	**30,200**	**5.1**	**10,700**	**596**	**17.7**	**5,100**	<4.23	<1.21	<604	<3.02	**54.6**	**75.2**	**0.036 J**	<38	<38	**79**	<38
SAIA-SB/SG06	04/03/2013	N	25	**17,300**	<6.5	**11.2**	**170**	<0.5	<0.55	**8,310**	**31.5**	**14.1**	**32.2**	**30,800**	**7.2**	**10,800**	**534**	**25.2**	**3,940**	<3.83	<1.10	<548	<2.74	**47.9**	**73.9**	**0.14**	<38	<38	<38	<38
SAIA-SB/SG06	04/03/2013	N	35	**11,400**	<4.7	**10.5**	**103**	<0.3	<0.40	**5,290**	**12.9**	**8**	**11.6**	**16,800**	**2.2**	**5,980**	**261**	**9**	**2,940**	<2.77	<0.793	<396	<1.98	**28.7**	**45.9**	**0.038 J**	<35	<35	<35	<35
SAIA-SB/SG07	04/02/2013	N	0.5	**15,900**	<6.1	**2.5**	**144**	<0.5	**0.038 J**	**7,240**	**21.4**	**11.1**	**19.7**	**25,900**	**4.7**	**8,300**	**377**	**14.6**	**5,040**	<3.57	<1.02	<510	<2.55	**47.3**	**66.3**	**0.026 J**	<37	<37	<37	<37
SAIA-SB/SG07	04/02/2013	N	2	**10,600**	<5.3	**2.3**	**102**	<0.4	**0.035 J**	**5,370**	**12.9**	**7.5**	**12.9**	**17,200**	**2.7**	**5,780**	**266**	**9.6**	**3,490**	<3.12	<0.890	<445	<2.23	**30.8**	**45.4**	**0.024 J**	<35	<35	<35	<35
SAIA-SB/SG07	04/02/2013	N	5	**19,200**	<6.8	**3.2**	**157**	<0.5	**0.059 J**	**12,800**	**24.7**	**12.2**	**25.1**	**28,700**	**5.3**	**9,040**	**481**	**17**	**4,580**	<3.99	<1.14	<571	<2.85	**52.4**	**69.4**	**0.063 J**	<39	<39	<39	<39
SAIA-SB/SG07	04/02/2013	N	15	**24,000**	<5.7	**3.2**	**178**	**0.61**	**0.083 J**	**23,000**	**29.2**	**14.4**	**32.6**	**31,500**	**6.6**	**12,300**	**587**	**20.3**	**4,920**	<3.34	<0.955	**603**	<2.39	**59.6**	**82.2**	**0.047 J**	<40	<40	<40	<40
SAIA-SB/SG07	04/02/2013	N	25	**24,600**	<5.5	**9.9**	**204**	**0.72**	**0.019 J**	**11,700**	**38.4**	**19.4**	**53**	**36,500**	**12.3**	**12,200**	**621**	**29.5**	**3,800**	<3.22	<0.921	**1,130**	<2.30	**65.2**	**83**	**0.064 J**	<40	<40	<40	<40
SAIA-SB/SG07	04/02/2013	N	35	**9,440**	<6.3	**10.1**	**81**	<0.53	<0.53	**4,540**	**11**	**6.1**	**9.9**	**16,900**	**2.2**	**4,990**	**233**	**7.1**	**2,640**	<3.73	<1.07	<533	<2.66	**30.6**	**37.9**	**0.024 J**	<35	<35	<35	<35
SAIA-SB/SG08	04/03/2013	N	0.5	**13,700**	<6.4	**1.7**	**123**	<0.54	**0.11 J**	**6,550**	**19.1**	**9.8**	**56.6**	**24,000**	**18.2**	**7,320**	**316**	**12.4**	**4,800**	<3.76	<1.07	<537	<2.68	**43**	**68**	**0.021 J**	<37	**24,000**	<37	<37
SAIA-SB/SG08	04/03/2013	FD	1	**9,180**	<5.7	**1.8**	**96.3**	<0.48	<0.48	**4,120**	**10.9**	**6.7**	**16.5**	**15,700**	**2.3**	**5,100**	**233**	**7.5**	**3,300**	<3.38	<0.966	<483	<2.42	**28.8**	**40.9**	**0.03 J**	--	--	--	--
SAIA-SB/SG08	04/03/2013	FD	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<38	**2,000**	<38	<38
SAIA-SB/SG08	04/03/2013	N	5	**16,900**	<4.9	**3.1**	**136**	<0.41	**0.085 J**	**9,440**	**21.9**	**10.4**	**23**	**24,800**	**5.1**	**7,510**	**387**	**14.5**	**4,000**	<2.89	<0.827	<413	<2.07	**45.7**	**57.8**	**0.034 J**	<34	**330 J**	<34	<34
SAIA-SB/SG08	04/03/2013	FD	6	**22,500**	<6.6	**4.8**	**185**	**0.58**	**0.14 J**	**13,100**	**29**	**13.9**	**35**	**32,900**	**6.9**	**10,000**	**513**	**20**	**5,140**	<3.86	<1.10	<552	<2.76	**60.3**	**78.2**	**0.077 J**	<39	**340 J**	<39	<39
SAIA-SB/SG08	04/03/2013	N	15	**22,200**	<6.3	**3.3**	**179**	**0.53**	<0.53	**9,040**	**28.7**	**14.6**	**27.3**	**33,300**	**5.9**	**11,700**	**432**	**19.6**	**5,730**	<3.69	<1.05	**539**	<2.64	**63.3**	**85.9**	**0.033 J**	<38	<38	<38	<38
SAIA-SB/SG08	04/03/2013	N	25	**18,900**	<6.0	**5.5**	**152**	<0.50	<0.50	**9,250**	**26.5**	**12.1**	**24.5**	**30,800**	**4.7**	**8,720**	**447**	**16.1**	**3,880**	<3.51	<1.00	**520**	<2.50	**54.4**	**60.8**	**0.054 J**	<38	<38	<38	<38
SAIA-SB/SG08	04/03/2013	N	35	**7,610**	<5.5	**11.9**	**74.2**	<0.47	<0.47	**5,100**	**8.3**	**5.3**	**8.5**	**14,100**	**1.8**	**4,130**	**209**	**5.4**	**2,000**	<3.26	<0.933	<466	<2.33	**24.5**	**29.9**	**0.022 J**	<40	<40	<40	<40
SAIA-SB/SG09	04/05/2013	N	0.5	**12,600**	**0.56 J**	**2.7**	**117**	**0.29 J**	**0.31 J**	**7,760**	**20.1**	**9.1**	**351**	**22,100 J**	**39.4 J**	**6,640**	**290**	**12.8**	**4,170**	<3.16	<0.902	<451	<2.25	**40**	**156**	**0.4 J**	<36	<36	<36	<36
SAIA-SB/SG09	04/05/2013	N	2	**11,700**	<5.4	**2.2**	**107**	**0.28 J**	**0.078 J**	**5,900**	**15.8**	**8.2**	**14.8**	**20,400 J**	**3.4 J**	**6,250**	**297**	**10.4**	**3,790**	<3.16	<0.902	<451	<2.26	**37.9**	**48.8**	**0.026 J**	<36	<36	<36	<36
SAIA-SB/SG09	04/05/2013	N	5	**18,700**	<6.8	**3.3**	**154**	**0.48 J**	**0.14 J**	**14,000**	**23.9**	**11.7**	**27.6**	**27,600 J**	**6.2 J**	**8,960**	**487**	**16.1**	**4,360**	<3.99	<1.14	<569	<2.85	**50.7**	**67.1**	**0.032 J**	<37	<37	<37	<37
SAIA-SB/SG09	04/05/2013	N	15	**23,500**	<6.9	**3.9**	**189**	**0.59**	**0.13 J**	**11,000**	**29.9**	**15.3**	**33.4**	**33,900 J**	**6.8 J**	**11,800**	**481**	**20.9**	**5,540**	<4.06	<1.16	<580	<2.90	**66**	**88.2**	**0.043 J**	<39	<39	<39	<39
SAIA-SB/SG09	04/05/2013	N	25	**14,300**	<6.8	**6.6**	**127**	**0.31 J**	**0.094 J**	**10,700**	**22.3**	**10.7**	**20.8**	**26,200 J**	**4.2 J**	**7,260**	**405**	**14.1**	**3,180**	<3.97	<1.13	<567	<2.84	**46.2**	**54**	**0.027 J**	<43	<43	<43	<43

Table 4-2
Summary of SVOC, Metals, and PCBs Detected in Soil
Southern Avenue Industrial Area Superfund Site
South Gate, Los Angeles County, California

				Semivolatiles (in ug/kg)																						
Location ID	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**2-Methylnaphthalene**	**Acenaphthene**	**Anthracene**	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene**	**Benzo(g,h,i)perylene**	**Benzo(k)fluoranthene**	**Biphenyl (Diphenyl)**	**bis(2-Ethylhexyl) Phthalate**	**Carbazole**	**Chrysene**	**Dibenz(a,h)anthracene**	**Dibenzofuran**	**Diethyl Phthalate**	**Dimethyl Phthalate**	**Di-n-Butyl Phthalate**	**Fluoranthene**	**Fluorene**	**Indeno(1,2,3-cd)pyrene**	**Naphthalene**	**Phenanthrene**	**Phenol**	**Pyrene**
SAIA-SB/SG09	04/05/2013	N	35	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG10	04/05/2013	N	0.5	**690**	<190	<190	<190	<190	<190	**93 J**	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	**190**	<190	<190	<190
SAIA-SB/SG10	04/05/2013	FD	1	**630**	<190	<190	<190	<190	<190	**110 J**	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	**180 J**	<190	<190	<190
SAIA-SB/SG10	04/05/2013	N	2	**1,500**	<180	<180	<180	<180	<180	<180	<180	<180	**240 J**	<180	<180	<180	<180	<180	<180	<180	<180	**160 J**	<180	**320**	**280**	<180	<180
SAIA-SB/SG10	04/05/2013	N	5	**2,800 J**	<190	<190	<190	<190	<190	<190	<190	**350 J**	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	**710 J**	**670 J**	<190	<190
SAIA-SB/SG10	04/05/2013	N	15	**1,700**	<210	<210	<210	<210	<210	<210	<210	**100 J**	<210	<210	<210	<210	<210	<210	<210	<210	<210	**120 J**	<210	**480**	**280**	<210	<210
SAIA-SB/SG10	04/05/2013	N	25	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG10	04/05/2013	N	35	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG11	04/03/2013	N	0.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG11	04/03/2013	N	2	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG11	04/03/2013	N	5	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG11	04/03/2013	N	15	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG11	04/03/2013	FD	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG11	04/03/2013	N	25	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG11	04/03/2013	N	35	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB12	04/02/2013	N	0.5	**120 J**	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB12	04/02/2013	N	2	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB12	04/02/2013	N	5	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB12	04/02/2013	N	15	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB12	04/02/2013	N	25	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230
SAIA-SB12	04/02/2013	N	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG19	04/16/2014	N	0.5	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG19	04/16/2014	FD	0.5	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	**84 J**	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG19	04/16/2014	N	2	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	**100 J**	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG19	04/16/2014	N	5	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	**99 J**	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG19	04/16/2014	FD	5	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	**85 J**	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG19	04/16/2014	N	15	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	**98 J**	<200	<200	<200	<200	<200
SAIA-SB/SG19	04/16/2014	N	25	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	**220**	<200	<200	<200	<200	<200
SAIA-SB/SG19	04/16/2014	N	35	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG20	04/18/2014	N	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	04/18/2014	N	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	04/18/2014	N	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	04/18/2014	N	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	04/18/2014	N	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	04/18/2014	N	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG21	04/18/2014	N	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG21	04/18/2014	N	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG21	04/18/2014	FD	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG21	04/18/2014	N	5	<190	<190	<190	<190	<190	<190	<190	<190	<190	**370**	<190	<190	<190	<190	<190	<190	**93 J**	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG21	04/18/2014	N	15	**200**	**81 J**	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	**150 J**	<200	**110 J**	**510**	<200	<200
SAIA-SB/SG21	04/18/2014	FD	15	**240**	**92 J**	**92 J**	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	**190**	<190	**140 J**	**650**	<190	<190
SAIA-SB/SG21	04/18/2014	N	25	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG21	04/18/2014	N	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG22	04/18/2014	N	0.5	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG22	04/18/2014	N	2	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG22	04/18/2014	N	5	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG22	04/18/2014	N	15	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	**91 J**	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG22	04/18/2014	N	25	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220
SAIA-SB/SG22	04/18/2014	N	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG23	04/14/2014	N	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	04/14/2014	N	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	04/14/2014	N	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	04/14/2014	N	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	04/14/2014	N	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	04/14/2014	N	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG24	04/16/2014	N	0.5	<180	<180	<180	**55 J**	**74 J**	**44 J**	**79 J**	**68 J**	<180	<180	<180	**74 J**	<180	<180	<180	<180	**32 J**	**100 J**	<180	**59 J**	<180	**36 J**	<180	**120 J**
SAIA-SB/SG24	04/16/2014	N	2	<180	<180	<180	<180	**87 J**	<180	**99 J**	<180	<180	<180	<180	**86 J**	<180	<180	<180	<180	<180	**120 J**	<180	<180	<180	<180	<180	**150 J**
SAIA-SB/SG24	04/16/2014	N	5	<200	<200	<200	<200	**24 J**	**19 J**	**42 J**	**20 J**	<200	**22 J**	<200	<200	**38 J**	<200	<200	<200	**24 J**	<200	<200	**34 J**	<200	<200	<200	<200
SAIA-SB/SG24	04/16/2014	N	15	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210

Table 4-2
Summary of SVOC, Metals, and PCBs Detected in Soil
Southern Avenue Industrial Area Superfund Site
South Gate, Los Angeles County, California

				Metals (in mg/kg)																				PCBs (in ug/kg)			
Location ID	Sample Date	Sample Type	Sample Depth (feet bgs)	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Mercury	PCB-1016 (Arochlor 1016)	PCB-1248 (Arochlor 1248)	PCB-1254 (Arochlor 1254)	PCB-1260 (Arochlor 1260)
SAIA-SB/SG09	04/05/2013	N	35	30,200	<7.0	15.5	199	0.93	0.091 J	13,500	33.5	17.7	51.5	38,700 J	8.7 J	18,500	567	24.5	5,690	<4.10	<1.17	691	<2.93	71.6	96.4	0.12 J	<40	<40	<40	<40
SAIA-SB/SG10	04/05/2013	N	0.5	13,100	<5.3	1.7	110	0.28 J	0.095 J	7,060	17.5	9	15.8	21,900 J	19.5 J	6,640	289	11.3	4,230	<3.07	<0.878	<439	<2.19	41.3	55.8	0.016 J	<36	400	<36	<36
SAIA-SB/SG10	04/05/2013	FD	1	12,400	<5.8	1.7	108	0.24 J	0.076 J	6,230	17.5	8.9	14.8	21,900 J	11.4 J	6,510	289	11.2	4,170	<3.39	<0.969	<485	<2.42	40.4	53.9	0.044 J	<37	360	<37	<37
SAIA-SB/SG10	04/05/2013	N	2	9,270	<5.9	1.6	87.3	0.22 J	0.072 J	4,350	10.7	6.6	10.7	15,400 J	5.4 J	4,860	250	7.6	3,090	<3.47	<0.991	<495	<2.48	29.7	40.7	0.058 J	<35	68	<35	<35
SAIA-SB/SG10	04/05/2013	N	5	13,900	<5.3	2.5	123	0.34 J	0.12 J	7,460	18.9	9.5	19.7	22,400 J	6.9 J	6,830	326	12.4	3,710	<3.11	<0.889	<445	<2.22	41.7	54.7	0.023 J	<37	310	<37	<37
SAIA-SB/SG10	04/05/2013	N	15	18,900	<5.7	3.1	158	0.46 J	<0.47	8,210	24.5	12.3	23.1	28,900 J	4.6 J	9,730	397	16.9	4,650	<3.30	<0.944	<472	<2.36	52.5	70.2	0.03 J	<39	<39	<39	<39
SAIA-SB/SG10	04/05/2013	N	25	20,500	<6.4	12.5	192	0.51 J	0.038 J	11,900	26.9	13.5	26.4	29,200 J	5.9 J	10,700	479	19.4	4,740	<3.76	<1.07	<537	<2.68	49.4	73.9	0.16 J	<41	<41	<41	<41
SAIA-SB/SG10	04/05/2013	N	35	19,500	<7.2	5	171	0.49 J	0.18 J	10,000	25.8	12.7	30.5 J	28,700 J	4.8 J	10,800	431 J	17.6	5,830	<4.18	<1.19	<597	<2.98	59.4	77	0.12 J	<41	<41	<41	<41
SAIA-SB/SG11	04/03/2013	N	0.5	10,100	1.1 J	8.1	85.5	<0.51	0.78	3,760	57	6.4	288	47,100	80	3,720	298	24.5	2,590	<3.57	<1.02	<510	<2.55	42.8	145	0.017 J	<35	28 J	<35	<35
SAIA-SB/SG11	04/03/2013	N	2	12,200	<5.7	3.5	111	<0.48	<0.48	5,170	20.4	10.2	56.7	25,300	13.1	6,100	360	20.2	3,950	<3.33	<0.953	<476	<2.38	39	92.6	0.015 J	<35	<35	<35	<35
SAIA-SB/SG11	04/03/2013	N	5	19,200	<6.6	2.9	182	<0.55	<0.55	8,590	25.5	14	20.9	30,300	5.7	10,700	499	18.1	6,350	<3.87	<1.11	<553	<2.77	55.5	84.1	0.031 J	<37	<37	<37	<37
SAIA-SB/SG11	04/03/2013	N	15	26,900	<7.2	5	170	0.72	<0.60	11,400	32	15.8	30	36,800	6.8	12,500	526	22	5,610	<4.19	<1.20	896 J	<2.99	69.1	90.2	0.075 J	<42	<42	<42	<42
SAIA-SB/SG11	04/03/2013	FD	16	19,100	<6.8	3.6	175	<0.56	<0.56	8,510	26.6	13.4	26.6	30,600	6.6	10,400	480	19.8	6,180	<3.94	<1.13	<563	<2.82	55.4	85.4	0.03 J	--	--	--	--
SAIA-SB/SG11	04/03/2013	N	25	23,500	<5.6	3.6	229	0.5	<0.47	11,500	32.1	15.7	30.3	32,900	5.6	12,000	561	22.8	5,900	<3.27	<0.933	1,780 J	<2.33	60	85.2	0.12	<40	<40	<40	<40
SAIA-SB/SG11	04/03/2013	N	35	7,900	<5.9	8.4	71	<0.49	<0.49	4,170	10.6	5.8	6.7	16,400	2	4,390	206	6.3	2,230	<3.45	<0.986	<493	<2.46	30	33.3	0.033 J	<36	<36	<36	<36
SAIA-SB12	04/02/2013	N	0.5	13,300	8 J	2.7	126	<0.51	<0.51	7,550	18	9.6	15.5	23,300	446	7,290	334	12.6	4,720	<3.55	<1.01	<507	<2.54	41	64.5	0.032 J	<35	15 J	<35	<35
SAIA-SB12	04/02/2013	N	2	11,600	<5.5	2.1	109	<0.46	<0.46	6,290	14.6	8.2	11.8	19,300	7.6	6,260	280	10	3,860	<3.22	<0.919	<459	<2.30	36	50.5	0.032 J	<35	<35	<35	<35
SAIA-SB12	04/02/2013	N	5	21,200	R	2.9	198	<0.53	<0.53	9,990	28.1	15	23.8 J	32,200	7.4	11,600	510	20	6,150	<3.73	<1.07	<533	<2.66	59.6	86.9	0.075 J	<38	9.8 J	<38	<38
SAIA-SB12	04/02/2013	N	15	18,600	<6.3	3	160	<0.53	<0.53	10,300	24.8	12.4	21.4	28,500	4.8	9,520	448	17	4,610	<3.70	<1.06	1,300 J	<2.64	57.1	69.7	0.057 J	<39	<39	<39	<39
SAIA-SB12	04/02/2013	N	25	14,300	<6.3	10.3	141	<0.53	<0.53	7,480	25.9	11.7	23.3	27,000	5.3	8,860	462	20.4	3,050	<3.69	<1.05	687 J	<2.63	44.2	60.3	0.005 J	<45	<45	<45	<45
SAIA-SB12	04/02/2013	N	35	9,990	<4.5	11.8	92.5	<0.37	<0.37	4,450	12.3	7.6	9.8	17,800	2.4	5,910	264	8.6	3,240	<2.62	<0.749	424 J	<1.87	30.7	44.5	0.019 J	<34	12 J	<34	<34
SAIA-SB/SG19	04/16/2014	N	0.5	11,600	<4.2	3.3	108	0.47	0.71	8,200	20.3	9.9	4,350	21,700	198	5,740	278	46.3	3,600	2.6	<0.7	332 J	<1.8	37.8	891	0.032 J	<34	<34	30 J	11 J
SAIA-SB/SG19	04/16/2014	FD	0.5	10,900	<4.5	3.4	104	0.44	0.8	8,680	47.5	9.8	1,690	22,700	196	5,510	287	32.8	3,430	2.8	<0.75	326 J	<1.9	37.2	885	0.034 J	<34	<34	26 J	11 J
SAIA-SB/SG19	04/16/2014	N	2	13,900	<4.8	3.9	121	0.59	1	5,560	35.8	11	3,080	24,500	337	5,800	293	36.1	3,860	2.8	<0.8	281 J	<2	42.4	1,250	0.031 J	<35	<35	13 J	<35
SAIA-SB/SG19	04/16/2014	N	5	9,800	<4.2	2.5	97.1	0.41	<0.35	5,060	19.9	7.8	192	18,200	40.3	5,250	239	11	3,410	2.2 J	<0.71	244 J	<1.8	32	98.6	0.023 J	<34	<34	<34	<34
SAIA-SB/SG19	04/16/2014	FD	5	10,100	<4.6	2.4	96.7	0.41	<0.38	4,890	12.5	7.8	140	17,200	23.6 J	5,200	239	9.4	3,470	1.9 J	<0.76	307 J	<1.9	31.6	80.9	0.02 J	<34	<34	<34	<34
SAIA-SB/SG19	04/16/2014	N	15	17,200	<5.3	4.7	156	0.71	<0.44	10,200	24.9	13.2	99.6	26,700	21.2 J	8,600	425	20	4,180	2.8 J	<0.88	431 J	<2.2	52.6	94.6	0.057 J	<39	<39	<39	<39
SAIA-SB/SG19	04/16/2014	N	25	18,500	<4.9	4.5	164	0.78	<0.41	10,100	23.3	14	23.8	27,100	5.3 J	9,170	410	17.4	4,690	2.8 J	<0.82	477	<2	56	66.9	0.037 J	<39	<39	<39	<39
SAIA-SB/SG19	04/16/2014	N	35	11,200	<4.6	3	94.5	0.47	<0.39	5,900	15.5	8.8	14.4	19,600	3.3 J	5,470	273	10.5	3,330	2 J	<0.77	272 J	<1.9	38.5	43.1	0.021 J	<39	<39	<39	<39
SAIA-SB/SG20	04/18/2014	N	0.5	10,500	<5	12.7	101	0.5	0.92	8,620	289	11.6	1,690	42,800	420	5,720	477	196	3,880	1.7 J	<0.83	481	<2.1	36.6	241	0.015 J	--	--	--	--
SAIA-SB/SG20	04/18/2014	N	2	11,000	<5	3.5	105	0.37 J	<0.41	9,620	39.4	8.7	138	21,600	24	6,130	326	19.7	4,170	0.93 J	<0.83	420	<2.1	36.2	67.9	0.015 J	--	--	--	--
SAIA-SB/SG20	04/18/2014	N	5	18,600	<5.4	5.5	160	0.68	0.56	15,700	28.2	13.8	30.4	28,300	8	8,960	864	19.8	3,860	0.74 J	<0.89	494	<2.2	52.7	76	0.046 J	--	--	--	--
SAIA-SB/SG20	04/18/2014	N	15	20,000	<4.8	7.7	177	0.74	0.45	12,600	27.3	14.9	26	30,300	6.4	10,700	555	19.5	4,830	1.1 J	<0.8	584	<2	57	78.6	0.21	--	--	--	--
SAIA-SB/SG20	04/18/2014	N	25	13,800	<4.9	9	138	0.51	<0.41	11,600	24.8	12.5	26.3	25,200	6.1	8,550	541	19.8	3,110	0.84 J	<0.82	348 J	<2.1	43.1	57.6	0.058 J	--	--	--	--
SAIA-SB/SG20	04/18/2014	N	35	10,200	<4.4	27.1	96.3	0.38	<0.37	4,790	14.4	8.2	10	19,700	3	6,120	328	9.4	3,070	0.33 J	<0.74	351 J	<1.8	34.8	44.8	0.025 J	--	--	--	--
SAIA-SB/SG21	04/18/2014	N	0.5	12,200	<4.8	5.2	122	0.43	1.4	5,090	79.8	11.3	108	26,400	31.5	6,640	535	100	4,410	1.6 J	<0.8	311 J	<2	39.6	138	0.031 J	--	--	--	--
SAIA-SB/SG21	04/18/2014	N	2	11,700	<4.8	5.3	115	0.44	2.4	4,900	357	12.6	176	29,200	20.9	6,610	432	223	4,230	4.3	<0.8	314 J	<2	36.9	142	0.024 J	--	--	--	--
SAIA-SB/SG21	04/18/2014	FD	2	11,700	<4.7	5.2	114	0.41	2.3	4,910	210	11.4	246	28,400	26.5	6,540	420	103	4,190	2.5 J	<0.78	304 J	<1.9	35.7	170	0.023 J	--	--	--	--
SAIA-SB/SG21	04/18/2014	N	5	13,500	0.59 J	3	118	0.51	0.38 J	8,360	30.2	9.2	40.9	22,300	5	6,430	395	43.6	3,500	3.2	<0.83	321 J	<2.1	40.8	54.3	<0.11	<38	<38	170	150
SAIA-SB/SG21	04/18/2014	N	15	14,900	0.82 J	4.2	142	0.57	0.59	9,990	40.5	11.2	53.8	31,300	7.7	7,840	461	30.3	4,390	4.8	<0.82	427	<2	44.9	74.8	<0.1	<38	7,200	<38	<38
SAIA-SB/SG21	04/18/2014	FD	15	14,500	0.76 J	3.9	137	0.6	0.87	9,420	79.4	10.8	74.4	29,600	9.7	7,760	434	43.6	4,390	5.2	<0.86	412 J	<2.2	47.9	88.3	<0.098	<37	9,000 J	<37	2,400 J
SAIA-SB/SG21	04/18/2014	N	25	16,900	1.2 J	11.9	202	0.66	0.14 J	21,200	28.2	13.7	32.6	30,200	6.4	10,600	624	24.3	4,400	4.4	<0.84	383 J	<2.1	50.9	65.4	<0.1	<39	<39	<39	<39
SAIA-SB/SG21	04/18/2014	N	35	9,200	0.48 J	20.6	95.8	0.39 J	0.02 J	4,640	11.9	6.9	11.5	18,200	2.2	5,520	275	8	2,850	2.8 J	<0.82	292 J	<2.1	39.8	37.1	<0.1	<36	<36	<36	<36
SAIA-SB/SG22	04/18/2014	N	0.5	13,400	0.55 J	2	131	0.47	0.18 J	7,060	19.1	9.6	76.2	22,500	12	7,420	330	13.3	5,190	3.4	<0.82	305 J	<2.1	43.9	65.1	<0.1	<37	<37	260	<37
SAIA-SB/SG22	04/18/2014	N	2	14,200	0.71 J	2.1	144	0.49	0.18 J	6,940 J	19.2 J	10.3	28.1	24,500 J	6.2	7,960	349 J	14	5,550 J	3.7	<0.83	316 J	<2.1	45.8 J	63.4	<0.11	<36	<36	130	<36
SAIA-SB/SG22	04/18/2014	N	5	14,900	0.69 J	3.5	142	0.55	0.22 J	10,500	19.3	9.7	24.7	23,700	5	7,430	467	14.2	4,130	3.5	<0.86	326 J	<2.1	43.9	53.8	<0.11	<39	<39	140 J	<39
SAIA-SB/SG22	04/18/2014	N	15	13,100	0.55 J	3.6	122	0.49	0.19 J	9,740	19.2	9.1	60.9	22,600	7.7	7,290	410	12.9	4,100	3.3	<0.77	405	<1.9	42.7	60.7	0.32	<37	<37	45	<37
SAIA-SB/SG22	04/18/2014	N	25	23,500	0.8 J	5.1	203	0.89	0.34 J	10,700	27.7	14.9	35.9	31,900	7.1	11,400	459	21.9	5,160	4.4	<0.99	648	<2.5	64.4	73.8	<0.12	<42	<42	<42	<42
SAIA-SB/SG22	04/18/2014	N	35	8,810	0.43 J	19.2	88.8	0.33 J	0.04 J	4,750	11.3	6.3	10.2	17,200	2.1	5,300	253	7.5	2,750	2.4 J	<0.79	308 J	<2	31.7	35.5	<0.093	<36	<36	<36	<36
SAIA-SB/SG23	04/14/2014	N	0.5	14,600	0.42 J	3.9	147	0.57	<0.41	6,860	19.1	11.9	20.1	26,100	6.2	8,410	384	15.3	5,640	2.9	<0.82	475	<2.1	46.1	67.7	<0.11	--	--	--	--
SAIA-SB/SG23	04/14/2014	N	2	14,300	0.49 J	3.6	132	0.56	<0.41	8,210	17.9	11.1	18.8	25,000	4.6	7,400	356	13.9	4,310	2.5 J	<0.82	415	<2	45.7	57.1	<0.1	--	--	--	--
SAIA-SB/SG23	04/14/2014	N	5	12,800	0.34 J	3.6	113	0.54	<0.42	9,220	16.6	10.1	17.9	22,300	3.9	6,900	382	13.1	4,020	2.1 J	<0.84	382 J	<2.1	40.4	52.3	<0.11	--	--	--	--
SAIA-SB/SG23	04/14/2014	N	15	26,100	0.66 J	5.4	213	1.1	<0.48	24,400	28.9	18.4	38.2	36,100	9	13,100	676	25.4	5,910	3.6	<0.95	665	<2.4	68.2	89.5	<0.12	--	--	--	--
SAIA-SB/SG23	04/14/2014	N	25	19,700	0.34 J	5.9	178	0.75	<0.44	8,110	24.6	15.1	29.3	29,100	5.1	10,900	482	20.4	5,260	2.9 J	<0.89	478	<2.2	53.8	75.5	<0.11	--	--	--	--
SAIA-SB/SG23	04/14/2014	N	35	7,760	0.2 J	9.1	75.7	0.36 J	<0.39	5,600	9.3	6.1	9.6	15,600	2.2	4,690	235	6.9	2,380	1.6 J	<0.78	260 J	<1.9	27.6	34	<0.11	--	--	--	--
SAIA-SB/SG24	04/16/2014	N	0.5	12,200	27.8 J	5.2	337	0.49	1.3	7,890	26.9	12.4	692	25,300	792 J	6,020	362	19.4	3,840	2.7	<0.78	371 J	<2	42.3	440	0.035 J	<35	<35	<35	<35
SAIA-SB/SG24	04/16/2014	N	2	12,500	10 J	3.7	125	0.49	<0.4	9,390	17.4	9.6	26.3	22,200	227 J	6,460	334	12.1	4,040	2.4 J	<0.81	371 J	<2	43	63.9	0.015 J	<36	<36	<36	<36
SAIA-SB/SG24	04/16/2014	N	5	21,500	<5.3	4.7	176	0.84	<0.45	10,400	26.8	14.5	32	29,400	25.9 J	8,830	452	20.3	5,300	2.7 J	<0.89	424 J	<2.2	58	76.5	0.093 J	<38	<38	<38	<38
SAIA-SB/SG24	04/16/2014	N	15	20,700	<5.5	5	184	0.87	<0.45	11,900	25.3	14.7	26	29,500	5.8 J	10,000	451	18.5	4,900	3.1 J	<0.91	472	<2.3	59.9	72.9	0.062 J	<41	<41	<41	<41

Table 4-2
Summary of SVOC, Metals, and PCBs Detected in Soil
Southern Avenue Industrial Area Superfund Site
South Gate, Los Angeles County, California

				Semivolatiles (in ug/kg)																					
Location ID	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**2-Methylnaphthalene**	**Acenaphthene**	**Anthracene**	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene**	**Benzo(g,h,i)perylene**	**Benzo(k)fluoranthene**	**Biphenyl (Diphenyl)**	**bis(2-Ethylhexyl) Phthalate**	**Carbazole**	**Chrysene**	**Dibenz(a,h)anthracene**	**Dibenzofuran**	**Diethyl Phthalate**	**Dimethyl Phthalate**	**Di-n-Butyl Phthalate**	**Fluoranthene**	**Fluorene**	**Indeno(1,2,3-c,d)pyrene**	**Naphthalene**	**Phenanthrene**	**Phenol**	**Pyrene**
SAIA-SB/SG24	04/16/2014	N	25	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG24	04/16/2014	N	35	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG25	04/14/2014	N	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	04/14/2014	N	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	04/14/2014	N	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	04/14/2014	N	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	04/14/2014	N	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	04/14/2014	N	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG26	04/16/2014	N	0.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG26	04/16/2014	FD	0.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG26	04/16/2014	N	2	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG26	04/16/2014	N	5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG26	04/16/2014	N	15	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG26	04/16/2014	FD	15	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG26	04/16/2014	N	25	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG27	04/14/2014	N	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	04/14/2014	N	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	04/14/2014	N	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	04/14/2014	N	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	04/14/2014	N	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	04/14/2014	N	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG28	04/14/2014	N	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG28	04/14/2014	N	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG28	04/14/2014	N	5	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG28	04/14/2014	N	15	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220
SAIA-SB/SG28	04/14/2014	N	25	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG28	04/14/2014	N	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG29	04/16/2014	N	0.5	<180	<180	<180	**85 J**	**130 J**	<180	**120 J**	**120 J**	<180	**150 J**	<180	**120 J**	<180	<180	<180	<180	**85 J**	**140 J**	<180	**86 J**	<180	<180	<180	**180**
SAIA-SB/SG29	04/16/2014	N	2	<180	<180	<180	**12 J**	<180	<180	<180	<180	<180	**49 J**	<180	**16 J**	<180	<180	**17 J**	<180	**30 J**	**12 J**	<180	<180	<180	<180	<180	**19 J**
SAIA-SB/SG29	04/16/2014	N	5	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG29	04/16/2014	FD	5	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG29	04/16/2014	N	15	<190	<190	<190	<190	<190	<190	<190	<190	<190	**100 J**	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG29	04/16/2014	N	25	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG29	04/16/2014	N	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG30	04/15/2014	N	0.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG30	04/15/2014	N	2	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG30	04/15/2014	N	5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG30	04/15/2014	N	15	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG30	04/15/2014	N	25	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG30	04/15/2014	N	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG31	04/15/2014	N	0.5	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG31	04/15/2014	N	2	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG31	04/15/2014	N	5	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG31	04/15/2014	N	15	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG31	04/15/2014	N	25	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220
SAIA-SB/SG31	04/15/2014	N	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG31	04/15/2014	FD	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG32	04/15/2014	N	0.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG32	04/15/2014	N	2	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG32	04/15/2014	N	5	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG32	04/15/2014	N	15	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG32	04/15/2014	N	25	<200	<200	<200	<200	<200	<200	<200	<200	<200	**340**	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG32	04/15/2014	N	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG33	04/15/2014	N	0.5	<180	<180	<180	<180	**88 J**	<180	<180	**80 J**	<180	<180	<180	**110 J**	<180	<180	<180	<180	<180	**80 J**	<180	<180	<180	<180	<180	**94 J**
SAIA-SB/SG33	04/15/2014	N	2	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG33	04/15/2014	N	5	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG33	04/15/2014	N	15	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG33	04/15/2014	N	25	**590**	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	**150 J**	<210	<210	<210	<210
SAIA-SB/SG33	04/15/2014	N	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180

Table 4-2
Summary of SVOC, Metals, and PCBs Detected in Soil
Southern Avenue Industrial Area Superfund Site
South Gate, Los Angeles County, California

				Metals (in mg/kg)																				PCBs (in ug/kg)			
Location ID	Sample Date	Sample Type	Sample Depth (feet bgs)	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Mercury	PCB-1016 (Arochlor 1016)	PCB-1248 (Arochlor 1248)	PCB-1254 (Arochlor 1254)	PCB-1260 (Arochlor 1260)
SAIA-SB/SG24	04/16/2014	N	25	17,500	<5.3	7	168	0.66	<0.44	12,100	25.6	13.2	34.1	27,500	48.6 J	8,680	475	18.4	4,200	2.6 J	<0.88	442	<2.2	54	68.9	0.072 J	<39	<39	<39	<39
SAIA-SB/SG24	04/16/2014	N	35	12,300	<5.4	21.4	105	<0.45	<0.45	18,300	18.1	9.8	14.9	22,400	3.4 J	6,810	385	12	3,670	2.4 J	<0.89	478	<2.2	46.8	47.8	0.18	<38	<38	<38	<38
SAIA-SB/SG25	04/14/2014	N	0.5	11,800	1.4 J	4.1	122	0.47	<0.38	15,400	16.6	9.4	23.6	21,100	107	6,360	313	13	3,740	2.1 J	<0.76	285 J	<1.9	36.8	78.2	<0.11	--	--	--	--
SAIA-SB/SG25	04/14/2014	N	2	16,800	11.8	<0.87	165	0.66	<0.43	9,380	21.6	11.4	23.1	28,600	4.8	8,970	419	18.4	5,230	7.5	<0.87	376 J	12.6	49.8	68.7	<0.11	--	--	--	--
SAIA-SB/SG25	04/14/2014	N	5	20,200	0.47 J	5.2	195	0.82	<0.42	12,500	26	16.6	28.5	31,800	5.8	11,100	506	22.4	5,770	2.9 J	<0.85	453	<2.1	59.5	81.5	<0.11	--	--	--	--
SAIA-SB/SG25	04/14/2014	N	15	18,400	0.59 J	5.4	159	0.76	<0.42	12,000	22.6	13.7	25	28,700	5.4	9,990	488	18.4	5,050	2.9 J	<0.85	658	<2.1	53	69.9	<0.1	--	--	--	--
SAIA-SB/SG25	04/14/2014	N	25	21,500	0.43 J	6.7	205	0.88	<0.43	8,910	28.2	17.8	31.6	35,200	6.8	11,700	578	24.6	5,900	4.1	<0.86	1,610	<2.1	59.9	81.1	<0.11	--	--	--	--
SAIA-SB/SG25	04/14/2014	N	35	8,300	<4.8	11.1	91.5	0.38 J	<0.4	4,340	10.3	6.7	9.8	16,800	2.4	4,790	233	7.2	2,450	1.5 J	<0.8	520	<2	30	35	<0.11	--	--	--	--
SAIA-SB/SG26	04/16/2014	N	0.5	9,650	20.1 J	6.2	189	0.47	26.7	4,150	240	21.6	187	22,100	1,360 J	4,310	404	152	2,080	2.9	1.9	334 J	<2	39.1	1,350	0.21	<35	<35	<35	7,300 J
SAIA-SB/SG26	04/16/2014	FD	0.5	10,200	29.3 J	6.7	211	0.44	31	6,970	234	21.3	199	22,000	1,850 J	4,490	418	136	2,450	2.7	2.4	331 J	<2	41.6	1,550	0.15	<34	<34	<34	3,000 J
SAIA-SB/SG26	04/16/2014	N	2	11,900	64.1 J	6.5	169	0.44	40.5	5,590	200	17.2	359	26,800	2,620 J	5,560	364	77.6	3,320	3.7	2.4	<389	<1.9	48.4	1,240	0.1	<35	<35	<35	5,700 J
SAIA-SB/SG26	04/16/2014	N	5	11,800	10 J	2.1	115	0.41	3.2	6,800	19.9	8.1	20.5	22,700	41.6 J	5,860	384	13.1	3,790	2.6 J	<0.77	<386	<1.9	44.2	150	0.024 J	<35	<35	<35	25 J
SAIA-SB/SG26	04/16/2014	N	15	21,700	<5	4.2	170	0.73	0.89	14,300	24.2	13.2	26.3	31,400	6.8 J	9,300	452	19.5	4,660	3.2	<0.84	561	<2.1	63.3	70.1	0.14	<39	<39	<39	<39
SAIA-SB/SG26	04/16/2014	FD	15	20,600	<5.2	3.9	167	0.71	0.91	13,700	24	13.3	25.3	31,500	6.2 J	9,000	448	19.1	4,520	3	<0.86	524	<2.2	63.3	66.6	0.048 J	<41	<41	<41	<41
SAIA-SB/SG26	04/16/2014	N	25	22,300	<5.1	4	198	0.77	0.86	14,100	23.6	14	27.6	30,600	6.4 J	10,400	466	20	5,460	3	<0.86	649	<2.1	59.2	72.8	0.051 J	2.4 J	<40	<40	3.7 J
SAIA-SB/SG27	04/14/2014	N	0.5	9,650	21	11	320	0.41	<0.39	7,110	35.8	8.4	36.1	22,900	906	4,780	286	14.6	3,410	2.7	<0.77	752	<1.9	50.7	531	<0.094	--	--	--	--
SAIA-SB/SG27	04/14/2014	N	2	14,600	0.55 J	3.5	148	0.58	<0.38	7,870	19.4	11.9	19.5	25,600	6.7	8,050	365	15.5	5,040	2.5 J	<0.77	555	<1.9	45.7	64.2	<0.1	--	--	--	--
SAIA-SB/SG27	04/14/2014	N	5	17,900	0.43 J	4.5	186	0.68	<0.37	8,710	23.5	14.6	23.7	29,700	7.7	10,500	469	19.2	6,290	2.7	<0.73	523	<1.8	54.2	76.9	<0.093	--	--	--	--
SAIA-SB/SG27	04/14/2014	N	15	16,500	0.44 J	5.1	142	0.69	<0.42	10,200	22.7	12.8	23	29,200	10.2	9,000	407	18.2	4,270	3.1	<0.83	1,690	<2.1	55.5	67.9	<0.1	--	--	--	--
SAIA-SB/SG27	04/14/2014	N	25	27,100	0.33 J	7	233	1.1	<0.46	11,700	31.9	18.5	42.3	36,600	9.2	12,600	531	27.1	5,230	3.5	<0.93	2,020	<2.3	74.3	88.2	0.23	--	--	--	--
SAIA-SB/SG27	04/14/2014	N	35	9,560	0.14 J	13.1	104	0.4	<0.38	5,120	11.4	7.4	11.9	17,600	2.3	5,740	279	8.5	3,030	1.8 J	<0.76	615	<1.9	30.6	40.6	<0.095	--	--	--	--
SAIA-SB/SG28	04/14/2014	N	0.5	13,000	4 J	3.9	128	0.51	<0.42	8,690	17.9	10	19.3	24,200	93.9	6,890	305	13.6	4,760	2.6 J	<0.85	523	<2.1	43.4	70.6	<0.1	--	--	--	--
SAIA-SB/SG28	04/14/2014	N	2	11,900	0.32 J	3.4	115	0.47	<0.38	7,530	16	9.2	14.3	21,800	6.7	6,360	288	11.9	3,980	2.5 J	<0.75	407	<1.9	40.5	49.4	<0.097	--	--	--	--
SAIA-SB/SG28	04/14/2014	N	5	14,700	0.34 J	4	131	0.61	<0.44	9,810	17.9	11.5	20.3	23,400	6.3	7,700	369	14.9	4,480	2.2 J	<0.88	592	<2.2	44.2	58.5	<0.11	<37	<37	<37	<37
SAIA-SB/SG28	04/14/2014	N	15	32,000	0.78 J	9.6	270	1.3	<0.47	19,400	33.7	21.3	51.5	41,700	11.1	13,900	643	31.6	5,230	4.3	<0.95	2,340	<2.4	82.4	99.7	0.18	<44	<44	<44	<44
SAIA-SB/SG28	04/14/2014	N	25	19,300	0.4 J	15.3	180	0.72	<0.45	22,400	22.9	14.1	26.8	28,900	5.8	10,500	659	19.2	4,960	3 J	<0.91	1,020	<2.3	53.4	68.2	<0.11	<40	<40	<40	<40
SAIA-SB/SG28	04/14/2014	N	35	10,800	0.19 J	13.7	105	0.42	<0.39	13,800	12.7	8.6	11.7	18,900	2.6	6,790	342	10.2	3,650	2.1 J	<0.77	577	<1.9	32.8	45.7	<0.1	<35	<35	<35	<35
SAIA-SB/SG29	04/16/2014	N	0.5	11,300	<4.9	5.1	119	0.49	0.58 J	5,500	158 J	197 J	89.9	30,600	209	5,960	944	49.8	3,450	6	2.7	297 J	<2	84.1	441	0.041 J	<35	<35	29 J	29 J
SAIA-SB/SG29	04/16/2014	N	2	13,200	<4.7	2.6	124	0.48	0.7	7,130	24.2	13.7	20.5	24,700	13.8 J	6,470	344	13.9	4,420	2.9	<0.78	<388	<1.9	47.3	75.3	0.023 J	<36	<36	<36	10 J
SAIA-SB/SG29	04/16/2014	N	5	19,100	<5.2	3.5	176	0.68	1	9,500	46.8	25	28.9	31,700	18.3 J	8,540	444	20.4	5,300	4.2	1	<435	<2.2	66.8	86.6	0.032 J	<39	<39	<39	5.3 J
SAIA-SB/SG29	04/16/2014	FD	5	14,700	<5.4	2.8	138	0.5	0.62	7,720	21.3	10.1	17.9	23,800	5.5 J	6,570	321	13.3	4,140	2.5 J	<0.89	<446	<2.2	46	54.4	0.082 J	<40	<40	<40	15 J
SAIA-SB/SG29	04/16/2014	N	15	14,100	<4.7	2.9	120	0.59	<0.39	8,130	53	25.2	27.4	23,900	32.3	7,050	340	19.6	3,890	2.9	0.71 J	410	<1.9	54.2	110	0.037 J	<37	<37	91	72
SAIA-SB/SG29	04/16/2014	N	25	21,300	<5.3	4.7	188	0.81	<0.44	15,300	26.7	15.5	28.8	33,000	6	11,100	550	21.1	5,460	3 J	0.31 J	932	<2.2	63	77.4	0.066 J	<40	<40	<40	<40
SAIA-SB/SG29	04/16/2014	N	35	11,100	<4.7	12.9	104	0.42	<0.4	9,900	13.7	8.3	11.2	19,500	2.7	6,630	337	9.8	3,780	1.9 J	0.23 J	432	<2	35.2	46.2	0.015 J	<35	<35	<35	390
SAIA-SB/SG30	04/15/2014	N	0.5	16,800	0.99 J	4.1	152	0.62	<0.39	11,600	22.1	13.1	21.3	28,000	16.6	8,610	421	17.4	5,320	3.5	<0.79	428	<2	52.8	71.9	0.11	<35	<35	<35	<35
SAIA-SB/SG30	04/15/2014	N	2	15,800	0.7 J	4.3	156	0.61	<0.38	9,900	19.1	12.1	21	25,300 J	14.9	8,360	397 J	16.3	4,960	2.6	<0.75	603	<1.9	45.6 J	64.9 J	<0.11	<34	<34	<34	<34
SAIA-SB/SG30	04/15/2014	N	5	14,300	0.6 J	3.8	143	0.58	<0.37	8,890	18	11.4	18.5	23,900	11.9	7,900	345	15.3	4,700	2.3 J	<0.73	491	<1.8	42.8	62.8	<0.09	<34	<34	<34	<34
SAIA-SB/SG30	04/15/2014	N	15	20,400	0.45 J	5.5	167	0.81	<0.39	13,500	23.5	15.3	26.9	30,000	6.5	9,850	440	20.2	5,030	2.8	<0.78	1,850	<1.9	55.7	72.9	<0.095	<37	<37	<37	<37
SAIA-SB/SG30	04/15/2014	N	25	21,500	0.6 J	6.2	182	0.8	<0.4	19,500	25.9	16.5	31.4	31,200	6.4	10,800	570	23	5,170	2.9	<0.8	1,430	<2	54.8	77.9	<0.1	<37	<37	<37	<37
SAIA-SB/SG30	04/15/2014	N	35	8,380	<4.6	10	76.6	0.36 J	<0.39	5,660	10.1	6.7	10.3	15,700	2.3	4,990	233	7.6	2,620	1.8 J	<0.77	449	<1.9	27.9	34.9	<0.094	<34	<34	<34	<34
SAIA-SB/SG31	04/15/2014	N	0.5	13,900	1.5 J	5	141	0.52	<0.41	6,990	17	10.8	20	22,500	47.6	7,420	352	14.3	4,970	2.3 J	<0.82	328 J	<2.1	39.3	68.7	<0.1	<36	<36	<36	<36
SAIA-SB/SG31	04/15/2014	N	2	14,400	0.43 J	4.7	144	0.53	<0.41	7,480	17.6	11.3	19.2	22,900	9.9	7,670	353	14.8	5,060	2.1 J	<0.82	353 J	<2.1	40.4	59.6	<0.097	<36	<36	<36	<36
SAIA-SB/SG31	04/15/2014	N	5	15,900	0.36 J	4	152	0.63	<0.42	9,460	19.2	11.7	21	24,600	6.3	7,820	368	15.1	4,120	2.3 J	<0.85	450	<2.1	44.5	59.1	<0.11	<37	<37	<37	<37
SAIA-SB/SG31	04/15/2014	N	15	22,200	0.33 J	5.9	199	0.94	<0.44	10,800	24.4	15.1	30.4	29,900	8	10,100	393	20.5	4,780	2.9 J	<0.88	955	<2.2	57.9	74.9	<0.11	<39	<39	<39	<39
SAIA-SB/SG31	04/15/2014	N	25	29,300	0.85 J	10.2	250	1.3	<0.47	13,100	36.8	22	49.4	40,000	12.4	13,300	581	33	4,940	3.5	<0.95	1,740	<2.4	76.8	94.4	<0.11	<43	<43	<43	<43
SAIA-SB/SG31	04/15/2014	N	35	8,090	<4.7	10	84	0.33 J	<0.39	4,710	8.8	6.2	8.5	14,100	2.1	4,560	221	7	2,400	1.4 J	<0.78	376 J	<1.9	24.3	33.7	<0.09	<34	<34	<34	<34
SAIA-SB/SG31	04/15/2014	FD	35	7,570	0.16 J	9.1	75.6	0.32 J	<0.38	4,260	7.9	5.7	8.2	13,000	2.1	4,230	200	6.4	2,230	1.2 J	<0.75	371 J	<1.9	22.3	31.3	<0.099	<34	<34	<34	<34
SAIA-SB/SG32	04/15/2014	N	0.5	12,600	1.1 J	4.2	138	0.49	0.99	5,530	16.3	11.9	18.3	20,900	45.1	6,800	411	24.1	4,780	1.8 J	<0.77	272 J	<1.9	36.3	470	<0.11	<36	<36	47 J	12 J
SAIA-SB/SG32	04/15/2014	N	2	11,600	0.2 J	3.7	114	0.43	<0.38	6,060	14.3	9.2	13.8	19,500	5.1	6,180	285	11.9	4,100	1.9 J	<0.76	281 J	<1.9	35.6	54.5	<0.096	<36	<36	49 J	12 J
SAIA-SB/SG32	04/15/2014	N	5	18,600	0.34 J	4.3	181	0.74	<0.44	10,500	22.9	14.5	24	28,300	6.7	10,200	461	19.6	5,920	2.6 J	<0.88	492	<2.2	50.8	85.3	<0.1	<40	<40	16 J	<40
SAIA-SB/SG32	04/15/2014	N	15	15,600	<4.7	3.1	146	0.66	<0.39	7,340	22	12.2	20.9	24,800	4.8	8,140	323	15.8	4,260	2.8	<0.79	783	<2	47	60.4	0.031 J	<35	<35	20 J	<35
SAIA-SB/SG32	04/15/2014	N	25	20,700	<5.2	5.7	211	0.85	<0.43	11,600	28.4	16.9	34.6	30,800	7.3	10,700	508	25.1	4,560	3.2	<0.86	1,220	<2.2	53.7	75.5	0.12	<40	<40	<40	<40
SAIA-SB/SG32	04/15/2014	N	35	7,840	<4.4	8.9	73.8	<0.37	<0.37	4,340	10.2	6.7	9.4	15,500	2	4,540	224	7.1	2,440	1.9 J	<0.73	325 J	<1.8	28.7	33.2	0.032 J	<35	<35	<35	<35
SAIA-SB/SG33	04/15/2014	N	0.5	10,500	<4.7	3.3	115	0.41	<0.39	6,050	15.3	8.7	25.8	20,300	59	5,710	323	12.4	4,000	2.3 J	<0.79	337 J	<2	34.4	103	0.017 J	<36	<36	<36	<36
SAIA-SB/SG33	04/15/2014	N	2	10,600	<4.4	2.8	111	0.42	<0.36	6,450	14.4	8.6	14.9	18,700	12.5	5,910	291	11	4,090	2 J	<0.73	286 J	<1.8	34	56	0.021 J	<36	<36	<36	<36
SAIA-SB/SG33	04/15/2014	N	5	18,000	<4.5	3.9	178	0.73	<0.37	9,800	22.3	14.1 J	22.7	27,500	5.1 J	10,000	460	18 J	5,560	3.2	<0.74	531	<1.9	50.5	72.7	0.041 J	<37	<37	<37	<37
SAIA-SB/SG33	04/15/2014	N	15	13,900	<4.6	2.8	128	0.57	<0.38	6,640	18.6	11.1	17.6	23,400	4.1	8,030	323	14.5	4,450	2.6 J	<0.77	462	<1.9	44.2	57.9	0.026 J	<37	<37	<37	<37
SAIA-SB/SG33	04/15/2014	N	25	25,000	<5.3	10.3	239	1.1	<0.44	14,400	33.9	19.8	43.8	35,600	11.1	12,200	596	29.5	4,970	3.9	<0.88	1,460	<2.2	64.9	84.9	0.1 J	<40	<40	<40	<40
SAIA-SB/SG33	04/15/2014	N	35	9,910	<4.8	10.1	101	<0.4	<0.4	8,470	12	8.2	11.9	17,100	2	6,260	291	9	3,540	2.3 J	<0.8	502	<2	30.6	43.5	0.027 J	<34	<34	<34	<34

Table 4-2
Summary of SVOC, Metals, and PCBs Detected in Soil
Southern Avenue Industrial Area Superfund Site
South Gate, Los Angeles County, California

				Semivolatiles (in ug/kg)																						
Location ID	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**2-Methylnaphthalene**	**Acenaphthene**	**Anthracene**	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene**	**Benzo(g,h,i)perylene**	**Benzo(k)fluoranthene**	**Biphenyl (Diphenyl)**	**bis(2-Ethylhexyl) Phthalate**	**Carbazole**	**Chrysene**	**Dibenz(a,h)anthracene**	**Dibenzofuran**	**Diethyl Phthalate**	**Dimethyl Phthalate**	**Di-n-Butyl Phthalate**	**Fluoranthene**	**Fluorene**	**Indeno(1,2,3-cd)pyrene**	**Naphthalene**	**Phenanthrene**	**Phenol**	**Pyrene**
SAIA-SB/SG34	04/15/2014	N	0.5	<170	<170	<170	<170	**81 J**	<170	<170	**73 J**	<170	<170	<170	**100 J**	<170	<170	<170	<170	<170	**71 J**	<170	<170	<170	<170	<170	**81 J**
SAIA-SB/SG34	04/15/2014	N	2	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG34	04/15/2014	N	5	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG34	04/15/2014	N	15	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG34	04/15/2014	FD	15	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG34	04/15/2014	N	25	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG34	04/15/2014	N	35	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG35	04/18/2014	N	0.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG35	04/18/2014	N	2	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG35	04/18/2014	FD	2	<190	<190	<190	<190	<190	<190	<190	<190	<190	**87 J**	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG35	04/18/2014	N	5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG35	04/18/2014	N	15	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG35	04/18/2014	N	25	<200	<200	<200	<200	<200	<200	<200	<200	<200	**120 J**	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG35	04/18/2014	N	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG36	04/17/2014	N	0.5	<180	<180	<180	**79 J**	**110 J**	**90 J**	<180	**100 J**	<180	<180	<180	**120 J**	<180	<180	<180	<180	<180	**120 J**	<180	**73 J**	<180	<180	<180	**120 J**
SAIA-SB/SG36	04/17/2014	N	2	<180	<180	<180	**610**	**1,100**	**910**	**800**	**940**	<180	<180	<180	**1,100**	<180	<180	<180	<180	<180	**590**	<180	**700**	<180	**86 J**	<180	**760**
SAIA-SB/SG36	04/17/2014	N	5	<180	<180	<180	**370**	**630**	**430**	**510**	**500**	<180	<180	<180	**620**	**190**	<180	<180	<180	**84 J**	**320**	<180	**420**	<180	<180	<180	**420**
SAIA-SB/SG36	04/17/2014	N	15	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230
SAIA-SB/SG36	04/17/2014	N	25	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG36	04/17/2014	FD	25	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG36	04/17/2014	N	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG37	04/17/2014	N	0.5	<180	<180	<180	**54 J**	**70 J**	**55 J**	**55 J**	**60 J**	<180	<180	<180	**78 J**	<180	<180	<180	<180	<180	**70 J**	<180	<180	<180	<180	<180	**79 J**
SAIA-SB/SG37	04/17/2014	N	2	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG37	04/17/2014	N	5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG37	04/17/2014	FD	5	<180	<180	<180	<180	<180	<180	<180	<180	<180	**100 J**	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG37	04/17/2014	N	15	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG37	04/17/2014	N	25	<220	<220	<220	<220	<220	<220	<220	<220	<220	**360**	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220
SAIA-SB/SG37	04/17/2014	N	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG38	04/17/2014	N	0.5	<190	<190	**140 J**	**330**	**390**	**250**	**230**	**310**	<190	<190	<190	**510**	**120 J**	<190	<190	<190	<190	**480**	<190	**220**	<190	**410**	<190	**570**
SAIA-SB/SG38	04/17/2014	N	2	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	**89 J**	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG38	04/17/2014	N	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG38	04/17/2014	N	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG38	04/17/2014	N	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG38	04/17/2014	N	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	04/17/2014	N	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	04/17/2014	N	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	04/17/2014	FD	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	04/17/2014	N	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	04/17/2014	N	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	04/17/2014	N	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	04/17/2014	N	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG44	04/25/2017	N	0	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<390	<200	<200	<200	<200	**220**	<200	<390	<200	<200	<200	<200	<390	<200
SAIA-SB/SG44	04/25/2017	N	1	<190	<190	<190	**45 J**	<190	<190	<190	<190	<190	<190	<370	**120 J**	<190	<190	<190	**240**	<190	**120 J**	<190	<190	<190	**80 J**	<370	**150 J**
SAIA-SB/SG44	04/25/2017	N	4	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<420	<220	<220	<220	<220	**350**	<220	<420	<220	<220	<220	<220	<420	<220
SAIA-SB/SG44	04/25/2017	N	14	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<400	<200	<200	<200	<200	**540**	<200	<400	<200	<200	<200	<200	**48 J**	<200
SAIA-SB/SG44	04/25/2017	N	24	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<430	<220	<220	<220	<220	**530**	<220	<430	<220	<220	<220	<220	<430	<220
SAIA-SB/SG44	04/25/2017	FD	24	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<390	<200	<200	<200	<200	**400**	<200	<390	<200	<200	<200	<200	<390	<200
SAIA-SB/SG44	04/25/2017	N	34	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<430	<220	<220	<220	<220	**390**	<220	<430	<220	<220	<220	<220	<430	<220
SAIA-SB/SG45	04/25/2017	N	0	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<370	**56 J**	<190	<190	<190	**210**	<190	**42 J**	<190	<190	<190	<190	<370	**64 J**
SAIA-SB/SG45	04/25/2017	N	1	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<380	<200	<200	<200	<200	**250**	<200	<380	<200	<200	<200	<200	<380	<200
SAIA-SB/SG45	04/25/2017	N	4	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<400	<210	<210	<210	<210	**710**	<210	<400	<210	<210	<210	<210	**60 J**	<210
SAIA-SB/SG45	04/25/2017	N	14	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<440	<230	<230	<230	<230	**430**	<230	<440	<230	<230	<230	<230	**57 J**	<230
SAIA-SB/SG45	04/25/2017	N	24	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<450	<230	<230	<230	<230	**320**	<230	<450	<230	<230	<230	<230	**49 J**	<230
SAIA-SB/SG45	04/25/2017	N	34	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<440	<230	<230	<230	<230	**320**	<230	<440	<230	<230	<230	<230	**50 J**	<230
SAIA-SB/SG46	04/26/2017	N	0	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	**77 J**	<180	<350	<180	<180	<180	<180	<350	<180
SAIA-SB/SG46	04/26/2017	FD	0	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	**100 J**	<190	<370	<190	<190	<190	<190	<370	<190
SAIA-SB/SG46	04/26/2017	N	1	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	**160**	<190	<370	<190	<190	<190	<190	<370	<190
SAIA-SB/SG46	04/26/2017	N	4	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<390	<200	<200	<200	<200	**230**	<200	<390	<200	<200	<200	<200	<390	<200
SAIA-SB/SG46	04/26/2017	N	14	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<410	<210	<210	<210	<210	**360 J**	<210	<410	<210	<210	<210	<210	**51 J**	<210

Table 4-2
Summary of SVOC, Metals, and PCBs Detected in Soil
Southern Avenue Industrial Area Superfund Site
South Gate, Los Angeles County, California

				Metals (in mg/kg)																				PCBs (in ug/kg)			
Location ID	Sample Date	Sample Type	Sample Depth (feet bgs)	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Mercury	PCB-1016 (Arochlor 1016)	PCB-1248 (Arochlor 1248)	PCB-1254 (Arochlor 1254)	PCB-1260 (Arochlor 1260)
SAIA-SB/SG34	04/15/2014	N	0.5	9,600	10	12.1	156	0.88	<0.39	14,300	1,020	16.3	212	55,400	184	2,460	1,920	585	1,470	5.9	<0.77	566	0.36 J	39.6	268	0.016 J	<34	<34	<34	<34
SAIA-SB/SG34	04/15/2014	N	2	11,600	<4.2	3	118	0.44	<0.35	7,910	17.5	9.9	18.9	21,300	22.1	6,360	350	13.4	4,600	2.4	<0.7	277 J	<1.7	38	70.2	0.025 J	<34	<34	<34	<34
SAIA-SB/SG34	04/15/2014	N	5	17,100	<4.8	3.5	174	0.69	<0.4	8,390	22.4	13.8	22.1	28,100	8.6	9,820	475	18.1	7,750	3.2	<0.81	338 J	<2	51.6	80.8	0.024 J	<34	<34	<34	<34
SAIA-SB/SG34	04/15/2014	N	15	12,100	<4.7	3.4	111	0.52	<0.39	20,200	16.4	9.6	14	21,200	3.1	7,370	343	12.6	3,690	2.5 J	<0.79	1,170	<2	40.9	49.9	0.027 J	<35	<35	<35	<35
SAIA-SB/SG34	04/15/2014	FD	15	13,900	<4.4	3.7	129	0.58	<0.37	12,300	18.8	11.3	16.2	23,200	3.6	7,960	344	15	4,070	2.9	<0.73	1,360	<1.8	44.9	56.1	0.027 J	<37	<37	<37	<37
SAIA-SB/SG34	04/15/2014	N	25	28,800	<5.7	10.7	240	1.3	<0.47	15,500	36.1	24.6	55.2	41,900	13.9	13,500	751	36.1	4,560	4.5	<0.95	2,200	<2.4	79.3	92.2	0.02 J	<41	<41	<41	<41
SAIA-SB/SG34	04/15/2014	N	35	7,760	19.1	<0.71	73.8	0.36	0.28 J	3,730	9.3	4.4	8	13,700	<0.71	4,410	214	8.7	2,510	11.3	<0.71	407	26.2	24.2	31	0.066 J	<34	<34	<34	<34
SAIA-SB/SG35	04/18/2014	N	0.5	14,400	0.92 J	2.8	151	0.51	0.29 J	8,030	19.5	10.7	20.5	24,700	16.2	7,760	385	15	5,330	3.7	<0.76	324 J	<1.9	45.3	79.7	<0.1	<35	<35	<35	<35
SAIA-SB/SG35	04/18/2014	N	2	13,100	0.69 J	2.6	131	0.45	0.21 J	7,280	17.7	9.3	19.7	22,100	6.5	6,830	330	13.3	4,570	3.4	<0.78	299 J	<1.9	41.6	52.3	<0.11	<35	<35	<35	<35
SAIA-SB/SG35	04/18/2014	FD	2	14,400	0.69 J	2.6	143	0.51	0.22 J	7,960	19.3	10.2	18.3	24,200	5.4	7,560	361	14.2	5,110	3.8	<0.84	334 J	<2.1	44.5	59	<0.1	<36	<36	<36	<36
SAIA-SB/SG35	04/18/2014	N	5	14,300	0.65 J	2.8	127	0.55	0.18 J	7,930	17.5	9.4	17.5	23,000	4.4	7,130	354	12.9	4,050	3.3	<0.83	388 J	<2.1	44.7	51.5	<0.1	<35	<35	<35	<35
SAIA-SB/SG35	04/18/2014	N	15	14,100	0.59 J	2.9	136	0.5	0.17 J	6,660	18.3	10	15.6	24,400	3.3	8,260	330	12.9	4,480	3.7	<0.77	1,270	<1.9	49.2	53.6	<0.095	<37	<37	<37	<37
SAIA-SB/SG35	04/18/2014	N	25	17,600	0.58 J	3	159	0.65	0.23 J	9,050	22.9	10.8	24.1	24,700	4.9	8,750	383	15.9	4,150	3.5	<0.91	1,670	<2.3	48.7	57.6	<0.1	<39	<39	<39	<39
SAIA-SB/SG35	04/18/2014	N	35	6,810	0.39 J	6.8	56	0.24 J	0.02 J	4,740	9	4.6	6.7	13,400	1.8	3,860	190	5.6	2,020	2.1 J	<0.72	385	<1.8	25.1	25.8	<0.1	<34	<34	<34	<34
SAIA-SB/SG36	04/17/2014	N	0.5	10,700	<4.8	4.9	104	0.52	0.51	9,730	19.8	8.1	46.1	24,200	237	5,480	413	16.3	2,990	2.4 J	0.33 J	522	<2	38.2	257	0.13	<35	<35	12 J	<35
SAIA-SB/SG36	04/17/2014	N	2	4,520	<4.7	4.7	41.2	0.45	<0.39	3,920	19.2	5.4	60.2	32,900	57	1,740	467	26.5	853	3.5	0.25 J	300 J	0.49 J	19.7	72.8	0.046 J	<35	<35	<35	19 J
SAIA-SB/SG36	04/17/2014	N	5	6,920	<4.5	9.3	48.6	0.6	<0.37	2,310	38.6	6.8	128	50,200	45.3	1,810	503	37.9	994	4.9	0.4 J	428	1.5 J	29.2	59.1	<0.095	<35	<35	<35	<35
SAIA-SB/SG36	04/17/2014	N	15	33,400	<5.9	7.2	260	1.4	<0.49	15,500	38	21.2	51.4	41,100	13	14,200	600	30.9	5,130	3.4	0.37 J	700	<2.4	78.4	98	0.13	<46	<46	<46	<46
SAIA-SB/SG36	04/17/2014	N	25	20,000	<5.2	6.4	197	0.82	<0.43	13,100	26.3	14.3	29.8	30,400	7.3	10,100	593	20.4	4,930	2.6 J	0.27 J	482	<2.1	57.2	72.4	0.065 J	<41	<41	<41	<41
SAIA-SB/SG36	04/17/2014	FD	25	20,400	<5.8	8.3	195	0.85	<0.48	14,300	27.7	14.4	33.8	31,200	8.4	10,300	573	22.2	4,580	3.1 J	0.29 J	481 J	<2.4	58.1	71.9	0.1 J	<41	<41	<41	<41
SAIA-SB/SG36	04/17/2014	N	35	8,310	<4.8	8.7	72.4	0.4	<0.4	4,720	11.2	5.8	13.1	17,700	4.4	4,260	248	7.5	2,320	1.7 J	0.13 J	317 J	<2	27.7	32.6	0.058 J	<36	<36	<36	<36
SAIA-SB/SG37	04/17/2014	N	0.5	15,000	48.9	43.8	345	2.1	<0.38	33,300	147	21.4	463	206,000	543	3,860	5,120	170	2,060	7.4	0.42 J	1,520	5	81.7	127	0.019 J	<35	<35	<35	<35
SAIA-SB/SG37	04/17/2014	N	2	17,700	13.2	12.1	313	1.4	<0.39	34,800	103	10.6	204	93,100	451	3,720	5,260	76	2,750	5.1	0.64 J	1,350	1.6 J	56.3	308	0.17	<35	<35	<35	41
SAIA-SB/SG37	04/17/2014	N	5	11,600	<5.1	2.7	111	0.44	<0.42	11,800	16.6	8.5	14.2	22,100	3.5	6,480	370	10.9	3,870	1.9 J	0.14 J	347 J	<2.1	44.2	47.2	0.038 J	<35	<35	<35	<35
SAIA-SB/SG37	04/17/2014	FD	5	11,100	<4.9	2.5	102	0.48	<0.4	11,800	16	8.4	13.4	22,200	3.2	6,340	370	10.6	3,700	2.1 J	0.13 J	337 J	<2	44.5	46.3	0.021 J	<35	<35	<35	<35
SAIA-SB/SG37	04/17/2014	N	15	17,400	<5.4	3.6	149	0.73	<0.45	9,520	22	12.1	22.5	26,500	5.1	8,700	415	15.8	4,370	2.4 J	0.1 J	454	<2.3	52.4	63.6	0.068 J	<39	<39	<39	<39
SAIA-SB/SG37	04/17/2014	N	25	24,200	<5.2	7	219	0.94	<0.43	21,200	33.9	15.1	35.4	32,600	18	10,800	1,080	21.1	5,350	2.8 J	0.17 J	1,190	<2.2	66.9	85.9	0.04 J	<42	<42	<42	<42
SAIA-SB/SG37	04/17/2014	N	35	8,260	<4.6	9.2	73.9	0.36 J	<0.38	4,570	11	6	8.4	16,100	2.3	4,290	226	6.8	2,440	1.5 J	0.09 J	397	<1.9	32.3	33	0.039 J	<35	<35	<35	<35
SAIA-SB/SG38	04/17/2014	N	0.5	14,200	<4.9	5.5	130	0.65	<0.41	17,400	105	9.8	33.4	25,600	112	6,600	635	19.4	3,960	2 J	0.21 J	725	<2.1	43.8	130	0.071 J	<36	<36	<36	9.9 J
SAIA-SB/SG38	04/17/2014	N	2	12,200	<4.6	2.5	112	0.49	<0.38	7,140	19.4	8.6	17	22,100	11	6,150	449	12.2	4,060	1.7 J	0.06 J	391	<1.9	41.9	49.6	0.047 J	<35	<35	<35	<35
SAIA-SB/SG38	04/17/2014	N	5	25,800	<5.5	7.1	220	0.92	0.88	13,600	33.6	19.5	37.4	36,600	10.3	11,600	556	27.2	5,970	1.2 J	<0.92	842	<2.3	66.5	92.6	0.071 J	--	--	--	--
SAIA-SB/SG38	04/17/2014	N	15	20,000	<5.5	7.1	184	0.72	0.54 J	16,300	26.2 J	14.8	26.9	30,700 J	6.4	10,100	588	20.1	4,690	1.7 J	0.06 J	1,240	<2.3	59.2	74.7	0.079 J	--	--	--	--
SAIA-SB/SG38	04/17/2014	N	25	21,500	<5.3	7.4	186	0.83	0.59	10,200	32.4	16	33	31,600	9	9,920	468	23	4,470	1.7 J	<0.88	1,180	<2.2	59.6	81.1	0.12	--	--	--	--
SAIA-SB/SG38	04/17/2014	N	35	6,870	<4.4	10	61.7	0.25 J	<0.36	6,190	10.4	5.6	7	16,000	2	4,240	231	6.3	2,060	0.96 J	<0.73	352 J	<1.8	29.7	41.9	0.015 J	--	--	--	--
SAIA-SB/SG39	04/17/2014	N	0.5	9,880	5.3	9.5	106	0.48	1.9	14,600	26.5	9	55.8	34,000	205	5,170	540	20.8	2,650	1.3 J	<0.76	579	<1.9	37.3	369	0.11	--	--	--	--
SAIA-SB/SG39	04/17/2014	N	2	8,490	<4.7	7.4	95.4	0.38 J	1.1	10,800	28.9	7.4	50.5	20,900	200	4,250	510	20.5	2,090	0.73 J	<0.78	396	<1.9	31.9	207	0.46	--	--	--	--
SAIA-SB/SG39	04/17/2014	FD	2	8,330	<4.5	7.1	94	0.37	1.6	12,500	25.2	7	47.4	22,200	213	4,190	467	17.6	2,090	0.83 J	0.07 J	441	<1.9	30.8	257	0.11	--	--	--	--
SAIA-SB/SG39	04/17/2014	N	5	12,600	<4.6	4	117	0.44	0.4	8,870	19.4	10.2	15.2	23,100	10.4	6,980	429	13.4	4,190	0.75 J	<0.77	426	<1.9	42.6	60.7	0.045 J	--	--	--	--
SAIA-SB/SG39	04/17/2014	N	15	18,800	<5.4	5.7	163	0.66	0.52	8,170	25.9	14.1	25.3	28,700	7.6	9,830	442	19.9	4,950	0.88 J	<0.89	607	<2.2	54.5	75.5	0.072 J	--	--	--	--
SAIA-SB/SG39	04/17/2014	N	25	27,000	<5.8	9	244	1	0.78	11,300	50.3	24.3	61.4	38,900	17.6	14,100	693	40.8	4,070	0.98 J	<0.96	1,190	<2.4	71.4	93.7	0.07 J	--	--	--	--
SAIA-SB/SG39	04/17/2014	N	35	8,380	<4.4	11.4	73.7	0.32 J	<0.37	9,930	12.2	6.8	8.8	16,700	2.4	5,160	286	7.9	2,600	0.79 J	<0.73	391	<1.8	30.1	37.9	0.02 J	--	--	--	--
SAIA-SB/SG44	04/25/2017	N	0	10,100	1.4 J	4 J	88.8	<0.54	0.7	4,370	21.7	8.5	27.1	17,900	116	4,620	285	15.9	2,260	<3.8	<1.1	<537	<2.7	35.6	217	0.039 J	<39	<39	<39	<39
SAIA-SB/SG44	04/25/2017	N	1	15,400	1.3 J	2.6 J	116	<0.58	<0.58	11,100	21.5	11.5	20	22,500	23.6	7,460	376	15.7	3,870	0.73 J	<1.2	<577	<2.9	45.3	96.5	0.042 J	<37	<37	<37	4.5 J
SAIA-SB/SG44	04/25/2017	N	4	21,200	1.7 J	2.8 J	162	<0.62	<0.62	14,200	26.9	15.3	23.9	28,900	5.9	10,500	451	18	5,380	0.67 J	<1.2	638	<3.1	59.6	81	0.068 J	<42	<42	<42	<42
SAIA-SB/SG44	04/25/2017	N	14	17,400	1.4 J	2 J	123	<0.59	<0.59	12,800	21.5	13.1	18.9	24,600	4.1	8,990	392	13.8	4,190	0.41 J	<1.2	<588	<2.9	52.2	67.7	0.042 J	<39	<39	<39	<39
SAIA-SB/SG44	04/25/2017	N	24	29,700	1.7 J	3.8 J	194	0.82 J	<0.65	12,500	33.3	17.8	38.4	33,700	8.4 J	11,800	439	23.3	4,700	<4.5	<1.3	1,340	<3.2	68.5	93.5	0.097 J	<43	<43	<43	<43
SAIA-SB/SG44	04/25/2017	FD	24	23,800	1.8 J	3.8 J	167	0.64 J	<0.63	23,200	27.7	16.1	25.7	30,400	6.2	10,700	559	18.4	4,800	0.81 J	<1.3	1,100	<3.2	64.6	83.3	0.078 J	<39	<39	<39	<39
SAIA-SB/SG44	04/25/2017	N	34	29,000	1.9 J	4.3 J	195	0.77 J	<0.64	9,200	33.7	17.9	46.2	33,500	8.2 J	11,800	419	23.3	4,730	2.1 J	<1.3	1,230	<3.2	71.7	91.3	0.12 J	<43	<43	<43	<43
SAIA-SB/SG45	04/25/2017	N	0	14,100	2.3 J	3.9 J	127	<0.56	1.5	7,620	30.5	12	47.1	32,600	306	6,370	496	23.2	3,470	0.73 J	<1.1	<561	<2.8	44.5	308	0.14	<37	<37	<37	23 J
SAIA-SB/SG45	04/25/2017	N	1	19,000	1.3 J	2.4 J	138	<0.6	<0.6	9,570	23.8	13.8	21.2	26,400	6.3	8,370	392	15.3	4,400	<4.2	<1.2	<595	<3	55.4	72.8	0.063 J	<39	<39	<39	<39
SAIA-SB/SG45	04/25/2017	N	4	16,500	2.5 J	5.2 J	131	<0.58	0.68	9,230	28	13	45.7	29,100	122	7,570	412	19.7	3,840	<4.1	<1.2	<579	<2.9	52.4	212	0.13	<40	<40	<40	<40
SAIA-SB/SG45	04/25/2017	N	14	23,200	1.5 J	1.9 J	145	0.62 J	<0.61	11,600	26.8	14.8	26.7	28,300	6.4	9,760	466	17.3	4,540	<4.3	<1.2	716	<3.1	62.2	78	0.081 J	<44	<44	<44	<44
SAIA-SB/SG45	04/25/2017	N	24	36,900	2.1 J	4.2 J	223	0.94 J	<0.68	23,100	38.7	22	46.8	40,300	9.3 J	14,700	572	27.6	5,170	<4.7	<1.4	1,480	<3.4	88.8	108	0.12 J	<45	<45	<45	<45
SAIA-SB/SG45	04/25/2017	N	34	28,500	2.1 J	8 J	189	0.81 J	<0.65	17,200	37.3	19.8	42	35,200	10.1 J	12,600	615	27.4	4,410	0.85 J	<1.3	<654	<3.3	75.1	94.1	0.15	<44	<44	<44	<44
SAIA-SB/SG46	04/26/2017	N	0	11,200	1.7 J	4.1	117	<0.54	1.4	7,930	22.4	9.7	33.3 J	21,900	305	5,660	484	21.3	3,040	<3.8	<1.1	<539	<2.7	37.5	306	0.082 J	<35	<35	<35	8 J
SAIA-SB/SG46	04/26/2017	FD	0	10,400	1.6 J	3.7	103	<0.54	1.1	6,700	19.6	10.2	28.8 J	21,300	243	5,440	388	17.8	2,870	0.38 J	<1.1	<543	<2.7	35.2	245	0.087 J	<38	<38	<38	13 J
SAIA-SB/SG46	04/26/2017	N	1	15,000	0.55 J	1.3	127	<0.6	<0.6	9,840	18.7	12.1	16 J	23,100	8.3	7,730	381	12.9	4,510	<4.2	<1.2	<599	<3	44.9	68.9	0.053 J	<37	<37	<37	<37
SAIA-SB/SG46	04/26/2017	N	4	13,200	0.36 J	1.1	118	<0.57	<0.57	9,340	17.1	10.8	15 J	20,900	18.6	6,950	344	11.5	4,030	0.49 J	<1.1	<569	<2.8	40.6	72.3	0.046 J	<39	<39	<39	<39
SAIA-SB/SG46	04/26/2017	N	14	25,000	0.57 J	3.7	173	0.69	<0.64	15,000	28.7	16.1	30.7 J	30,300	6.7	11,100	522	20.9	5,280	0.71 J	<1.3	921	<3.2	62.9	93.7	0.064 J	<41	<41	<41	<41

Table 4-2
Summary of SVOC, Metals, and PCBs Detected in Soil
Southern Avenue Industrial Area Superfund Site
South Gate, Los Angeles County, California

				Semivolatiles (in ug/kg)																						
Location ID	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**2-Methylnaphthalene**	**Acenaphthene**	**Anthracene**	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene**	**Benzo(g,h,i)perylene**	**Benzo(k)fluoranthene**	**Biphenyl (Diphenyl)**	**bis(2-Ethylhexyl) Phthalate**	**Carbazole**	**Chrysene**	**Dibenz(a,h)anthracene**	**Dibenzofuran**	**Diethyl Phthalate**	**Dimethyl Phthalate**	**Di-n-Butyl Phthalate**	**Fluoranthene**	**Fluorene**	**Indeno(1,2,3-cd)pyrene**	**Naphthalene**	**Phenanthrene**	**Phenol**	**Pyrene**
SAIA-SB/SG46	04/26/2017	N	24	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<430	<220	<220	<220	<220	**360**	<220	<430	<220	<220	<220	<220	**53 J**	<220
SAIA-SB/SG46	04/26/2017	N	34	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<420	<220	<220	<220	<220	**280**	<220	<420	<220	<220	<220	<220	**46 J**	<220
SAIA-SB/SG47	04/26/2017	N	0	<180	**42 J**	**78 J**	**370**	**360**	**390**	**110 J**	**270**	<180	<180	**83 J**	**510**	**43 J**	**69 J**	<180	**220**	<180	**1,000**	**94 J**	**130 J**	**66 J**	**1,000**	**43 J**	**860**
SAIA-SB/SG47	04/26/2017	N	1	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<360	<190	<190	<190	<190	**330**	<190	<360	<190	<190	<190	<190	**67 J**	<190
SAIA-SB/SG47	04/26/2017	FD	1	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	**300**	<190	<370	<190	<190	<190	<190	**65 J**	<190
SAIA-SB/SG47	04/26/2017	N	4	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<380	<190	<190	<190	<190	**340**	<190	<380	<190	<190	<190	<190	**78 J**	<190
SAIA-SB/SG47	04/26/2017	N	14	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<410	<210	<210	<210	<210	**360**	<210	<410	<210	<210	<210	<210	**97 J**	<210
SAIA-SB/SG47	04/26/2017	N	24	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<430	<220	<220	<220	<220	**500**	<220	<430	<220	<220	<220	<220	**100 J**	<220
SAIA-SB/SG47	04/26/2017	N	34	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<430	<220	<220	<220	<220	**510**	<220	<430	<220	<220	<220	<220	**120 J**	<220
Screening Criteria																											
RSL for Soil -Residential [1]				240,000	3.6E+06	1.8E+07	1,100	110	1,100	NA	11,000	47,000	39,000	NA	110,000	110	73,000	5.1E+06	5.1E+06	6.3E+06	2.4E+06	2.4E+06	1,100	3,800	NA	1.9E+07	1.8E+06
RSL for Soil - Industrial [1]				3.0E+06	4.5E+07	2.3E+08	21,000	2,100	21,000	NA	210,000	200,000	160,000	NA	2.1E+06	2,100	1.0E+06	6.6E+07	6.6E+07	8.2E+07	3.0E+07	3.0E+07	21,000	17,000	NA	250000000	2.3E+07

Notes:

exceeds RSL for Soil - Residential

exceeds RSL for Soil - Industrial

[1] Based on USEPA Regional Screening Levels for Residential and Industrial Soils, Hazard Quotient = 1.0 (EPA RSLs, May 2018).

[2] Based on California-modified RSLs (DTSC, 2018 - Table 1 Screening Levels for Soil, HERO HHRA Note Number 3, DTSC-modified Screening Levels [DTSC-SLs] [June 2018 release date])

Detected results shown in bold

bgs = below ground surface

FD = Field duplicate sample results

J = Concentration is estimated

mg/kg = Milligrams per kilogram

N = Normal sample results

NA = Not available

R = Rejected results

RSL = Regional Screening Level

ug/kg = Micrograms per kilogram

-- = Not analyzed

Table 4-2
Summary of SVOC, Metals, and PCBs Detected in Soil
Southern Avenue Industrial Area Superfund Site
South Gate, Los Angeles County, California

				Metals (in mg/kg)																				PCBs (in ug/kg)			
Location ID	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Aluminum**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Calcium**	**Chromium**	**Cobalt**	**Copper**	**Iron**	**Lead**	**Magnesium**	**Manganese**	**Nickel**	**Potassium**	**Selenium**	**Silver**	**Sodium**	**Thallium**	**Vanadium**	**Zinc**	**Mercury**	**PCB-1016 (Arochlor 1016)**	**PCB-1248 (Arochlor 1248)**	**PCB-1254 (Arochlor 1254)**	**PCB-1260 (Arochlor 1260)**
SAIA-SB/SG46	04/26/2017	N	24	**32,600**	**0.5 J**	**9.5**	**218**	**0.89**	<0.65	**13,400**	**35.5**	**20.7**	**40.7 J**	**38,400**	**8.5**	**14,100**	**572**	**26.9**	**5,510**	<4.6	<1.3	**1,280**	<3.2	**76.5**	**112**	**0.048 J**	<43	<43	<43	<43
SAIA-SB/SG46	04/26/2017	N	34	**25,500**	**0.52 J**	**22.1**	**179**	**0.71**	<0.62	**21,400**	**28.7**	**16.7**	**29.9 J**	**32,700**	**7.1**	**11,700**	**578**	**21.4**	**4,800**	<4.4	<1.2	**678**	<3.1	**63.8**	**90.4**	**0.18**	<42	<42	<42	<42
SAIA-SB/SG47	04/26/2017	N	0	**12,500**	**1.4 J**	**2.6**	**116**	<0.55	**0.92**	**7,460**	**23.1**	**10.6**	**55.7 J**	**20,800**	**137**	**6,190**	**359**	**20.3**	**3,550**	**0.52 J**	<1.1	<546	<2.7	**39.5**	**176**	**0.064 J**	<36	<36	<36	**27 J**
SAIA-SB/SG47	04/26/2017	N	1	**13,300**	**0.51 J**	**0.93 J**	**115**	<0.56	<0.56	**7,420**	**17**	**11.1**	**13.9 J**	**21,200**	**8**	**6,950**	**346**	**11.2**	**4,240**	**0.45 J**	<1.1	<559	<2.8	**41.5**	**64.6**	**0.032 J**	<36	<36	<36	<36
SAIA-SB/SG47	04/26/2017	FD	1	**14,500**	**0.38 J**	**1.5**	**121**	<0.58	<0.58	**8,050**	**18.5**	**11.8**	**15.8 J**	**22,800**	**19.1**	**7,470**	**388**	**12.5**	**4,490**	<4.1	<1.2	<580	<2.9	**44.5**	**79.7**	**0.045 J**	<37	<37	<37	<37
SAIA-SB/SG47	04/26/2017	N	4	**14,500**	**0.35 J**	**1.3**	**120**	<0.56	<0.56	**7,950**	**18.2**	**11.8**	**16.4 J**	**22,300**	**8.8**	**7,400**	**357**	**12.6**	**4,280**	<3.9	<1.1	<560	<2.8	**43.6**	**69.4**	**0.04 J**	<38	<38	<38	<38
SAIA-SB/SG47	04/26/2017	N	14	**17,600**	**0.36 J**	**1.8**	**131**	<0.61	<0.61	**15,200**	**22.1**	**13.4**	**18.2 J**	**26,000**	**7.6**	**8,970**	**500**	**14.8**	**4,850**	**0.44 J**	<1.2	**767**	<3	**54.1**	**75.1**	**0.052 J**	<41	<41	<41	<41
SAIA-SB/SG47	04/26/2017	N	24	**33,100**	**0.53 J**	**2.6**	**235**	**0.94**	<0.67	**20,600**	**34.9**	**20.5**	**42.1 J**	**37,200**	**9.3**	**13,800**	**667**	**26.2**	**5,540**	**0.65 J**	<1.3	**941**	<3.3	**75.6**	**115**	**0.17**	<43	<43	<43	<43
SAIA-SB/SG47	04/26/2017	N	34	**26,000**	**0.37 J**	**13.6**	**211**	**0.68**	<0.66	**13,200**	**30**	**20**	**28.5 J**	**35,900**	**6**	**13,200**	**604**	**22.5**	**6,340**	**3 J**	<1.3	<661	<3.3	**71.2**	**104**	**0.082 J**	<43	<43	<43	<43
Screening Criteria																														
RSL for Soil -Residential [1]				77,000	31	0.11 [2]	15,000	160	71	NA	120,000	23	3,100	55,000	80 [2]	NA	1,800	1,500	NA	39	39	NA	0.78	390	23,000	11	4,100	230	120	240
RSL for Soil - Industrial [1]				1.1E+06	470	0.36 [2]	220,000	2,300	980	NA	1.8E+06	350	47,000	820,000	320 [2]	NA	26,000	22,000	NA	580	580	NA	12	5,800	350,000	46	27,000	950	970	990

Notes:

exceeds RSL for Soil - Residential

exceeds RSL for Soil - Industrial

[1] Based on USEPA Regional Screening Levels for Residential and Industrial Soils, Hazard Quotient = 1.0 (EPA RSLs, May 2018).

[2] Based on California-modified RSLs (DTSC, 2018 - Table 1 Screening Levels for Soil, HERO HHRA Note Number 3, DTSC-modified Screening Levels [DTSC-SLs] [June 2018 release date])

Detected results shown in bold

bgs = below ground surface

FD = Field duplicate sample results

J = Concentration is estimated

mg/kg = Milligrams per kilogram

N = Normal sample results

NA = Not available

R = Rejected results

RSL = Regional Screening Level

ug/kg = Micrograms per kilogram

-- = Not analyzed

Table 4-3
VOCs Detected in Soil Gas Samples
Southern Avenue Industrial Area
South Gate, California

			Volatiles (in ug/m3)																			
Location ID	Sample Depth (feet bgs)	Sample Date	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Difluoroethane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,3,5-Trimethylbenzene	1,4-Dichlorobenzene	1,4-Dioxane (p-Dioxane)	Benzene	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethylene	Dichlorodifluoromethane	Ethylbenzene
SAIA-SB/SG01	5	04/12/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG01	15	04/12/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**44**	<25	<22
SAIA-SB/SG01	25	04/12/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**250**	<25	<22
SAIA-SB/SG01	35	04/12/2013	<280	<350	<390	<280	<410	<200	<270	<380	<250	<210	<250	<300	<360	<160	--	<270	<250	<210	**1,900**	<250	<220
SAIA-SB/SG02	5	04/11/2013	<69	<87	<96	<69	<100	<50	<68	<94	<62	<51	<62	<76	<91	<40	--	<67	<62	<52	**1,600**	<63	<55
SAIA-SB/SG02	5 Dup	04/11/2013	<69	<87	<96	<69	<100	<50	<68	<94	<62	<51	<62	<76	<91	<40	--	<67	<62	<52	**790**	<63	<55
SAIA-SB/SG02	15	04/11/2013	<28	<35	<39	<28	**110**	<20	<27	<38	**26**	<21	<25	<30	<36	**41**	--	<27	<25	<21	**2,700**	<25	<22
SAIA-SB/SG02	25	04/11/2013	<69	<87	<96	<69	**280**	**320**	<68	<94	<62	<51	<62	<76	<91	<40	--	<67	<62	<52	**6,700**	<63	<55
SAIA-SB/SG02	35	04/11/2013	<69	<87	<96	<69	**8,100**	**1,300**	<68	<94	<62	**75**	<62	<76	<91	**75**	--	<67	<62	<52	**360,000**	<63	<55
SAIA-SB/SG03	5	04/10/2013	<2800	<3500	<3900	<2800	**17,000**	<2000	<2700	<3800	**14,000**	<2100	**4,300**	<3000	<3600	<1600	--	<2700	<2500	<2100	**210,000**	<2500	<2200
SAIA-SB/SG03	5 Dup	04/10/2013	<2800	<3500	<3900	<2800	**21,000**	<2000	<2700	<3800	**23,000**	<2100	**6,100**	<3000	<3600	<1600	--	<2700	<2500	<2100	**330,000**	<2500	<2200
SAIA-SB/SG03	15	04/11/2013	<690	<870	<960	<690	<1000	<500	<680	<940	<620	<510	<620	<760	<910	<400	--	<670	<620	<520	**8,400**	<630	<550
SAIA-SB/SG03	25	04/10/2013	<2800	<3500	<3900	<2800	**16,000**	**3,400**	<2700	<3800	**5,800**	<2100	<2500	<3000	<3600	<1600	--	<2700	<2500	<2100	**130,000**	<2500	<2200
SAIA-SB/SG03	35	04/11/2013	<34000	<44000	<48000	<34000	**190,000**	<25000	<34000	<47000	<31000	<26000	<31000	<38000	<46000	<20000	--	<33000	<31000	<26000	**4,900,000**	<31000	<27000
SAIA-SB/SG04	5	04/11/2013	**160**	<35	<39	<28	**1,900**	**120**	<27	<38	**320**	<21	**79**	<30	<36	**70**	--	<27	**120**	<21	**40,000**	<25	**26**
SAIA-SB/SG04	15	04/11/2013	<1400	<1700	<1900	<1400	**2,800**	<1000	<1400	<1900	<1200	<1000	<1200	<1500	<1800	<810	--	<1300	<1200	<1000	**13,000**	<1300	<1100
SAIA-SB/SG04	25	04/11/2013	<1400	<1700	<1900	<1400	**11,000**	<1000	<1400	<1900	<1200	<1000	<1200	<1500	<1800	<810	--	<1300	<1200	<1000	**77,000**	<1300	<1100
SAIA-SB/SG04	35	04/11/2013	<3400	<4400	<4800	<3400	**23,000**	<2500	<3400	<4700	<3100	<2600	<3100	<3800	<4600	<2000	--	<3300	<3100	<2600	**650,000**	<3100	<2700
SAIA-SB/SG05	5	04/16/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**210**	<25	<22
SAIA-SB/SG05	5 Dup	04/16/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**240**	<25	<22
SAIA-SB/SG05	15	04/16/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**70**	--	<27	<25	<21	**80**	<25	<22
SAIA-SB/SG05	25	04/16/2013	<28	<35	<39	<28	<41	**30**	<27	<38	<25	<21	<25	<30	<36	**170**	--	<27	<25	<21	**200**	<25	<22
SAIA-SB/SG05	35	04/16/2013	<280	<350	<390	<280	<410	<200	<270	<380	<250	<210	<250	<300	<360	<160	--	<270	<250	<210	**810**	<250	<220
SAIA-SB/SG06	5	04/08/2013	<28	<35	<39	<28	**220**	**44**	<27	<38	**1,600**	<21	**540**	<30	<36	**43**	--	<27	<25	<21	**1,500**	**33**	**160**
SAIA-SB/SG06	15	04/08/2013	<28	<35	<39	<28	<41	**39**	<27	<38	**120**	<21	**34**	<30	<36	<16	--	<27	<25	<21	**3,800**	<25	<22
SAIA-SB/SG06	25	04/08/2013	<28	<35	<39	<28	**890**	**2,900**	<27	<38	**480**	<21	**160**	<30	<36	**170**	--	<27	<25	<21	**430,000**	**85**	**50**
SAIA-SB/SG06	35	04/09/2013	<28	<35	<39	<28	**530**	**2,700**	<27	<38	**200**	<21	**58**	<30	**100**	**81**	--	<27	<25	<21	**41,000**	**230**	<22
SAIA-SB/SG07	5	04/15/2013	<1400	<1700	<1900	<1400	<2100	<1000	<1400	<1900	<1200	<1000	<1200	<1500	<1800	<810	--	<1300	<1200	<1000	**6,300**	<1300	<1100
SAIA-SB/SG07	5 Dup	04/15/2013	<1400	<1700	<1900	<1400	<2100	<1000	<1400	<1900	<1200	<1000	<1200	<1500	<1800	<810	--	<1300	<1200	<1000	**2,200**	<1300	<1100
SAIA-SB/SG07	15	04/16/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**89**	--	<27	<25	<21	**600**	<25	<22
SAIA-SB/SG07	25	04/16/2013	<28	<35	<39	<28	**1,300**	**280**	<27	<38	<25	<21	<25	<30	<36	**120**	--	<27	<25	<21	**24,000**	**34**	<22
SAIA-SB/SG07	35	04/16/2013	<690	<870	<960	<690	**5,400**	**4,100**	<680	<940	<620	<510	<620	<760	<910	<400	--	<670	<620	<520	**200,000**	<630	<550
SAIA-SB/SG08	5	04/15/2013	<14000	<17000	<19000	<14000	**83,000**	<10000	<14000	<19000	<12000	<10000	<12000	<15000	<18000	<8100	--	<13000	<12000	<10000	**230,000**	<13000	<11000
SAIA-SB/SG08	15	04/15/2013	<14000	<17000	<19000	<14000	**180,000**	**14,000**	<14000	<19000	<12000	<10000	<12000	<15000	<18000	<8100	--	<13000	<12000	<10000	**2,400,000**	<13000	<11000
SAIA-SB/SG08	25	04/15/2013	<17000	<22000	<24000	<17000	**130,000**	**23,000**	<17000	<23000	<16000	<13000	<16000	<19000	<23000	<10000	--	<17000	<15000	<13000	**4,000,000**	<16000	<14000
SAIA-SB/SG08	35	04/15/2013	<28000	<35000	<39000	<28000	**110,000**	<20000	<27000	<38000	<25000	<21000	<25000	<30000	<36000	<16000	--	<27000	<25000	<21000	**3,100,000**	<25000	<22000
SAIA-SB/SG09	5	04/10/2013	**100,000**	<44000	<48000	<34000	**430,000**	<25000	<34000	<47000	<31000	<26000	<31000	<38000	<46000	<20000	--	<33000	<31000	<26000	**3,700,000**	<31000	<27000
SAIA-SB/SG09	15	04/10/2013	<34000	<44000	<48000	<34000	**240,000**	<25000	<34000	<47000	<31000	<26000	<31000	<38000	<46000	<20000	--	<33000	<31000	<26000	**1,800,000**	<31000	<27000
SAIA-SB/SG09	25	04/10/2013	<34000	<44000	<48000	<34000	**420,000**	**140,000**	<34000	<47000	**46,000**	<26000	<31000	<38000	<46000	<20000	--	<33000	<31000	<26000	**9,100,000**	<31000	<27000
SAIA-SB/SG09	35	04/10/2013	<690	<870	<960	**1,700**	**170,000**	**30,000**	<680	<940	**2,400**	**900**	<620	<760	<910	**850**	--	<670	<620	<520	**8,400,000**	<630	**580**
SAIA-SB/SG10	5	04/10/2013	**190,000**	<870	<960	<690	**250,000**	**16,000**	<680	<940	**1,100**	<510	<620	<760	<910	<400	--	**1,800**	<620	<520	**4,400,000**	<630	<550
SAIA-SB/SG10	15	04/10/2013	**70,000**	<44000	<48000	<34000	**380,000**	**40,000**	<34000	<47000	<31000	<26000	<31000	<38000	<46000	<20000	--	<33000	<31000	<26000	**4,000,000**	<31000	<27000
SAIA-SB/SG10	25	04/10/2013	<34000	<44000	<48000	<34000	**650,000**	**86,000**	<34000	<47000	<31000	<26000	<31000	<38000	<46000	<20000	--	<33000	<31000	<26000	**2,600,000**	<31000	<27000
SAIA-SB/SG10	35	04/10/2013	<2800	<3500	<3900	<2800	<4100	<2000	<2700	<3800	<2500	<2100	<2500	<3000	<3600	<1600	--	<2700	<2500	<2100	**42,000**	<2500	<2200

Table 4-3
VOCs Detected in Soil Gas Samples
Southern Avenue Industrial Area
South Gate, California

			Volatiles (in ug/m^3)																
Location ID	Sample Depth (feet bgs)	Sample Date	Isopropanol	Isopropylbenzene (Cumene)	m,p-Xylene	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	Trichloroethene (TCE)	Vinyl Chloride
SAIA-SB/SG01	5	04/12/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**13,000**	<19	<40	**130**	<13
SAIA-SB/SG01	15	04/12/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**720**	<19	<40	**100**	<13
SAIA-SB/SG01	25	04/12/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**42,000**	<19	<40	**18,000**	<13
SAIA-SB/SG01	35	04/12/2013	--	<250	<440	<180	<270	<280	<250	<220	<280	<280	--	<280	**6,100**	<190	<400	**8,100**	<130
SAIA-SB/SG02	5	04/11/2013	--	<62	<110	<44	<66	<70	<62	<55	<70	<70	--	<70	**3,400**	<48	<100	**1,700**	<32
SAIA-SB/SG02	5 Dup	04/11/2013	--	<62	<110	<44	<66	<70	<62	<55	<70	<70	--	<70	**3,200**	<48	<100	**2,400**	<32
SAIA-SB/SG02	15	04/11/2013	--	<25	<44	<18	<27	<28	<25	<22	**47**	<28	--	<28	**4,400**	<19	**41**	**8,400**	<13
SAIA-SB/SG02	25	04/11/2013	--	<62	<110	<44	<66	<70	<62	<55	<70	<70	--	<70	**220**	<48	**610**	**18,000**	**73**
SAIA-SB/SG02	35	04/11/2013	--	<62	<110	<44	<66	<70	<62	<55	<70	<70	--	<70	**610**	<48	**7,700**	**280,000**	**2,500**
SAIA-SB/SG03	5	04/10/2013	--	<2500	<4400	<1800	<2700	<2800	<2500	**3,200**	**4,400**	<2800	--	<2800	<3400	**2,500**	<4000	**140,000**	**88,000**
SAIA-SB/SG03	5 Dup	04/10/2013	--	<2500	**4,800**	<1800	<2700	<2800	<2500	**3,400**	**7,800**	<2800	--	<2800	<3400	**2,900**	<4000	**270,000**	**91,000**
SAIA-SB/SG03	15	04/11/2013	--	<620	<1100	<440	<660	<700	<620	<550	<700	<700	--	<700	<860	<480	<1000	**3,900**	**610**
SAIA-SB/SG03	25	04/10/2013	--	<2500	<4400	<1800	<2700	<2800	<2500	<2200	<2800	<2800	--	<2800	<3400	**3,200**	<4000	**89,000**	**75,000**
SAIA-SB/SG03	35	04/11/2013	--	<31000	<55000	<22000	<33000	<35000	<31000	<27000	<35000	<35000	--	<35000	<43000	<24000	<50000	**7,800,000**	**130,000**
SAIA-SB/SG04	5	04/11/2013	--	**54**	**53**	<18	<27	<28	<25	**32**	**100**	**96**	--	<28	**6,700**	**44**	**260**	**130,000**	**390**
SAIA-SB/SG04	15	04/11/2013	--	<1200	<2200	<880	<1300	<1400	<1200	<1100	<1400	<1400	--	<1400	**8,200**	<950	<2000	**130,000**	<650
SAIA-SB/SG04	25	04/11/2013	--	<1200	<2200	<880	<1300	<1400	<1200	<1100	<1400	<1400	--	<1400	**5,300**	<950	**2,100**	**310,000**	<650
SAIA-SB/SG04	35	04/11/2013	--	<3100	<5500	<2200	<3300	<3500	<3100	<2700	<3500	<3500	--	<3500	<4300	<2400	**11,000**	**650,000**	**6,300**
SAIA-SB/SG05	5	04/16/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**990**	<19	<40	**1,200**	<13
SAIA-SB/SG05	5 Dup	04/16/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**970**	<19	<40	**1,200**	<13
SAIA-SB/SG05	15	04/16/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**770**	<19	<40	**2,500**	<13
SAIA-SB/SG05	25	04/16/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**130**	<19	**83**	**11,000**	<13
SAIA-SB/SG05	35	04/16/2013	--	<250	<440	<180	<270	<280	<250	<220	<280	<280	--	<280	<340	<190	<400	**20,000**	<130
SAIA-SB/SG06	5	04/08/2013	--	**130**	**570**	<18	<27	**350**	**150**	**300**	**280 J**	**220**	--	**210**	**190**	**110**	**62**	**440**	**5,000**
SAIA-SB/SG06	15	04/08/2013	--	<25	<44	<18	<27	**44**	<25	<22	**29 J**	<28	--	<28	<34	<19	<40	**43**	**500**
SAIA-SB/SG06	25	04/08/2013	--	<25	**160**	<18	<27	<28	**53**	**71**	**120 J**	**83**	--	**64**	**78**	**110**	**1,900**	**3,200**	**120,000**
SAIA-SB/SG06	35	04/09/2013	--	<25	<44	<18	**46**	<28	<25	<22	**51**	**74**	--	<28	<34	**24**	**2,000**	**21,000**	**4,900**
SAIA-SB/SG07	5	04/15/2013	--	<1200	<2200	<880	<1300	<1400	<1200	<1100	<1400	<1400	--	<1400	<1700	<950	<2000	**12,000**	<650
SAIA-SB/SG07	5 Dup	04/15/2013	--	<1200	<2200	<880	<1300	<1400	<1200	<1100	<1400	<1400	--	<1400	<1700	<950	<2000	**18,000**	<650
SAIA-SB/SG07	15	04/16/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	**23**	<40	**6,100**	<13
SAIA-SB/SG07	25	04/16/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**90**	**27**	**630**	**120,000**	**130**
SAIA-SB/SG07	35	04/16/2013	--	<620	<1100	<440	<660	<700	<620	<550	<700	<700	--	<700	<860	<480	**7,300**	**340,000**	**6,800**
SAIA-SB/SG08	5	04/15/2013	--	<12000	<22000	<8800	<13000	<14000	<12000	<11000	<14000	<14000	--	<14000	<17000	<9500	<20000	<14000	**450,000**
SAIA-SB/SG08	15	04/15/2013	--	<12000	<22000	<8800	<13000	<14000	<12000	<11000	<14000	<14000	--	<14000	<17000	<9500	<20000	**880,000**	**480,000**
SAIA-SB/SG08	25	04/15/2013	--	<16000	<27000	<11000	<17000	<17000	<16000	<14000	<17000	<17000	--	<17000	<22000	<12000	<25000	**85,000**	**400,000**
SAIA-SB/SG08	35	04/15/2013	--	<25000	<44000	<18000	<27000	<28000	<25000	<22000	<28000	<28000	--	<28000	<34000	<19000	**65,000**	**770,000**	**200,000**
SAIA-SB/SG09	5	04/10/2013	--	<31000	<55000	<22000	<33000	<35000	<31000	<27000	<35000	<35000	--	<35000	<43000	<24000	<50000	**5,800,000**	**93,000**
SAIA-SB/SG09	15	04/10/2013	--	<31000	<55000	<22000	<33000	<35000	<31000	<27000	<35000	<35000	--	<35000	<43000	<24000	<50000	**3,200,000**	**51,000**
SAIA-SB/SG09	25	04/10/2013	--	<31000	<55000	<22000	<33000	**45,000**	<31000	<27000	<35000	<35000	--	<35000	<43000	<24000	**63,000**	**3,000,000**	**200,000**
SAIA-SB/SG09	35	04/10/2013	--	**890**	<1100	<440	<660	**1,900**	**650**	<550	**780**	**1,000**	--	<700	**5,200**	**990**	**29,000**	**6,600,000**	**300,000**
SAIA-SB/SG10	5	04/10/2013	--	<620	<1100	<440	<660	<700	<620	**640**	<700	<700	--	<700	**1,100**	**1,500**	**52,000**	**63,000**	**520,000**
SAIA-SB/SG10	15	04/10/2013	--	<31000	<55000	<22000	<33000	<35000	<31000	<27000	<35000	<35000	--	<35000	<43000	<24000	<50000	<34000	**1,900,000**
SAIA-SB/SG10	25	04/10/2013	--	<31000	<55000	<22000	<33000	<35000	<31000	<27000	<35000	<35000	--	<35000	<43000	<24000	<50000	<34000	**6,100,000**
SAIA-SB/SG10	35	04/10/2013	--	<2500	<4400	<1800	<2700	<2800	<2500	<2200	<2800	<2800	--	<2800	<3400	<1900	<4000	**16,000**	**9,100**

Table 4-3
VOCs Detected in Soil Gas Samples
Southern Avenue Industrial Area
South Gate, California

			Volatiles (in ug/m3)																			
Location ID	Sample Depth (feet bgs)	Sample Date	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Difluoroethane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,3,5-Trimethylbenzene	1,4-Dichlorobenzene	1,4-Dioxane (p-Dioxane)	Benzene	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethylene	Dichlorodifluoromethane	Ethylbenzene
SAIA-SB/SG11	5	04/16/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**200**	<25	<22
SAIA-SB/SG11	15	04/16/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**21**	--	<27	<25	<21	**74**	<25	<22
SAIA-SB/SG11	25	04/16/2013	<28	<35	<39	<28	<41	<20	<27	<38	**43**	<21	<25	<30	<36	<16	--	<27	<25	<21	**590**	<25	<22
SAIA-SB/SG11	35	04/16/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG12	5	04/11/2013	<3400	<4400	<4800	<3400	<5100	<2500	<3400	<4700	<3100	<2600	<3100	<3800	<4600	<2000	--	<3300	<3100	<2600	**15,000**	<3100	<2700
SAIA-SB/SG12	15	04/12/2013	<28	<35	<39	<28	**130**	<20	<27	<38	**80**	<21	**32**	<30	<36	**57**	--	<27	<25	<21	**5,200**	<25	<22
SAIA-SB/SG12	25	04/12/2013	<28	<35	<39	<28	**160**	**190**	<27	<38	**110**	<21	**29**	<30	<36	**96**	--	<27	<25	<21	**6,600**	<25	<22
SAIA-SB/SG12	35	04/12/2013	<28	<35	<39	<28	**110**	<20	<27	<38	**110**	<21	**31**	<30	<36	**46**	--	<27	<25	<21	**5,200**	<25	<22
SAIA-SB/SG13	5	04/09/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**180**	<25	<22
SAIA-SB/SG13	15	04/09/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**44**	--	<27	<25	<21	**160**	<25	<22
SAIA-SB/SG13	25	04/09/2013	<28	<35	<39	<28	<41	<20	**190**	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG13	35	04/09/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**72**	<25	<22
SAIA-SB/SG14	5	04/09/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	**30**	<22
SAIA-SB/SG14	15	04/09/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG14	15 Dup	04/09/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG14	25	04/09/2013	<28	<35	<39	<28	<41	<20	<27	<38	**54**	<21	**25**	<30	<36	**31**	--	<27	<25	<21	**230**	**200**	**24**
SAIA-SB/SG14	35	04/09/2013	<28	<35	<39	<28	<41	**44**	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**150**	**150**	<22
SAIA-SB/SG15	5	04/15/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG15	15	04/15/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**110**	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG15	25	04/15/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**23**	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG15	35	04/15/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG16	5	04/12/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**120**	<25	<22
SAIA-SB/SG16	5 Dup	04/12/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**66**	<25	<22
SAIA-SB/SG16	15	04/12/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**29**	--	<27	<25	<21	**55**	<25	<22
SAIA-SB/SG16	25	04/15/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**72**	--	<27	<25	<21	**870**	<25	<22
SAIA-SB/SG16	35	04/15/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG17	5	04/12/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG17	15	04/12/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**38**	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG17	25	04/12/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**100**	--	<27	<25	<21	**270**	<25	<22
SAIA-SB/SG17	35	04/12/2013	<28	<35	<39	<28	**130**	<20	<27	<38	<25	<21	<25	<30	<36	**36**	--	<27	<25	<21	**3,000**	<25	<22
SAIA-SB/SG18	5	04/16/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG18	15	04/16/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**82**	<25	<22
SAIA-SB/SG18	25	04/16/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG18	35	04/17/2013	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG19	5	04/29/2014	**2,400**	<35	<39	<28	**2,000**	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	**85**	<21	**17,000**	<25	<22
SAIA-SB/SG19	15	04/29/2014	**64**	<35	<39	<28	**1,700**	**85**	<27	<38	<25	<21	**43**	<30	<36	**350**	--	<27	<25	<21	**5,300**	<25	**100**
SAIA-SB/SG19	25	04/29/2014	**150**	<35	<39	<28	**18,000**	**660**	<27	<38	**91**	**110**	**200**	<30	<36	**600**	--	**440**	<25	<21	**22,000**	<25	**270**
SAIA-SB/SG19	35	04/29/2014	**38**	<35	<39	<28	**820**	**700**	<27	<38	<25	<21	<25	<30	<36	**98**	--	<27	<25	<21	**6,800**	<25	**70**
SAIA-SB/SG20	5	04/30/2014	**76**	<35	<39	<28	**22,000**	**710**	<27	<38	**260**	**72**	**39**	<30	<36	**340**	--	**650**	<25	<21	**610,000 J**	<25	**150**
SAIA-SB/SG20	15	04/30/2014	<28	<35	<39	<28	**20,000**	**9,400**	<27	<38	**180**	**440**	**32**	<30	<36	**910**	--	**8,800**	<25	<21	**3,000,000 J**	<25	<22
SAIA-SB/SG20	25	04/30/2014	<28	<35	<39	<28	**5,900**	**55,000**	<27	<38	**280**	<21	**35**	<30	<36	**430**	--	**19,000**	<25	<21	**23,000,000 J**	<25	**94**
SAIA-SB/SG20	35	05/01/2014	<28	<35	<39	<28	**62,000**	**20,000**	<27	<38	**38**	**230**	**91**	<30	<36	**310**	--	**730**	<25	<21	**5,200,000**	<25	**110**
SAIA-SB/SG21	5	04/30/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22

Table 4-3
VOCs Detected in Soil Gas Samples
Southern Avenue Industrial Area
South Gate, California

			Volatiles (in ug/m^3)																
Location ID	Sample Depth (feet bgs)	Sample Date	Isopropanol	Isopropylbenzene (Cumene)	m,p-Xylene	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	Trichloroethene (TCE)	Vinyl Chloride
SAIA-SB/SG11	5	04/16/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	**170**	<13
SAIA-SB/SG11	15	04/16/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	**53**	<13
SAIA-SB/SG11	25	04/16/2013	--	<25	<44	<18	<27	<28	<25	<22	**70**	<28	--	<28	**130**	**26**	<40	**830**	**21**
SAIA-SB/SG11	35	04/16/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	<27	<13
SAIA-SB/SG12	5	04/11/2013	--	<3100	<5500	<2200	<3300	<3500	<3100	<2700	<3500	<3500	--	<3500	<4300	<2400	<5000	**22,000**	<1600
SAIA-SB/SG12	15	04/12/2013	--	<25	<44	<18	<27	**32**	<25	<22	**36**	<28	--	<28	**81**	<19	**46**	**8,900**	<13
SAIA-SB/SG12	25	04/12/2013	--	<25	**45**	<18	<27	<28	<25	**32**	<28	<28	--	<28	**120**	**34**	**91**	**15,000**	**66**
SAIA-SB/SG12	35	04/12/2013	--	<25	<44	<18	<27	<28	<25	<22	**44**	<28	--	<28	**80**	**23**	<40	**9,900**	<13
SAIA-SB/SG13	5	04/09/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**2,900**	<19	<40	**61**	**53**
SAIA-SB/SG13	15	04/09/2013	--	<25	<44	<18	<27	<28	<25	<22	**170**	<28	--	<28	**3,600**	**94**	<40	**110**	**35**
SAIA-SB/SG13	25	04/09/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**61**	<19	<40	**43**	<13
SAIA-SB/SG13	35	04/09/2013	--	<25	<44	<18	<27	<28	<25	<22	**65**	<28	--	<28	**550**	<19	<40	**290**	<13
SAIA-SB/SG14	5	04/09/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**46**	<19	<40	**110**	<13
SAIA-SB/SG14	15	04/09/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	<27	<13
SAIA-SB/SG14	15 Dup	04/09/2013	--	<25	<44	<18	<27	<28	<25	<22	**30**	<28	--	<28	<34	**34**	<40	**35**	<13
SAIA-SB/SG14	25	04/09/2013	--	<25	**54**	<18	<27	<28	<25	**23**	**70**	<28	--	<28	**140**	**91**	<40	**480**	**18**
SAIA-SB/SG14	35	04/09/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	**570**	<13
SAIA-SB/SG15	5	04/15/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**750**	<19	<40	<27	<13
SAIA-SB/SG15	15	04/15/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**810**	**40**	<40	**32**	<13
SAIA-SB/SG15	25	04/15/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**1,600**	<19	<40	**460**	<13
SAIA-SB/SG15	35	04/15/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**1,200**	<19	<40	**580**	<13
SAIA-SB/SG16	5	04/12/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**280**	<19	<40	**110**	<13
SAIA-SB/SG16	5 Dup	04/12/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**390**	<19	<40	**49**	<13
SAIA-SB/SG16	15	04/12/2013	--	<25	<44	<18	<27	<28	<25	<22	**38**	<28	--	<28	**820**	**35**	<40	**72**	<13
SAIA-SB/SG16	25	04/15/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**1,100**	<19	<40	**880**	<13
SAIA-SB/SG16	35	04/15/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**610**	<19	<40	**170**	<13
SAIA-SB/SG17	5	04/12/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**190**	**27**	<40	**82**	<13
SAIA-SB/SG17	15	04/12/2013	--	<25	<44	<18	<27	<28	<25	<22	**35**	<28	--	<28	**210**	**44**	<40	**39**	<13
SAIA-SB/SG17	25	04/12/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**1,400**	**53**	<40	**1,700**	<13
SAIA-SB/SG17	35	04/12/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**480**	**19**	**69**	**6,800**	**27**
SAIA-SB/SG18	5	04/16/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	**65**	<13
SAIA-SB/SG18	15	04/16/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	**200**	<13
SAIA-SB/SG18	25	04/16/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	**280**	<13
SAIA-SB/SG18	35	04/17/2013	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	**25**	<40	<27	<13
SAIA-SB/SG19	5	04/29/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**1,100**	<19	**370**	**30,000**	<13
SAIA-SB/SG19	15	04/29/2014	--	**43**	<44	<18	<27	**34**	**34**	**150**	**43**	**56**	--	<28	**1,200**	**210**	**500**	**35,000**	**13,000**
SAIA-SB/SG19	25	04/29/2014	--	**200**	**290**	<18	<27	**270**	**170**	**490**	**180**	**290**	--	<28	**410**	**1,900**	**6,400**	**230,000**	**810,000**
SAIA-SB/SG19	35	04/29/2014	--	<25	**63**	<18	<27	<28	<25	**38**	<28	<28	--	<28	**2,200**	**87**	**460**	**21,000**	**38,000**
SAIA-SB/SG20	5	04/30/2014	--	**39**	**390**	<18	<27	**41**	**45**	<22	**69**	**34**	--	**41**	**290**	**460**	**1,700**	**17,000**	**170,000**
SAIA-SB/SG20	15	04/30/2014	--	**32**	**240**	<18	<27	**37**	**36**	<22	**58**	**31**	--	<28	**440**	**740**	**19,000**	**7,700**	**85,000**
SAIA-SB/SG20	25	04/30/2014	--	**35**	**290**	<18	<27	**52**	**41**	**140**	**74**	**44**	--	**38**	**140**	**240**	**90,000**	**270,000**	**98,000**
SAIA-SB/SG20	35	05/01/2014	--	**90**	**91**	<18	<27	**99**	**74**	**110**	<28	**120**	--	<28	**2,000**	**360**	**93,000**	**4,100,000**	**80,000**
SAIA-SB/SG21	5	04/30/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**93**	<19	<40	**160**	<13

Table 4-3
VOCs Detected in Soil Gas Samples
Southern Avenue Industrial Area
South Gate, California

			Volatiles (in ug/m3)																		
Location ID	Sample Depth (feet bgs)	Sample Date	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Difluoroethane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,3,5-Trimethylbenzene	1,4-Dichlorobenzene	1,4-Dioxane (p-Dioxane)	Benzene	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethylene	Dichlorodifluoromethane	Ethylbenzene
SAIA-SB/SG21	15	04/30/2014	<28	<35	<39	<28	**510**	<20	<27	<38	<25	<21	<25	<30	<36	**40**	--	<27	<25	<21	**32,000 J**	<25	<22
SAIA-SB/SG21	25	04/30/2014	<28	<35	<39	<28	**2,200**	**1,100**	<27	<38	<25	<21	<25	<30	<36	**120**	--	<27	<25	<21	**50,000 J**	<25	<22
SAIA-SB/SG21	35	04/30/2014	<28	<35	<39	<28	**930**	**1,700**	<27	<38	<25	<21	<25	<30	<36	**59**	--	<27	<25	<21	**52,000 J**	<25	<22
SAIA-SB/SG22	5	04/29/2014	<28	<35	<39	<28	<41	<20	<27	<38	**69**	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG22	5 Dup	04/29/2014	<28	<35	<39	<28	<41	<20	<27	<38	**43**	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG22	15	04/29/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**25**	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG22	25	04/29/2014	<28	<35	<39	<28	<41	<20	<27	<38	**78**	<21	<25	<30	<36	**120**	--	<27	<25	<21	**120**	<25	<22
SAIA-SB/SG22	35	04/30/2014	<28	<35	<39	<28	<41	**26**	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**190 J**	**47**	<22
SAIA-SB/SG22	35 Dup	04/30/2014	<28	<35	<39	<28	<41	**40**	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**210 J**	**51**	<22
SAIA-SB/SG23	5	04/21/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG23	15	04/21/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG23	25	04/21/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**43**	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG23	35	04/21/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**55**	<25	<22
SAIA-SB/SG24	5	04/23/2014	**50**	<35	<39	<28	**180**	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**170**	<25	<22
SAIA-SB/SG24	15	04/23/2014	**56**	<35	<39	<28	**360**	**81**	<27	<38	<25	<21	<25	<30	<36	**19**	--	<27	<25	<21	**3,900**	<25	<22
SAIA-SB/SG24	25	04/23/2014	<28	<35	**43**	<28	<41	**110**	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**1,200**	<25	**40**
SAIA-SB/SG24	35	04/23/2014	**610**	<35	<39	<28	**53,000 J**	**35,000 J**	<27	<38	<25	<21	<25	<30	<36	**840**	--	<27	**120**	<21	**420,000**	<25	**93**
SAIA-SB/SG25	5	04/28/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG25	15	04/28/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**20**	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG25	15 Dup	04/28/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**26**	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG25	25	04/28/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**28**	--	<27	<25	**58**	**81 J**	<25	<22
SAIA-SB/SG25	35	04/28/2014	<28	<35	<39	<28	<41	**100**	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**6,700 J**	<25	<22
SAIA-SB/SG26	5	04/23/2014	<28	<35	<39	<28	<41	<20	<27	**65 J**	<25	<21	<25	**770**	<36	**41**	--	<27	<25	<21	**290**	<25	<22
SAIA-SB/SG26	5 Dup	04/23/2014	<28	<35	<39	<28	<41	<20	<27	**72 J**	<25	<21	<25	**770**	<36	**46**	--	<27	<25	<21	**240**	<25	<22
SAIA-SB/SG26	15	04/23/2014	<28	<35	<39	<28	**900**	**110**	<27	<38	<25	<21	<25	<30	<36	**42**	--	<27	<25	<21	**17,000**	<25	<22
SAIA-SB/SG26	25	04/24/2014	**30**	<35	<39	<28	**4,400**	**1,100**	<27	<38	<25	<21	<25	<30	<36	**71**	--	<27	<25	<21	**98,000**	<25	<22
SAIA-SB/SG27	5	04/28/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**29**	--	<27	<25	<21	**57 J**	<25	<22
SAIA-SB/SG27	15	04/28/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**25**	--	<27	<25	<21	**340 J**	<25	<22
SAIA-SB/SG27	25	04/28/2014	<28	<35	<39	<28	**220**	<20	<27	<38	<25	<21	<25	<30	<36	**49**	--	<27	<25	<21	**4,000 J**	<25	<22
SAIA-SB/SG27	35	04/29/2014	<28	<35	<39	<28	**58**	**99**	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**14,000**	<25	<22
SAIA-SB/SG28	5	04/24/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG28	15	04/24/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG28	15 Dup	04/24/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG28	35	04/24/2014	<28	<35	<39	**50**	**220**	**130**	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**24,000**	<25	<22
SAIA-SB/SG29	5	04/24/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**1,200**	<25	<22
SAIA-SB/SG29	15	04/24/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG29	25	04/24/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**170**	--	<27	<25	<21	**83**	<25	<22
SAIA-SB/SG29	35	04/24/2014	<28	<35	<39	<28	**120**	**74**	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**7,600**	<25	<22
SAIA-SB/SG30	5	04/24/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG30	15	04/24/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG30	25	04/25/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**28**	--	<27	<25	<21	**240**	<25	<22
SAIA-SB/SG30	35	04/25/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**290**	<25	<22
SAIA-SB/SG31	5	04/24/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG31	15	04/24/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22

Table 4-3
VOCs Detected in Soil Gas Samples
Southern Avenue Industrial Area
South Gate, California

			Volatiles (in ug/m^3)																
Location ID	Sample Depth (feet bgs)	Sample Date	Isopropanol	Isopropylbenzene (Cumene)	m,p-Xylene	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	Trichloroethene (TCE)	Vinyl Chloride
SAIA-SB/SG21	15	04/30/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**570**	**67**	**150**	**8,500**	<13
SAIA-SB/SG21	25	04/30/2014	--	<25	**96**	<18	<27	<28	<25	<22	<28	<28	--	<28	**360**	**90**	**5,400**	**7,000**	**1,600**
SAIA-SB/SG21	35	04/30/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**38**	<19	**4,700**	**21,000**	**4,300**
SAIA-SB/SG22	5	04/29/2014	--	<25	<44	<18	<27	**76**	<25	<22	**61**	**44**	--	<28	**35**	<19	<40	**86**	**64**
SAIA-SB/SG22	5 Dup	04/29/2014	--	<25	<44	<18	<27	**59**	<25	<22	**46**	<28	--	<28	<34	<19	<40	**100**	**32**
SAIA-SB/SG22	15	04/29/2014	--	<25	<44	<18	<27	**45**	<25	<22	**40**	<28	--	<28	**39**	<19	<40	**180**	<13
SAIA-SB/SG22	25	04/29/2014	--	<25	<44	<18	<27	**110**	<25	<22	**97**	**43**	--	<28	**43**	**50**	<40	**310**	<13
SAIA-SB/SG22	35	04/30/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	**23**	<40	**120**	**90**
SAIA-SB/SG22	35 Dup	04/30/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	**20**	<40	**110**	**73**
SAIA-SB/SG23	5	04/21/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**63**	<19	<40	**260**	<13
SAIA-SB/SG23	15	04/21/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**91**	<19	<40	**440**	<13
SAIA-SB/SG23	25	04/21/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**89**	**55**	<40	**320**	<13
SAIA-SB/SG23	35	04/21/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**82**	<19	<40	**1,500**	<13
SAIA-SB/SG24	5	04/23/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**93**	<19	<40	**920**	<13
SAIA-SB/SG24	15	04/23/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**93**	<19	**120**	**19,000**	<13
SAIA-SB/SG24	25	04/23/2014	--	<25	**51**	<18	<27	<28	<25	<22	<28	<28	--	<28	**760**	**44**	**45**	**5,500**	<13
SAIA-SB/SG24	35	04/23/2014	--	<25	<44	<18	<27	<28	<25	**24**	**50**	<28	--	<28	**950**	**63**	**72,000 J**	**980,000**	**17,000 J**
SAIA-SB/SG25	5	04/28/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**3,000 J**	<19	<40	<27	<13
SAIA-SB/SG25	15	04/28/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**4,100 J**	<19	<40	<27	<13
SAIA-SB/SG25	15 Dup	04/28/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**3,400 J**	<19	<40	<27	<13
SAIA-SB/SG25	25	04/28/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**580 J**	**29 J**	<40	**620**	<13
SAIA-SB/SG25	35	04/28/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**6,400 J**	<19	**690**	**25,000**	**26**
SAIA-SB/SG26	5	04/23/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**65**	<19	<40	**950**	<13
SAIA-SB/SG26	5 Dup	04/23/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**36**	<19	<40	**740**	<13
SAIA-SB/SG26	15	04/23/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**37**	<19	**240**	**33,000**	**230**
SAIA-SB/SG26	25	04/24/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**75**	**30**	**1,200**	**150,000**	**6,500**
SAIA-SB/SG27	5	04/28/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**53,000 J**	**20 J**	<40	**970**	<13
SAIA-SB/SG27	15	04/28/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**30,000 J**	<19	**100**	**5,300**	<13
SAIA-SB/SG27	25	04/28/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**15,000 J**	<19	**460**	**23,000**	<13
SAIA-SB/SG27	35	04/29/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**210**	<19	**1,200**	**10,000**	<13
SAIA-SB/SG28	5	04/24/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**590**	<19	<40	<27	<13
SAIA-SB/SG28	15	04/24/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**690**	<19	<40	<27	<13
SAIA-SB/SG28	15 Dup	04/24/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**540**	<19	<40	<27	<13
SAIA-SB/SG28	35	04/24/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**310**	<19	**1,600**	**11,000**	**64**
SAIA-SB/SG29	5	04/24/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	**5,700**	<13
SAIA-SB/SG29	15	04/24/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**61**	<19	<40	<27	<13
SAIA-SB/SG29	25	04/24/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	**35**	<40	**320**	**13**
SAIA-SB/SG29	35	04/24/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**680**	<19	**530**	**9,500**	<13
SAIA-SB/SG30	5	04/24/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**400**	<19	<40	<27	<13
SAIA-SB/SG30	15	04/24/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**590**	<19	<40	<27	<13
SAIA-SB/SG30	25	04/25/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**740**	<19	<40	**1,300**	<13
SAIA-SB/SG30	35	04/25/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**490**	<19	**59**	**250**	<13
SAIA-SB/SG31	5	04/24/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**490**	<19	<40	<27	<13
SAIA-SB/SG31	15	04/24/2014	--	<25	<44	<18	<27	<28	<25	<22	**34**	<28	--	<28	**750**	<19	<40	**57**	<13

Table 4-3
VOCs Detected in Soil Gas Samples
Southern Avenue Industrial Area
South Gate, California

			Volatiles (in ug/m3)																		
Location ID	Sample Depth (feet bgs)	Sample Date	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Difluoroethane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,3,5-Trimethylbenzene	1,4-Dichlorobenzene	1,4-Dioxane (p-Dioxane)	Benzene	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethylene	Dichlorodifluoromethane	Ethylbenzene
SAIA-SB/SG31	25	04/24/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**24**	--	<27	<25	<21	**170**	<25	<22
SAIA-SB/SG31	35	04/24/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**1,600**	<25	<22
SAIA-SB/SG32	5	04/25/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG32	15	04/25/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**21**	--	<27	<25	<21	**150**	<25	<22
SAIA-SB/SG32	25	04/25/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG32	35	04/25/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**47**	<25	<22
SAIA-SB/SG33	5	04/25/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG33	5 Dup	04/25/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG33	15	04/25/2014	<28	<35	<39	<28	<41	<20	<27	<38	**2,700**	<21	**420**	<30	<36	<16	--	<27	<25	<21	<40	<25	**270**
SAIA-SB/SG33	25	04/25/2014	<28	<35	<39	<28	<41	<20	<27	<38	**600**	<21	**230**	<30	<36	**35**	--	<27	<25	<21	<40	<25	**170**
SAIA-SB/SG33	35	04/25/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**29**	--	<27	<25	<21	**630**	<25	<22
SAIA-SB/SG34	5	04/25/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG34	15	04/25/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG34	25	04/25/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG34	35	04/25/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG35	5	04/28/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG35	15	04/28/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG35	25	04/28/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**79**	--	<27	<25	<21	**51 J**	<25	<22
SAIA-SB/SG35	35	04/28/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG36	5	04/23/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG36	15	04/23/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**21**	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG36	25	04/23/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG36	35	04/23/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG37	5	04/22/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**380**	<25	<22
SAIA-SB/SG37	15	04/22/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**58**	--	<27	<25	<21	**83**	<25	<22
SAIA-SB/SG38	5	04/22/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG38	15	04/22/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**52**	--	<27	<25	<21	**350**	<25	<22
SAIA-SB/SG38	15 Dup	04/22/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**49**	--	<27	<25	<21	**330**	<25	<22
SAIA-SB/SG38	25	04/22/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**55**	--	<27	<25	<21	**510**	<25	<22
SAIA-SB/SG38	35	04/22/2014	**120**	<35	<39	<28	**45,000**	**4,400**	<27	<38	<25	**65**	**190**	<30	<36	**230**	--	<27	**44**	<21	**1,100,000**	<25	**25**
SAIA-SB/SG39	5	04/22/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG39	15	04/22/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG39	25	04/22/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**90**	--	<27	<25	<21	**140**	<25	<22
SAIA-SB/SG39	35	04/22/2014	<28	<35	<39	<28	**380**	**160**	**92**	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**34,000**	<25	<22
SAIA-SB/SG40	5	05/01/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**410**	<25	<22
SAIA-SB/SG40	15	05/01/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**23**	--	<27	<25	<21	**340**	<25	<22
SAIA-SB/SG40	25	05/01/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**200**	<25	<22
SAIA-SB/SG40	35	05/01/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**900**	<25	<22
SAIA-SB/SG40	35 Dup	05/01/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**730**	<25	<22
SAIA-SB/SG41	5	05/01/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG41	15	05/01/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**160**	<25	<22
SAIA-SB/SG41	25	05/01/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**60**	<25	<22
SAIA-SB/SG41	35	05/01/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**69**	<25	<22
SAIA-SB/SG42	5	05/02/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**21**	--	<27	<25	<21	**190**	<25	<22

Table 4-3
VOCs Detected in Soil Gas Samples
Southern Avenue Industrial Area
South Gate, California

			Volatiles (in ug/m^3)																
Location ID	Sample Depth (feet bgs)	Sample Date	Isopropanol	Isopropylbenzene (Cumene)	m,p-Xylene	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	Trichloroethene (TCE)	Vinyl Chloride
SAIA-SB/SG31	25	04/24/2014	--	<25	<44	<18	<27	<28	<25	<22	**110**	<28	--	<28	**580**	<19	<40	**2,300**	<13
SAIA-SB/SG31	35	04/24/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**560**	<19	**110**	**1,500**	<13
SAIA-SB/SG32	5	04/25/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**76**	<19	<40	<27	<13
SAIA-SB/SG32	15	04/25/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**230**	<19	<40	**980**	<13
SAIA-SB/SG32	25	04/25/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	<27	<13
SAIA-SB/SG32	35	04/25/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	**120**	<13
SAIA-SB/SG33	5	04/25/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**470**	<19	<40	<27	<13
SAIA-SB/SG33	5 Dup	04/25/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**410**	<19	<40	<27	<13
SAIA-SB/SG33	15	04/25/2014	--	**420**	**120**	<18	**260**	<28	**320**	**300**	**940**	**1,300**	--	**400**	**190**	<19	<40	<27	<13
SAIA-SB/SG33	25	04/25/2014	--	**230**	**140**	<18	**33**	<28	**110**	**46**	**3,400**	**650**	--	<28	<34	**39**	<40	<27	<13
SAIA-SB/SG33	35	04/25/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	**51**	**1,900**	<13
SAIA-SB/SG34	5	04/25/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	<27	<13
SAIA-SB/SG34	15	04/25/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	<27	<13
SAIA-SB/SG34	25	04/25/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	<27	<13
SAIA-SB/SG34	35	04/25/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	<27	<13
SAIA-SB/SG35	5	04/28/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	<27	<13
SAIA-SB/SG35	15	04/28/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	<27	<13
SAIA-SB/SG35	25	04/28/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	**34 J**	<40	**530**	<13
SAIA-SB/SG35	35	04/28/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	<27	<13
SAIA-SB/SG36	5	04/23/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	<27	<13
SAIA-SB/SG36	15	04/23/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	<27	<13
SAIA-SB/SG36	25	04/23/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	<27	<13
SAIA-SB/SG36	35	04/23/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	**40**	<13
SAIA-SB/SG37	5	04/22/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**45**	<19	<40	**400**	<13
SAIA-SB/SG37	15	04/22/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	**35**	<40	**160**	<13
SAIA-SB/SG38	5	04/22/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**46**	<19	<40	<27	<13
SAIA-SB/SG38	15	04/22/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	**53**	<40	**330**	<13
SAIA-SB/SG38	15 Dup	04/22/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**57**	**37**	<40	**270**	<13
SAIA-SB/SG38	25	04/22/2014	--	<25	**47**	<18	<27	<28	<25	<22	**74**	<28	--	<28	<34	**38**	<40	**200**	<13
SAIA-SB/SG38	35	04/22/2014	--	**190**	<44	<18	<27	<28	<25	<22	<28	**300**	--	<28	**3,100**	**180**	<10000	**940,000**	**52,000**
SAIA-SB/SG39	5	04/22/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	<27	<13
SAIA-SB/SG39	15	04/22/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	<27	<13
SAIA-SB/SG39	25	04/22/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	**47**	<40	**78**	<13
SAIA-SB/SG39	35	04/22/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**160**	<19	**1,700**	**13,000**	**76**
SAIA-SB/SG40	5	05/01/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**240**	<19	<40	**200**	<13
SAIA-SB/SG40	15	05/01/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**330**	<19	<40	**140**	<13
SAIA-SB/SG40	25	05/01/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**1,200**	<19	<40	**380**	<13
SAIA-SB/SG40	35	05/01/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	**96**	**430**	<13
SAIA-SB/SG40	35 Dup	05/01/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	**88**	**320 J**	<13
SAIA-SB/SG41	5	05/01/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	**51**	<13
SAIA-SB/SG41	15	05/01/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	**45**	<19	<40	**94**	<13
SAIA-SB/SG41	25	05/01/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	**34**	<13
SAIA-SB/SG41	35	05/01/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	<27	<13
SAIA-SB/SG42	5	05/02/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	**53**	<13

Table 4-3
VOCs Detected in Soil Gas Samples
Southern Avenue Industrial Area
South Gate, California

			Volatiles (in ug/m3)																			
Location ID	**Sample Depth (feet bgs)**	**Sample Date**	**1,1,1-Trichloroethane**	**1,1,2,2-Tetrachloroethane**	**1,1,2-Trichloro-1,2,2-trifluoroethane**	**1,1,2-Trichloroethane**	**1,1-Dichloroethane**	**1,1-Dichloroethene**	**1,1-Difluoroethane**	**1,2,4-Trichlorobenzene**	**1,2,4-Trimethylbenzene**	**1,2-Dichloroethane**	**1,3,5-Trimethylbenzene**	**1,4-Dichlorobenzene**	**1,4-Dioxane (p-Dioxane)**	**Benzene**	**Chlorobenzene**	**Chloroethane**	**Chloroform**	**Chloromethane**	**cis-1,2-Dichloroethylene**	**Dichlorodifluoromethane**	**Ethylbenzene**
SAIA-SB/SG42	15	05/02/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG42	25	05/02/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG42	35	05/02/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	**17**	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG43	5	05/01/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**62**	<25	<22
SAIA-SB/SG43	15	05/02/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG43	25	05/02/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	**60**	<25	<22
SAIA-SB/SG43	35	05/02/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG43	35 Dup	05/02/2014	<28	<35	<39	<28	<41	<20	<27	<38	<25	<21	<25	<30	<36	<16	--	<27	<25	<21	<40	<25	<22
SAIA-SB/SG44	5	04/27/2017	<10	<10	<10	<10	<8	<8	--	<10	<10	<8	<10	<10	<7	<6	<9	<5	**5 J**	<4	<8	--	**5 J**
SAIA-SB/SG44	15	04/27/2017	<10	<20	<20	<10	<9	**10**	--	<20	**7 J**	<9	<10	<10	<8	**40**	<10	<6	<10	<5	**10**	--	**9 J**
SAIA-SB/SG44	25	04/27/2017	<10	<10	<10	<10	<8	**10**	--	<10	**10 J**	<8	<9	<10	<7	**10**	**5 J**	<5	<9	**2 J**	**30**	--	**6 J**
SAIA-SB/SG44	35	04/27/2017	<10	<20	<20	<10	<10	**7 J**	--	<20	<10	<10	<10	<20	<9	**10**	<10	<7	<10	<5	**20**	--	<10
SAIA-SB/SG45	5	04/27/2017	<10	<20	<20	<10	<10	<10	--	<20	<10	<10	<10	<20	<9	**6 J**	<10	<7	<10	<5	<10	--	<10
SAIA-SB/SG45	15	04/27/2017	<10	<20	<20	<10	<9	<9	--	<20	<10	<9	<10	<10	<8	**30**	<10	<6	**30**	<5	<9	--	**6 J**
SAIA-SB/SG45	15 Dup	04/27/2017	<10	<10	<20	<10	<8	<8	--	<20	<10	<8	<10	<10	<8	**40**	<10	<6	**40**	<4	<8	--	**8 J**
SAIA-SB/SG45	25	04/27/2017	<10	<20	<20	<10	**30**	**100**	--	<20	<10	<10	<10	<10	<9	**9**	<10	<6	<10	<5	**900**	--	<10
SAIA-SB/SG45	35	04/27/2017	<10	<20	<20	<10	**30**	**100**	--	<20	<10	<10	<10	<10	<9	**5 J**	<10	<6	<10	<5	**1,100**	--	<10
SAIA-SB/SG46	5	04/27/2017	<10	<10	<20	<10	<8	<8	--	<20	<10	<8	<10	<10	<8	<7	<10	<6	<10	<4	<8	--	<9
SAIA-SB/SG46	15	04/27/2017	<10	<20	<20	<10	<10	<10	--	<20	<10	<10	<10	<20	<9	**20**	<10	<7	**10**	**3 J**	**20**	--	<10
SAIA-SB/SG46	25	04/27/2017	<10	<20	<20	<10	<9	<9	--	<20	<10	<9	<10	<10	<8	**20**	<10	<6	**10**	**2 J**	**10**	--	**5 J**
SAIA-SB/SG46	35	04/27/2017	<10	<10	<20	<10	**70**	**90**	--	<20	<10	<8	<10	<10	<7	**30**	<9	<5	<10	**7 J**	**1,900**	--	<9
SAIA-SB/SG47	5	04/27/2017	<10	<10	<20	<10	<9	<9	--	<20	<10	<9	<10	<10	<8	<7	<10	<6	**7 J**	<4	<9	--	<9
SAIA-SB/SG47	15	04/27/2017	<10	<20	<20	<10	<10	<10	--	<20	<10	<10	<10	<20	<10	**8 J**	<10	<7	<10	<6	<10	--	<10
SAIA-SB/SG47	25	04/27/2017	<10	<20	<20	<10	<9	<9	--	<20	<10	<9	<10	<10	<8	**20**	<10	<6	**10**	**3 J**	<9	--	<10
SAIA-SB/SG47	35	04/27/2017	<10	<20	<20	<10	<10	<10	--	<20	<10	<10	<10	<20	<10	**60**	<10	<7	<10	<5	**7 J**	--	<10
Screening Criteria																							
RSL for Soilgas -Residential [1]			170,000	1.6	170,000	6	60	7,000	1,400,000	70	2,100	3.7	2100	8.7	19	12	1,700	330,000	4	3,100	280 [2]	330	37
RSL for Soilgas - Industrial [1]			730,000	7	730,000	26	260	29,000	6,000,000	290	8,700	16	8700	37	83	53	7,300	1,500,000	18	13,000	1,200 [2]	15,000	160

Notes on last page of table.

Table 4-3
VOCs Detected in Soil Gas Samples
Southern Avenue Industrial Area
South Gate, California

			Volatiles (in ug/m^3)																
Location ID	**Sample Depth (feet bgs)**	**Sample Date**	**Isopropanol**	**Isopropylbenzene (Cumene)**	**m,p-Xylene**	**Methylene Chloride**	**Naphthalene**	**n-Butylbenzene**	**n-Propylbenzene**	**o-Xylene**	**p-Cymene (p-Isopropyltoluene)**	**sec-Butylbenzene**	**Styrene**	**tert-Butylbenzene**	**Tetrachloroethene (PCE)**	**Toluene**	**trans-1,2-Dichloroethene**	**Trichloroethene (TCE)**	**Vinyl Chloride**
SAIA-SB/SG42	15	05/02/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	<27	<13
SAIA-SB/SG42	25	05/02/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	<27	<13
SAIA-SB/SG42	35	05/02/2014	--	<25	<44	<18	<27	<28	<25	<22	**33**	<28	--	<28	<34	<19	<40	<27	<13
SAIA-SB/SG43	5	05/01/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	**55**	<13
SAIA-SB/SG43	15	05/02/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	<27	<13
SAIA-SB/SG43	25	05/02/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	<27	<13
SAIA-SB/SG43	35	05/02/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	<27	<13
SAIA-SB/SG43	35 Dup	05/02/2014	--	<25	<44	<18	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	<27	<13
SAIA-SB/SG44	5	04/27/2017	**90 J**	--	**20**	**4 J**	--	--	--	**6 J**	--	--	<8	--	<10	**40**	--	<10	<5
SAIA-SB/SG44	15	04/27/2017	**20 J**	--	**30**	**6 J**	--	--	--	**9 J**	--	--	<10	--	**30**	**80**	--	**40**	**40**
SAIA-SB/SG44	25	04/27/2017	**20 J**	--	**20**	**4 J**	--	--	--	**8**	--	--	<8	--	<10	**60**	--	**50**	**30**
SAIA-SB/SG44	35	04/27/2017	**20 J**	--	<20	<9	--	--	--	<10	--	--	<10	--	**20**	**40**	--	**40**	**20**
SAIA-SB/SG45	5	04/27/2017	**20 J**	--	<20	<9	--	--	--	<10	--	--	<10	--	**10 J**	**10**	--	<10	<7
SAIA-SB/SG45	15	04/27/2017	**20 J**	--	**20**	**6 J**	--	--	--	**7 J**	--	--	<9	--	**10 J**	**100**	--	**20**	<6
SAIA-SB/SG45	15 Dup	04/27/2017	**10 J**	--	**20**	**6 J**	--	--	--	**8 J**	--	--	<9	--	**10**	**200**	--	**20**	<5
SAIA-SB/SG45	25	04/27/2017	**6 J**	--	**10 J**	**4 J**	--	--	--	<10	--	--	<10	--	**20**	**200**	--	**3,500**	**60**
SAIA-SB/SG45	35	04/27/2017	**20 J**	--	<20	<8	--	--	--	<10	--	--	<10	--	**30**	**100**	--	**3,900**	**50**
SAIA-SB/SG46	5	04/27/2017	**4 J**	--	<20	<7	--	--	--	<9	--	--	<9	--	<10	**7 J**	--	<10	<5
SAIA-SB/SG46	15	04/27/2017	**20 J**	--	**10 J**	**6 J**	--	--	--	<10	--	--	<10	--	<20	**40**	--	**100**	<6
SAIA-SB/SG46	25	04/27/2017	**10 J**	--	**10 J**	**5 J**	--	--	--	**5 J**	--	--	<10	--	**10 J**	**60**	--	**500**	<6
SAIA-SB/SG46	35	04/27/2017	**10 J**	--	<20	**5 J**	--	--	--	<9	--	--	<9	--	**8 J**	**60**	--	**16,000**	**20**
SAIA-SB/SG47	5	04/27/2017	**4 J**	--	<20	**4 J**	--	--	--	<9	--	--	<9	--	**9 J**	**8**	--	<10	<6
SAIA-SB/SG47	15	04/27/2017	**3 J**	--	**10 J**	**5 J**	--	--	--	<10	--	--	<10	--	**10 J**	**80**	--	<10	<7
SAIA-SB/SG47	25	04/27/2017	**6 J**	--	**10 J**	**6 J**	--	--	--	**5 J**	--	--	<9	--	**8 J**	**60**	--	**40**	<6
SAIA-SB/SG47	35	04/27/2017	**8 J**	--	**10 J**	**9**	--	--	--	<10	--	--	<10	--	**10 J**	**600**	--	**50**	**30**
Screening Criteria																			
RSL for Soilgas -Residential [1]			7,000	14,000	3,300	33	2.8	NA	33,000	3,300	NA	NA	33,000	NA	15 [2]	170,000	2800 [2]	16	0.32 [2]
RSL for Soilgas - Industrial [1]			29,000	60,000	15,000	400	12	NA	150,000	15,000	NA	NA	150,000	NA	67 [2]	730,000	12000 [2]	100	5.3 [2]

[1] Based on USEPA Regional Screening Levels for Air, Hazard Quotient = 1.0 (RSLs, May 2018) for Residential and Industrial. Calculated using a default indoor air to soil gas attenuation factor of 0.03 for Residential and Industrial RSLs (EPA, 2018).
[2] Based on California-modified RSLs (DTSC, 2018 - Table 3 Screening Levels for Ambient Air, HERO HHRA Note Number 3, DTSC-modified Screening Levels [DTSC-SLs] [June 2018 release date])

Notes on last page of table.

Table 4-4
VOCs Detected in Outdoor, Crawlspace, and Indoor Air Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample Date	Sample Type	Volatiles (in ug/m^3)											
			1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,3,5-Trimethylbenzene	Benzene	Ethylbenzene	m,p-Xylene	Naphthalene	o-Xylene	Tetrachloroethene (PCE)	Toluene	Trichloroethene (TCE)
Outdoor Air														
RES01-OA	01/27/2016	N	<0.17	**1.6**	**0.07 J**	**0.35 J**	**1.6**	**1.1**	**3.7**	<0.42	**1.3**	**0.24**	**5.3**	<0.15
	01/27/2016	FD	<0.16	**1.6**	<0.13	**0.33 J**	**1.2**	**0.97**	**3.3**	<0.4	**1.2**	**0.21**	**4.4**	<0.14
RES06-OA	04/24/2015	N	<0.16	**0.32**	<0.13	**0.094 J**	**0.48 J**	**0.22**	**0.68**	<0.41	**0.25**	**0.08 J**	**1.3**	<0.15
	01/28/2016	N	**0.08 J**	**1.3**	**0.07 J**	**0.28 J**	**1.6**	**0.87**	**2.9**	<0.4	**1**	**0.23**	**5**	<0.14
RES07-OA	04/16/2015	N	<0.15	**0.39**	**0.059 J**	**0.11 J**	**0.66**	**0.29**	**0.96**	<0.38	**0.32**	**0.086 J**	**1.7**	<0.14
Crawlspace Air														
RES01-CS	04/17/2015	N	<0.15	**0.47**	**0.054 J**	**0.13 J**	**0.86**	**0.34**	**1.1**	<0.38	**0.37**	**0.11 J**	**2**	<0.14
	01/27/2016	N	<0.16	**0.93 J**	<0.13	**0.19 J**	**0.89 J**	**0.59 J**	**2 J**	<0.41	**0.71 J**	**0.14 J**	**2.9 J**	<0.15
RES02-CS	04/17/2015	N	<0.15	**0.36**	**0.051 J**	**0.099 J**	**0.71**	**0.3**	**0.96**	<0.38	**0.32**	**0.089 J**	**1.8**	<0.14
	01/27/2016	N	<0.16	**1.4**	<0.13	**0.27 J**	**1.2**	**0.82**	**2.7**	<0.41	**0.97**	**0.2**	**4.2**	<0.15
RES08-CS	04/17/2015	N	<0.15	**0.38**	**0.051 J**	**0.11 J**	**0.69**	**0.29**	**0.96**	<0.38	**0.33**	**0.11 J**	**1.7**	**0.05 J**
	01/27/2016	N	<0.16	**1.2**	<0.13	**0.26 J**	**1.3**	**0.79**	**2.6**	<0.41	**0.95**	**0.21**	**4.4**	<0.15
Indoor Air														
RES01-IA	04/17/2015	N	<0.15	**0.4**	**0.19**	**0.11 J**	**0.63**	**0.34**	**1**	<0.38	**0.35**	**1.4**	**3.3**	**0.054 J**
	01/27/2016	N	<0.17	**1.4**	**0.08 J**	**0.27 J**	**1.2**	**0.98**	**3.3**	<0.41	**1.1**	**1.3**	**4.3**	**0.09 J**
RES02-IA	04/24/2015	N	<0.16	**0.37**	**0.043 J**	**0.094 J**	**0.55**	**0.21**	**0.65**	<0.4	**0.23**	**0.078 J**	**1.3**	**0.018 J**
	01/27/2016	N	<0.16	**1.1 J**	**0.07 J**	**0.22 J**	**1.5 J**	**0.67 J**	**2.2 J**	<0.4	**0.79 J**	**0.18 J**	**3.8 J**	<0.15
RES03-IA	04/23/2015	N	<0.16	**0.54**	**0.099 J**	**0.16 J**	**0.66**	**0.31**	**0.92**	<0.4	**0.34**	**0.084 J**	**3.6**	**0.059 J**
	01/27/2016	N	<0.16	**1.8**	**0.09 J**	**0.34 J**	**1.8**	**0.84**	**2.7**	<0.41	**0.98**	**0.18**	**4.7**	<0.15
RES04-IA	04/23/2015	N	<0.16	**0.68**	**0.068 J**	**0.18 J**	**0.78**	**0.37**	**1**	<0.4	**0.41**	**0.14 J**	**2.1**	**0.07 J**
	01/28/2016	N	<0.17	**13**	**0.08 J**	**1.9 J**	**1.3**	**2.4**	**4.9**	**0.24 J**	**2.1**	**0.31**	**5.9**	**0.08 J**
RES05-IA	04/24/2015	N	<0.16	**0.5**	**0.27**	**0.13 J**	**0.88**	**0.42**	**1.2**	<0.4	**0.43**	**0.093 J**	**2.5**	**0.06 J**
	01/27/2016	N	<0.16	**1.3 J**	**0.43 J**	**0.25 J**	**2.7 J**	**0.66 J**	**2.1 J**	<0.4	**0.74 J**	**0.25 J**	**4.2 J**	<0.14
RES06-IA	04/16/2015	N	<0.15	**0.4**	**0.11 J**	**0.11 J**	**0.61**	**0.44**	**1**	<0.38	**0.36**	**0.12 J**	**1.8**	<0.14
	01/28/2016	N	<0.16	**1.9**	**0.16**	**0.41 J**	**1.6**	**1.1**	**3.6**	<0.4	**1.3**	**0.29**	**5.9**	<0.14
	01/28/2016	FD	<0.16	**1.9**	**0.17**	**0.41 J**	**1.6**	**1.1**	**3.6**	<0.4	**1.3**	**0.28**	**5.7**	<0.14
RES07-IA	04/16/2015	N	<0.15	**0.51**	**0.09 J**	**0.14 J**	**0.76**	**0.67**	**2.2**	<0.38	**0.6**	**0.14 J**	**2.6**	**0.052 J**
	01/28/2016	N	**0.08 J**	**1.7**	**0.36**	**0.33 J**	**1.7**	**1.3**	**4.2**	<0.41	**1.3**	**0.25**	**5.5**	**0.07 J**
RES08-IA	04/17/2015	N	<0.15	**0.41**	**0.077 J**	**0.1 J**	**0.75**	**0.3**	**1**	<0.38	**0.36**	**0.094 J**	**2**	**0.05 J**
	01/27/2016	N	<0.16	**1.2**	<0.13	**0.26 J**	**1.5**	**0.8**	**2.6**	<0.4	**0.94**	**0.21**	**4.5**	<0.15
Screening Criteria														
RSL for Air -Residential [1]			5200	63	0.11	63	0.36	1.1	100	0.083	100	0.46 [2]	310 [2]	0.48
RSL for Air - Industrial [1]			22000	260	0.47	260	1.6	4.9	440	0.36	440	2 [2]	1300 [2]	3

Notes:

exceeds RSL for Air -Residential

exceeds RSL for Air - Industrial

[1] Based on USEPA Regional Screening Levels for Air, Hazard Quotient = 1.0 (RSLs, May 2018) for Residential and Industrial.

[2] Based on California-modified RSLs (DTSC, 2018 - Table 3 Screening Levels for Ambient Air, HERO HHRA Note Number 3, DTSC-modified Screening Levels [DTSC-SLs; June])

Detected results shown in bold

ID = Identification number

J = Concentration is estimated because it falls between the method detection limit and the laboratory reporting limit.

N = Normal sample results

RSL = Regional Screening Level

ug/m^3 = Micrograms per cubic meter

Table 4-5
VOCs, SVOCs, and Metals Detected in Groundwater Samples from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

				Volatiles (ug/L)																					
Location ID	**Aquifer**	**Sample Date**	**Sample Type**	**1,1,2-Trichloroethane**	**1,1-Dichloroethane**	**1,1-Dichloroethene**	**1,2,3-Trichlorobenzene**	**1,2,4-Trichlorobenzene**	**1,2-Dichloroethane**	**1,2-Dichloropropane**	**1,3-Dichlorobenzene**	**1,4-Dichlorobenzene**	**4-Methyl-2-pentanone (MIBK)**	**Acetone**	**Benzene**	**Bromomethane**	**Carbon Disulfide**	**Chlorobenzene**	**Chloroethane**	**Chloroform**	**Chloromethane**	**cis-1,2-Dichloroethylene**	**Cyclohexane**	**Ethylbenzene**	**Isopropylbenzene (Cumene)**	**m,p-Xylene**
MW32	Exposition Aquifer	07/13/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.63**	<0.50	<0.50	<0.50	<0.50
MW32	Exposition Aquifer	07/13/2016	FD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.67**	<0.50	<0.50	<0.50	<0.50
MW34	Shallow Gaspur	03/26/2014	N	<2.5	**1.6 J**	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<25	<25	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**470**	<2.5	<2.5	<2.5	<2.5
MW34	Shallow Gaspur	03/26/2014	FD	<2.0	**1.3 J**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<20	<20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**450**	<2.0	<2.0	<2.0	<2.0
MW34	Shallow Gaspur	07/12/2016	N	<0.50	<0.50	**0.94**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	**50**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**170**	<0.50	<0.50	<0.50	<0.50
MW35	Lower Gaspur	03/26/2014	N	<0.50	**0.33 J**	<0.50	<0.50	<0.50	**5.8**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**58**	**0.69**	<0.50	<0.50	<0.50
MW35	Lower Gaspur	07/12/2016	N	<0.50	**3**	**4**	<0.50	<0.50	**6.8**	<0.50	<0.50	<0.50	<5.0	<5.0	**0.7**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**330**	**0.92**	<0.50	<0.50	<0.50
MW42	Shallow Gaspur	03/05/2013	N	<40	<40	<40	<40	<40	<40	<40	<40	<40	<400	<400	<40	<40	<40	<40	<40	<40	<40	**2,600**	<40	<40	<40	<40
MW42	Shallow Gaspur	03/26/2014	N	<10	**25**	<10	<10	<10	<10	<10	<10	<10	<100	<100	<10	<10	<10	<10	<10	<10	<10	**4,000**	<10	<10	<10	<10
MW42	Shallow Gaspur	07/12/2016	N	<2.5	**18**	**3.7 J**	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<25	<25	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**1,100 J**	<2.5	<2.5	<2.5	<2.5
MW43	Intermediate Gaspur	03/05/2013	N	<0.50	**0.53**	**2.5**	<0.50	<0.50	**10**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**55**	**1.4**	<0.50	<0.50	<0.50
MW43	Intermediate Gaspur	03/26/2014	N	<0.50	**0.22 J**	<0.50	<0.50	<0.50	**7.6**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**25**	**1.2**	<0.50	<0.50	<0.50
MW43	Intermediate Gaspur	07/12/2016	N	<0.50	**1**	**3.4**	<0.50	<0.50	**44**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**42**	**2.5**	<0.50	<0.50	<0.50
MW44	Lower Gaspur	03/26/2014	N	<0.50	**0.2 J**	<0.50	<0.50	<0.50	**4**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**21**	**0.42 J**	<0.50	<0.50	<0.50
MW44	Lower Gaspur	07/12/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.37 J**	<0.50	<0.50	<0.50	<0.50
MW45	Intermediate Gaspur	03/05/2013	N	<0.50	<0.50	<0.50	<0.50	<0.50	**0.73**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**51**	<0.50	<0.50	<0.50	<0.50
MW45	Intermediate Gaspur	03/25/2014	N	<0.50	**0.21**	<0.50	<0.50	<0.50	**0.84**	<0.50	**0.07**	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**39**	<0.50	<0.50	<0.50	<0.50
MW45	Intermediate Gaspur	07/14/2016	N	<0.50	**0.45 J**	**0.99**	<0.50	<0.50	**5.4**	<0.50	<0.50	<0.50	<5.0	<5.0	**0.43 J**	<0.50	**0.27 J**	<0.50	<0.50	<0.50	<0.50	**76**	**0.3 J**	<0.50	<0.50	<0.50
MW46	Shallow Gaspur	03/05/2013	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**54**	<0.50	<0.50	<0.50	<0.50
MW46	Shallow Gaspur	03/05/2013	FD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**44**	<0.50	<0.50	<0.50	<0.50
MW46	Shallow Gaspur	03/24/2014	N	<0.50	**0.097 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.36 J**	<5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**47**	<0.50	<0.50	<0.50	<0.50
MW46	Shallow Gaspur	07/19/2016	N	<1.0	**7.5**	**2.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW47	Intermediate Gaspur	03/05/2013	N	<10	<10	<10	<10	<10	<10	<10	<10	<10	<100	<100	<10	<10	<10	<10	<10	<10	<10	**780**	<10	<10	<10	<10
MW47	Intermediate Gaspur	03/24/2014	N	<4.0	**1.3 J**	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<40	<40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	**700**	<4.0	<4.0	<4.0	<4.0
MW47	Intermediate Gaspur	07/19/2016	N	<5.0	**6.1**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<50	<5.0	**3.2 J**	<5.0	<5.0	<5.0	<5.0	<5.0	**490**	<5.0	<5.0	<5.0	<5.0
MW48	Lower Gaspur	03/06/2013	N	<0.50	**1.1**	**1.1**	<0.50	<0.50	**7.5**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**29**	**0.51**	<0.50	<0.50	<0.50
MW48	Lower Gaspur	03/24/2014	N	<0.50	**1.6**	**2.1**	<0.50	<0.50	**6.9**	**0.12**	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**82**	**0.87**	<0.50	<0.50	<0.50
MW48	Lower Gaspur	07/19/2016	N	<0.50	**1.3**	**1.9**	<0.50	<0.50	**15**	<0.50	<0.50	<0.50	<5.0	**12**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**100**	**0.88**	<0.50	<0.50	<0.50
MW49	Shallow Gaspur	03/06/2013	N	<0.50	<0.50	**0.28 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**51**	<0.50	<0.50	<0.50	<0.50
MW49	Shallow Gaspur	03/26/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**41**	<0.50	<0.50	<0.50	<0.50
MW49	Shallow Gaspur	07/15/2016	FD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**55**	<0.50	<0.50	<0.50	<0.50
MW49	Shallow Gaspur	07/15/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**49**	<0.50	<0.50	<0.50	<0.50
MW52	Shallow Gaspur	03/06/2013	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**8.9**	**0.3 J**	<0.50	<0.50	<0.50
MW52	Shallow Gaspur	03/25/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	**2.4**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**18**	**0.96**	<0.50	<0.50	<0.50
MW52	Shallow Gaspur	03/25/2014	FD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	**2.1**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**16**	**0.78**	<0.50	<0.50	<0.50
MW52	Shallow Gaspur	07/19/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**15**	**0.84**	<0.50	<0.50	<0.50
MW56	Shallow Gaspur	03/26/2014	N	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<20	<20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**450**	<2.0	<2.0	<2.0	<2.0
MW56	Shallow Gaspur	07/18/2016	N	<1.0	<1.0	<1.0	<1.0	R	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**260**	<1.0	<1.0	<1.0	<1.0
SAIA-MW1A	Shallow Gaspur	03/27/2014	N	<100	**21 J**	<100	<100	<100	<100	<100	<100	<100	<1000	<1000	<100	<100	<100	<100	<100	<100	<100	**3,300**	<100	<100	<100	<100
SAIA-MW1A	Shallow Gaspur	08/25/2014	N	**0.58**	**17**	**16 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<11	**0.29 J**	<0.50	**0.11 J**	**0.045 J**	**0.41 J**	<0.50	<0.50	**6,900**	**0.18 J**	<0.50	**0.17 J**	<0.50
SAIA-MW1A	Shallow Gaspur	07/14/2016	N	<25	**22 J**	<25	<25	<25	<25	<25	<25	<25	<250	<250	<25	<25	<25	<25	<25	<25	<25	**3,900**	<25	<25	<25	<25
SAIA-MW1B	Intermediate Gaspur	03/27/2014	N	<0.50	**0.25**	<0.50	<0.50	<0.50	**0.48 J**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**59**	**0.24 J**	<0.50	<0.50	<0.50
SAIA-MW1B	Intermediate Gaspur	08/25/2014	N	<0.50	**0.19 J**	<0.50	<0.50	<0.50	**0.52**	**0.097 J**	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**51**	**0.22 J**	<0.50	<0.50	<0.50
SAIA-MW1B	Intermediate Gaspur	07/14/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	**0.58**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**14**	<0.50	<0.50	<0.50	<0.50
SAIA-MW1B	Intermediate Gaspur	07/14/2016	FD	<0.50	<0.50	<0.50	<0.50	<0.50	**0.64**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**15**	<0.50	<0.50	<0.50	<0.50
SAIA-MW1C	Lower Gaspur	03/27/2014	N	<4.0	**3.9 J**	<4.0	<4.0	<4.0	**35**	<4.0	<4.0	<4.0	<40	<40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	**370**	**1.6 J**	<4.0	<4.0	<4.0

Table 4-5
VOCs, SVOCs, and Metals Detected in Groundwater Samples from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

				Volatiles (ug/L)										Semivolatiles (ug/L)			Metals (ug/L)								
Location ID	Aquifer	Sample Date	Sample Type	Methylcyclohexane	Methylene Chloride	o-Xylene	Styrene	tert-Butyl Methyl Ether (MTBE)	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	Trichloroethene (TCE)	Vinyl Chloride	1,4-Dioxane (p-Dioxane)	bis(2-Ethylhexyl) Phthalate	Carbazole	Calcium	Iron	Magnesium	Potassium	Sodium	Aluminum	Arsenic	Barium	Beryllium
MW32	Exposition Aquifer	07/13/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	--	--	--	--	--
MW32	Exposition Aquifer	07/13/2016	FD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	--	--	--	--	--
MW34	Shallow Gaspur	03/26/2014	N	<2.5	<2.5	<2.5	<2.5	**1.8 J**	<2.5	<2.5	**25**	**45**	<2.5	**1.3**	<5.0	<5.0	**126,000**	**1,340**	**40,300**	<5000	**374,000**	<20	**100**	**52.6**	<1.0
MW34	Shallow Gaspur	03/26/2014	FD	<2.0	<2.0	<2.0	<2.0	**1.5 J**	<2.0	<2.0	**20**	**38**	<2.0	**1.5**	<5.0	<5.0	**126,000**	**1,250**	**40,500**	<5000	**373,000**	<20	**102**	**54.6**	<1.0
MW34	Shallow Gaspur	07/12/2016	N	<0.50	<0.50	<0.50	<0.50	**1.7**	<0.50	<0.50	**9.9**	**4.5**	**0.81**	<0.50	--	--	--	--	--	--	--	--	--	--	--
MW35	Lower Gaspur	03/26/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**5.5**	**6.9**	<0.50	**2.3**	<5.0	<5.0	**580,000**	**4,340**	**214,000**	**7,670**	**842,000**	**79.8**	**22.5**	**28.9**	<1.0
MW35	Lower Gaspur	07/12/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**15**	**3.5**	<0.50	**19**	--	--	--	--	--	--	--	--	--	--	--
MW42	Shallow Gaspur	03/05/2013	N	<40	<40	<40	<40	<40	<40	<40	**51**	**220**	<40	**15**	--	--	--	--	--	--	--	--	--	--	--
MW42	Shallow Gaspur	03/26/2014	N	<10	<10	<10	<10	<10	<10	<10	**75**	**390 J**	<10	**24**	<5.0	<5.0	**210,000**	**58,100**	**75,500**	**11,700**	**221,000**	**31,300**	**78.3**	**457**	**0.75 J**
MW42	Shallow Gaspur	07/12/2016	N	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**40 J**	**32**	<2.5	**47**	--	--	--	--	--	--	--	--	--	--	--
MW43	Intermediate Gaspur	03/05/2013	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.9**	**36**	<0.50	**5.7**	--	--	--	--	--	--	--	--	--	--	--
MW43	Intermediate Gaspur	03/26/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.4**	**8.6**	<0.50	**2.8**	**3.4 J**	<5.0	**457,000**	**4,780**	**167,000**	**5,710**	**673,000**	**1,150**	**31.2**	**46.2**	<2.0
MW43	Intermediate Gaspur	07/12/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**3**	**5.4**	**1**	**4**	--	--	--	--	--	--	--	--	--	--	--
MW44	Lower Gaspur	03/26/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.5**	**2.9**	<0.50	**2.8**	<5.0	<5.0	**493,000**	**4,860**	**204,000**	**7,170**	**909,000**	**136**	**31.6**	**23.8**	<2.0
MW44	Lower Gaspur	07/12/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**8.2**	--	--	--	--	--	--	--	--	--	--	--
MW45	Intermediate Gaspur	03/05/2013	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.16 J**	**4**	**6.9**	<0.50	**1.4**	--	--	--	--	--	--	--	--	--	--	--
MW45	Intermediate Gaspur	03/25/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**3.7**	**2.2**	<0.50	**2.1**	<5.0	<5.0	**339,000**	**2,430**	**111,000**	**3,700 J**	**201,000**	**268**	**21.6**	**41.2**	<1.0
MW45	Intermediate Gaspur	07/14/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**5.8**	**1.6**	<0.50	**3.5**	--	--	--	--	--	--	--	--	--	--	--
MW46	Shallow Gaspur	03/05/2013	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.19 J**	**2.9**	**4.5**	<0.50	<0.50	--	--	--	--	--	--	--	--	--	--	--
MW46	Shallow Gaspur	03/05/2013	FD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.16 J**	**2.7**	**4.4**	<0.50	<0.50	--	--	--	--	--	--	--	--	--	--	--
MW46	Shallow Gaspur	03/24/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**3.7 J**	**8.6 J**	<0.50	<0.50	<5.0	<5.0	**126,000**	**1,050**	**42,600**	**6,800**	**439,000**	**57.3**	**50**	**42.3**	<1.0
MW46	Shallow Gaspur	07/19/2016	N	<1.0	**1.1 J**	<1.0	<1.0	<1.0	<1.0	<1.0	**37**	**57**	<1.0	**3.5**	--	--	--	--	--	--	--	--	--	--	--
MW47	Intermediate Gaspur	03/05/2013	N	<10	<10	<10	<10	<10	<10	<10	**49**	**36**	<10	**1**	--	--	--	--	--	--	--	--	--	--	--
MW47	Intermediate Gaspur	03/24/2014	N	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	**47**	**14**	<4.0	**1.8**	<5.0	<5.0	**143,000**	**1,210**	**43,000**	**2,860 J**	**199,000**	**303**	**34**	**50.1**	<1.0
MW47	Intermediate Gaspur	07/19/2016	N	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**30**	**5.4**	<5.0	**6.2**	--	--	--	--	--	--	--	--	--	--	--
MW48	Lower Gaspur	03/06/2013	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.21 J**	**3.1**	**17**	<0.50	**5.5**	--	--	--	--	--	--	--	--	--	--	--
MW48	Lower Gaspur	03/24/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**5.5**	**29**	<0.50	**8.7**	<5.0	<5.0	**395,000**	**2,350**	**131,000**	**4,440 J**	**241,000**	<20	**24.2**	**44**	<1.0
MW48	Lower Gaspur	07/19/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**6.3**	**1.3**	**1.1**	**13**	--	--	--	--	--	--	--	--	--	--	--
MW49	Shallow Gaspur	03/06/2013	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.19 J**	**3.9**	**3.4**	<0.50	<0.50	--	--	--	--	--	--	--	--	--	--	--
MW49	Shallow Gaspur	03/26/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**3.4**	**2.9**	<0.50	<0.50	<5.0	<5.0	**433,000**	**5,640**	**177,000**	**9,470**	**754,000**	**618**	**66.5**	**37.6**	<2.0
MW49	Shallow Gaspur	07/15/2016	FD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**5.9**	**1.6**	<0.50	<0.50	--	--	--	--	--	--	--	--	--	--	--
MW49	Shallow Gaspur	07/15/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**6.3**	**1.6**	<0.50	<0.50	--	--	--	--	--	--	--	--	--	--	--
MW52	Shallow Gaspur	03/06/2013	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.13 J**	**2**	**2.5**	<0.50	<0.50	--	--	--	--	--	--	--	--	--	--	--
MW52	Shallow Gaspur	03/25/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**5**	**6.1**	<0.50	<0.50	**2.3**	<5.0	**395,000**	**3,710**	**142,000**	**5,750**	**340,000**	**52.9**	**26.8**	**46.8**	<1.0
MW52	Shallow Gaspur	03/25/2014	FD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**4.2**	**5.6**	<0.50	<0.50	<5.0	<5.0	**395,000**	**3,740**	**142,000**	**5,740**	**340,000**	**83.5**	**23.3**	**45.8**	<1.0
MW52	Shallow Gaspur	07/19/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**6.2**	**5.6**	<0.50	<0.50	--	--	--	--	--	--	--	--	--	--	--
MW56	Shallow Gaspur	03/26/2014	N	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**15**	**290**	<2.0	<0.50	<5.0	<5.0	**178,000**	**1,870**	**43,000**	<5000	**190,000**	**407**	**24.2**	**80.5**	<2.0
MW56	Shallow Gaspur	07/18/2016	N	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**15**	**74**	<1.0	<0.50	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1A	Shallow Gaspur	03/27/2014	N	<100	<100	<100	<100	<100	<100	<100	**71 J**	**7,400 J**	<100	**1.7 J**	<5.0	<5.0	**105,000**	**2,700**	**38,600**	**7,630 J**	**163,000**	**1,330**	**16.1**	**95.1**	<2.0
SAIA-MW1A	Shallow Gaspur	08/25/2014	N	**0.16 J**	<0.50	**0.1 J**	<0.50	<0.50	**0.42 J**	**0.51**	**96 J**	**4,800**	<360	**1.4**	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1A	Shallow Gaspur	07/14/2016	N	<25	<25	<25	<25	<25	<25	<25	**160**	**1,500**	<25	<0.50	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1B	Intermediate Gaspur	03/27/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**4.6**	**17**	<0.50	**1.9**	<5.0	<5.0	**421,000**	**3,350**	**147,000**	<5000	**358,000**	**366**	**23.8**	**67.4**	<2.0
SAIA-MW1B	Intermediate Gaspur	08/25/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**4.6**	**4.3 J**	<0.50	**2.6**	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1B	Intermediate Gaspur	07/14/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**2**	**0.84**	<0.50	<0.50	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1B	Intermediate Gaspur	07/14/2016	FD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**2.5**	**0.82**	<0.50	<0.50	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1C	Lower Gaspur	03/27/2014	N	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	**34**	**420 J**	<4	**18**	<5.0	**7.1**	**467,000**	**4,970**	**142,000**	**7,160**	**839,000**	**176**	**7.4**	**37**	<2.0

Table 4-5
VOCs, SVOCs, and Metals Detected in Groundwater Samples from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

				Metals (ug/L)												General Chemistry (ug/L)						
Location ID	**Aquifer**	**Sample Date**	**Sample Type**	**Cadmium**	**Chromium**	**Cobalt**	**Copper**	**Lead**	**Manganese**	**Nickel**	**Selenium**	**Silver**	**Thallium**	**Vanadium**	**Zinc**	**Alkalinity, Bicarbonate (as CaCO3)**	**Alkalinity, Carbonate (as CaCO3)**	**Alkalinity, Total (as CaCO3)**	**Chloride**	**Sulfate (as SO4)**	**Total Dissolved Solids**	**Total Organic Carbon**
MW32	Exposition Aquifer	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW32	Exposition Aquifer	07/13/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW34	Shallow Gaspur	03/26/2014	N	<1.0	**7.5 J**	**11.3**	**1.4 J**	**0.64 J**	**816**	**4.3 J**	**2.3 J**	**0.06 J**	<1.0	<5.0	**5.4 J**	**930,000**	<10000	**930,000**	**40,000**	**400,000**	**1,600,000**	**4,500**
MW34	Shallow Gaspur	03/26/2014	FD	<1.0	**5 J**	**11.5**	**2.7**	**0.62 J**	**844**	**3.9 J**	**1.6 J**	**0.073 J**	<1.0	<5.0	**6.2 J**	**900,000**	<10000	**900,000**	**40,000**	**400,000**	**1,600,000**	**5,100**
MW34	Shallow Gaspur	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW35	Lower Gaspur	03/26/2014	N	**1.3**	**5.2 J**	**48.7**	**2.9**	**1.3**	**4,340**	**5 J**	**1.7 J**	**0.12 J**	<1.0	<5.0	**17.2 J**	**670,000**	<10000	**670,000**	**170,000**	**3,600,000**	**6,000,000**	**5,500**
MW35	Lower Gaspur	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW42	Shallow Gaspur	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW42	Shallow Gaspur	03/26/2014	N	**1.3**	**79.1**	**43.9**	**57.5**	**20.3**	**2,120**	**73.4**	<10	**0.14 J**	<1.0	**53.5 J**	**157**	**860,000**	<10000	**860,000**	**46,000**	**190,000**	**1,300,000**	**9,100**
MW42	Shallow Gaspur	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW43	Intermediate Gaspur	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW43	Intermediate Gaspur	03/26/2014	N	**0.38 J**	**24.7 J**	**40.1**	**5.6**	**1.3**	**3,830**	**20**	<10	**0.096 J**	**0.08 J**	<10	**10.9 J**	**690,000**	<10000	**690,000**	**140,000**	**2,800,000**	**4,800,000**	**5,400**
MW43	Intermediate Gaspur	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW44	Lower Gaspur	03/26/2014	N	<1.0	**9.5 J**	**44.3**	**2.4 J**	**0.37 J**	**4,330**	**7.2 J**	<10	**0.1 J**	<1.0	<10	**11.1 J**	**640,000**	<10000	**640,000**	**150,000**	**3,400,000**	**5,700,000**	**5,600**
MW44	Lower Gaspur	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW45	Intermediate Gaspur	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW45	Intermediate Gaspur	03/25/2014	N	**0.28 J**	**12.7**	**0.65 J**	**2.7**	**1.6**	**1,940**	**10.9**	<5.0	**0.048 J**	<1.0	<5.0	**12.8**	**580,000**	<10000	**580,000**	**120,000**	**1,100,000**	**2,400,000**	**3,300**
MW45	Intermediate Gaspur	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW46	Shallow Gaspur	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW46	Shallow Gaspur	03/05/2013	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW46	Shallow Gaspur	03/24/2014	N	**0.17 J**	**3.8**	**0.25 J**	**7.3**	**0.43 J**	**764**	**3.1**	<5.0	**0.088 J**	<1.0	<5.0	**18.8**	**830,000**	**16,000**	**850,000**	**86,000**	**500,000**	**1,700,000**	**4,200**
MW46	Shallow Gaspur	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW47	Intermediate Gaspur	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW47	Intermediate Gaspur	03/24/2014	N	<1	**5**	**0.52 J**	**2.4**	**1.2**	**1,040**	**4.3**	<5.0	**0.057 J**	<1.0	<5.0	**11.5**	**670,000**	<10000	**670,000**	**49,000**	**340,000**	**1,300,000**	**5,800**
MW47	Intermediate Gaspur	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW48	Lower Gaspur	03/06/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW48	Lower Gaspur	03/24/2014	N	**0.5 J**	**3.6**	**0.3 J**	**2.2**	**0.33 J**	**2,550**	**4.4**	<5.0	**0.076 J**	<1.0	<5.0	**12.8**	**670,000**	<10000	**670,000**	**250,000**	**1,200,000**	**2,800,000**	**4,600**
MW48	Lower Gaspur	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW49	Shallow Gaspur	03/06/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW49	Shallow Gaspur	03/26/2014	N	**0.12 J**	**67.9**	**43.4**	**8.2**	**0.69 J**	**3,930**	**145**	<10	**0.14 J**	<1.0	<10	**10.8 J**	**890,000**	<10000	**890,000**	**170,000**	**3,000,000**	**5,300,000**	**3,700**
MW49	Shallow Gaspur	07/15/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW49	Shallow Gaspur	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW52	Shallow Gaspur	03/06/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW52	Shallow Gaspur	03/25/2014	N	<1.0	**5.1**	**0.68 J**	**2.4**	**0.8 J**	**3,520**	**5**	<5.0	**0.061 J**	<1.0	<5.0	**11**	**760,000**	<10000	**760,000**	**170,000**	**1,500,000**	**3,200,000**	**4,900**
MW52	Shallow Gaspur	03/25/2014	FD	<1.0	**7.6**	**0.72 J**	**2.6**	**0.41 J**	**3,370**	**4.7**	<5.0	**0.076 J**	<1.0	<5.0	**9.1**	**780,000**	<10000	**780,000**	**180,000**	**1,500,000**	**3,200,000**	**4,900**
MW52	Shallow Gaspur	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW56	Shallow Gaspur	03/26/2014	N	<1.0	**4.9 J**	**15.3**	**2.4 J**	**0.73 J**	**1,350**	**4.5 J**	<10	<1	<1.0	<10	**6.7 J**	**610,000**	<10000	**610,000**	**84,000**	**400,000**	**1,300,000**	**2,800**
MW56	Shallow Gaspur	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1A	Shallow Gaspur	03/27/2014	N	<1.0	**20.5 J**	**10.7**	**5.4**	**1.6**	**480**	**12.7 J**	<10	**0.15 J**	<1.0	<10	**14.6 J**	**600,000**	<10000	**600,000**	**53,000**	**180,000**	**1,000,000**	**23,000**
SAIA-MW1A	Shallow Gaspur	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1A	Shallow Gaspur	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1B	Intermediate Gaspur	03/27/2014	N	<1.0	**7.1 J**	**37.7**	**2 J**	**0.57 J**	**2,510**	**7.8 J**	<10	<1.0	<1.0	<10	**6.1 J**	**610,000**	<10000	**610,000**	**580,000**	**1,200,000**	**3,300,000**	**8,000**
SAIA-MW1B	Intermediate Gaspur	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1B	Intermediate Gaspur	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1B	Intermediate Gaspur	07/14/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1C	Lower Gaspur	03/27/2014	N	<1.0	**12.5 J**	**41.9**	**2.3 J**	**1**	**3,240**	**8.7 J**	**0.99 J**	**0.081 J**	**0.082 J**	<10	**6.4 J**	**740,000**	<10000	**740,000**	**120,000**	**3,000,000**	**5,100,000**	**11,000**

Table 4-5
VOCs, SVOCs, and Metals Detected in Groundwater Samples from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

				Volatiles (ug/L)																					
Location ID	**Aquifer**	**Sample Date**	**Sample Type**	**1,1,2-Trichloroethane**	**1,1-Dichloroethane**	**1,1-Dichloroethene**	**1,2,3-Trichlorobenzene**	**1,2,4-Trichlorobenzene**	**1,2-Dichloroethane**	**1,2-Dichloropropane**	**1,3-Dichlorobenzene**	**1,4-Dichlorobenzene**	**4-Methyl-2-pentanone (MIBK)**	**Acetone**	**Benzene**	**Bromomethane**	**Carbon Disulfide**	**Chlorobenzene**	**Chloroethane**	**Chloroform**	**Chloromethane**	**cis-1,2-Dichloroethylene**	**Cyclohexane**	**Ethylbenzene**	**Isopropylbenzene (Cumene)**	**m,p-Xylene**
SAIA-MW1C	Lower Gaspur	08/25/2014	N	<0.50	**4.2**	**6.5 J**	<0.50	<0.50	**52**	**0.1 J**	<0.50	<0.50	<5.0	<5.0	**3.7**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**560**	**2.6**	<0.50	<0.50	<0.50
SAIA-MW1C	Lower Gaspur	07/14/2016	N	<0.50	**2.6**	**5.3**	<0.50	<0.50	**33**	<0.50	<0.50	<0.50	<5.0	<5.0	**3.2**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**350**	**2**	<0.50	<0.50	<0.50
SAIA-MW2A	Shallow Gaspur	03/27/2014	N	<10	**4.8 J**	<10	<10	<10	<10	<10	<10	<10	<100	<100	<10	<10	<10	<10	<10	<10	<10	**2,000**	<10	<10	<10	<10
SAIA-MW2A	Shallow Gaspur	08/25/2014	N	**0.45 J**	**7.2**	**7.7 J**	<0.50	<0.50	**0.25 J**	<0.50	<0.50	<0.50	<5.0	<5.3	**0.35 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**2,500**	**0.14 J**	<0.50	<0.50	<0.50
SAIA-MW2A	Shallow Gaspur	08/25/2014	FD	**0.47 J**	**7**	**7.7 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	**0.35 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**2,400**	**0.15 J**	<0.50	<0.50	<0.50
SAIA-MW2A	Shallow Gaspur	07/11/2016	N	<2.5	**5.5**	**6.4**	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<25	<25	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**1,300**	<2.5	<2.5	<2.5	<2.5
SAIA-MW2B	Intermediate Gaspur	03/27/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	**6.6**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**69**	**0.24 J**	<0.50	<0.50	<0.50
SAIA-MW2B	Intermediate Gaspur	08/25/2014	N	<0.50	**0.11 J**	**0.5**	<0.50	<0.50	**5.1**	**0.23 J**	<0.50	<0.50	<5.0	<5.0	**0.2 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**51**	**0.19 J**	<0.50	<0.50	<0.50
SAIA-MW2B	Intermediate Gaspur	07/11/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	**0.81**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**10**	<0.50	<0.50	<0.50	<0.50
SAIA-MW2C	Lower Gaspur	03/27/2014	N	<2.0	**3**	**4.7**	<2.0	<2.0	**32**	**0.19**	<2.0	<2.0	<20	<20	**6.1**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**360**	**1.7 J**	<2.0	<2.0	<2.0
SAIA-MW2C	Lower Gaspur	08/25/2014	N	<0.50	**2.8**	**5.2 J**	<0.50	<0.50	**34**	<0.50	<0.50	<0.50	<5.0	<5.0	**4.7**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**370**	**1.9**	<0.50	<0.50	<0.50
SAIA-MW2C	Lower Gaspur	07/11/2016	N	<0.50	**1.8**	**3.5 J**	<0.50	<0.50	**33**	<0.50	<0.50	<0.50	<5.0	**7.8**	**2.2**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**270 J**	**1.1**	<0.50	<0.50	<0.50
SAIA-MW3A	Shallow Gaspur	03/24/2014	N	<0.50	**0.13**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**8.9**	<0.50	<0.50	<0.50	<0.50
SAIA-MW3A	Shallow Gaspur	08/26/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**5.8**	<0.50	<0.50	<0.50	<0.50
SAIA-MW3A	Shallow Gaspur	07/13/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.1**	<0.50	<0.50	<0.50	<0.50
SAIA-MW3B	Intermediate Gaspur	03/24/2014	N	<25	**49**	**18 J**	<25	<25	<25	<25	<25	<25	<250	<250	<25	<25	<25	<25	<25	<25	<25	**7,000**	<25	<25	<25	<25
SAIA-MW3B	Intermediate Gaspur	08/26/2014	N	**3.6**	**72**	**20 J**	<0.50	<0.50	**2.1**	<0.50	<0.50	<0.50	<5.0	<5.0	**1.5**	<0.50	**1.4**	<0.50	<0.50	<0.50	<0.50	**9,100**	**0.42 J**	**0.13 J**	**0.19 J**	<0.50
SAIA-MW3B	Intermediate Gaspur	07/13/2016	N	<25	**23 J**	<25	<25	<25	<25	<25	<25	<25	<250	<250	<25	<25	<25	<25	<25	<25	<25	**4,600**	<25	<25	<25	<25
SAIA-MW3C	Lower Gaspur	03/24/2014	N	<0.50	**0.2**	<0.50	<0.50	<0.50	**1.8**	**0.23**	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**38**	**0.16**	<0.50	<0.50	<0.50
SAIA-MW3C	Lower Gaspur	03/24/2014	FD	<0.50	**0.2**	<0.50	**0.32 J**	**0.13 J**	**1.6**	**0.25**	**0.095**	<0.50	<5.0	<5.0	<0.50	**0.12 J**	<0.50	<0.50	<0.50	<0.50	<0.50	**37**	**0.16**	<0.50	<0.50	**0.05**
SAIA-MW3C	Lower Gaspur	08/26/2014	N	<0.50	**0.25 J**	<0.50	<0.50	<0.50	**2.1**	**0.27 J**	<0.50	<0.50	<5.0	<5.0	**0.085 J**	<0.50	**0.13 J**	<0.50	<0.50	<0.50	<0.50	**27**	**0.14 J**	<0.50	<0.50	<0.50
SAIA-MW3C	Lower Gaspur	07/13/2016	N	<0.50	**0.51**	<0.50	<0.50	<0.50	**2.8**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**49**	<0.50	<0.50	<0.50	<0.50
SAIA-MW4A	Shallow Gaspur	03/25/2014	N	<0.50	**0.32**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**4.7**	<0.50	<0.50	<0.50	<0.50
SAIA-MW4A	Shallow Gaspur	08/26/2014	N	<0.50	**0.34 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.72**	<0.50	<0.50	<0.50	<0.50
SAIA-MW4A	Shallow Gaspur	07/22/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.16 J**	<0.50	<0.50	<0.50	<0.50
SAIA-MW4B	Intermediate Gaspur	03/25/2014	N	<25	**15 J**	<25	<25	<25	<25	<25	<25	<25	<250	<250	<25	<25	<25	<25	<25	<25	<25	**4,200**	<25	<25	<25	<25
SAIA-MW4B	Intermediate Gaspur	08/26/2014	N	**1.1**	**18**	**6.6 J**	<0.50	<0.50	**0.72**	<0.50	<0.50	<0.50	<5.0	<5.0	**0.55**	<0.50	**1.3**	<0.50	<0.50	<0.50	<0.50	**4,800**	**0.17 J**	**0.034 J**	<0.50	<0.50
SAIA-MW4B	Intermediate Gaspur	08/26/2014	FD	**1.1**	**18**	**6.6 J**	<0.50	<0.50	**0.69**	<0.50	<0.50	<0.50	<5.0	<5.0	**0.55**	<0.50	**1.2**	<0.50	<0.50	<0.50	<0.50	**4,800**	**0.17 J**	<0.50	<0.50	<0.50
SAIA-MW4B	Intermediate Gaspur	07/22/2016	N	<10	**16**	<10	<10	<10	<10	<10	<10	<10	<100	<100	<10	<10	<10	<10	<10	<10	<10	**4,200**	<10	<10	<10	<10
SAIA-MW4C	Lower Gaspur	03/25/2014	N	<10	**3.6 J**	<10	<10	<10	<10	<10	<10	<10	<100	<100	<10	<10	<10	<10	<10	<10	<10	**910**	<10	<10	<10	<10
SAIA-MW4C	Lower Gaspur	08/26/2014	N	<0.50	**4.1**	**1.3**	<0.50	<0.50	**2.1**	**0.3 J**	<0.50	<0.50	<5.0	<5.0	**0.19 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**910**	**0.16 J**	<0.50	<0.50	<0.50
SAIA-MW4C	Lower Gaspur	07/22/2016	N	<2.5	**5.9**	<2.5	<2.5	<2.5	**2 J**	<2.5	<2.5	<2.5	<25	<25	<2.5	**1.3 J**	<2.5	<2.5	<2.5	<2.5	<2.5	**870**	<2.5	<2.5	<2.5	<2.5
SAIA-MW5A	Shallow Gaspur	03/25/2014	N	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**0.7 J**	<50	<50	<5.0	<5	<5.0	<5.0	<5.0	<5.0	<5.0	**530**	<5.0	<5.0	<5.0	<5.0
SAIA-MW5A	Shallow Gaspur	08/27/2014	N	<0.50	**0.42 J**	**0.89**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	R	<0.50	<0.50	<0.50	<0.50	<0.50	**520**	<0.50	<0.50	<0.50	<0.50
SAIA-MW5A	Shallow Gaspur	07/20/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**210**	<0.50	<0.50	<0.50	<0.50
SAIA-MW5A	Shallow Gaspur	07/20/2016	FD	<0.50	<0.50	**0.66**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**220**	<0.50	<0.50	<0.50	<0.50
SAIA-MW5B	Intermediate Gaspur	03/25/2014	N	<25	<25	<25	<25	<25	<25	<25	<25	<25	<250	<250	<25	<25	<25	<25	<25	<25	<25	**3,100**	<25	<25	<25	<25
SAIA-MW5B	Intermediate Gaspur	08/27/2014	N	**0.84**	**9.5**	**5.5**	<0.50	<0.50	**0.52**	<0.50	<0.50	<0.50	<5.0	<5.0	**0.36 J**	R	**0.96**	<0.50	<0.50	<0.50	<0.50	**3,600**	**0.16 J**	<0.50	<0.50	<0.50
SAIA-MW5B	Intermediate Gaspur	07/21/2016	N	<2.5	**6.5**	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<25	<25	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**2,100**	<2.5	<2.5	<2.5	<2.5
SAIA-MW5C	Lower Gaspur	03/25/2014	N	<4.0	<4.0	<4.0	<4.0	<4.0	**2 J**	<4.0	<4.0	<4.0	<40	<40	<4	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	**300**	<4.0	<4.0	<4.0	<4.0
SAIA-MW5C	Lower Gaspur	08/27/2014	N	<0.50	**0.64 J**	**0.8 J**	<0.50	<0.50	**1.9**	**0.26 J**	<0.50	<0.50	<5.0	<5.0	**0.18 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**320**	**0.15 J**	<0.50	<0.50	<0.50
SAIA-MW5C	Lower Gaspur	07/21/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	**1.6**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**95**	<0.50	<0.50	<0.50	<0.50
SAIA-MW6A	Shallow Gaspur	03/24/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
SAIA-MW6A	Shallow Gaspur	08/27/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
SAIA-MW6A	Shallow Gaspur	07/20/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
SAIA-MW6B	Intermediate Gaspur	03/24/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	**0.12**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	**1.9**	<0.50	**13**	<0.50	<0.50	<0.50	<0.50

Table 4-5
VOCs, SVOCs, and Metals Detected in Groundwater Samples from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

				Volatiles (ug/L)										Semivolatiles (ug/L)			Metals (ug/L)								
Location ID	Aquifer	Sample Date	Sample Type	Methylcyclohexane	Methylene Chloride	o-Xylene	Styrene	tert-Butyl Methyl Ether (MTBE)	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	Trichloroethene (TCE)	Vinyl Chloride	1,4-Dioxane (p-Dioxane)	bis(2-Ethylhexyl) Phthalate	Carbazole	Calcium	Iron	Magnesium	Potassium	Sodium	Aluminum	Arsenic	Barium	Beryllium
SAIA-MW1C	Lower Gaspur	08/25/2014	N	**0.15 J**	<0.50	**0.057 J**	<0.50	<0.50	<0.50	<0.50	**47**	**210**	**1.4**	**22**	--	--	--	--	--	--	--	--	--	--
SAIA-MW1C	Lower Gaspur	07/14/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**27**	**4.4**	**18**	**7.3**	--	--	--	--	--	--	--	--	--	--
SAIA-MW2A	Shallow Gaspur	03/27/2014	N	<10	<10	<10	<10	<10	<10	<10	**74**	**1,100 J**	<10	**12**	<5.0	<5.0	**122,000**	**883**	**35,800**	<5000	**177,000**	**349**	**29.6**	**129**	<2.0
SAIA-MW2A	Shallow Gaspur	08/25/2014	N	**0.17 J**	<0.50	**0.083 J**	<0.50	<0.50	<0.50	<0.50	**110 J**	**1,300**	**5.5**	**16**	--	--	--	--	--	--	--	--	--	--
SAIA-MW2A	Shallow Gaspur	08/25/2014	FD	**0.16 J**	<0.50	**0.087 J**	<0.50	<0.50	<0.50	<0.50	**120 J**	**1,300**	**5.3**	**15**	--	--	--	--	--	--	--	--	--	--
SAIA-MW2A	Shallow Gaspur	07/11/2016	N	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**85**	**120**	<2.5	**5.3**	--	--	--	--	--	--	--	--	--	--
SAIA-MW2B	Intermediate Gaspur	03/27/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**7.2**	**6.8 J**	<0.50	**1.7**	<5.0	<5.0	**398,000**	**2,880**	**136,000**	<5000	**285,000**	**88.2**	**24.9**	**44.5**	<2.0
SAIA-MW2B	Intermediate Gaspur	08/25/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**5.9**	**2.8**	**0.75**	**1.3**	--	--	--	--	--	--	--	--	--	--
SAIA-MW2B	Intermediate Gaspur	07/11/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.5**	**0.57**	<0.50	<0.50	--	--	--	--	--	--	--	--	--	--
SAIA-MW2C	Lower Gaspur	03/27/2014	N	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**28**	**260 J**	<2	**14**	<5.0	<5.0	**457,000**	**3,220**	**153,000**	**5,770**	**666,000**	**182**	**21.8**	**30.4**	<2.0
SAIA-MW2C	Lower Gaspur	08/25/2014	N	**0.14 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**33**	**200**	**3.3**	**20**	--	--	--	--	--	--	--	--	--	--
SAIA-MW2C	Lower Gaspur	07/11/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**19 J**	**4.7**	**0.87**	**15**	--	--	--	--	--	--	--	--	--	--
SAIA-MW3A	Shallow Gaspur	03/24/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.073**	**0.2**	**9.2 J**	<0.50	<0.50	<5.0	<5.0	**238,000**	**12,900**	**68,900**	**7,740**	**156,000**	**8,320**	**41.7**	**147**	**0.36 J**
SAIA-MW3A	Shallow Gaspur	08/26/2014	N	<0.50	<0.50	<0.50	**0.045 J**	<0.50	<0.50	**1.3**	**0.15 J**	**3.6**	<0.50	<0.46	--	--	--	--	--	--	--	--	--	--
SAIA-MW3A	Shallow Gaspur	07/13/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.29 J**	<0.50	<0.50	--	--	--	--	--	--	--	--	--	--
SAIA-MW3B	Intermediate Gaspur	03/24/2014	N	<25	<25	<25	<25	<25	<25	<25	**120**	**6,700**	<25	**110 J**	<5.0	<5.0	**141,000**	**540**	**42,400**	**4,230 J**	**160,000**	**108**	**18.6**	**43**	<1.0
SAIA-MW3B	Intermediate Gaspur	08/26/2014	N	**0.28 J**	<0.50	**0.032 J**	<0.50	<0.50	<0.50	**1.1**	**230 J**	**6,600**	**47**	**86**	--	--	--	--	--	--	--	--	--	--
SAIA-MW3B	Intermediate Gaspur	07/13/2016	N	<25	<25	<25	<25	<25	<25	<25	**340**	**3,500**	<25	**3.9**	--	--	--	--	--	--	--	--	--	--
SAIA-MW3C	Lower Gaspur	03/24/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**2.5**	**2.1**	<0.50	**1.5**	<5.0	<5.0	**497,000**	**3,710**	**154,000**	**6,850**	**308,000**	**235**	**6.4**	**59.8**	<1.0
SAIA-MW3C	Lower Gaspur	03/24/2014	FD	<0.50	<0.50	<0.50	**0.036**	<0.50	<0.50	<0.50	**2.5**	**2**	<0.50	**1.6**	<5.0	<5.0	**499,000**	**3,490**	**155,000**	**6,750**	**307,000**	**161**	**6.4**	**58.1**	<1.0
SAIA-MW3C	Lower Gaspur	08/26/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**2.6**	**6**	**6.1**	<0.46	--	--	--	--	--	--	--	--	--	--
SAIA-MW3C	Lower Gaspur	07/13/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**5.4**	**5.7**	<0.50	**6.1**	--	--	--	--	--	--	--	--	--	--
SAIA-MW4A	Shallow Gaspur	03/25/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.19**	**0.53**	<0.50	**1.6**	<5.0	<5.0	**170,000**	**2,170**	**55,400**	**6,150**	**263,000**	**980**	**47.3**	**96.6**	<1.0
SAIA-MW4A	Shallow Gaspur	08/26/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.19 J**	<0.50	**1.8**	--	--	--	--	--	--	--	--	--	--
SAIA-MW4A	Shallow Gaspur	07/22/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	--	--	--	--
SAIA-MW4B	Intermediate Gaspur	03/25/2014	N	<25	<25	<25	<25	<25	<25	<25	**130**	**790**	<25	**58**	<5.0	<5.0	**177,000**	**803**	**48,700**	**4,640 J**	**162,000**	**157**	**16.9**	**36.1**	<1.0
SAIA-MW4B	Intermediate Gaspur	08/26/2014	N	**0.19 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**180 J**	**150 J**	**6.5**	**60**	--	--	--	--	--	--	--	--	--	--
SAIA-MW4B	Intermediate Gaspur	08/26/2014	FD	**0.18 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**180 J**	**150 J**	**6.5**	**59 J**	--	--	--	--	--	--	--	--	--	--
SAIA-MW4B	Intermediate Gaspur	07/22/2016	N	<10	<10	<10	<10	<10	<10	<10	**210**	**6.6 J**	<10	**62 J**	--	--	--	--	--	--	--	--	--	--
SAIA-MW4C	Lower Gaspur	03/25/2014	N	<10	<10	<10	<10	<10	<10	<10	**53**	**3.9 J**	<10	**14**	<5.0	<5.0	**348,000**	**2,160**	**100,000**	**5,210**	**280,000**	**382**	**8.3**	**45.1**	<1.0
SAIA-MW4C	Lower Gaspur	08/26/2014	N	**0.074 J**	<0.50	<0.50	**0.074 J**	<0.50	<0.50	**1.1**	**73**	**3.4**	**11**	**11 J**	--	--	--	--	--	--	--	--	--	--
SAIA-MW4C	Lower Gaspur	07/22/2016	N	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**1.3 J**	**120**	**2.7**	**45**	**7.7**	--	--	--	--	--	--	--	--	--	--
SAIA-MW5A	Shallow Gaspur	03/25/2014	N	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**1.4 J**	**21**	**1.8 J**	<5	**2.4**	<5.0	<5.0	**330,000**	**3,440**	**110,000**	**9,010**	**366,000**	**1,340**	**15.7**	**62**	<1.0
SAIA-MW5A	Shallow Gaspur	08/27/2014	N	**0.09 J**	<0.50	<0.50	**0.041 J**	<0.50	<0.50	**0.77**	**24 J**	**1.9**	**0.72**	**2.3**	--	--	--	--	--	--	--	--	--	--
SAIA-MW5A	Shallow Gaspur	07/20/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**19**	**1.3**	<0.50	**1**	--	--	--	--	--	--	--	--	--	--
SAIA-MW5A	Shallow Gaspur	07/20/2016	FD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**17**	**1.2**	<0.50	**1.3**	--	--	--	--	--	--	--	--	--	--
SAIA-MW5B	Intermediate Gaspur	03/25/2014	N	<25	<25	<25	<25	<25	<25	**8.9 J**	**98**	**380**	<25	**16**	<5.0	<5.0	**276,000**	**2,520**	**87,800**	**4,900 J**	**337,000**	**611**	**18.1**	**47.2**	<1.0
SAIA-MW5B	Intermediate Gaspur	08/27/2014	N	**0.22 J**	<0.50	<0.50	**0.055 J**	<0.50	<0.50	**1.2**	**120 J**	**99 J**	**4.5**	**23**	--	--	--	--	--	--	--	--	--	--
SAIA-MW5B	Intermediate Gaspur	07/21/2016	N	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**79**	**3**	**20**	**30 J**	--	--	--	--	--	--	--	--	--	--
SAIA-MW5C	Lower Gaspur	03/25/2014	N	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	**21**	**6.5**	<4.0	**3.4**	<5.0	<5.0	**507,000**	**1,820**	**147,000**	**7,330**	**299,000**	**297**	**4.9**	**51.5**	<1.0
SAIA-MW5C	Lower Gaspur	08/27/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**25**	**4.8**	<0.50	**3.2**	--	--	--	--	--	--	--	--	--	--
SAIA-MW5C	Lower Gaspur	07/21/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**11**	**1.6**	<0.50	**2.4**	--	--	--	--	--	--	--	--	--	--
SAIA-MW6A	Shallow Gaspur	03/24/2014	N	<0.50	<0.50	<0.50	<0.50	**0.24**	<0.50	<0.50	<0.50	**0.087**	<0.50	**0.52**	<5.0	<5.0	**31,800**	**12,300**	**13,300**	**4,000 J**	**255,000**	**7,550**	**16**	**112**	**0.36 J**
SAIA-MW6A	Shallow Gaspur	08/27/2014	N	<0.50	<0.50	<0.50	**0.034 J**	**0.19 J**	<0.50	**0.68**	<0.50	<0.50	<0.50	**0.53**	--	--	--	--	--	--	--	--	--	--
SAIA-MW6A	Shallow Gaspur	07/20/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	--	--	--	--
SAIA-MW6B	Intermediate Gaspur	03/24/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.069**	**3.9**	**3.7**	<0.50	<0.50	<5.0	<5.0	**408,000**	**1,600**	**110,000**	**12,400**	**719,000**	**415**	**5.9**	**49.1**	<1.0

Table 4-5
VOCs, SVOCs, and Metals Detected in Groundwater Samples from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

				Metals (ug/L)												General Chemistry (ug/L)						
Location ID	**Aquifer**	**Sample Date**	**Sample Type**	**Cadmium**	**Chromium**	**Cobalt**	**Copper**	**Lead**	**Manganese**	**Nickel**	**Selenium**	**Silver**	**Thallium**	**Vanadium**	**Zinc**	**Alkalinity, Bicarbonate (as CaCO3)**	**Alkalinity, Carbonate (as CaCO3)**	**Alkalinity, Total (as CaCO3)**	**Chloride**	**Sulfate (as SO4)**	**Total Dissolved Solids**	**Total Organic Carbon**
SAIA-MW1C	Lower Gaspur	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1C	Lower Gaspur	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2A	Shallow Gaspur	03/27/2014	N	<1.0	**5.6 J**	**11.3**	**2.4 J**	**1.3**	**674**	**4.7 J**	**0.6 J**	<1.0	<1.0	<10	**13.3 J**	**780,000**	<10000	**780,000**	**26,000**	**100,000**	**1,000,000**	**23,000**
SAIA-MW2A	Shallow Gaspur	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2A	Shallow Gaspur	08/25/2014	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2A	Shallow Gaspur	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2B	Intermediate Gaspur	03/27/2014	N	<1.0	**4.2 J**	**34.6**	**7.7**	**2.7**	**2,290**	**4.5 J**	<10	<1.0	<1.0	<10	**9.4 J**	**490,000**	<10000	**490,000**	**320,000**	**1,500,000**	**3,200,000**	**6,400**
SAIA-MW2B	Intermediate Gaspur	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2B	Intermediate Gaspur	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2C	Lower Gaspur	03/27/2014	N	<1.0	**4.2 J**	**43.1**	**2 J**	**0.38 J**	**3,370**	**4.7 J**	**1.1 J**	**0.069 J**	<1.0	<10	**7.4 J**	**700,000**	<10000	**700,000**	**160,000**	**2,900,000**	**5,000,000**	**6,600**
SAIA-MW2C	Lower Gaspur	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2C	Lower Gaspur	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3A	Shallow Gaspur	03/24/2014	N	**0.1 J**	**20.2**	**6.7**	**21.9**	**6.2**	**1,430**	**16.7**	**5.1**	**0.21 J**	<1.0	**21.7**	**42**	**680,000**	<10000	**680,000**	**200,000**	**380,000**	**1,500,000**	--
SAIA-MW3A	Shallow Gaspur	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3A	Shallow Gaspur	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3B	Intermediate Gaspur	03/24/2014	N	<1.0	**8.2**	**0.74 J**	**2.1**	**0.62 J**	**766**	**5.6**	<5.0	**0.078 J**	<1.0	<5.0	**26**	**590,000**	<10000	**590,000**	**89,000**	**220,000**	**1,100,000**	--
SAIA-MW3B	Intermediate Gaspur	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3B	Intermediate Gaspur	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3C	Lower Gaspur	03/24/2014	N	<1.0	**7.8**	**0.62 J**	**3**	**0.75 J**	**3,050**	**7.5**	<5.0	**0.052 J**	<1.0	<5.0	**14.2**	**510,000**	<10000	**510,000**	**680,000**	**1,300,000**	**3,300,000**	--
SAIA-MW3C	Lower Gaspur	03/24/2014	FD	<1.0	**8.4**	**0.56 J**	**2.6**	**0.46 J**	**2,970**	**7**	<5.0	**0.066 J**	<1.0	<5.0	**8.7**	**490,000**	<10000	**490,000**	**670,000**	**1,200,000**	**3,400,000**	--
SAIA-MW3C	Lower Gaspur	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3C	Lower Gaspur	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4A	Shallow Gaspur	03/25/2014	N	<1.0	**8.6**	**1.1**	**4.5**	**0.94 J**	**1,080**	**6.9**	**6.6**	<1.0	<1.0	**1.6 J**	**13.2**	**690,000**	<10000	**690,000**	**160,000**	**390,000**	**1,500,000**	**4,300**
SAIA-MW4A	Shallow Gaspur	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4A	Shallow Gaspur	07/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4B	Intermediate Gaspur	03/25/2014	N	<1.0	**6.7**	**0.5 J**	**2.1**	**0.59 J**	**957**	**3.7**	<5.0	**0.11 J**	<1.0	<5.0	**9.2**	**610,000**	<10000	**610,000**	**86,000**	**400,000**	**1,300,000**	**19,000**
SAIA-MW4B	Intermediate Gaspur	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4B	Intermediate Gaspur	08/26/2014	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4B	Intermediate Gaspur	07/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4C	Lower Gaspur	03/25/2014	N	<1.0	**9**	**0.8 J**	**2.5**	**0.8 J**	**2,420**	**7.9**	<5.0	<1.0	<1.0	<5.0	**9.2**	**480,000**	<10000	**480,000**	**510,000**	**900,000**	**2,600,000**	**8,200**
SAIA-MW4C	Lower Gaspur	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4C	Lower Gaspur	07/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5A	Shallow Gaspur	03/25/2014	N	<1.0	**19**	**2.5**	**8.2**	**1.8**	**2,250**	**14**	<5.0	**0.08 J**	<1.0	**3.7 J**	**19.2**	**830,000**	<10000	**830,000**	**180,000**	**1,300,000**	**3,000,000**	**5,200**
SAIA-MW5A	Shallow Gaspur	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5A	Shallow Gaspur	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5A	Shallow Gaspur	07/20/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5B	Intermediate Gaspur	03/25/2014	N	<1.0	**14.2**	**1.2**	**4.9**	**1**	**1,930**	**10.7**	<5.0	**0.089 J**	<1.0	**0.87 J**	**11.6**	**630,000**	<10000	**630,000**	**150,000**	**1,200,000**	**2,600,000**	**12,000**
SAIA-MW5B	Intermediate Gaspur	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5B	Intermediate Gaspur	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5C	Lower Gaspur	03/25/2014	N	<1.0	**6.3**	**1.1**	**3.1**	**0.68 J**	**3,050**	**7.5**	<5.0	**0.055 J**	<1.0	<5.0	**7.9**	**450,000**	<10000	**450,000**	**700,000**	**1,200,000**	**3,300,000**	**7,300**
SAIA-MW5C	Lower Gaspur	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5C	Lower Gaspur	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6A	Shallow Gaspur	03/24/2014	N	**0.15 J**	**27.1**	**6.7**	**29.4**	**7.4**	**454**	**22.4**	<5.0	**0.21 J**	<1.0	**20.4**	**65.1**	**390,000**	<10000	**390,000**	**100,000**	**230,000**	**940,000**	**5,900**
SAIA-MW6A	Shallow Gaspur	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6A	Shallow Gaspur	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6B	Intermediate Gaspur	03/24/2014	N	<1.0	**10.7**	**0.73 J**	**4.6**	**0.45 J**	**1,800**	**7**	**12**	**0.049 J**	<1.0	<5.0	**10**	**710,000**	<10000	**710,000**	**350,000**	**2,000,000**	**4,300,000**	--

Table 4-5
VOCs, SVOCs, and Metals Detected in Groundwater Samples from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

				Volatiles (ug/L)																					
Location ID	**Aquifer**	**Sample Date**	**Sample Type**	**1,1,2-Trichloroethane**	**1,1-Dichloroethane**	**1,1-Dichloroethene**	**1,2,3-Trichlorobenzene**	**1,2,4-Trichlorobenzene**	**1,2-Dichloroethane**	**1,2-Dichloropropane**	**1,3-Dichlorobenzene**	**1,4-Dichlorobenzene**	**4-Methyl-2-pentanone (MIBK)**	**Acetone**	**Benzene**	**Bromomethane**	**Carbon Disulfide**	**Chlorobenzene**	**Chloroethane**	**Chloroform**	**Chloromethane**	**cis-1,2-Dichloroethylene**	**Cyclohexane**	**Ethylbenzene**	**Isopropylbenzene (Cumene)**	**m,p-Xylene**
SAIA-MW6B	Intermediate Gaspur	08/27/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**14**	<0.50	<0.50	<0.50	<0.50
SAIA-MW6B	Intermediate Gaspur	07/20/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**14**	<0.50	<0.50	<0.50	<0.50
SAIA-MW6C	Lower Gaspur	03/24/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	**0.2**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**17**	<0.50	<0.50	<0.50	**0.031**
SAIA-MW6C	Lower Gaspur	08/27/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	R	**0.24 J**	<0.50	<0.50	<0.50	<0.50	**21**	<0.50	<0.50	<0.50	<0.50
SAIA-MW6C	Lower Gaspur	07/20/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	**0.31 J**	<0.50	<0.50	<0.50	<5.0	**6.3**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**17**	<0.50	<0.50	<0.50	<0.50
SAIA-MW7	Exposition Aquifer	03/27/2014	N	<0.50	**0.3**	<0.50	<0.50	<0.50	**0.96**	<0.50	**0.11**	**0.14**	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**16**	<0.50	<0.50	<0.50	<0.50
SAIA-MW7	Exposition Aquifer	03/27/2014	FD	<0.50	**0.37**	<0.50	<0.50	<0.50	**1.1**	<0.50	**0.12**	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**17**	<0.50	<0.50	<0.50	<0.50
SAIA-MW7	Exposition Aquifer	08/25/2014	N	<0.50	**0.67**	**0.65**	<0.50	<0.50	**1.6**	<0.50	**0.12 J**	<0.50	<5.0	<5.0	**0.14 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**57**	<0.50	<0.50	<0.50	<0.50
SAIA-MW7	Exposition Aquifer	07/11/2016	N	<0.50	**0.84**	<0.50	<0.50	<0.50	**2.9**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**73**	<0.50	<0.50	<0.50	<0.50
SAIA-MW8	Exposition Aquifer	03/24/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	**0.18**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.83**	<0.50	<0.50	<0.50	<0.50
SAIA-MW8	Exposition Aquifer	08/25/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	**0.62**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.9**	<0.50	<0.50	<0.50	<0.50
SAIA-MW8	Exposition Aquifer	07/21/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	**0.78**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**2.2**	<0.50	<0.50	<0.50	<0.50
SAIA-MW9A	Shallow Gaspur	07/18/2016	N	<0.50	<0.50	<0.50	**0.37 J**	**0.2 J**	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.2**	<0.50	<0.50	<0.50	<0.50
SAIA-MW9A	Shallow Gaspur	09/20/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.3 J**	<0.50	<0.50	<0.50	<0.50
SAIA-MW9B	Intermediate Gaspur	07/18/2016	N	<0.50	<0.50	<0.50	<0.50	R	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**52**	<0.50	<0.50	<0.50	<0.50
SAIA-MW9B	Intermediate Gaspur	09/20/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**18**	<0.50	<0.50	<0.50	<0.50
SAIA-MW9C	Lower Gaspur	07/18/2016	FD	<1.0	<1.0	<1.0	<1.0	R	**0.48 J**	<1.0	<1.0	<1.0	<10	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**310**	<1.0	<1.0	<1.0	<1.0
SAIA-MW9C	Lower Gaspur	07/18/2016	N	<1.0	<1.0	<1.0	<1.0	R	**0.4 J**	<1.0	<1.0	<1.0	<10	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**250**	<1.0	<1.0	<1.0	<1.0
SAIA-MW9C	Lower Gaspur	09/20/2016	N	<0.50	**0.88**	**0.82**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**500**	<0.50	<0.50	<0.50	<0.50
SAIA-MW10	Exposition Aquifer	07/18/2016	N	<1.0	<1.0	<1.0	<1.0	R	**0.59 J**	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**220**	<1.0	<1.0	<1.0	<1.0
SAIA-MW10	Exposition Aquifer	09/20/2016	N	<0.50	**0.32 J**	**1.2**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.66 J**	**480**	**0.21 J**	<0.50	<0.50	<0.50
SAIA-MW11A	Shallow Gaspur	07/15/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
SAIA-MW11A	Shallow Gaspur	09/22/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
SAIA-MW11B	Intermediate Gaspur	07/15/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	**3.5 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**47**	<0.50	<0.50	<0.50	<0.50
SAIA-MW11B	Intermediate Gaspur	09/22/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	**7.1**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**40**	<0.50	<0.50	<0.50	<0.50
SAIA-MW11C	Lower Gaspur	07/15/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**36**	<0.50	<0.50	<0.50	<0.50
SAIA-MW11C	Lower Gaspur	09/22/2016	FD	<0.50	<0.50	**0.3 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**61**	<0.50	<0.50	<0.50	<0.50
SAIA-MW11C	Lower Gaspur	09/22/2016	N	<0.50	<0.50	**0.27 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**55**	<0.50	<0.50	<0.50	<0.50
SAIA-MW12A	Shallow Gaspur	07/25/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1**	<0.50	<0.50	<0.50	<0.50
SAIA-MW12A	Shallow Gaspur	09/21/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	**5.3 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.5**	<0.50	<0.50	<0.50	<0.50
SAIA-MW12B	Intermediate Gaspur	07/25/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.77 J**	<0.50	<0.50	<0.50	<0.50
SAIA-MW12B	Intermediate Gaspur	09/21/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.7**	<0.50	<0.50	<0.50	<0.50
SAIA-MW12C	Lower Gaspur	07/25/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.66 J**	<0.50	<0.50	<0.50	<0.50
SAIA-MW12C	Lower Gaspur	09/21/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	**9 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**8**	<0.50	<0.50	<0.50	<0.50
SAIA-MW13	Exposition Aquifer	07/21/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	**11**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**190**	<0.50	<0.50	<0.50	<0.50
SAIA-MW13	Exposition Aquifer	09/21/2016	N	<0.50	<0.50	**0.47 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	**10**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**250**	<0.50	<0.50	<0.50	<0.50
Screening Criteria																										
MCL or NL				5	5	6	NA	70	0.5	5	NA	75	NA	NA	1	NA	NA	100	NA	80	NA	6	NA	700	NA	1750
RSL for Tap Water, or DTSC-modified RSL				0.28	2.8	280	7	NA	NA	NA	NA	NA	6300	14000	0.15 [1]	7.5	810	78	2100	0.22	190	NA	13000	1.5	450	NA

Notes:

Exceeds primary (not secondary) MCL for California or US, or exceeds NL (California Notification Level).

In the absence of a primary MCL or NL, value is highlighted if it exceeds the DTSC-modified screening level or RSL Tap Water screening criterion.

[1] = Based on California-modified RSLs (DTSC, 2018 - Table 2 Screening Levels for Tapwater, HERO HHRA Note Number 3, DTSC-modified Screening Levels [DTSC-SLs] [released June 2018]).

[2] = Based on Notification Level (California SWRCB Division of Drinking Water, updated 2 February 2018).

[3] = Secondary MCL (not used for determining a screening-level exceedance)

Table 4-5
VOCs, SVOCs, and Metals Detected in Groundwater Samples from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

				Volatiles (ug/L)										Semivolatiles (ug/L)			Metals (ug/L)								
Location ID	**Aquifer**	**Sample Date**	**Sample Type**	**Methylcyclohexane**	**Methylene Chloride**	**o-Xylene**	**Styrene**	**tert-Butyl Methyl Ether (MTBE)**	**Tetrachloroethene (PCE)**	**Toluene**	**trans-1,2-Dichloroethene**	**Trichloroethene (TCE)**	**Vinyl Chloride**	**1,4-Dioxane (p-Dioxane)**	**bis(2-Ethylhexyl) Phthalate**	**Carbazole**	**Calcium**	**Iron**	**Magnesium**	**Potassium**	**Sodium**	**Aluminum**	**Arsenic**	**Barium**	**Beryllium**
SAIA-MW6B	Intermediate Gaspur	08/27/2014	N	<0.50	<0.50	<0.50	**0.048 J**	<0.50	<0.50	**0.99**	**5.1**	**3.6**	<0.50	**0.26 J**	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6B	Intermediate Gaspur	07/20/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**3.7**	**2.7**	<0.50	<0.50	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6C	Lower Gaspur	03/24/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.075**	**2.3**	**2**	<0.50	**0.52**	<5.0	<5.0	**499,000**	**2,270**	**130,000**	**8,710**	**492,000**	**237**	**4.2**	**52.5**	<1.0
SAIA-MW6C	Lower Gaspur	08/27/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**2.8**	**2.4**	<0.50	**0.52**	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6C	Lower Gaspur	07/20/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**2.9**	**2**	**1.2**	<0.50	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW7	Exposition Aquifer	03/27/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.1**	**24 J**	<0.50	**1.9**	<5.0	<5.0	**714,000**	**1,370**	**166,000**	**5,930 J**	**359,000**	**927**	**4.7**	**92.1**	<2.0
SAIA-MW7	Exposition Aquifer	03/27/2014	FD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.1**	**22 J**	<0.50	**2**	<5.0	<5.0	**737,000**	**419**	**171,000**	**5,850 J**	**368,000**	**302**	**3.3**	**62.4**	<1.0
SAIA-MW7	Exposition Aquifer	08/25/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**2.5**	**22**	**1.3**	**3.6**	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW7	Exposition Aquifer	07/11/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**4.8**	**19**	<0.50	**7.9**	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW8	Exposition Aquifer	03/24/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.18**	**0.08**	**0.53**	<0.50	<0.50	<5	<5	**374,000**	**874**	**80,500**	**5,180**	**142,000**	**178**	**8.9**	**82.6**	<1
SAIA-MW8	Exposition Aquifer	08/25/2014	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.2 J**	**3.9**	<0.50	**0.16 J**	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW8	Exposition Aquifer	07/21/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.31 J**	**1.3**	<0.50	<0.50	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9A	Shallow Gaspur	07/18/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.13 J**	<0.50	<0.50	**7.5**	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9A	Shallow Gaspur	09/20/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**5.5 J**	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9B	Intermediate Gaspur	07/18/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**5.5**	**0.91**	<0.50	**1.2**	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9B	Intermediate Gaspur	09/20/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.4**	**1.4**	<0.50	**1 J**	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9C	Lower Gaspur	07/18/2016	FD	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**22**	**0.74 J**	<1.0	**1.7**	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9C	Lower Gaspur	07/18/2016	N	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**22**	**0.7 J**	<1.0	**3.6**	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9C	Lower Gaspur	09/20/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**35**	**0.79**	**0.71**	**2.1 J**	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW10	Exposition Aquifer	07/18/2016	N	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**14**	**0.93 J**	<1.0	**0.72**	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW10	Exposition Aquifer	09/20/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**19 J**	**1.4**	**0.67**	**1.1 J**	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11A	Shallow Gaspur	07/15/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11A	Shallow Gaspur	09/22/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11B	Intermediate Gaspur	07/15/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**6.1**	**16**	<0.50	<0.50	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11B	Intermediate Gaspur	09/22/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**3.7**	**15**	<0.50	<0.50	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11C	Lower Gaspur	07/15/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**6.7**	**11**	<0.50	<0.50	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11C	Lower Gaspur	09/22/2016	FD	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**6.4**	**9.4**	<0.50	<0.50	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11C	Lower Gaspur	09/22/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**7.2**	**11**	<0.50	<0.50	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12A	Shallow Gaspur	07/25/2016	N	<0.50	<0.50	<0.50	<0.50	**0.67**	<0.50	<0.50	**0.2 J**	**0.63**	<0.50	<0.50	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12A	Shallow Gaspur	09/21/2016	N	<0.50	<0.50	<0.50	<0.50	**0.56**	<0.50	<0.50	**0.35 J**	**0.97**	<0.50	**0.72 J**	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12B	Intermediate Gaspur	07/25/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.73**	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12B	Intermediate Gaspur	09/21/2016	N	<0.50	<0.50	<0.50	<0.50	**1.3**	<0.50	<0.50	**0.42 J**	**1.6**	<0.50	**1 J**	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12C	Lower Gaspur	07/25/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12C	Lower Gaspur	09/21/2016	N	<0.50	<0.50	<0.50	<0.50	**0.51**	<0.50	<0.50	**0.67**	**1.5**	<0.50	**0.48 J**	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW13	Exposition Aquifer	07/21/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**29**	**1.5**	<0.50	<0.50	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW13	Exposition Aquifer	09/21/2016	N	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**32**	**2**	**0.36 J**	**0.22 J**	--	--	--	--	--	--	--	--	--	--	--
Screening Criteria																									
MCL or NL				NA	5	1750	100	13	5	150	10	5	0.5	1 [2]	6	NA	NA	300 [3]	NA	NA	NA	1,000	10	2,000	4 [1]
RSL for Tap Water, or DTSC-modified RSL				NA	0.93 [1]	190	1200	NA	0.082 [1]	1100	360	0.49	0.019	0.46	5.6	NA	NA	14,000	NA	NA	NA	20,000	0.0082	3,800	25

Table 4-5
VOCs, SVOCs, and Metals Detected in Groundwater Samples from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

				Metals (ug/L)												General Chemistry (ug/L)						
Location ID	**Aquifer**	**Sample Date**	**Sample Type**	**Cadmium**	**Chromium**	**Cobalt**	**Copper**	**Lead**	**Manganese**	**Nickel**	**Selenium**	**Silver**	**Thallium**	**Vanadium**	**Zinc**	**Alkalinity, Bicarbonate (as CaCO3)**	**Alkalinity, Carbonate (as CaCO3)**	**Alkalinity, Total (as CaCO3)**	**Chloride**	**Sulfate (as SO4)**	**Total Dissolved Solids**	**Total Organic Carbon**
SAIA-MW6B	Intermediate Gaspur	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6B	Intermediate Gaspur	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6C	Lower Gaspur	03/24/2014	N	<1.0	**18.6**	**0.86 J**	**3.5**	**2**	**2,300**	**13.8**	**12.3**	**0.071 J**	<1.0	<5.0	**10.2**	**640,000**	<10000	**640,000**	**410,000**	**1,900,000**	**4,100,000**	--
SAIA-MW6C	Lower Gaspur	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6C	Lower Gaspur	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW7	Exposition Aquifer	03/27/2014	N	**0.17 J**	**12.2 J**	**63.8**	**4.9**	**1.6**	**3,550**	**18.9 J**	<10	<1.0	<1.0	<10	**19.5 J**	**420,000**	<10000	**420,000**	**730,000**	**2,100,000**	**4,800,000**	**4,000**
SAIA-MW7	Exposition Aquifer	03/27/2014	FD	<1.0	**3.2 J**	**59.4**	**2.3**	**0.74 J**	**3,530**	**6.7 J**	<5.0	**0.06 J**	<1.0	<5.0	**10.5 J**	**420,000**	<10000	**420,000**	**740,000**	**2,200,000**	**4,700,000**	**3,900**
SAIA-MW7	Exposition Aquifer	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW7	Exposition Aquifer	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW8	Exposition Aquifer	03/24/2014	N	<1	**8.4**	**0.54 J**	**2.3**	**0.83 J**	**703**	**5.5**	<5	**0.27 J**	<1	<5	**25.6**	**320,000**	<10000	**320,000**	**390,000**	**780,000**	**2,100,000**	--
SAIA-MW8	Exposition Aquifer	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW8	Exposition Aquifer	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9A	Shallow Gaspur	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9A	Shallow Gaspur	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9B	Intermediate Gaspur	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9B	Intermediate Gaspur	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9C	Lower Gaspur	07/18/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9C	Lower Gaspur	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9C	Lower Gaspur	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW10	Exposition Aquifer	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW10	Exposition Aquifer	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11A	Shallow Gaspur	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11A	Shallow Gaspur	09/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11B	Intermediate Gaspur	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11B	Intermediate Gaspur	09/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11C	Lower Gaspur	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11C	Lower Gaspur	09/22/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11C	Lower Gaspur	09/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12A	Shallow Gaspur	07/25/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12A	Shallow Gaspur	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12B	Intermediate Gaspur	07/25/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12B	Intermediate Gaspur	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12C	Lower Gaspur	07/25/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12C	Lower Gaspur	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW13	Exposition Aquifer	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW13	Exposition Aquifer	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Screening Criteria																						
MCL or NL				5	100	NA	1,300	15	50 [3]	100	50	100 [3]	2	NA	500 [3]	NA	NA	NA	250,000 [3]	250,000 [3]	500,000 [3]	NA
RSL for Tap Water, or DTSC-modified RSL				9.2	NA	6	80	15	430	NA	100	94	0.2	86	6000	NA	NA	NA	NA	NA	NA	NA

Table 4-5
VOCs, SVOCs, and Metals Detected in Groundwater Samples from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

				Volatiles (ug/L)																					
Location ID	**Aquifer**	**Sample Date**	**Sample Type**	**1,1,2-Trichloroethane**	**1,1-Dichloroethane**	**1,1-Dichloroethene**	**1,2,3-Trichlorobenzene**	**1,2,4-Trichlorobenzene**	**1,2-Dichloroethane**	**1,2-Dichloropropane**	**1,3-Dichlorobenzene**	**1,4-Dichlorobenzene**	**4-Methyl-2-pentanone (MIBK)**	**Acetone**	**Benzene**	**Bromomethane**	**Carbon Disulfide**	**Chlorobenzene**	**Chloroethane**	**Chloroform**	**Chloromethane**	**cis-1,2-Dichloroethylene**	**Cyclohexane**	**Ethylbenzene**	**Isopropylbenzene (Cumene)**	**m,p-Xylene**

Notes (continued):

Detected results shown in bold font

FD = Field duplicate sample results

ID = Identification number

J = Estimated value

MCL = Maximum contaminant level

N = Normal sample results

NA = Not available

NL - Notification Level (California SWRCB Division of Drinking Water, updated 2 February 2018)

PCB = Polychlorinated biphenyl

R = The sample result was rejected due to serious deficiencies in meeting QC criteria.

RSL = Regional Screening Level, EPA Region 9

ug/L = Micrograms per liter

-- = Not analyzed

Table 4-6
VOCs and SVOCs Detected in Groundwater Discrete-Depth Samples from CPT Borings
Southern Avenue Industrial Area Superfund Site
South Gate, Los Angeles County, California

					VOCs (ug/L)																								SVOC (ug/L)
Location ID	**Aquifer**	**Sample Date**	**Sample Type**	**Sample Depth**	**1,1-Dichloroethane**	**1,1-Dichloroethene**	**1,2,3-Trichloropropane**	**1,2-Dichloroethane**	**1,2-Dichloropropane**	**1,3-Dichlorobenzene**	**1,4-Dichlorobenzene**	**2-Butanone (MEK)**	**Acetone**	**Benzene**	**Bromoform**	**Bromomethane**	**Carbon Disulfide**	**cis-1,2-Dichloroethylene**	**Cyclohexane**	**Dibromochloromethane**	**m,p-Xylene**	**Methyl Acetate**	**Methylene Chloride**	**o-Xylene**	**Tetrachloroethene (PCE)**	**Toluene**	**trans-1,2-Dichloroethene**	**Trichloroethene (TCE)**	**Vinyl Chloride**	**1,4-Dioxane (p-Dioxane)**
SAIA-HP10	Perched Aquifer	02/28/2013	N	42	**0.23 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**11**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.18 J**	**0.15 J**	**0.33 J**	**20**	<0.50	<0.50
SAIA-HP10	Shallow Gaspur	02/27/2013	N	64	**22 J**	<25	<25	<25	<25	<25	<25	<250	<250	<25	<25	<25	<25	**2,000**	<25	<25	<25	<25	<25	<25	<25	<25	**43**	**1,400**	<25	**19**
SAIA-HP10	Intermediate Gaspur	02/27/2013	N	85	**2.2 J**	<4.0	<4.0	**58**	<4.0	<4.0	<4.0	<40	<40	**15**	<4.0	<4.0	<4.0	**400**	**2.0 J**	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	**19**	**8.7**	<4.0	**6.0**
SAIA-HP10	Lower Gaspur	02/27/2013	N	102	**13 J**	<25	<25	<25	<25	<25	<25	<250	<250	<25	<25	<25	<25	**560**	<25	<25	<25	<25	<25	<25	<25	<25	**33**	**1,800 J**	<25	**0.60**
SAIA-HP10	Exposition Aquifer	02/27/2013	N	122	<0.50	<0.50	<0.50	**0.46 J**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**5.8**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.36 J**	**12**	<0.50	**32**
SAIA-HP17	Shallow Gaspur	03/11/2013	N	65	**0.32 J**	<2.0	<2.0	**32**	<2.0	<2.0	<2.0	<2.00	**12 J**	<2.0	<2.0	<2.0	<2.0	**62**	**1.4 J**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**3.5**	**88**	<2.0	**1.7**
SAIA-HP17	Shallow Gaspur	03/11/2013	FD	65	**0.27 J**	<2.0	<2.0	**25**	<2.0	<2.0	<2.0	<2.00	**10 J**	<2.0	<2.0	<2.0	<2.0	**50**	**1.1 J**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**2.9**	**110**	<2.0	**1.1**
SAIA-HP17	Intermediate Gaspur	03/11/2013	N	82	<0.50	<0.50	<0.50	**3.6**	<0.50	<0.50	<0.50	<5.0	**16**	<0.50	<0.50	<0.50	<0.50	**1.3**	**0.38 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.29 J**	**10**	<0.50	**1.2**
SAIA-HP17	Lower Gaspur	03/11/2013	N	100	**0.12 J**	<0.50	<0.50	**0.49 J**	<0.50	<0.50	<0.50	<5.0	**11**	<0.50	<0.50	<0.50	<0.50	**21**	**0.069 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**2.3**	**24**	<0.50	**1.8**
SAIA-HP17	Exposition Aquifer	03/11/2013	N	123	<0.50	<0.50	<0.50	**0.42 J**	<0.50	<0.50	<0.50	<5.0	**87**	<0.50	<0.50	<0.50	<0.50	**0.60**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.60**	<0.50	**7.1**
SAIA-HP18	Shallow Gaspur	03/12/2013	N	67	**0.12 J**	<0.50	<0.50	**0.17 J**	<0.50	<0.50	<0.50	<5.0	**4.0 J**	<0.50	<0.50	<0.50	<0.50	**5.8**	**0.097 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.79**	**40**	<0.50	**2.6**
SAIA-HP18	Intermediate Gaspur	03/12/2013	N	85	**1.7 J**	**4.5**	<2.0	**53**	<2.0	<2.0	<2.0	<2.00	**12 J**	<2.0	<2.0	<2.0	<2.0	**170**	**2.5**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**13**	**38**	<2.0	**6.8**
SAIA-HP18	Lower Gaspur	03/12/2013	N	100	**5.8**	**7.3**	<5.0	**29**	<5.0	<5.0	<5.0	<5.00	**21 J**	<5.0	<5.0	<5.0	<5.0	**460**	**2.2 J**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**66**	**180**	<5.0	**13**
SAIA-HP18	Lower Gaspur	03/12/2013	FD	100	**8.5**	**11**	<4.0	**52**	<4.0	<4.0	<4.0	<400	<400	<4.0	<4.0	<4.0	<4.0	**960**	**3.8 J**	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	**100**	**410**	<4.0	**11**
SAIA-HP18	Exposition Aquifer	03/12/2013	N	124	<0.50	<0.50	<0.50	**0.66**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
SAIA-HP21	Perched Aquifer	02/26/2013	N	42	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**8.5**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.62**	<0.50	<0.50
SAIA-HP21	Shallow Gaspur	02/26/2013	N	64	**13 J**	<25	<25	<25	<25	<25	<25	<250	<250	<25	<25	<25	<25	**2,100**	<25	<25	<25	<25	<25	<25	<25	<25	**50**	**3,500**	<25	**33**
SAIA-HP21	Intermediate Gaspur	02/26/2013	N	85	<0.50	<0.50	<0.50	**3.8**	**0.38 J**	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**20**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.7**	**4.5**	<0.50	**0.56**
SAIA-HP21	Lower Gaspur	02/26/2013	N	102	**1.3 J**	<2.0	<2.0	**7.6**	<2.0	<2.0	<2.0	<200	<200	<2.0	<2.0	<2.0	<2.0	**30**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**4.2**	**170**	<2.0	**6.0**
SAIA-HP21	Exposition Aquifer	02/26/2013	N	122	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.22 J**	<0.50	<0.50
SAIA-HP21	Exposition Aquifer	02/26/2013	N	142	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**3.3 J**	**14**	<0.50	<0.50	<0.50	<0.50	**2.5**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**3.9**	<0.50	<0.50
SAIA-HP36	Shallow Gaspur	02/28/2013	N	64	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	**4.9 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.34 J**	<0.50	<0.50
SAIA-HP36	Intermediate Gaspur	02/28/2013	N	89	**7.9**	**2.3**	<0.50	**2.3**	**0.47 J**	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**61**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**4.5**	**12**	**6.6**	**23**
SAIA-HP36	Lower Gaspur	02/28/2013	N	108	**0.7**	<0.50	<0.50	**0.40 J**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**18**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**2.0**	**0.61**	<0.50	**1.9**
SAIA-HP36	Exposition Aquifer	02/28/2013	N	128	<0.50	<0.50	<0.50	**1.1**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
SAIA-CPT02	Perched Aquifer	03/22/2013	N	40	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	**0.45 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.091 J**	<0.50	<0.50
SAIA-CPT02	Shallow Gaspur	03/22/2013	N	64	**0.10 J**	<0.50	<0.50	**0.065 J**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**7.3**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.59**	**1.3**	<0.50	<0.50
SAIA-CPT02	Intermediate Gaspur	03/22/2013	N	80	<0.50	<0.50	<0.50	**8.0**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**0.18 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.085 J**	<0.50	**1.0**
SAIA-CPT02	Lower Gaspur	03/22/2013	N	98	<0.50	<0.50	<0.50	**6.1**	**0.21 J**	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**0.13 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.063 J**	<0.50	**0.95**
SAIA-CPT02	Exposition Aquifer	03/22/2013	N	124	<0.50	<0.50	<0.50	**0.30 J**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
SAIA-CPT03	Perched Aquifer	03/13/2013	N	40	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
SAIA-CPT03	Shallow Gaspur	03/13/2013	N	64	<2.0	<2.0	<2.0	<2.0	<2.0	**0.087 J**	**0.12 J**	<2.00	<2.00	<2.0	<2.0	<2.0	<2.0	**120**	<2.0	<2.0	<2.0	<2.0	**6.0**	<2.0	<2.0	<2.0	**44**	**92**	<2.0	**8.0**
SAIA-CPT03	Intermediate Gaspur	03/13/2013	N	84	<0.50	<0.50	<0.50	**0.39 J**	<0.50	<0.50	<0.50	<5.0	**6.3**	<0.50	<0.50	<0.50	<0.50	**0.31 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.21 J**	<0.50	**0.42 J**
SAIA-CPT03	Intermediate Gaspur	03/13/2013	FD	84	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	**3.1 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.42 J**
SAIA-CPT03	Lower Gaspur	03/13/2013	N	102	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.71**
SAIA-CPT03	Exposition Aquifer	03/13/2013	N	138	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	**16**	<0.50	<0.50	<0.50	<0.50	**4.3**	<0.50	<0.50	**0.11 J**	<0.50	<0.50	<0.50	<0.50	<0.50	**0.26 J**	**2.4**	<0.50	<0.50
SAIA-CPT04	Perched Aquifer	03/14/2013	N	40	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	**2.8 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
SAIA-CPT04	Shallow Gaspur	03/14/2013	N	64	**12 J**	<25	<25	<25	<25	<25	<25	<250	<250	<25	<25	<25	<25	**1,300**	<25	<25	<25	<25	<25	<25	<25	<25	**29**	**890**	<2.05	**12**
SAIA-CPT04	Intermediate Gaspur	03/14/2013	N	84	**0.12 J**	<0.50	<0.50	**1.4**	<0.50	<0.50	<0.50	<5.0	**21**	<0.50	<0.50	<0.50	<0.50	**52**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**3.5**	**6.5**	<0.50	**0.57**
SAIA-CPT04	Lower Gaspur	03/14/2013	N	102	**2.3 J**	<4.0	<4.0	**4.5**	<4.0	<4.0	<4.0	<4.00	<4.00	<4.0	<4.0	<4.0	<4.0	**55**	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	**7.5**	**280**	<4.0	**9.2**
SAIA-CPT04	Exposition Aquifer	03/14/2013	N	128	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
SAIA-CPT05	Perched Aquifer	03/04/2013	N	42	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**9.8**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.36 J**	**0.87**	<0.50	**0.77**
SAIA-CPT05	Shallow Gaspur	03/05/2013	N	64	<10	<10	<10	<10	<10	<10	<10	<100	<100	<10	<10	<10	<10	**490**	<10	<10	<10	<10	**23**	<10	<10	<10	**31**	**400**	<10	**2.6**
SAIA-CPT05	Intermediate Gaspur	03/05/2013	N	84	<1.0	<1.0	<1.0	**1.4**	<1.0	<1.0	<1.0	<10	<10	<1.0	<1.0	<1.0	<1.0	**97**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**11**	**1.3 J**	<1.0	**0.9**
SAIA-CPT05	Lower Gaspur	03/05/2013	N	104	<0.50	<0.50	<0.50	**1.3**	**0.19 J**	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**7.3**	**0.10 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.38 J**	**2.7**	<0.50	**1.6**
SAIA-CPT05	Exposition Aquifer	03/05/2013	N	130	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**0.14 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
SAIA-CPT06	Perched Aquifer	03/08/2013	N	42	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	**21**	<0.50	<0.50	<0.50	<0.50	**0.077 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.092 J**	<0.50	<0.50	<0.50	--
SAIA-CPT06	Shallow Gaspur	03/08/2013	N	63	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**3.9**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.49 J**	**2.1**	<0.50	<0.50
SAIA-CPT06	Intermediate Gaspur	03/08/2013	N	82	**21 J**	<40	<40	<40	<40	<40	<40	<400	<400	<40	<40	<40	<40	**3,900**	<40	<40	<40	<40	<40	<40	<40	**5.4 J**	**770**	**270**	<40	**40**
SAIA-CPT06	Lower Gaspur	03/08/2013	N	102	**0.13 J**	<0.50	**0.094 J**	**1.8**	**0.22 J**	<0.50	<0.50	<5.0	**11**	<0.50	<0.50	<0.50	<0.50	**42**	**0.12 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**2.9**	**1.3**	<0.50	**1.0**
SAIA-CPT06	Exposition Aquifer	03/08/2013	N	132	<0.50	<0.50	<0.50	**0.12 J**	<0.50	<0.50	<0.50	<5.0	**15**	<0.50	<0.50	<0.50	<0.50	**0.3 J**	<0.50	<0.50	<0.50	**0.4 J**	**0.1 J**	<0.50	<0.50	<0.50	<0.50	**0.087 J**	<0.50	<0.50
SAIA-CPT07	Perched Aquifer	03/04/2013	N	42	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	**17**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.19 J**	<0.50	<0.50	<0.50	<0.50
SAIA-CPT07	Shallow Gaspur	03/01/2013	N	70	**2.0 J**	<10	<10	<10	<10	<10	<10	<100	<100	<10	<10	<10	<10	**780**	<10	<10	<10	<10	<10	<10	<10	<10	**36**	**16**	<10	**15**
SAIA-CPT07	Shallow Gaspur	03/01/2013	FD	70	**2.3 J**	<10	<10	<10	<10	<10	<10	<100	<100	<10	<10	<10	<10	**810**	<10	<10	<10	<10	<10	<10	<10	<10	**40**	**17**	<10	**20**
SAIA-CPT07	Lower Gaspur	03/01/2013	N	96	<0.50	<0.50	<0.50	**0.53**	<0.50	<0.50	<0.50	<5.0	**4.8 J**	<0.50	<0.50	<0.50	<0.50	**13**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.2**	**2.9**	<0.50	**0.66**
SAIA-CPT07	Lower Gaspur/Exposition	03/01/2013	N	114	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	**14**	<0.50	<0.50	<0.50	<0.50	**3.1**	<0.50	<0.50	<0.50	<0.50	**1.1**	<0.50	<0.50	<0.50	**0.16 J**	<0.50	<0.50	<0.50
SAIA-CPT07	Exposition Aquifer	03/01/2013	N	134	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	**8.6**	<0.50	<0.50	<0.50	<0.50	**0.28 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
SAIA-CPT08	Perched Aquifer	03/07/2013	N	42	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**0.73**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.13 J**	<0.50	<0.50

Table 4-6
VOCs and SVOCs Detected in Groundwater Discrete-Depth Samples from CPT Borings
Southern Avenue Industrial Area Superfund Site
South Gate, Los Angeles County, California

					VOCs (ug/L)																								SVOC (ug/L)
Location ID	Aquifer	Sample Date	Sample Type	Sample Depth	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichloropropane	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2-Butanone (MEK)	Acetone	Benzene	Bromoform	Bromomethane	Carbon Disulfide	cis-1,2-Dichloroethylene	Cyclohexane	Dibromochloromethane	m,p-Xylene	Methyl Acetate	Methylene Chloride	o-Xylene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	Trichloroethene (TCE)	Vinyl Chloride	1,4-Dioxane (p-Dioxane)
SAIA-CPT08	Intermediate Gaspur	03/07/2013	N	76	<10	<10	<10	<10	<10	<10	<10	<100	<100	<10	<10	<10	<10	**530**	<10	<10	<10	<10	<10	<10	<10	<10	**27**	**12**	<10	**1.8**
SAIA-CPT08	Lower Gaspur	03/07/2013	N	96	**0.18 J**	<0.50	<0.50	**1.0**	**0.17 J**	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**78**	**0.11 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**5**	**1.7**	<0.50	**0.55**
SAIA-CPT08	Exposition Aquifer	03/07/2013	N	121	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**0.69**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.066 J**	<0.50	**0.13 J**	<0.50	<0.50
SAIA-CPT09	Perched Aquifer	03/06/2013	N	42	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.51**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.51**
SAIA-CPT09	Intermediate Gaspur	03/06/2013	N	78	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.00	<2.00	<2.0	<2.0	<2.0	<2.0	**110**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**12**	**0.56 J**	<2.0	<0.50
SAIA-CPT09	Intermediate Gaspur	03/06/2013	FD	78	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**140**	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**16**	<2.5	<2.5	<0.50
SAIA-CPT09	Lower Gaspur	03/06/2013	N	98	**0.36 J**	<0.50	<0.50	**1.2**	**0.19 J**	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**43**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**5.3**	**2.4**	<0.50	**0.65**
SAIA-CPT09	Exposition Aquifer	03/06/2013	N	120	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**0.22 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
SAIA-CPT10	Perched Aquifer	03/21/2013	N	42	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.48 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
SAIA-CPT10	Shallow Gaspur	03/21/2013	N	60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	**15**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.61**	<0.50	**0.09 J**	<0.50	<0.50	<0.50	**0.31 J**	<0.50	<0.50
SAIA-CPT10	Intermediate Gaspur	03/21/2013	N	80	**2.2 J**	**3.2 J**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.00	<5.00	<5.0	<5.0	<5.0	<5.0	**1,800**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**82**	**170 J**	<5.0	**9.1**
SAIA-CPT10	Lower Gaspur	03/21/2013	N	100	<0.50	<0.50	<0.50	**0.88**	**0.14 J**	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**68**	**0.19 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**7.6**	**13 J**	<0.50	<0.50
SAIA-CPT10	Exposition Aquifer	03/21/2013	N	122	<0.50	<0.50	<0.50	**0.86**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	**0.10 J**	<0.50	**2.3**	<0.50	<0.50	<0.50	**0.49 J**	<0.50	<0.50	**9.9**	<0.50	<0.50	**15**	<0.50	<0.50
SAIA-CPT11	Perched Aquifer	03/20/2013	N	42	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
SAIA-CPT11	Shallow Gaspur	03/20/2013	N	64	<4.0	<4.0	<4.0	**0.72 J**	<4.0	<4.0	<4.0	**9.4 J**	<4.00	<4.0	<4.0	<4.0	<4.0	**390**	<4.0	<4.0	**0.49 J**	<4.0	<4.0	<4.0	**9.4**	<4.0	**2.3 J**	**120**	**62**	**1.5**
SAIA-CPT11	Intermediate Gaspur	03/20/2013	N	84	**4.1 J**	<20	<20	<20	<20	<20	<20	<200	<200	<20	<20	<20	<20	**1,800**	<20	<20	<20	<20	<20	<20	<20	<20	**86**	**140**	<20	**3.7**
SAIA-CPT11	Lower Gaspur	03/20/2013	N	104	**0.38 J**	<0.50	<0.50	**1.4**	**0.22 J**	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**160**	**0.12 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**13**	**2.8**	<0.50	**1.6**
SAIA-CPT11	Lower Gaspur	03/20/2013	FD	104	**0.40 J**	<1.0	<1.0	**1.5**	**0.27 J**	<1.0	<1.0	<10	<10	<1.0	<1.0	<1.0	<1.0	**160**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**14**	**2.9**	<1.0	**1.1**
SAIA-CPT11	Exposition Aquifer	03/20/2013	N	129	<0.50	<0.50	<0.50	**0.11 J**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**0.47 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.66**	<0.50	<0.50
SAIA-CPT12	Perched Aquifer	03/19/2013	N	41	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.083 J**	<0.50	<0.50
SAIA-CPT12	Shallow Gaspur	03/19/2013	N	65	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.29 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.48 J**
SAIA-CPT12	Intermediate Gaspur	03/19/2013	N	80	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<200	<200	<2.0	<2.0	<2.0	<2.0	**93**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**7.5**	**44**	<2.0	<0.50
SAIA-CPT12	Lower Gaspur	03/19/2013	N	98	<0.50	<0.50	<0.50	**0.57**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**50**	**0.07 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**5.9**	**1.4**	<0.50	<0.50
SAIA-CPT12	Exposition Aquifer	03/19/2013	N	120	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
SAIA-CPT13	Perched Aquifer	03/15/2013	N	42	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	**10**	<0.50	<0.50	<0.50	<0.50	**1.3**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.18 J**	**0.15 J**	<0.50	<0.50
SAIA-CPT13	Shallow Gaspur	03/15/2013	N	68	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	**3.2 J**	<0.50	<0.50	<0.50	<0.50	**2.7**	<0.50	<0.50	<0.50	**0.24 J**	<0.50	<0.50	<0.50	<0.50	**0.48 J**	**0.94**	<0.50	<0.50
SAIA-CPT13	Intermediate Gaspur	03/15/2013	N	82	<0.50	<0.50	<0.50	**0.084 J**	<0.50	<0.50	<0.50	<5.0	**3.6 J**	<0.50	<0.50	<0.50	<0.50	**4.4**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.69**	**3.3**	<0.50	<0.50
SAIA-CPT13	Lower Gaspur	03/15/2013	N	98	<0.50	<0.50	<0.50	**0.36 J**	<0.50	<0.50	<0.50	<5.0	**4.6 J**	<0.50	<0.50	<0.50	<0.50	**9.5**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**2.4**	**6.0**	<0.50	<0.50
SAIA-CPT13	Exposition Aquifer	03/15/2013	N	121	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	**21**	<0.50	<0.50	<0.50	<0.50	**0.091 J**	<0.50	<0.50	<0.50	**0.42 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
SAIA-CPT14	Shallow Gaspur	07/23/2015	N	60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.3 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
SAIA-CPT14	Intermediate Gaspur	07/23/2015	N	75	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**130**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**7.1**	**2.7**	<0.50	<0.50
SAIA-CPT14	Intermediate Gaspur	07/23/2015	FD	75	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**140**	<0.50	<0.50	<0.50	<0.50	**0.26 J**	<0.50	<0.50	<0.50	**8.4**	**3.1**	<0.50	**0.37 J**
SAIA-CPT14	Lower Gaspur	07/23/2015	N	100	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	**440**	<25	<25	<25	<25	<25	<25	<25	<25	**36**	<25	<25	<0.50
SAIA-CPT14	Exposition Aquifer	07/23/2015	N	130	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.00	<5.00	<5.0	<5.0	<5.0	<5.0	**770**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**33**	<5.0	<5.0	**0.27 J**
SAIA-CPT15	Perched Aquifer	07/29/2015	N	45	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<6.2	<0.50	<0.50	<0.50	<0.50	**0.65**	<0.50	<0.50	<0.50	<0.50	**0.53**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
SAIA-CPT15	Shallow Gaspur	07/28/2015	N	60	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
SAIA-CPT15	Intermediate Gaspur	07/28/2015	N	75	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**180**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**19**	**5.0**	<0.50	<0.50
SAIA-CPT15	Lower Gaspur	07/28/2015	N	90	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.00	<2.00	<2.0	<2.0	<2.0	<2.0	**250**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**25**	**2.4**	<2.0	<0.50
SAIA-CPT15	Lower Gaspur	07/28/2015	FD	90	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	**270**	<25	<25	<25	<25	<25	<25	<25	<25	**24**	**2.2 J**	<25	<0.50
SAIA-CPT15	Lower Gapsur	07/28/2015	N	105	<0.50	<0.50	<0.50	**0.40 J**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**120**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**11**	**0.87**	<0.50	<0.50
SAIA-CPT15	Exposition Aquifer	07/28/2015	N	130	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<7.8	<0.50	<0.50	<0.50	<0.50	**150**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**3.4**	**4.1**	<0.50	<0.50
SAIA-CPT16	Perched Aquifer	07/30/2015	N	40	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**0.56**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
SAIA-CPT16	Shallow Gaspur	07/29/2015	N	55	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.31 J**
SAIA-CPT16	Intermediate Gaspur	07/29/2015	N	70	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**9.8**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**2.0**	**1.4**	<0.50	<0.50
SAIA-CPT16	Intermediate Gaspur	07/29/2015	N	85	<0.50	<0.50	<0.50	**0.23 J**	<0.50	<0.50	<0.50	<5.0	<11	<0.50	<0.50	<0.50	<0.50	**72**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**16**	**7.8**	<0.50	<0.50
SAIA-CPT16	Lower Gaspur	07/29/2015	N	105	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**120**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**14**	**0.94**	<0.50	<0.50
SAIA-CPT16	Exposition Aquifer	07/29/2015	N	125	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0.5	<0.50	<0.50	<0.50	<0.50	**6.4**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.4 J**	**1.2**	<0.50	<0.50
SAIA-CPT17	Perched Aquifer	07/31/2015	N	48	**3.0**	**3.5**	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**2.0**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.39 J**	**0.46 J**	<0.50	**0.68**
SAIA-CPT17	Shallow Gaspur	07/30/2015	N	61	**7.7**	**4.9**	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**6.9**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.57**	**0.59**	<0.50	**14**
SAIA-CPT17	Intermediate Gaspur	07/30/2015	N	74	**1.3**	**3.4**	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**37**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**5.1**	**13**	<0.50	**2.1**
SAIA-CPT17	Intermediate Gaspur	07/30/2015	FD	75	**1.4**	**3.6**	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**40**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**5.6**	**14**	<0.50	**1.4**
SAIA-CPT17	Lower gaspur	07/30/2015	N	92	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**11**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.2**	**2.5**	<0.50	<0.50
SAIA-CPT17	Lower Gaspur	07/30/2015	N	105	<0.50	<0.50	<0.50	**0.30 J**	<0.50	<0.50	<0.50	<5.0	**7.6**	<0.50	<0.50	<0.50	<0.50	**29**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**4.7**	**2.0**	<0.50	<0.50
SAIA-CPT17	Exposition Aquifer	07/30/2015	N	128	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	**0.36 J**	<0.50	<0.50	<0.50	<0.50	**0.36 J**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
SAIA-CPT18	Shallow Gaspur	07/31/2015	N	49	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.27 J**	<0.50	**0.51**
SAIA-CPT18	Shallow Gaspur	07/31/2015	N	68	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**1.5**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.97**	<0.50	<0.50
SAIA-CPT18	Intermediate Gaspur	07/31/2015	N	84	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**8.0**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.61**	**0.61**	<0.50	**0.60**

Table 4-6
VOCs and SVOCs Detected in Groundwater Discrete-Depth Samples from CPT Borings
Southern Avenue Industrial Area Superfund Site
South Gate, Los Angeles County, California

					VOCs (ug/L)																							SVOC (ug/L)
Location ID	**Aquifer**	**Sample Date**	**Sample Type**	**Sample Depth**	**1,1-Dichloroethane**	**1,1-Dichloroethene**	**1,2,3-Trichloropropane**	**1,2-Dichloroethane**	**1,2-Dichloropropane**	**1,3-Dichlorobenzene**	**1,4-Dichlorobenzene**	**2-Butanone (MEK)**	**Acetone**	**Benzene**	**Bromoform**	**Bromomethane**	**Carbon Disulfide**	**cis-1,2-Dichloroethylene**	**Cyclohexane**	**Dibromochloromethane**	**m,p-Xylene**	**Methyl Acetate**	**Methylene Chloride**	**o-Xylene**	**Tetrachloroethene (PCE)**	**Toluene**	**trans-1,2-Dichloroethene**	**Trichloroethene (TCE)**	**Vinyl Chloride**	**1,4-Dioxane (p-Dioxane)**
SAIA-CPT18	Lower Gaspur	07/31/2015	N	102	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**11**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.4**	**0.64**	<0.50	<0.50
SAIA-CPT18	Exposition Aquifer	07/31/2015	N	125	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**1.1**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.53**	<0.50	**1.1**
SAIA-CPT19	Shallow Gaspur	07/27/2015	N	48	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.6**
SAIA-CPT19	Intermediate Gaspur	07/24/2015	N	70	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**20**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**6.7**	**1.2**	<0.50	<0.50
SAIA-CPT19	Lower Gaspur	07/24/2015	N	90	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**46**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**11**	**0.52**	<0.50	<0.50
SAIA-CPT19	Lower Gapsur	07/24/2015	N	104	<0.50	<0.50	<0.50	**0.26 J**	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**44**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**13**	**1.1**	<0.50	<0.50
SAIA-CPT19	Lower Gaspur/ Exposition	07/24/2015	N	118	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**46**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**3.6**	**33**	<0.50	<0.50
SAIA-CPT19	Exposition Aquifer	07/24/2015	N	132	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	**530**	<25	<25	<25	<25	<3.2	<25	<25	<25	**26**	**8.0**	<25	**0.87**
SAIA-CPT20	Shallow Gaspur	07/28/2015	N	50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.35 J**
SAIA-CPT20	Shallow Gaspur	07/27/2015	N	69	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**9.5**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**2.0**	**1.5**	<0.50	**0.62**
SAIA-CPT20	Intermediate Gaspur	07/27/2015	N	88	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**20**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**3.5**	**2.0**	<0.50	**0.35 J**
SAIA-CPT20	Intermediate Gaspur	07/27/2015	FD	89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<5.0	<0.50	<0.50	<0.50	<0.50	**18**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**3.6**	**2.0**	<0.50	**0.42 J**
SAIA-CPT20	Lower Gaspur	07/27/2015	N	105	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<15	<0.50	<0.50	<0.50	<0.50	**7.5**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**1.2**	**0.55**	<0.50	<0.50
SAIA-CPT20	Exposition Aquifer	07/27/2015	N	132	<0.50	<0.50	<0.50	**0.35 J**	<0.50	<0.50	<0.50	<5.0	<7.5	<0.50	<0.50	<0.50	<0.50	**45**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**7.6**	**0.42 J**	<0.50	--
Screening Criteria																														
MCL or NL					5	6	0.0002 [1]	0.5	5	NA	75	NA	NA	1	80	NA	NA	6	NA	80	1750	NA	5	1750	5	150	10	5	0.5	1 [2]
RSL for Tap Water, or DTSC-modified RSL					2.8	280	0.0008	NA	NA	NA	NA	5600	14000	0.15 [1]	3.3	7.5	810	NA	13000	0.87	NA	20000	0.93 [1]	190	0.082 [1]	1100	360	0.49	0.019	0.46

Notes:

[1] = Based on California-modified RSLs (DTSC, 2018 - Table 2 Screening Levels for Tapwater, HERO HHRA Note Number 3, DTSC-modified Screening Levels [DTSC-SLs] [released June 2018]).
[2] = Based on Notification Level (California SWRCB Division of Drinking Water, updated 2 February 2018).
[3] = Secondary MCL (not used for determining a screening-level exceedance)
Detected results shown in bold
ID = Identification number
FD = Field duplicate sample results
J = Concentration is estimated because it falls between the method detection limit and the laboratory reporting limit.
MCL = Maximum contaminant level
N = Normal sample results
NA = Not applicable
NL = Notification Level (California)
R = The sample results are rejected due to serious deficiencies in meeting QC criteria.

Table 5-1
Summary of Physical and Chemical Properties of COCs at 25°C
Southern Avenue Industrial Area Superfund Site
South Gate, California

COC	Molecular Weight (g/mol)	Vapor Pressure (mm Hg)	Water Solubility (mg/L)	Henry's Law Constant (atm-m^3/mol)	Boiling Point (°C)	Density (g/cm^3)	Viscosity (cP)	Octanol/Water Partition Coefficient (log K_{ow})	Organic Carbon Partitioning Coefficient (K_{oc}; mL/g)
Benzene	78.12	94.8 @ 25°C	1,780	$5.56*10^{-3}$	80.1 @ 760 mmHg	0.879	0.601	2.13	58.9
cis -DCE	96.95	200 @ 25°C	3,500	$4.08*10^{-3}$	60.2 @ 760 mmHg	1.28	0.48	1.86	35.5
1,4-Dioxane	88.1	38.1 @ 25°C	miscible	$4.80*10^{-6}$	101.1 @ 760 mmHg	1.033	1.37	-0.27	29
PCE	165.83	18.5 @ 25°C	150	$1.77*10^{-2}$	121.1 @ 760 mmHg	1.623	0.89	3.4	155
TCE	131.4	74.2 @ 25°C	1,100	$1.17*10^{-2}$	87.2 @ 760 mmHg	1.46	0.57	2.53	86

Notes:

COC = contaminant of concern

g/mol = grams per mole

mm Hg = millimeter of mercury

mg/L = milligrams per liter

atm-m^3/mol = atmosphere-cubic meter per mole

°C = degree Celsius

g/cm^3 = grams per cubic centimeter

cP =centipoise

mL/g = milliliters per gram

cis -DCE = cis-1,2-dichloroethene

PCE = tetrachloroethene

TCE = trichloroethene

Table 5-2
Dissolved Oxygen and Oxygen Reduction Potential at Site Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location	Mar-14		Aug-14		Jul-16		Sep-16	
	D.O. (mg/L)	ORP (mv)	D.O. (mg/L)	ORP (mv)	D.O. (mg/L)	ORP (mv)	D.O. (mg/L)	ORP (mv)
SAIA-MW01A	0.69	-295.6	0.31	141.9	1.66	-81.2	NA	NA
SAIA-MW01B	0.48	-382.6	0.54	68.6	1.89	-120.3	NA	NA
SAIA-MW01C	0.58	-359.1	0.33	30.1	1.72	-106.4	NA	NA
SAIA-MW02A	1.81	-23.5	0.19	-82.5	1.55	-130.2	NA	NA
SAIA-MW02B	0.61	-13.5	0.18	-106.7	1.74	-131.9	NA	NA
SAIA-MW02C	0.91	-19.7	0.32	-98.5	1.87	-116.0	NA	NA
SAIA-MW03A	0.67	-71.5	0.32	-78.2	1.41	-115.1	NA	NA
SAIA-MW03B	0.66	-88.5	0.48	-74.1	1.43	-114.5	NA	NA
SAIA-MW03C	0.78	-87.3	0.77	-104.8	1.87	-145.2	NA	NA
SAIA-MW04A	0.80	-28.6	0.35	-103.4	1.66	-122.8	NA	NA
SAIA-MW04B	0.62	-16.9	0.28	-100.3	1.38	-105.3	NA	NA
SAIA-MW04C	0.72	-17.9	0.38	-123.8	1.51	-107.0	NA	NA
SAIA-MW05A	0.57	-291.4	0.10	-116.5	1.61	-96.3	NA	NA
SAIA-MW05B	0.60	-299.4	0.18	-128.4	1.49	-121.3	NA	NA
SAIA-MW05C	0.84	-267.1	0.15	-119.7	1.66	-102.5	NA	NA
SAIA-MW06A	0.66	-111.0	0.07	-136.6	1.47	-131.5	NA	NA
SAIA-MW06B	0.93	-223.6	0.09	-146.7	1.18	-112.6	NA	NA
SAIA-MW06C	1.70	-159.3	0.12	-122.6	0.99	115.7	NA	NA
SAIA-MW07	0.35	-136.9	0.15	-119.7	2.08	-139.7	NA	NA
SAIA-MW08	1.62	-102.9	0.42	96.5	1.64	-70.9	NA	NA
SAIA-MW09A	NA	NA	NA	NA	0.16	-110.5	0.36	-84.1
SAIA-MW09B	NA	NA	NA	NA	0.31	-111.2	0.35	-128.4
SAIA-MW09C	NA	NA	NA	NA	0.09	-93.5	0.34	-100.4
SAIA-MW10	NA	NA	NA	NA	0.19	-35.3	0.43	-57.8
SAIA-MW11A	NA	NA	NA	NA	0.68	-116.9	0.40	-108.9
SAIA-MW11B	NA	NA	NA	NA	0.30	-136.9	0.37	-108.6
SAIA-MW11C	NA	NA	NA	NA	0.45	-192.7	0.45	-87.7
SAIA-MW12A	NA	NA	NA	NA	1.28	-196.3	0.28	-111.4
SAIA-MW12B	NA	NA	NA	NA	1.14	-126.0	0.33	-171.7
SAIA-MW12C	NA	NA	NA	NA	1.63	-116.8	0.25	-99.4
SAIA-MW13	NA	NA	NA	NA	1.51	-5.3	0.33	-14.6
MW-32	NA	NA	NA	NA	1.93	-94.9	NA	NA
MW-34	0.85	71.5	NA	NA	2.06	47.6	NA	NA
MW-35	0.63	-50.1	NA	NA	1.84	-113.6	NA	NA
MW-42	0.79	-278.3	NA	NA	1.70	-84.3	NA	NA
MW-43	0.84	-293.1	NA	NA	2.02	-200.9	NA	NA
MW-44	0.89	-314.6	NA	NA	0.98	-115.9	NA	NA
MW-45	1.01	-260.6	NA	NA	1.67	-117.7	NA	NA
MW-46	0.90	-64.7	NA	NA	1.85	5.6	NA	NA
MW-47	0.71	-101.7	NA	NA	1.72	-108.4	NA	NA
MW-48	0.80	-82.4	NA	NA	1.67	-82.6	NA	NA
MW-49	1.17	-220.1	NA	NA	0.14	-119.9	NA	NA
MW-52	0.84	-32.5	NA	NA	1.53	-85.5	NA	NA
MW-56	0.73	97.5	NA	NA	0.82	-123.9	NA	NA

Notes:
mg/L = milligram per liter
mv = millivolts
NA = not applicable

Table 6-1
Summary of Detected Chemicals
Southern Avenue Industrial Area Superfund Site
South Gate, California

Chemical	Media in which detected				
	Soil Gas (5 to 35 ft bgs)	Indoor/Crawlspace Air	Ambient Air	Soil (0 to 10 ft bgs)	Groundwater
1,1,1-Trichloroethane	❍	❍	❍	❍	-
1,1,2,2-Tetrachloroethane	❍	-	-	❍	-
1,1,2-Trichloro-1,2,2-trifluoroethane	❍	-	-	❍	-
1,1,2-Trichloroethane	❍	-	-	❍	❍
1,1-Dichloroethane	❍	-	-	❍	❍
1,1-Dichloroethene	❍	-	-	-	❍
1,1-Difluoroethane	❍	-	-	-	-
1,2,3-Trichlorobenzene	-	-	-	❍	❍
1,2,4-Trichlorobenzene	❍	-	-	❍	❍
1,2,4-Trimethylbenzene	-	❍	❍	-	-
1,2-Dibromo-3-chloropropane	-	-	-	❍	-
1,2-Dibromoethane (EDB)	-	-	-	❍	-
1,2-Dichloroethane	❍	❍	❍	❍	❍
1,2-Dichloropropane	-	-	-	-	❍
1,3,5-Trimethylbenzene	❍	❍	❍	-	-
1,3-Dichlorobenzene	-	-	-	-	❍
1,4-Dichlorobenzene	❍	-	-	-	❍
1,4-Dioxane (p-Dioxane)	❍	-	-	-	❍
1-Pentene	-	-	-	-	❍
2-Methylnaphthalene	-	-	-	❍	-
4-Methyl-2-pentanone (MIBK)	-	-	-	-	❍
Acenaphthene	-	-	-	❍	-
Acetaldehyde	❍	-	-	-	-
Acetone	-	-	-	❍	❍
Alkalinity, Bicarbonate (as CaCO3)	-	-	-	-	❍
Alkalinity, Carbonate (as CaCO3)	-	-	-	-	❍
Alkalinity, Total (as CaCO3)	-	-	-	-	❍
Aluminum	-	-	-	❍	❍
Anthracene	-	-	-	❍	-
Antimony	-	-	-	❍	-
Arsenic	-	-	-	❍	❍
Barium	-	-	-	❍	❍
Benzene	❍	❍	❍	❍	❍
Benzo(a)anthracene	-	-	-	❍	-
Benzo(a)pyrene	-	-	-	❍	-

Table 6-1
Summary of Detected Chemicals
Southern Avenue Industrial Area Superfund Site
South Gate, California

Chemical	Media in which detected				
	Soil Gas (5 to 35 ft bgs)	Indoor/Crawlspace Air	Ambient Air	Soil (0 to 10 ft bgs)	Groundwater
Benzo(b)fluoranthene	-	-	-	❍	-
Benzo(g,h,i)perylene	-	-	-	❍	-
Benzo(k)fluoranthene	-	-	-	❍	-
Beryllium	-	-	-	❍	❍
Biphenyl (Diphenyl)	-	-	-	❍	-
bis(2-Ethylhexyl) Phthalate	-	-	-	❍	❍
Bromodichloromethane	-	-	-	❍	-
Bromoform	-	-	-	❍	-
Bromomethane	-	-	-	-	❍
Butane	❍	-	-	-	-
Butylcyclooctane	❍	-	-	-	-
Cadmium	-	-	-	❍	❍
Calcium	-	-	-	❍	❍
Carbazole	-	-	-	❍	❍
Carbon Disulfide	-	-	-	❍	❍
Carbon Tetrachloride	-	-	-	❍	-
Chloride	-	-	-	-	❍
Chlorobenzene	❍	-	-	-	❍
Chlorodifluoromethane	❍	-	-	-	-
Chloroethane	❍	-	-	-	❍
Chloroform	❍	-	-	❍	❍
Chloromethane	❍	-	-	-	❍
Chromium	-	-	-	❍	❍
Chrysene	-	-	-	❍	-
cis-1,2-Dichloroethylene	❍	-	-	❍	❍
cis-1,3-Dichloropropene	-	-	-	❍	-
Cobalt	-	-	-	❍	❍
Copper	-	-	-	❍	❍
Cyclohexane	-	-	-	❍	❍
Decahydro Naphthalene	❍	-	-	-	-
Decahydromethyl Naphthalene	❍	-	-	-	-
Dibenz(a,h)anthracene	-	-	-	❍	-
Dibenzofuran	-	-	-	❍	-
Dichlorodifluoromethane	❍	-	-	-	-
Diethyl Phthalate	-	-	-	❍	-

Table 6-1
Summary of Detected Chemicals
Southern Avenue Industrial Area Superfund Site
South Gate, California

Chemical	Media in which detected				
	Soil Gas (5 to 35 ft bgs)	Indoor/Crawlspace Air	Ambient Air	Soil (0 to 10 ft bgs)	Groundwater
Diethylmethylcyclohexane	❍	-	-	-	-
Dimethyl Octane	❍	-	-	-	-
Dimethyl Phthalate	-	-	-	❍	-
Dimethylpentane	❍	-	-	-	-
Di-n-Butyl Phthalate	-	-	-	❍	-
Ethylbenzene	❍	❍	❍	❍	❍
Fluoranthene	-	-	-	❍	-
Fluorene	-	-	-	❍	-
Indeno(1,2,3-c,d)pyrene	-	-	-	❍	-
Iron	-	-	-	❍	❍
Isopropylbenzene (Cumene)	❍	-	-	❍	❍
Isopropylcyclobutane	❍	-	-	-	-
Lead	-	-	-	❍	❍
m,p-Xylene	❍	❍	❍	❍	❍
Magnesium	-	-	-	❍	❍
Manganese	-	-	-	❍	❍
Mercury	-	-	-	❍	-
Methyl Acetate	-	-	-	❍	-
Methyl Butane	❍	-	-	-	❍
Methylcyclobutane	-	-	-	-	❍
Methylcyclohexane	-	-	-	❍	❍
Methylene Chloride	❍	-	-	-	❍
Naphthalene	❍	❍	-	❍	-
n-Butylbenzene	❍	-	-	-	-
Nickel	-	-	-	❍	❍
o-Xylene	❍	❍	❍	❍	❍
PCB-1248 (Arochlor 1248)	-	-	-	❍	-
PCB-1254 (Arochlor 1254)	-	-	-	❍	-
PCB-1260 (Arochlor 1260)	-	-	-	❍	-
p-Cymene (p-Isopropyltoluene)	❍	-	-	-	-
Phenanthrene	-	-	-	❍	-
Phenol	-	-	-	❍	-
Potassium	-	-	-	❍	❍
Pyrene	-	-	-	❍	-
sec-Butylbenzene	❍	-	-	-	-

Table 6-1
Summary of Detected Chemicals
Southern Avenue Industrial Area Superfund Site
South Gate, California

Chemical	Media in which detected				
	Soil Gas (5 to 35 ft bgs)	Indoor/Crawlspace Air	Ambient Air	Soil (0 to 10 ft bgs)	Groundwater
Selenium	-	-	-	❍	❍
Silver	-	-	-	❍	❍
Sodium	-	-	-	❍	❍
Styrene	❍	-	-	-	❍
Sulfate (as SO4)	-	-	-	-	❍
tert-Butyl Ethyl Ether	-	-	-	-	❍
tert-Butyl Methyl Ether (MTBE)	-	-	-	❍	❍
tert-Butylbenzene	❍	-	-	-	-
Tetrachloroethene (PCE)	❍	❍	❍	❍	❍
Thallium	-	-	-	❍	❍
Toluene	❍	❍	❍	❍	❍
Total Dissolved Solids	-	-	-	-	❍
Total Organic Carbon	-	-	-	-	❍
trans-1,2-Dichloroethene	❍	-	-	-	❍
trans-1,3-Dichloropropene	-	-	-	❍	-
Trichloroethene (TCE)	❍	❍	-	❍	❍
Trichlorofluoromethane	-	-	-	❍	-
Trimethyl Cyclohexane	❍	-	-	-	-
Trimethyl Cyclopentane Isomers	❍	-	-	-	-
Vanadium	-	-	-	❍	❍
Vinyl Chloride	❍	-	-	❍	❍
Zinc	-	-	-	❍	❍

Notes:
ft bgs = feet below ground surface
❍ = analyte detected in media shown

Table 6-2
Chemicals of Potential Concern
Southern Avenue Industrial Area Superfund Site
South Gate, California

Chemical	Media for which chemical is a COPC				
	Soil Gas (5 to 35 ft bgs)	Indoor/Crawlspace Air	Ambient Air	Soil (0 to 10 ft bgs)	Groundwater
1,1,1-Trichloroethane	❍	❍	❍	❍	-
1,1,2,2-Tetrachloroethane	❍	-	-	❍	-
1,1,2-Trichloro-1,2,2-trifluoroethane	❍	-	-	❍	-
1,1,2-Trichloroethane	❍	-	-	❍	❍
1,1-Dichloroethane	❍	-	-	❍	❍
1,1-Dichloroethene	❍	-	-	-	❍
1,1-Difluoroethane	❍	-	-	-	-
1,2,3-Trichlorobenzene	-	-	-	❍	❍
1,2,4-Trichlorobenzene	❍	-	-	❍	❍
1,2,4-Trimethylbenzene	-	❍	❍	-	-
1,2-Dibromo-3-chloropropane	-	-	-	❍	-
1,2-Dibromoethane (EDB)	-	-	-	❍	-
1,2-Dichloroethane	❍	❍	❍	❍	❍
1,2-Dichloropropane	-	-	-	-	❍
1,3,5-Trimethylbenzene	❍	❍	❍	-	-
1,3-Dichlorobenzene	-	-	-	-	❍
1,4-Dichlorobenzene	❍	-	-	-	❍
1,4-Dioxane (p-Dioxane)	❍	-	-	-	❍
1-Pentene	-	-	-	-	❍
2-Methylnaphthalene	-	-	-	❍	-
4-Methyl-2-pentanone (MIBK)	-	-	-	-	❍
Acenaphthene	-	-	-	❍	-
Acetaldehyde	❍	-	-	-	-
Acetone	-	-	-	❍	❍
Anthracene	-	-	-	❍	-
Antimony	-	-	-	❍	-
Arsenic	-	-	-	❍	-
Benzene	❍	❍	❍	❍	❍
Benzo(a)anthracene	-	-	-	❍	-
Benzo(a)pyrene	-	-	-	❍	-
Benzo(b)fluoranthene	-	-	-	❍	-
Benzo(g,h,i)perylene	-	-	-	❍	-
Benzo(k)fluoranthene	-	-	-	❍	-
Biphenyl (Diphenyl)	-	-	-	❍	-

Table 6-2
Chemicals of Potential Concern
Southern Avenue Industrial Area Superfund Site
South Gate, California

Chemical	Media for which chemical is a COPC				
	Soil Gas (5 to 35 ft bgs)	Indoor/Crawlspace Air	Ambient Air	Soil (0 to 10 ft bgs)	Groundwater
bis(2-Ethylhexyl) Phthalate	-	-	-	❍	❍
Bromodichloromethane	-	-	-	❍	-
Bromoform	-	-	-	❍	-
Bromomethane	-	-	-	-	❍
Butane	❍	-	-	-	-
Butylcyclooctane	❍	-	-	-	-
Cadmium	-	-	-	❍	-
Carbazole	-	-	-	❍	❍
Carbon Disulfide	-	-	-	❍	❍
Carbon Tetrachloride	-	-	-	❍	-
Chlorobenzene	❍	-	-	-	❍
Chlorodifluoromethane	❍	-	-	-	-
Chloroethane	❍	-	-	-	❍
Chloroform	❍	-	-	❍	❍
Chloromethane	❍	-	-	-	❍
Chrysene	-	-	-	❍	-
cis-1,2-Dichloroethylene	❍	-	-	❍	❍
cis-1,3-Dichloropropene	-	-	-	❍	-
Cobalt	-	-	-	❍	-
Copper	-	-	-	❍	-
Cyclohexane	-	-	-	❍	❍
Decahydro Naphthalene	❍	-	-	-	-
Decahydromethyl Naphthalene	❍	-	-	-	-
Dibenz(a,h)anthracene	-	-	-	❍	-
Dibenzofuran	-	-	-	❍	-
Dichlorodifluoromethane	❍	-	-	-	-
Diethyl Phthalate	-	-	-	❍	-
Diethylmethylcyclohexane	❍	-	-	-	-
Dimethyl Octane	❍	-	-	-	-
Dimethyl Phthalate	-	-	-	❍	-
Dimethylpentane	❍	-	-	-	-
Di-n-Butyl Phthalate	-	-	-	❍	-
Ethylbenzene	❍	❍	❍	❍	❍
Fluoranthene	-	-	-	❍	-

Table 6-2
Chemicals of Potential Concern
Southern Avenue Industrial Area Superfund Site
South Gate, California

Chemical	Media for which chemical is a COPC				
	Soil Gas (5 to 35 ft bgs)	Indoor/Crawlspace Air	Ambient Air	Soil (0 to 10 ft bgs)	Groundwater
Fluorene	-	-	-	❍	-
Indeno(1,2,3-c,d)pyrene	-	-	-	❍	-
Isopropylbenzene (Cumene)	❍	-	-	❍	❍
Isopropylcyclobutane	❍	-	-	-	-
Lead	-	-	-	❍	-
m,p-Xylene	❍	❍	❍	❍	❍
Manganese	-	-	-	❍	-
Methyl Acetate	-	-	-	❍	-
Methyl Butane	❍	-	-	-	❍
Methylcyclobutane	-	-	-	-	❍
Methylcyclohexane	-	-	-	❍	❍
Methylene Chloride	❍	-	-	-	❍
Naphthalene	❍	❍	-	❍	-
n-Butylbenzene	❍	-	-	-	-
Nickel	-	-	-	❍	-
o-Xylene	❍	❍	❍	❍	❍
PCB-1248 (Arochlor 1248)	-	-	-	❍	-
PCB-1254 (Arochlor 1254)	-	-	-	❍	-
PCB-1260 (Arochlor 1260)	-	-	-	❍	-
p-Cymene (p-Isopropyltoluene)	❍	-	-	-	-
Phenanthrene	-	-	-	❍	-
Phenol	-	-	-	❍	-
Pyrene	-	-	-	❍	-
sec-Butylbenzene	❍	-	-	-	-
Styrene	❍	-	-	-	❍
tert-Butyl Ethyl Ether	-	-	-	-	❍
tert-Butyl Methyl Ether (MTBE)	-	-	-	❍	❍
tert-Butylbenzene	❍	-	-	-	-
Tetrachloroethene (PCE)	❍	❍	❍	❍	❍
Thallium	-	-	-	❍	-
Toluene	❍	❍	❍	❍	❍
trans-1,2-Dichloroethene	❍	-	-	-	❍
trans-1,3-Dichloropropene	-	-	-	❍	-

Table 6-2
Chemicals of Potential Concern
Southern Avenue Industrial Area Superfund Site
South Gate, California

Chemical	Media for which chemical is a COPC				
	Soil Gas (5 to 35 ft bgs)	Indoor/Crawlspace Air	Ambient Air	Soil (0 to 10 ft bgs)	Groundwater
Trichloroethene (TCE)	❍	❍	-	❍	❍
Trichlorofluoromethane	-	-	-	❍	-
Trimethyl Cyclohexane	❍	-	-	-	-
Trimethyl Cyclopentane Isomers	❍	-	-	-	-
Vinyl Chloride	❍	-	-	❍	❍

Notes:
ft bgs = feet below ground surface
❍ = COPC

Table 6-3a
Air Risk-Based Concentrations, Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Chemical of Potential Concern (COPC)	CAS No.	Commercial/Industrial Risk-Based Concentrations (in mg/m^3)					
		USEPA RSL		DTSC HERO Note 3 SL		Air RBC*	
		Cancer	Noncancer	Cancer	Noncancer	Cancer	Noncancer
1,1,1-Trichloroethane	71-55-6	No value	2.2E+04	No value	4.4E+03	No value	4.4E+03
1,1,2,2-Tetrachloroethane	79-34-5	2.1E-01	No value	2.1E-01	3.5E+02	2.1E-01	3.5E+02
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	No value	2.2E+04	No value	No value	No value	2.2E+04
1,1,2-Trichloroethane	79-00-5	7.7E-01	8.8E-01	No value	No value	7.7E-01	8.8E-01
1,1-Dichloroethane	75-34-3	7.7E+00	No value	7.7E+00	3.5E+03	7.7E+00	3.5E+03
1,1-Dichloroethene	75-35-4	No value	8.8E+02	No value	3.1E+02	No value	3.1E+02
1,1-Difluoroethane	75-37-6	No value	1.8E+05	No value	No value	No value	1.8E+05
1,2,3-Trichlorobenzene	87-61-6	No value	No value	No value	1.4E+01	No value	1.4E+01
1,2,4-Trichlorobenzene	120-82-1	No value	8.8E+00	1.7E+00	8.8E+00	1.7E+00	8.8E+00
1,2,4-Trimethylbenzene	95-63-6	No value	2.6E+02	No value	No value	No value	2.6E+02
1,2-Dichloroethane	107-06-2	4.7E-01	3.1E+01	No value	No value	4.7E-01	3.1E+01
1,2-Dichloropropane	78-87-5	3.3E+00	1.8E+01	1.2E+00	1.8E+01	1.2E+00	1.8E+01
1,3,5-Trimethylbenzene	108-67-8	No value	2.6E+02	No value	No value	No value	2.6E+02
1,3-Dichlorobenzene	-	No value	No value	No value	No value	No value	No value
1,4-Dichlorobenzene	106-46-7	1.1E+00	3.5E+03	No value	No value	1.1E+00	3.5E+03
1,4-Dioxane (p-Dioxane)	123-91-1	2.5E+00	1.3E+02	1.6E+00	1.3E+02	1.6E+00	1.3E+02
1-Pentene	-	No value	No value	No value	No value	No value	No value
4-Methyl-2-pentanone (MIBK)	108-10-1	No value	1.3E+04	No value	No value	No value	1.3E+04
Acetaldehyde	75-07-0	5.6E+00	3.9E+01	4.5E+00	3.9E+01	4.5E+00	3.9E+01
Acetone	67-64-1	No value	1.4E+05	No value	No value	No value	1.4E+05
Benzene	71-43-2	1.6E+00	1.3E+02	4.2E-01	1.3E+01	4.2E-01	1.3E+01
bis(2-Ethylhexyl) Phthalate	117-81-7	5.1E+00	No value	No value	No value	5.1E+00	No value
Bromomethane	74-83-9	No value	2.2E+01	No value	No value	No value	2.2E+01
Butane	-	No value	No value	No value	No value	No value	No value
Butylcyclooctane	-	No value	No value	No value	No value	No value	No value
Carbazole	-	No value	No value	No value	No value	No value	No value
Carbon Disulfide	75-15-0	No value	3.1E+03	No value	No value	No value	3.1E+03
Chlorobenzene	108-90-7	No value	2.2E+02	No value	No value	No value	2.2E+02
Chlorodifluoromethane	75-45-6	No value	2.2E+05	No value	No value	No value	2.2E+05
Chloroethane	-	No value	No value	No value	No value	No value	No value
Chloroform	67-66-3	5.3E-01	4.3E+02	No value	No value	5.3E-01	4.3E+02
Chloromethane	74-87-3	No value	3.9E+02	No value	No value	No value	3.9E+02
cis-1,2-Dichloroethylene	156-59-2	No value	No value	No value	3.5E+01	No value	3.5E+01
Cyclohexane	110-82-7	No value	2.6E+04	No value	No value	No value	2.6E+04
Decahydro Naphthalene	-	No value	No value	No value	No value	No value	No value
Decahydromethyl Naphthalene	-	No value	No value	No value	No value	No value	No value
Dichlorodifluoromethane	75-71-8	No value	4.4E+02	No value	No value	No value	4.4E+02
Diethylmethylcyclohexane	-	No value	No value	No value	No value	No value	No value
Dimethyl Octane	-	No value	No value	No value	No value	No value	No value
Dimethylpentane	-	No value	No value	No value	No value	No value	No value
Ethylbenzene	100-41-4	4.9E+00	4.4E+03	No value	No value	4.9E+00	4.4E+03
Isopropylbenzene (Cumene)	98-82-8	No value	1.8E+03	No value	No value	No value	1.8E+03
Isopropylcyclobutane	-	No value	No value	No value	No value	No value	No value
m,p-Xylene**	1330-20-7	No value	4.4E+02	No value	No value	No value	4.4E+02
Methyl Butane	-	No value	No value	No value	No value	No value	No value
Methylcyclobutane	-	No value	No value	No value	No value	No value	No value
Methylcyclohexane	-	No value	No value	No value	No value	No value	No value
Methylene Chloride	75-09-2	1.2E+03	2.6E+03	1.2E+01	1.8E+03	1.2E+01	1.8E+03
Naphthalene	91-20-3	3.6E-01	1.3E+01	No value	No value	3.6E-01	1.3E+01
n-Butylbenzene	104-51-8	No value	No value	No value	8.8E+02	No value	8.8E+02
o-Xylene	95-47-6	No value	4.4E+02	No value	No value	No value	4.4E+02
p-Cymene (p-Isopropyltoluene)***	-	No value	No value	No value	No value	No value	No value

Table 6-3a
Air Risk-Based Concentrations, Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Chemical of Potential Concern (COPC)	CAS No.	Commercial/Industrial Risk-Based Concentrations (in mg/m^3)					
		USEPA RSL		DTSC HERO Note 3 SL		Air RBC*	
		Cancer	Noncancer	Cancer	Noncancer	Cancer	Noncancer
sec-Butylbenzene	135-98-8	No value	No value	No value	1.8E+03	No value	1.8E+03
Styrene	100-42-5	No value	4.4E+03	No value	3.9E+03	No value	3.9E+03
tert-Butyl Ethyl Ether	-	No value	No value	No value	No value	No value	No value
tert-Butyl Methyl Ether (MTBE)	1634-04-4	4.7E+01	1.3E+04	No value	No value	4.7E+01	1.3E+04
tert-Butylbenzene	98-06-6	No value	No value	No value	1.8E+03	No value	1.8E+03
Tetrachloroethene (PCE)	127-18-4	4.7E+01	1.8E+02	2.0E+00	1.8E+02	2.0E+00	1.8E+02
Toluene	108-88-3	No value	2.2E+04	No value	1.3E+03	No value	1.3E+03
trans-1,2-Dichloroethene	156-60-5	No value	No value	No value	3.5E+02	No value	3.5E+02
Trichloroethene (TCE)	79-01-6	3.0E+00	8.8E+00	No value	No value	3.0E+00	8.8E+00
Trimethyl Cyclohexane	-	No value	No value	No value	No value	No value	No value
Trimethyl Cyclopentane Isomers	-	No value	No value	No value	No value	No value	No value
Vinyl Chloride	75-01-4	2.8E+00	4.4E+02	1.6E-01	4.4E+02	1.6E-01	4.4E+02

Notes:

* USEPA RSL used except in those cases where CalEPA DTSC-SL is lower (more stringent).

** Xylenes used as surrogate.

*** Cumene (isopropylbenzene) used as surrogate.

USEPA does not recognize oral to inhalation route extrapolation.
CalEPA value, which is based on route extrapolation, is conservatively used.
Grey highlighting = RBC based upon the CalEPA value

Air RBC = Risk based concentration
CalEPA = California Environmental Protection Agency
DTSC HERO Note 3 SL = Screening level
ug/m^3 = microgram per cubic meter
RBC = Risk based concentration
USEPA RSL = Regional screening level

Table 6-3b
Air Risk-Based Concentrations, Construction Receptor (based on Commercial/Industrial Receptor)
Southern Avenue Industrial Area Superfund Site
South Gate, California

Chemical of Potential Concern (COPC)	CAS No.	Construction Risk-Based Concentrations (in mg/m^3) (see text)					
		based on USEPA RSL		based on DTSC HERO Note 3 SL		Air RBC*	
		Cancer	Noncancer	Cancer	Noncancer	Cancer	Noncancer
1,1,1-Trichloroethane	71-55-6	No value	2.2E+04	No value	4.4E+03	No value	4.4E+03
1,1,2,2-Tetrachloroethane	79-34-5	2.6E+00	No value	2.6E+00	3.5E+02	2.6E+00	3.5E+02
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	No value	2.2E+04	No value	No value	No value	2.2E+04
1,1,2-Trichloroethane	79-00-5	9.6E+00	8.8E-01	No value	No value	9.6E+00	8.8E-01
1,1-Dichloroethane	75-34-3	9.6E+01	No value	9.6E+01	3.5E+03	9.6E+01	3.5E+03
1,1-Dichloroethene	75-35-4	No value	8.8E+02	No value	3.1E+02	No value	3.1E+02
1,1-Difluoroethane	75-37-6	No value	1.8E+05	No value	No value	No value	1.8E+05
1,2,3-Trichlorobenzene	87-61-6	No value	No value	No value	1.4E+01	No value	1.4E+01
1,2,4-Trichlorobenzene	120-82-1	No value	8.8E+00	2.1E+01	8.8E+00	2.1E+01	8.8E+00
1,2,4-Trimethylbenzene	95-63-6	No value	2.6E+02	No value	No value	No value	2.6E+02
1,2-Dichloroethane	107-06-2	5.9E+00	3.1E+01	No value	No value	5.9E+00	3.1E+01
1,2-Dichloropropane	78-87-5	4.1E+01	1.8E+01	1.5E+01	1.8E+01	1.5E+01	1.8E+01
1,3,5-Trimethylbenzene	108-67-8	No value	2.6E+02	No value	No value	No value	2.6E+02
1,3-Dichlorobenzene	-	No value	No value	No value	No value	No value	No value
1,4-Dichlorobenzene	106-46-7	1.4E+01	3.5E+03	No value	No value	1.4E+01	3.5E+03
1,4-Dioxane (p-Dioxane)	123-91-1	3.1E+01	1.3E+02	2.0E+01	1.3E+02	2.0E+01	1.3E+02
1-Pentene	-	No value	No value	No value	No value	No value	No value
4-Methyl-2-pentanone (MIBK)	108-10-1	No value	1.3E+04	No value	No value	No value	1.3E+04
Acetaldehyde	75-07-0	7.0E+01	3.9E+01	5.7E+01	3.9E+01	5.7E+01	3.9E+01
Acetone	67-64-1	No value	1.4E+05	No value	No value	No value	1.4E+05
Benzene	71-43-2	2.0E+01	1.3E+02	5.3E+00	1.3E+01	5.3E+00	1.3E+01
bis(2-Ethylhexyl) Phthalate	117-81-7	6.4E+01	No value	No value	No value	6.4E+01	No value
Bromomethane	74-83-9	No value	2.2E+01	No value	No value	No value	2.2E+01
Butane	-	No value	No value	No value	No value	No value	No value
Butylcyclooctane	-	No value	No value	No value	No value	No value	No value
Carbazole	-	No value	No value	No value	No value	No value	No value
Carbon Disulfide	75-15-0	No value	3.1E+03	No value	No value	No value	3.1E+03
Chlorobenzene	108-90-7	No value	2.2E+02	No value	No value	No value	2.2E+02
Chlorodifluoromethane	75-45-6	No value	2.2E+05	No value	No value	No value	2.2E+05
Chloroethane	-	No value	No value	No value	No value	No value	No value
Chloroform	67-66-3	6.6E+00	4.3E+02	No value	No value	6.6E+00	4.3E+02
Chloromethane	74-87-3	No value	3.9E+02	No value	No value	No value	3.9E+02
cis-1,2-Dichloroethylene	156-59-2	No value	No value	No value	3.5E+01	No value	3.5E+01
Cyclohexane	110-82-7	No value	2.6E+04	No value	No value	No value	2.6E+04
Decahydro Naphthalene	-	No value	No value	No value	No value	No value	No value
Decahydromethyl Naphthalene	-	No value	No value	No value	No value	No value	No value
Dichlorodifluoromethane	75-71-8	No value	4.4E+02	No value	No value	No value	4.4E+02
Diethylmethylcyclohexane	-	No value	No value	No value	No value	No value	No value
Dimethyl Octane	-	No value	No value	No value	No value	No value	No value
Dimethylpentane	-	No value	No value	No value	No value	No value	No value
Ethylbenzene	100-41-4	6.1E+01	4.4E+03	No value	No value	6.1E+01	4.4E+03
Isopropylbenzene (Cumene)	98-82-8	No value	1.8E+03	No value	No value	No value	1.8E+03
Isopropylcyclobutane	-	No value	No value	No value	No value	No value	No value
m,p-Xylene**	1330-20-7	No value	4.4E+02	No value	No value	No value	4.4E+02
Methyl Butane	-	No value	No value	No value	No value	No value	No value
Methylcyclobutane	-	No value	No value	No value	No value	No value	No value
Methylcyclohexane	-	No value	No value	No value	No value	No value	No value
Methylene Chloride	75-09-2	1.5E+04	2.6E+03	1.5E+02	1.8E+03	1.5E+02	1.8E+03
Naphthalene	91-20-3	4.5E+00	1.3E+01	No value	No value	4.5E+00	1.3E+01
n-Butylbenzene	104-51-8	No value	No value	No value	8.8E+02	No value	8.8E+02
o-Xylene	95-47-6	No value	4.4E+02	No value	No value	No value	4.4E+02

Table 6-3b
Air Risk-Based Concentrations, Construction Receptor (based on Commercial/Industrial Receptor)
Southern Avenue Industrial Area Superfund Site
South Gate, California

Chemical of Potential Concern (COPC)	CAS No.	Construction Risk-Based Concentrations (in mg/m^3) (see text)					
		based on USEPA RSL		based on DTSC HERO Note 3 SL		Air RBC*	
		Cancer	Noncancer	Cancer	Noncancer	Cancer	Noncancer
p-Cymene (p-Isopropyltoluene)***	-	No value	No value	No value	No value	No value	No value
sec-Butylbenzene	135-98-8	No value	No value	No value	1.8E+03	No value	1.8E+03
Styrene	100-42-5	No value	4.4E+03	No value	3.9E+03	No value	3.9E+03
tert-Butyl Ethyl Ether	-	No value	No value	No value	No value	No value	No value
tert-Butyl Methyl Ether (MTBE)	1634-04-4	5.9E+02	1.3E+04	No value	No value	5.9E+02	1.3E+04
tert-Butylbenzene	98-06-6	No value	No value	No value	1.8E+03	No value	1.8E+03
Tetrachloroethene (PCE)	127-18-4	5.9E+02	1.8E+02	2.5E+01	1.8E+02	2.5E+01	1.8E+02
Toluene	108-88-3	No value	2.2E+04	No value	1.3E+03	No value	1.3E+03
trans-1,2-Dichloroethene	156-60-5	No value	No value	No value	3.5E+02	No value	3.5E+02
Trichloroethene (TCE)	79-01-6	3.8E+01	8.8E+00	No value	No value	3.8E+01	8.8E+00
Trimethyl Cyclohexane	-	No value	No value	No value	No value	No value	No value
Trimethyl Cyclopentane Isomers	-	No value	No value	No value	No value	No value	No value
Vinyl Chloride	75-01-4	3.5E+01	4.4E+02	2.0E+00	4.4E+02	2.0E+00	4.4E+02

Notes:

* USEPA RSL used except in those cases where CalEPA DTSC-SL is lower (more stringent).

** Xylenes used as surrogate.

*** Cumene (isopropylbenzene) used as surrogate.

USEPA does not recognize oral to inhalation route extrapolation.

CalEPA value, which is based on route extrapolation, is conservatively used.

Grey highlighting = RBC based upon the CalEPA value

Air RBC = Risk based concentration

CalEPA = California Environmental Protection Agency

DTSC HERO Note 3 SL = Screening level

ug/m^3 = microgram per cubic meter

RBC = Risk based concentration

USEPA RSL = Regional screening level

Table 6-3c
Air Risk-Based Concentrations, Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Chemical of Potential Concern (COPC)	CAS No.	Residential Risk-Based Concentrations (in mg/m^3)					
		USEPA RSL		DTSC HERO Note 3 SL		Air RBC*	
		Cancer	Noncancer	Cancer	Noncancer	Cancer	Noncancer
1,1,1-Trichloroethane	71-55-6	No value	5.2E+03	No value	1.0E+03	No value	1.0E+03
1,1,2,2-Tetrachloroethane	79-34-5	4.8E-02	No value	4.8E-02	8.3E+01	4.8E-02	8.3E+01
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	No value	5.2E+03	No value	No value	No value	5.2E+03
1,1,2-Trichloroethane	79-00-5	1.8E-01	2.1E-01	No value	No value	1.8E-01	2.1E-01
1,1-Dichloroethane	75-34-3	1.8E+00	No value	1.8E+00	8.3E+02	1.8E+00	8.3E+02
1,1-Dichloroethene	75-35-4	No value	2.1E+02	No value	7.3E+01	No value	7.3E+01
1,1-Difluoroethane	75-37-6	No value	4.2E+04	No value	No value	No value	4.2E+04
1,2,3-Trichlorobenzene	87-61-6	No value	No value	No value	3.3E+00	No value	3.3E+00
1,2,4-Trichlorobenzene	120-82-1	No value	2.1E+00	3.9E-01	2.1E+00	3.9E-01	2.1E+00
1,2,4-Trimethylbenzene	95-63-6	No value	No value	No value	No value	No value	No value
1,2-Dichloroethane	107-06-2	1.1E-01	7.3E+00	No value	No value	1.1E-01	7.3E+00
1,2-Dichloropropane	78-87-5	No value	No value	2.8E-01	4.2E+00	2.8E-01	4.2E+00
1,3,5-Trimethylbenzene	108-67-8	No value	6.3E+01	No value	No value	No value	6.3E+01
1,3-Dichlorobenzene	-	No value	No value	No value	No value	No value	No value
1,4-Dichlorobenzene	106-46-7	2.6E-01	8.3E+02	No value	No value	2.6E-01	8.3E+02
1,4-Dioxane (p-Dioxane)	123-91-1	5.6E-01	3.1E+01	3.6E-01	3.1E+01	3.6E-01	3.1E+01
1-Pentene	-	No value	No value	No value	No value	No value	No value
4-Methyl-2-pentanone (MIBK)	108-10-1	No value	3.1E+03	No value	No value	No value	3.1E+03
Acetaldehyde	75-07-0	1.3E+00	9.4E+00	1.0E+00	9.4E+00	1.0E+00	9.4E+00
Acetone	67-64-1	No value	3.2E+04	No value	No value	No value	3.2E+04
Benzene	71-43-2	3.6E-01	3.1E+01	9.7E-02	3.1E+00	9.7E-02	3.1E+00
bis(2-Ethylhexyl) Phthalate	117-81-7	1.2E+00	No value	No value	No value	1.2E+00	No value
Bromomethane	74-83-9	No value	5.2E+00	No value	No value	No value	5.2E+00
Butane	-	No value	No value	No value	No value	No value	No value
Butylcyclooctane	-	No value	No value	No value	No value	No value	No value
Carbazole	-	No value	No value	No value	No value	No value	No value
Carbon Disulfide	75-15-0	No value	7.3E+02	No value	No value	No value	7.3E+02
Chlorobenzene	108-90-7	No value	5.2E+01	No value	No value	No value	5.2E+01
Chlorodifluoromethane	75-45-6	No value	5.2E+04	No value	No value	No value	5.2E+04
Chloroethane	-	No value	No value	No value	No value	No value	No value
Chloroform	67-66-3	1.2E-01	1.0E+02	No value	No value	1.2E-01	1.0E+02
Chloromethane	74-87-3	No value	9.4E+01	No value	No value	No value	9.4E+01
cis-1,2-Dichloroethylene	156-59-2	No value	No value	No value	8.3E+00	No value	8.3E+00
Cyclohexane	110-82-7	No value	6.3E+03	No value	No value	No value	6.3E+03
Decahydro Naphthalene	-	No value	No value	No value	No value	No value	No value
Decahydromethyl Naphthalene	-	No value	No value	No value	No value	No value	No value
Dichlorodifluoromethane	75-71-8	No value	1.0E+02	No value	No value	No value	1.0E+02
Diethylmethylcyclohexane	-	No value	No value	No value	No value	No value	No value
Dimethyl Octane	-	No value	No value	No value	No value	No value	No value
Dimethylpentane	-	No value	No value	No value	No value	No value	No value
Ethylbenzene	100-41-4	1.1E+00	1.0E+03	No value	No value	1.1E+00	1.0E+03
Isopropylbenzene (Cumene)	98-82-8	No value	4.2E+02	No value	No value	No value	4.2E+02
Isopropylcyclobutane	-	No value	No value	No value	No value	No value	No value
m,p-Xylene**	1330-20-7	No value	1.0E+02	No value	No value	No value	1.0E+02
Methyl Butane	-	No value	No value	No value	No value	No value	No value
Methylcyclobutane	-	No value	No value	No value	No value	No value	No value
Methylcyclohexane	-	No value	No value	No value	No value	No value	No value
Methylene Chloride	75-09-2	1.0E+02	6.3E+02	1.0E+00	4.2E+02	1.0E+00	4.2E+02
Naphthalene	91-20-3	8.3E-02	3.1E+00	No value	No value	8.3E-02	3.1E+00
n-Butylbenzene	104-51-8	No value	No value	No value	2.1E+02	No value	2.1E+02

Table 6-3c
Air Risk-Based Concentrations, Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Chemical of Potential Concern (COPC)	CAS No.	Residential Risk-Based Concentrations (in mg/m^3)					
		USEPA RSL		DTSC HERO Note 3 SL		Air RBC*	
		Cancer	Noncancer	Cancer	Noncancer	Cancer	Noncancer
o-Xylene	95-47-6	No value	1.0E+02	No value	No value	No value	1.0E+02
p-Cymene (p-Isopropyltoluene)***	-	No value	No value	No value	No value	No value	No value
sec-Butylbenzene	135-98-8	No value	No value	No value	4.2E+02	No value	4.2E+02
Styrene	100-42-5	No value	1.0E+03	No value	9.4E+02	No value	9.4E+02
tert-Butyl Ethyl Ether	-	No value	No value	No value	No value	No value	No value
tert-Butyl Methyl Ether (MTBE)	1634-04-4	1.1E+01	3.1E+03	No value	No value	1.1E+01	3.1E+03
tert-Butylbenzene	98-06-6	No value	No value	No value	4.2E+02	No value	4.2E+02
Tetrachloroethene (PCE)	127-18-4	1.1E+01	4.2E+01	4.6E-01	4.2E+01	4.6E-01	4.2E+01
Toluene	108-88-3	No value	5.2E+03	No value	3.1E+02	No value	3.1E+02
trans-1,2-Dichloroethene	156-60-5	No value	No value	No value	8.3E+01	No value	8.3E+01
Trichloroethene (TCE)	79-01-6	4.8E-01	2.1E+00	No value	No value	4.8E-01	2.1E+00
Trimethyl Cyclohexane	-	No value	No value	No value	No value	No value	No value
Trimethyl Cyclopentane Isomers	-	No value	No value	No value	No value	No value	No value
Vinyl Chloride	75-01-4	1.7E-01	1.0E+02	9.5E-03	1.0E+02	9.5E-03	1.0E+02

Notes:

* USEPA RSL used except in those cases where CalEPA DTSC-SL is lower (more stringent).

** Xylenes used as surrogate.

*** Cumene (isopropylbenzene) used as surrogate.

USEPA does not recognize oral to inhalation route extrapolation.

CalEPA value, which is based on route extrapolation, is conservatively used.

Grey highlighting = RBC based upon the CalEPA value

Air RBC = Risk based concentration

CalEPA = California Environmental Protection Agency

DTSC HERO Note 3 SL = Screening level

ug/m^3 = microgram per cubic meter

RBC = Risk based concentration

USEPA RSL = Regional screening level

Table 6-4
Soil Gas Risk-Based Concentrations, all Receptors
Southern Avenue Industrial Area Superfund Site
South Gate, California

Chemical of Potential Concern (COPC)	CAS No.	Soil Gas Risk-Based Concentrations (in mg/m^3)					
		Commercial/Industrial		Construction Worker		Residential	
		Cancer	Noncancer	Cancer	Noncancer	Cancer	Noncancer
1,1,1-Trichloroethane	71-55-6	No value	1.5E+05	No value	1.5E+05	No value	3.5E+04
1,1,2,2-Tetrachloroethane	79-34-5	7.0E+00	1.2E+04	8.8E+01	1.2E+04	1.6E+00	2.8E+03
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	No value	7.3E+05	No value	7.3E+05	No value	1.7E+05
1,1,2-Trichloroethane	79-00-5	2.6E+01	2.9E+01	3.2E+02	2.9E+01	6.0E+00	7.0E+00
1,1-Dichloroethane	75-34-3	2.6E+02	1.2E+05	3.2E+03	1.2E+05	5.8E+01	2.8E+04
1,1-Dichloroethene	75-35-4	No value	1.0E+04	No value	1.0E+04	No value	2.4E+03
1,1-Difluoroethane	75-37-6	No value	6.0E+06	No value	6.0E+06	No value	1.4E+06
1,2,4-Trichlorobenzene	120-82-1	5.6E+01	4.7E+02	No value	4.7E+02	No value	1.1E+02
1,2-Dichloroethane	107-06-2	1.6E+01	1.0E+03	2.0E+02	1.0E+03	3.7E+00	2.4E+02
1,3,5-Trimethylbenzene	108-67-8	No value	8.7E+03	No value	8.7E+03	No value	2.1E+03
1,4-Dichlorobenzene	106-46-7	3.7E+01	1.2E+05	4.6E+02	1.2E+05	8.7E+00	2.8E+04
1,4-Dioxane (p-Dioxane)	123-91-1	5.3E+01	4.3E+03	6.6E+02	4.3E+03	1.2E+01	1.0E+03
Acetaldehyde	75-07-0	1.5E+02	1.3E+03	1.9E+03	1.3E+03	3.5E+01	3.1E+02
Benzene	71-43-2	1.4E+01	4.4E+02	1.8E+02	4.4E+02	3.2E+00	1.0E+02
Butane	-	No value	No value	No value	No value	No value	No value
Butylcyclooctane	-	No value	No value	No value	No value	No value	No value
Chlorobenzene	108-90-7	No value	7.3E+03	No value	7.3E+03	No value	1.7E+03
Chlorodifluoromethane	75-45-6	No value	7.3E+06	No value	7.3E+06	No value	1.7E+06
Chloroethane	75-00-3	No value	No value	No value	No value	No value	No value
Chloroform	67-66-3	1.8E+01	1.4E+04	2.2E+02	1.4E+04	4.0E+00	3.3E+03
Chloromethane	74-87-3	No value	1.3E+04	No value	1.3E+04	No value	3.1E+03
cis-1,2-Dichloroethylene	156-59-2	No value	1.2E+03	No value	1.2E+03	No value	2.8E+02
Decahydro Naphthalene	-	No value	No value	No value	No value	No value	No value
Decahydromethyl Naphthalene	-	No value	No value	No value	No value	No value	No value
Dichlorodifluoromethane	75-71-8	No value	1.5E+04	No value	1.5E+04	No value	3.3E+03
Diethylmethylcyclohexane	-	No value	No value	No value	No value	No value	No value
Dimethyl Octane	-	No value	No value	No value	No value	No value	No value
Dimethylpentane	-	No value	No value	No value	No value	No value	No value
Ethylbenzene	100-41-4	1.6E+02	1.5E+05	2.0E+03	1.5E+05	3.7E+01	3.3E+04
Isopropylbenzene (Cumene)	98-82-8	No value	6.0E+04	No value	6.0E+04	No value	1.4E+04
Isopropylcyclobutane	-	No value	No value	No value	No value	No value	No value
m,p-Xylene	1330-20-7	No value	1.5E+04	No value	1.5E+04	No value	3.3E+03
Methyl Butane	-	No value	No value	No value	No value	No value	No value
Methylene Chloride	75-09-2	4.1E+02	5.8E+04	5.1E+03	5.8E+04	3.4E+01	1.4E+04
Naphthalene	91-20-3	1.2E+01	4.3E+02	1.5E+02	4.3E+02	2.8E+00	1.0E+02
n-Butylbenzene	104-51-8	No value	2.9E+04	No value	2.9E+04	No value	7.0E+03
o-Xylene	95-47-6	No value	1.5E+04	No value	1.5E+04	No value	3.3E+03
p-Cymene (p-Isopropyltoluene)	-	No value	No value	No value	No value	No value	No value
sec-Butylbenzene	135-98-8	No value	5.8E+04	No value	5.8E+04	No value	1.4E+04
Styrene	100-42-5	No value	1.3E+05	No value	1.3E+05	No value	3.1E+04
tert-Butylbenzene	98-06-6	No value	5.8E+04	No value	No value	No value	No value
Tetrachloroethene (PCE)	127-18-4	6.7E+01	5.8E+03	8.4E+02	5.8E+03	1.5E+01	1.4E+03
Toluene	108-88-3	No value	4.4E+04	No value	4.4E+04	No value	1.0E+04
trans-1,2-Dichloroethene	156-60-5	No value	1.2E+04	No value	1.2E+04	No value	2.8E+03
Trichloroethene (TCE)	79-01-6	1.0E+02	2.9E+02	1.3E+03	2.9E+02	1.6E+01	7.0E+01
Trimethyl Cyclohexane	-	No value	No value	No value	No value	No value	No value
Trimethyl Cyclopentane Isomers	-	No value	No value	No value	No value	No value	No value
Vinyl Chloride	75-01-4	5.2E+00	1.5E+04	6.6E+01	1.5E+04	3.2E-01	3.3E+03

Table 6-5
Groundwater Risk-Based Concentrations, Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Chemical of Potential Concern (COPC)	Air RBC (from Table 6-3c) (mg/m^3)		Henry's constant at 25°C (mg/m^3 per mg/L)	Solubility (mg/L)	Groundwater RBC (mg/L)*	
	Cancer	Noncancer			Cancer	Noncancer
1,1,2-Trichloroethane	1.8E-01	2.1E-01	3.37E+01	4.59E+06	5.3E+00	6.2E+00
1,1-Dichloroethane	1.8E+00	8.3E+02	2.30E+02	5.04E+06	7.6E+00	3.6E+03
1,1-Dichloroethene	No value	7.3E+01	1.07E+03	2.42E+06	-	6.8E+01
1,2,3-Trichlorobenzene	No value	3.3E+00	5.11E+01	1.80E+04	-	6.5E+01
1,2,4-Trichlorobenzene	3.9E-01	2.1E+00	5.81E+01	4.90E+04	6.7E+00	3.6E+01
1,2-Dichloroethane	1.1E-01	7.3E+00	4.82E+01	8.60E+06	2.3E+00	1.5E+02
1,2-Dichloropropane	2.8E-01	4.2E+00	1.15E+02	2.80E+06	2.4E+00	3.6E+01
1,3-Dichlorobenzene	No value	No value	No value	No value	-	-
1,4-Dichlorobenzene	2.6E-01	8.3E+02	9.85E+01	8.13E+04	2.6E+00	8.4E+03
1,4-Dioxane (p-Dioxane)	3.6E-01	3.1E+01	1.96E-01	1.00E+09	1.9E+03	1.6E+05
1-Pentene	No value	No value	No value	No value	-	-
4-Methyl-2-pentanone (MIBK)	No value	3.1E+03	5.64E+00	1.90E+07	-	5.5E+05
Acetone	No value	3.2E+04	1.43E+00	1.00E+09	-	2.2E+07
Benzene	9.7E-02	3.1E+00	2.27E+02	1.79E+06	4.3E-01	1.4E+01
bis(2-Ethylhexyl) Phthalate	1.2E+00	No value	1.10E-02	2.70E+02	1.1E+05	-
Bromomethane	No value	5.2E+00	3.00E+02	1.52E+07	-	1.7E+01
Carbazole	No value	No value	No value	No value	-	-
Carbon Disulfide	No value	7.3E+02	5.89E+02	2.16E+06	-	1.2E+03
Chlorobenzene	No value	5.2E+01	1.27E+02	4.98E+05	-	4.1E+02
Chloroethane	No value	No value	4.54E+02	6.71E+06	-	-
Chloroform	1.2E-01	1.0E+02	1.50E+02	7.95E+06	8.0E-01	6.7E+02
Chloromethane	No value	9.4E+01	3.61E+02	5.32E+06	-	2.6E+02
cis-1,2-Dichloroethylene	No value	8.3E+00	1.67E+02	6.41E+06	-	5.0E+01
Cyclohexane	No value	6.3E+03	6.13E+03	5.50E+04	-	1.0E+03
Ethylbenzene	1.1E+00	1.0E+03	3.22E+02	1.69E+05	3.4E+00	3.1E+03
Isopropylbenzene (Cumene)	No value	4.2E+02	4.70E+02	6.13E+04	-	8.9E+02
m,p-Xylene	No value	1.0E+02	2.71E+02	1.06E+05	-	3.7E+02
Methyl Butane	No value	No value	No value	No value	-	-
Methylcyclobutane	No value	No value	No value	No value	-	-

Table 6-5
Groundwater Risk-Based Concentrations, Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Chemical of Potential Concern (COPC)	Air RBC (from Table 6-3c) (mg/m^3)		Henry's constant at 25°C (mg/m^3 per mg/L)	Solubility (mg/L)	Groundwater RBC (mg/L)*	
	Cancer	Noncancer			Cancer	Noncancer
Methylcyclohexane	No value	No value	No value	No value	-	-
Methylene Chloride	1.0E+00	4.2E+02	1.33E+02	1.30E+07	7.6E+00	3.1E+03
o-Xylene	No value	1.0E+02	2.12E+02	1.78E+05	-	4.7E+02
Styrene	No value	9.4E+02	1.12E+02	3.10E+05	-	8.3E+03
tert-Butyl Ethyl Ether	No value	No value	No value	No value	-	-
tert-Butyl Methyl Ether (MTBE)	1.1E+01	3.1E+03	2.40E+01	5.10E+07	4.6E+02	1.3E+05
Tetrachloroethene (PCE)	4.6E-01	4.2E+01	7.24E+02	2.06E+05	6.4E-01	5.8E+01
Toluene	No value	3.1E+02	2.71E+02	5.26E+05	-	1.2E+03
trans-1,2-Dichloroethene	No value	8.3E+01	3.83E+02	4.52E+06	-	2.2E+02
Trichloroethene (TCE)	4.8E-01	2.1E+00	4.03E+02	1.28E+06	1.2E+00	5.2E+00
Vinyl Chloride	9.5E-03	1.0E+02	1.14E+03	8.80E+06	8.3E-03	8.8E+01

Notes:

* Groundwater Screening RBC = Air RBC / 0.001 / Henry's constant, where 0.001 is the default screening level groundwater-to-indoor air attenuation factor.

ug/m^3 = microgram per cubic meter

ug/L = microgram per liter

Table 6-6a
Soil Risk-Based Concentrations, Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Chemical of Potential Concern (COPC)	Commercial/Industrial Risk-Based Concentrations (in mg/kg)*					
	USEPA RSL		DTSC HERO Note 3 SL		Soil RBC** (mg/kg)	
	Cancer	Noncancer	Cancer	Noncancer	Cancer	Noncancer
1,1,1-Trichloroethane	No value	3.6E+04	No value	1.7E+03	No value	1.7E+03
1,1,2,2-Tetrachloroethane	2.7E+00	2.3E+04	6.0E-01	7.0E+02	6.0E-01	7.0E+02
1,1,2-Trichloro-1,2,2-trifluoroethane	No value	2.8E+04	No value	No value	No value	2.8E+04
1,1,2-Trichloroethane	5.0E+00	6.3E+00	No value	No value	5.0E+00	6.3E+00
1,1-Dichloroethane	1.6E+01	2.3E+05	3.6E+00	1.6E+03	3.6E+00	1.6E+03
1,2,3-Trichlorobenzene	No value	9.3E+02	No value	4.0E+01	No value	4.0E+01
1,2,4-Trichlorobenzene	1.1E+02	2.6E+02	No value	No value	1.1E+02	2.6E+02
1,2-Dibromo-3-chloropropane	6.4E-02	2.5E+01	No value	No value	6.4E-02	2.5E+01
1,2-Dibromoethane (EDB)	1.6E-01	3.3E+02	No value	No value	1.6E-01	3.3E+02
1,2-Dichloroethane	2.0E+00	1.4E+02	No value	No value	2.0E+00	1.4E+02
2-Methylnaphthalene	No value	3.0E+03	No value	No value	No value	3.0E+03
Acenaphthene	No value	4.5E+04	No value	No value	No value	4.5E+04
Acetone	No value	6.7E+05	No value	No value	No value	6.7E+05
Anthracene	No value	2.3E+05	No value	No value	No value	2.3E+05
Antimony	No value	4.7E+02	No value	No value	No value	4.7E+02
Arsenic	3.0E+00	4.8E+02	1.1E-01	4.0E-01	1.1E-01	4.0E-01
Benzene	5.1E+00	4.2E+02	3.3E-01	1.1E+01	3.3E-01	1.1E+01
Benzo(a)anthracene	2.1E+01	No value	No value	No value	2.1E+01	No value
Benzo(a)pyrene	2.1E+00	2.2E+02	No value	No value	2.1E+00	2.2E+02
Benzo(b)fluoranthene	2.1E+01	No value	No value	No value	2.1E+01	No value
Benzo(g,h,i)perylene	No value	No value	No value	No value	No value	No value
Benzo(k)fluoranthene	2.1E+02	No value	No value	No value	2.1E+02	No value
Biphenyl (Diphenyl)	4.1E+02	2.0E+02	No value	No value	4.1E+02	2.0E+02
bis(2-Ethylhexyl) Phthalate	1.6E+02	1.6E+04	No value	No value	1.6E+02	1.6E+04
Bromodichloromethane	1.3E+00	2.3E+04	2.8E-01	2.7E+02	2.8E-01	2.7E+02
Bromoform	8.6E+01	2.3E+04	1.8E+01	5.3E+02	1.8E+01	5.3E+02
Cadmium	9.3E+03	9.8E+02	9.1E+02	5.2E+00	9.1E+02	5.2E+00
Carbazole	No value	No value	No value	No value	No value	No value
Carbon Disulfide	No value	3.5E+03	No value	No value	No value	3.5E+03
Carbon Tetrachloride	2.9E+00	5.7E+02	9.8E-02	5.2E+01	9.8E-02	5.2E+01
Chloroform	1.4E+00	1.0E+03	No value	No value	1.4E+00	1.0E+03
Chrysene	2.1E+03	No value	No value	No value	2.1E+03	No value
cis-1,2-Dichloroethylene	No value	2.3E+03	No value	1.8E+01	No value	1.8E+01
cis-1,3-Dichloropropene	8.2E+00	3.1E+02	5.8E-01	7.2E+01	5.8E-01	7.2E+01
Cobalt	1.9E+03	3.5E+02	No value	No value	1.9E+03	3.5E+02
Copper	No value	4.7E+04	No value	No value	No value	4.7E+04
Cyclohexane	No value	2.7E+04	No value	No value	No value	2.7E+04
Dibenz(a,h)anthracene	2.1E+00	No value	No value	No value	2.1E+00	No value
Dibenzofuran	No value	1.0E+03	No value	No value	No value	1.0E+03
Diethyl Phthalate	No value	6.6E+05	No value	No value	No value	6.6E+05
Dimethyl Phthalate	No value	No value	No value	No value	No value	No value
Di-n-Butyl Phthalate	No value	8.2E+04	No value	No value	No value	8.2E+04
Ethylbenzene	2.5E+01	2.0E+04	No value	No value	2.5E+01	2.0E+04
Fluoranthene	No value	3.0E+04	No value	No value	No value	3.0E+04
Fluorene	No value	3.0E+04	No value	No value	No value	3.0E+04
Indeno(1,2,3-c,d)pyrene	2.1E+01	No value	No value	No value	2.1E+01	No value
Isopropylbenzene (Cumene)	No value	9.9E+03	No value	No value	No value	9.9E+03
Lead	No value	8.0E+02	No value	3.2E+02	No value	3.2E+02
m,p-Xylene	No value	2.5E+03	No value	No value	No value	2.5E+03
Manganese	No value	2.6E+04	No value	1.1E+03	No value	1.1E+03
Methyl Acetate	No value	1.2E+06	No value	2.4E+04	No value	2.4E+04
Methylcyclohexane	No value	No value	No value	5.5E+03	No value	5.5E+03
Naphthalene	1.7E+01	5.9E+02	No value	No value	1.7E+01	5.9E+02
Nickel	6.4E+04	2.2E+04	1.5E+04	4.9E+02	1.5E+04	4.9E+02
o-Xylene	No value	2.8E+03	No value	No value	No value	2.8E+03
PCB-1248 (Aroclor 1248)	9.5E-01	No value	No value	No value	9.5E-01	No value
PCB-1254 (Aroclor 1254)	9.7E-01	1.5E+01	No value	No value	9.7E-01	1.5E+01
PCB-1260 (Aroclor 1260)	9.9E-01	No value	No value	No value	9.9E-01	No value
Phenanthrene	No value	No value	No value	No value	No value	No value

Table 6-6a
Soil Risk-Based Concentrations, Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Chemical of Potential Concern (COPC)	Commercial/Industrial Risk-Based Concentrations (in mg/kg)*					
	USEPA RSL		DTSC HERO Note 3 SL		Soil RBC** (mg/kg)	
	Cancer	Noncancer	Cancer	Noncancer	Cancer	Noncancer
Phenol	No value	2.5E+05	No value	No value	No value	2.5E+05
Pyrene	No value	2.3E+04	No value	No value	No value	2.3E+04
tert-Butyl Methyl Ether (MTBE)	2.1E+02	6.4E+04	No value	No value	2.1E+02	6.4E+04
Tetrachloroethene (PCE)	1.0E+02	3.9E+02	5.9E-01	8.1E+01	5.9E-01	8.1E+01
Thallium	No value	1.2E+01	No value	No value	No value	1.2E+01
Toluene	No value	4.7E+04	No value	1.1E+03	No value	1.1E+03
trans-1,3-Dichloropropene	8.2E+00	3.1E+02	5.8E-01	7.2E+01	5.8E-01	7.2E+01
Trichloroethene (TCE)	6.0E+00	1.9E+01	No value	No value	6.0E+00	1.9E+01
Trichlorofluoromethane	No value	3.5E+05	No value	1.2E+03	No value	1.2E+03
Vinyl Chloride	1.7E+00	3.7E+02	8.7E-03	7.0E+01	8.7E-03	7.0E+01

Notes:

* All soil concentrations and RBCs are in units of milligrams per kilogram (mg/kg) on a dry weight basis.

** USEPA RSL used except in those cases where CalEPA DTSC-SL is lower (more stringent).

Table 6-6b
Soil Risk-Based Concentrations, Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Chemical of Potential Concern (COPC)	Construction Risk-Based Concentrations (in mg/kg)*	
	CalEPA ESL	
	Cancer	Noncancer
1,1,1-Trichloroethane	No value	8.8E+03
1,1,2,2-Tetrachloroethane	4.4E+01	7.1E+03
1,1,2-Trichloro-1,2,2-trifluoroethane	No value	No value
1,1,2-Trichloroethane	9.0E+01	5.2E+00
1,1-Dichloroethane	3.9E+02	7.1E+04
1,2,3-Trichlorobenzene	No value	No value
1,2,4-Trichlorobenzene	8.5E+02	3.1E+02
1,2-Dibromo-3-chloropropane	1.3E+00	2.4E+01
1,2-Dibromoethane (EDB)	3.2E+00	2.9E+01
1,2-Dichloroethane	3.7E+01	1.0E+02
2-Methylnaphthalene	No value	6.7E+02
Acenaphthene	No value	1.0E+04
Acetone	No value	2.6E+05
Anthracene	No value	5.0E+04
Antimony	No value	1.4E+02
Arsenic	2.0E+00	9.8E-01
Benzene	2.4E+01	3.2E+01
Benzo(a)anthracene	1.6E+01	No value
Benzo(a)pyrene	1.6E+00	No value
Benzo(b)fluoranthene	1.6E+01	No value
Benzo(g,h,i)perylene	No value	No value
Benzo(k)fluoranthene	1.5E+02	No value
Biphenyl (Diphenyl)	1.7E+03	2.4E+02
bis(2-Ethylhexyl) Phthalate	9.5E+02	3.8E+03
Bromodichloromethane	4.7E+01	7.1E+03
Bromoform	2.2E+03	7.1E+03
Cadmium	1.1E+02	4.3E+01
Carbazole	No value	No value
Carbon Disulfide	No value	No value
Carbon Tetrachloride	1.3E+01	2.7E+02
Chloroform	3.2E+01	8.1E+02
Chrysene	1.5E+03	No value
cis-1,2-Dichloroethylene	No value	8.2E+01
cis-1,3-Dichloropropene	2.9E+01	1.5E+02
Cobalt	4.9E+01	2.8E+01
Copper	No value	1.4E+04
Cyclohexane	No value	No value
Dibenz(a,h)anthracene	1.6E+00	No value
Dibenzofuran	No value	No value
Diethyl Phthalate	No value	1.5E+05
Dimethyl Phthalate	No value	No value
Di-n-Butyl Phthalate	No value	No value
Ethylbenzene	4.8E+02	1.3E+04
Fluoranthene	No value	6.7E+03

Table 6-6b
Soil Risk-Based Concentrations, Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Chemical of Potential Concern (COPC)	Construction Risk-Based Concentrations (in mg/kg)*	
	CalEPA ESL	
	Cancer	Noncancer
Fluorene	No value	6.7E+03
Indeno(1,2,3-c,d)pyrene	1.6E+01	No value
Isopropylbenzene (Cumene)	No value	No value
Lead	No value	1.6E+02
m,p-Xylene	No value	2.4E+03
Manganese	No value	No value
Methyl Acetate	No value	No value
Methylcyclohexane	No value	No value
Naphthalene	3.5E+02	4.4E+02
Nickel	1.7E+03	8.6E+01
o-Xylene	No value	No value
PCB-1248 (Arochlor 1248)	5.6E+00	No value
PCB-1254 (Arochlor 1254)	5.6E+00	No value
PCB-1260 (Arochlor 1260)	5.6E+00	No value
Phenanthrene	No value	No value
Phenol	No value	9.8E+04
Pyrene	No value	5.0E+03
tert-Butyl Methyl Ether (MTBE)	3.7E+03	5.6E+04
Tetrachloroethene (PCE)	3.3E+01	3.1E+02
Thallium	No value	3.5E+00
Toluene	No value	4.1E+03
trans-1,3-Dichloropropene	2.9E+01	1.5E+02
Trichloroethene (TCE)	1.6E+02	2.3E+01
Trichlorofluoromethane	No value	No value
Vinyl Chloride	3.4E+00	3.0E+02

Notes:

* All soil concentrations and RBCs are in units of milligrams per kilogram (mg/kg) on a dry weight basis and are RWQCB ESLs (https://www.waterboards.ca.gov/rwqcb2/water_issues/programs/esl.html)

Table 6-7
Exposure and Risk Characterization Approach
Southern Avenue Industrial Area Superfund Site
South Gate, California

Receptor	Location		Exposure Medium	Source Media				Exposure Model			
	On-Site	Off-Site		Soil Gas	Indoor Air	Groundwater	Soil	Soil Gas	Crawlspace/Indoor Air	Groundwater	Soil
Commercial/Industrial (Future only)	❍	-	Indoor Air	❍	-	-	-	Default attenuation factor of 0.03	-	-	-
			Soil	-	-	-	❍	-	-	-	None (measured concentration used)
Construction (Future only)	❍	-	Outdoor (Trench) Air	❍	-	-	-	Default attenuation factor of 0.03	-	-	-
			Soil	-	-	-	❍	-	-	-	None (measured concentration used)
Residential (Current and Future)	-	❍	Indoor Air	❍*	❍	❍	-	-	-	Default attenuation factor of 0.001	-

Notes:

❍ = Scenario addressed in HHRA

* = SG 15, SG 16, SG 17, SG 40, and SG 41

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-19-15, P913cc	15	1,1,1-Trichloroethane	64	No value	1.5E+05	-	4E-04	3E-03	1E+02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	1700	2.6E+02	1.2E+05	7E-06	1E-02		
		1,1-Dichloroethene	85	No value	1.0E+04	-	8E-03		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	43	No value	8.7E+03	-	5E-03		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	350	1.4E+01	4.4E+02	2E-05	8E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	5300	No value	1.2E+03	-	5E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	100	1.6E+02	1.5E+05	6E-07	7E-04		
		Isopropylbenzene (Cumene)	43	No value	6.0E+04	-	7E-04		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	34	No value	2.9E+04	-	1E-03		
		o-Xylene	150	No value	1.5E+04	-	1E-02		
		p-Cymene (p-Isopropyltoluene)	43	No value	No value	-	-		
		sec-Butylbenzene	56	No value	5.8E+04	-	1E-03		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	1200	6.7E+01	5.8E+03	2E-05	2E-01		
		Toluene	210	No value	4.4E+04	-	5E-03		
		trans-1,2-Dichloroethene	500	No value	1.2E+04	-	4E-02		
		Trichloroethene (TCE)	35000	1.0E+02	2.9E+02	4E-04	1E+02		
		Vinyl Chloride	13000	5.2E+00	1.5E+04	2E-03	9E-01		
SAIA-SB/SG-19-25, P530cc	25	1,1,1-Trichloroethane	150	No value	1.5E+05	-	1E-03	2E-01	9E+02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	18000	2.6E+02	1.2E+05	7E-05	2E-01		
		1,1-Dichloroethene	660	No value	1.0E+04	-	6E-02		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	110	1.6E+01	1.0E+03	7E-06	1E-01		
		1,3,5-Trimethylbenzene	200	No value	8.7E+03	-	2E-02		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	600	1.4E+01	4.4E+02	4E-05	1E+00		
		Chloroethane	440	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	22000	No value	1.2E+03	-	2E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	270	1.6E+02	1.5E+05	2E-06	2E-03		
		Isopropylbenzene (Cumene)	200	No value	6.0E+04	-	3E-03		
		m,p-Xylene	290	No value	1.5E+04	-	2E-02		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	270	No value	2.9E+04	-	9E-03		
		o-Xylene	490	No value	1.5E+04	-	3E-02		
		p-Cymene (p-Isopropyltoluene)	180	No value	No value	-	-		
		sec-Butylbenzene	290	No value	5.8E+04	-	5E-03		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	410	6.7E+01	5.8E+03	6E-06	7E-02		
		Toluene	1900	No value	4.4E+04	-	4E-02		
		trans-1,2-Dichloroethene	6400	No value	1.2E+04	-	5E-01		
		Trichloroethene (TCE)	230000	1.0E+02	2.9E+02	2E-03	8E+02		
		Vinyl Chloride	810000	5.2E+00	1.5E+04	2E-01	6E+01		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-19-35, P578cc	35	1,1,1-Trichloroethane	38	No value	1.5E+05	-	3E-04	8E-03	8E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	820	2.6E+02	1.2E+05	3E-06	7E-03		
		1,1-Dichloroethene	700	No value	1.0E+04	-	7E-02		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	98	1.4E+01	4.4E+02	7E-06	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	6800	No value	1.2E+03	-	6E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	70	1.6E+02	1.5E+05	4E-07	5E-04		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	63	No value	1.5E+04	-	4E-03		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	38	No value	1.5E+04	-	3E-03		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	2200	6.7E+01	5.8E+03	3E-05	4E-01		
		Toluene	87	No value	4.4E+04	-	2E-03		
		trans-1,2-Dichloroethene	460	No value	1.2E+04	-	4E-02		
		Trichloroethene (TCE)	21000	1.0E+02	2.9E+02	2E-04	7E+01		
		Vinyl Chloride	38000	5.2E+00	1.5E+04	7E-03	3E+00		
SAIA-SB/SG-19-5, P816cc	5	1,1,1-Trichloroethane	2400	No value	1.5E+05	-	2E-02	3E-04	1E+02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	2000	2.6E+02	1.2E+05	8E-06	2E-02		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	85	1.8E+01	1.4E+04	5E-06	6E-03		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	17000	No value	1.2E+03	-	1E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	1100	6.7E+01	5.8E+03	2E-05	2E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	370	No value	1.2E+04	-	3E-02		
		Trichloroethene (TCE)	30000	1.0E+02	2.9E+02	3E-04	1E+02		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-20-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-02	3E+03
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	20000	2.6E+02	1.2E+05	8E-05	2E-01		
		1,1-Dichloroethene	9400	No value	1.0E+04	-	9E-01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	440	1.6E+01	1.0E+03	3E-05	4E-01		
		1,3,5-Trimethylbenzene	32	No value	8.7E+03	-	4E-03		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	910	1.4E+01	4.4E+02	6E-05	2E+00		
		Chloroethane	8800	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	3000000	No value	1.2E+03	-	3E+03		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	32	No value	6.0E+04	-	5E-04		
		m,p-Xylene	240	No value	1.5E+04	-	2E-02		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	37	No value	2.9E+04	-	1E-03		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	58	No value	No value	-	-		
		sec-Butylbenzene	31	No value	5.8E+04	-	5E-04		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	440	6.7E+01	5.8E+03	7E-06	8E-02		
		Toluene	740	No value	4.4E+04	-	2E-02		
		trans-1,2-Dichloroethene	19000	No value	1.2E+04	-	2E+00		
		Trichloroethene (TCE)	7700	1.0E+02	2.9E+02	8E-05	3E+01		
		Vinyl Chloride	85000	5.2E+00	1.5E+04	2E-02	6E+00		
SAIA-SB/SG-20-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-02	2E+04
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	5900	2.6E+02	1.2E+05	2E-05	5E-02		
		1,1-Dichloroethene	55000	No value	1.0E+04	-	5E+00		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	35	No value	8.7E+03	-	4E-03		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	430	1.4E+01	4.4E+02	3E-05	1E+00		
		Chloroethane	19000	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	23000000	No value	1.2E+03	-	2E+04		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	94	1.6E+02	1.5E+05	6E-07	6E-04		
		Isopropylbenzene (Cumene)	35	No value	6.0E+04	-	6E-04		
		m,p-Xylene	290	No value	1.5E+04	-	2E-02		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	52	No value	2.9E+04	-	2E-03		
		o-Xylene	140	No value	1.5E+04	-	1E-02		
		p-Cymene (p-Isopropyltoluene)	74	No value	No value	-	-		
		sec-Butylbenzene	44	No value	5.8E+04	-	8E-04		
		tert-Butylbenzene	38	No value	5.8E+04	-	7E-04		
		Tetrachloroethene (PCE)	140	6.7E+01	5.8E+03	2E-06	2E-02		
		Toluene	240	No value	4.4E+04	-	5E-03		
		trans-1,2-Dichloroethene	90000	No value	1.2E+04	-	8E+00		
		Trichloroethene (TCE)	270000	1.0E+02	2.9E+02	3E-03	9E+02		
		Vinyl Chloride	98000	5.2E+00	1.5E+04	2E-02	7E+00		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-20-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-02	2E+04
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	62000	2.6E+02	1.2E+05	2E-04	5E-01		
		1,1-Dichloroethene	20000	No value	1.0E+04	-	2E+00		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	230	1.6E+01	1.0E+03	1E-05	2E-01		
		1,3,5-Trimethylbenzene	91	No value	8.7E+03	-	1E-02		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	310	1.4E+01	4.4E+02	2E-05	7E-01		
		Chloroethane	730	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	5200000	No value	1.2E+03	-	4E+03		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	110	1.6E+02	1.5E+05	7E-07	8E-04		
		Isopropylbenzene (Cumene)	90	No value	6.0E+04	-	2E-03		
		m,p-Xylene	91	No value	1.5E+04	-	6E-03		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	99	No value	2.9E+04	-	3E-03		
		o-Xylene	110	No value	1.5E+04	-	8E-03		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	120	No value	5.8E+04	-	2E-03		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	2000	6.7E+01	5.8E+03	3E-05	3E-01		
		Toluene	360	No value	4.4E+04	-	8E-03		
		trans-1,2-Dichloroethene	93000	No value	1.2E+04	-	8E+00		
		Trichloroethene (TCE)	4100000	1.0E+02	2.9E+02	4E-02	1E+04		
		Vinyl Chloride	80000	5.2E+00	1.5E+04	2E-02	5E+00		
SAIA-SB/SG-20-5, P816cc	5	1,1,1-Trichloroethane	76	No value	1.5E+05	-	5E-04	3E-02	6E+02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	22000	2.6E+02	1.2E+05	9E-05	2E-01		
		1,1-Dichloroethene	710	No value	1.0E+04	-	7E-02		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	72	1.6E+01	1.0E+03	5E-06	7E-02		
		1,3,5-Trimethylbenzene	39	No value	8.7E+03	-	5E-03		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	340	1.4E+01	4.4E+02	2E-05	8E-01		
		Chloroethane	650	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	610000	No value	1.2E+03	-	5E+02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	150	1.6E+02	1.5E+05	9E-07	1E-03		
		Isopropylbenzene (Cumene)	39	No value	6.0E+04	-	7E-04		
		m,p-Xylene	390	No value	1.5E+04	-	3E-02		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	41	No value	2.9E+04	-	1E-03		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	69	No value	No value	-	-		
		sec-Butylbenzene	34	No value	5.8E+04	-	6E-04		
		tert-Butylbenzene	41	No value	5.8E+04	-	7E-04		
		Tetrachloroethene (PCE)	290	6.7E+01	5.8E+03	4E-06	5E-02		
		Toluene	460	No value	4.4E+04	-	1E-02		
		trans-1,2-Dichloroethene	1700	No value	1.2E+04	-	1E-01		
		Trichloroethene (TCE)	17000	1.0E+02	2.9E+02	2E-04	6E+01		
		Vinyl Chloride	170000	5.2E+00	1.5E+04	3E-02	1E+01		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-21-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-04	6E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	510	2.6E+02	1.2E+05	2E-06	4E-03		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	40	1.4E+01	4.4E+02	3E-06	9E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	32000	No value	1.2E+03	-	3E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	570	6.7E+01	5.8E+03	9E-06	1E-01		
		Toluene	67	No value	4.4E+04	-	2E-03		
		trans-1,2-Dichloroethene	150	No value	1.2E+04	-	1E-02		
		Trichloroethene (TCE)	8500	1.0E+02	2.9E+02	9E-05	3E+01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-21-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-04	7E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	2200	2.6E+02	1.2E+05	9E-06	2E-02		
		1,1-Dichloroethene	1100	No value	1.0E+04	-	1E-01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	120	1.4E+01	4.4E+02	9E-06	3E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	50000	No value	1.2E+03	-	4E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	96	No value	1.5E+04	-	7E-03		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	360	6.7E+01	5.8E+03	5E-06	6E-02		
		Toluene	90	No value	4.4E+04	-	2E-03		
		trans-1,2-Dichloroethene	5400	No value	1.2E+04	-	5E-01		
		Trichloroethene (TCE)	7000	1.0E+02	2.9E+02	7E-05	2E+01		
		Vinyl Chloride	1600	5.2E+00	1.5E+04	3E-04	1E-01		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-21-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-03	1E+02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	930	2.6E+02	1.2E+05	4E-06	8E-03		
		1,1-Dichloroethene	1700	No value	1.0E+04	-	2E-01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	59	1.4E+01	4.4E+02	4E-06	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	52000	No value	1.2E+03	-	4E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	38	6.7E+01	5.8E+03	6E-07	7E-03		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	4700	No value	1.2E+04	-	4E-01		
		Trichloroethene (TCE)	21000	1.0E+02	2.9E+02	2E-04	7E+01		
		Vinyl Chloride	4300	5.2E+00	1.5E+04	8E-04	3E-01		
SAIA-SB/SG-21-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-06	6E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	93	6.7E+01	5.8E+03	1E-06	2E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	160	1.0E+02	2.9E+02	2E-06	5E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-22-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-06	7E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	25	1.4E+01	4.4E+02	2E-06	6E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	45	No value	2.9E+04	-	2E-03		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	40	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	39	6.7E+01	5.8E+03	6E-07	7E-03		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	180	1.0E+02	2.9E+02	2E-06	6E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-22-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-05	1E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	120	1.4E+01	4.4E+02	9E-06	3E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	120	No value	1.2E+03	-	1E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	110	No value	2.9E+04	-	4E-03		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	97	No value	No value	-	-		
		sec-Butylbenzene	43	No value	5.8E+04	-	7E-04		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	43	6.7E+01	5.8E+03	6E-07	7E-03		
		Toluene	50	No value	4.4E+04	-	1E-03		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	310	1.0E+02	2.9E+02	3E-06	1E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-22-35 Rep, P628cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-05	6E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	40	No value	1.0E+04	-	4E-03		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	210	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	51	No value	1.5E+04	-	3E-03		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	20	No value	4.4E+04	-	5E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	110	1.0E+02	2.9E+02	1E-06	4E-01		
		Vinyl Chloride	73	5.2E+00	1.5E+04	1E-05	5E-03		
SAIA-SB/SG-22-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-05	6E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	26	No value	1.0E+04	-	3E-03		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	190	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	47	No value	1.5E+04	-	3E-03		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	23	No value	4.4E+04	-	5E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	120	1.0E+02	2.9E+02	1E-06	4E-01		
		Vinyl Chloride	90	5.2E+00	1.5E+04	2E-05	6E-03		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-22-5 Rep, P866cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	7E-06	3E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	59	No value	2.9E+04	-	2E-03		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	46	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	100	1.0E+02	2.9E+02	1E-06	3E-01		
		Vinyl Chloride	32	5.2E+00	1.5E+04	6E-06	2E-03		
SAIA-SB/SG-22-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-05	3E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	76	No value	2.9E+04	-	3E-03		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	61	No value	No value	-	-		
		sec-Butylbenzene	44	No value	5.8E+04	-	8E-04		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	35	6.7E+01	5.8E+03	5E-07	6E-03		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	86	1.0E+02	2.9E+02	9E-07	3E-01		
		Vinyl Chloride	64	5.2E+00	1.5E+04	1E-05	4E-03		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-23-15, 1PV, P481cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	7E-06	2E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	25	1.4E+01	4.4E+02	2E-06	6E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	100	6.7E+01	5.8E+03	1E-06	2E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	420	1.0E+02	2.9E+02	4E-06	1E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-23-15, 3PV, P1444cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-06	2E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	91	6.7E+01	5.8E+03	1E-06	2E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	440	1.0E+02	2.9E+02	4E-06	2E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-23-15,10PV, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-06	2E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	88	6.7E+01	5.8E+03	1E-06	2E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	440	1.0E+02	2.9E+02	4E-06	2E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-23-25, 1PV, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-05	3E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	47	1.4E+01	4.4E+02	3E-06	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	69	6.7E+01	5.8E+03	1E-06	1E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	900	1.0E+02	2.9E+02	9E-06	3E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-23-25, 3PV, P1589cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	8E-06	1E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	43	1.4E+01	4.4E+02	3E-06	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	89	6.7E+01	5.8E+03	1E-06	2E-02		
		Toluene	55	No value	4.4E+04	-	1E-03		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	320	1.0E+02	2.9E+02	3E-06	1E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-23-25,10PV, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-06	6E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	47	6.7E+01	5.8E+03	7E-07	8E-03		
		Toluene	28	No value	4.4E+04	-	6E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	160	1.0E+02	2.9E+02	2E-06	5E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-23-35, 1PV, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-05	5E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	58	No value	1.2E+03	-	5E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	110	6.7E+01	5.8E+03	2E-06	2E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	1500	1.0E+02	2.9E+02	2E-05	5E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-23-35, 3PV, P1734cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-05	5E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	55	No value	1.2E+03	-	5E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	82	6.7E+01	5.8E+03	1E-06	1E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	1500	1.0E+02	2.9E+02	2E-05	5E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-23-35,10PV, P5782cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-05	5E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	58	No value	1.2E+03	-	5E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	75	6.7E+01	5.8E+03	1E-06	1E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	1500	1.0E+02	2.9E+02	2E-05	5E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-23-5, 10PV, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-06	1E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	72	6.7E+01	5.8E+03	1E-06	1E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	280	1.0E+02	2.9E+02	3E-06	1E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-23-5, 1PV, P433cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-06	9E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	58	6.7E+01	5.8E+03	9E-07	1E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	260	1.0E+02	2.9E+02	3E-06	9E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-23-5, 3PV, P1299cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-06	9E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	63	6.7E+01	5.8E+03	9E-07	1E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	260	1.0E+02	2.9E+02	3E-06	9E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-24-15, P913cc	15	1,1,1-Trichloroethane	56	No value	1.5E+05	-	4E-04	2E-04	7E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	360	2.6E+02	1.2E+05	1E-06	3E-03		
		1,1-Dichloroethene	81	No value	1.0E+04	-	8E-03		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	19	1.4E+01	4.4E+02	1E-06	4E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	3900	No value	1.2E+03	-	3E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	93	6.7E+01	5.8E+03	1E-06	2E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	120	No value	1.2E+04	-	1E-02		
		Trichloroethene (TCE)	19000	1.0E+02	2.9E+02	2E-04	6E+01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-24-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	7E-05	2E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	43	No value	7.3E+05	-	6E-05		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	110	No value	1.0E+04	-	1E-02		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	1200	No value	1.2E+03	-	1E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	40	1.6E+02	1.5E+05	2E-07	3E-04		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	51	No value	1.5E+04	-	3E-03		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	760	6.7E+01	5.8E+03	1E-05	1E-01		
		Toluene	44	No value	4.4E+04	-	1E-03		
		trans-1,2-Dichloroethene	45	No value	1.2E+04	-	4E-03		
		Trichloroethene (TCE)	5500	1.0E+02	2.9E+02	6E-05	2E+01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-24-35, P578cc	35	1,1,1-Trichloroethane	610	No value	1.5E+05	-	4E-03	1E-02	4E+03
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	53000	2.6E+02	1.2E+05	2E-04	5E-01		
		1,1-Dichloroethene	35000	No value	1.0E+04	-	3E+00		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	840	1.4E+01	4.4E+02	6E-05	2E+00		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	120	1.8E+01	1.4E+04	7E-06	8E-03		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	420000	No value	1.2E+03	-	4E+02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	93	1.6E+02	1.5E+05	6E-07	6E-04		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	24	No value	1.5E+04	-	2E-03		
		p-Cymene (p-Isopropyltoluene)	50	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	950	6.7E+01	5.8E+03	1E-05	2E-01		
		Toluene	63	No value	4.4E+04	-	1E-03		
		trans-1,2-Dichloroethene	72000	No value	1.2E+04	-	6E+00		
		Trichloroethene (TCE)	980000	1.0E+02	2.9E+02	1E-02	3E+03		
		Vinyl Chloride	17000	5.2E+00	1.5E+04	3E-03	1E+00		
SAIA-SB/SG-24-5, P816cc	5	1,1,1-Trichloroethane	50	No value	1.5E+05	-	3E-04	1E-05	3E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	180	2.6E+02	1.2E+05	7E-07	2E-03		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	170	No value	1.2E+03	-	1E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	93	6.7E+01	5.8E+03	1E-06	2E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	920	1.0E+02	2.9E+02	9E-06	3E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-25-15 Rep, P963cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-05	6E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	26	1.4E+01	4.4E+02	2E-06	6E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	3400	6.7E+01	5.8E+03	5E-05	6E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-25-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-05	7E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	20	1.4E+01	4.4E+02	1E-06	5E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	4100	6.7E+01	5.8E+03	6E-05	7E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-25-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-05	2E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	28	1.4E+01	4.4E+02	2E-06	6E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	58	No value	1.3E+04	-	4E-03		
		cis-1,2-Dichloroethylene	81	No value	1.2E+03	-	7E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	580	6.7E+01	5.8E+03	9E-06	1E-01		
		Toluene	29	No value	4.4E+04	-	7E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	620	1.0E+02	2.9E+02	6E-06	2E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-25-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-04	9E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	100	No value	1.0E+04	-	1E-02		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	6700	No value	1.2E+03	-	6E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	6400	6.7E+01	5.8E+03	1E-04	1E+00		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	690	No value	1.2E+04	-	6E-02		
		Trichloroethene (TCE)	25000	1.0E+02	2.9E+02	3E-04	9E+01		
		Vinyl Chloride	26	5.2E+00	1.5E+04	5E-06	2E-03		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-25-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-05	5E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	3000	6.7E+01	5.8E+03	4E-05	5E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-26-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-04	1E+02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	900	2.6E+02	1.2E+05	4E-06	8E-03		
		1,1-Dichloroethene	110	No value	1.0E+04	-	1E-02		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	42	1.4E+01	4.4E+02	3E-06	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	17000	No value	1.2E+03	-	1E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	37	6.7E+01	5.8E+03	6E-07	6E-03		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	240	No value	1.2E+04	-	2E-02		
		Trichloroethene (TCE)	33000	1.0E+02	2.9E+02	3E-04	1E+02		
		Vinyl Chloride	230	5.2E+00	1.5E+04	4E-05	2E-02		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-26-25, P530cc	25	1,1,1-Trichloroethane	30	No value	1.5E+05	-	2E-04	3E-03	6E+02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	4400	2.6E+02	1.2E+05	2E-05	4E-02		
		1,1-Dichloroethene	1100	No value	1.0E+04	-	1E-01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	71	1.4E+01	4.4E+02	5E-06	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	98000	No value	1.2E+03	-	8E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	75	6.7E+01	5.8E+03	1E-06	1E-02		
		Toluene	30	No value	4.4E+04	-	7E-04		
		trans-1,2-Dichloroethene	1200	No value	1.2E+04	-	1E-01		
		Trichloroethene (TCE)	150000	1.0E+02	2.9E+02	2E-03	5E+02		
		Vinyl Chloride	6500	5.2E+00	1.5E+04	1E-03	4E-01		
SAIA-SB/SG-26-5 Rep, P866cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-05	3E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	72	5.6E+01	4.7E+02	1E-06	2E-01		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	770	3.7E+01	1.2E+05	2E-05	7E-03		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	46	1.4E+01	4.4E+02	3E-06	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	240	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	36	6.7E+01	5.8E+03	5E-07	6E-03		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	740	1.0E+02	2.9E+02	7E-06	3E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-26-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-05	4E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	65	5.6E+01	4.7E+02	1E-06	1E-01		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	770	3.7E+01	1.2E+05	2E-05	7E-03		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	41	1.4E+01	4.4E+02	3E-06	9E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	290	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	65	6.7E+01	5.8E+03	1E-06	1E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	950	1.0E+02	2.9E+02	1E-05	3E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-27-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-04	2E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	25	1.4E+01	4.4E+02	2E-06	6E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	340	No value	1.2E+03	-	3E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	30000	6.7E+01	5.8E+03	4E-04	5E+00		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	100	No value	1.2E+04	-	9E-03		
		Trichloroethene (TCE)	5300	1.0E+02	2.9E+02	5E-05	2E+01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-27-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-04	8E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	220	2.6E+02	1.2E+05	9E-07	2E-03		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	49	1.4E+01	4.4E+02	3E-06	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	4000	No value	1.2E+03	-	3E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	15000	6.7E+01	5.8E+03	2E-04	3E+00		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	460	No value	1.2E+04	-	4E-02		
		Trichloroethene (TCE)	23000	1.0E+02	2.9E+02	2E-04	8E+01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-27-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-04	5E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	58	2.6E+02	1.2E+05	2E-07	5E-04		
		1,1-Dichloroethene	99	No value	1.0E+04	-	1E-02		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	14000	No value	1.2E+03	-	1E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	210	6.7E+01	5.8E+03	3E-06	4E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	1200	No value	1.2E+04	-	1E-01		
		Trichloroethene (TCE)	10000	1.0E+02	2.9E+02	1E-04	3E+01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-27-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	8E-04	1E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	29	1.4E+01	4.4E+02	2E-06	7E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	57	No value	1.2E+03	-	5E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	53000	6.7E+01	5.8E+03	8E-04	9E+00		
		Toluene	20	No value	4.4E+04	-	5E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	970	1.0E+02	2.9E+02	1E-05	3E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-28-15 Rep, P963cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	8E-06	9E-02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	540	6.7E+01	5.8E+03	8E-06	9E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-28-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-05	1E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	690	6.7E+01	5.8E+03	1E-05	1E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-28-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-04	6E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	50	2.6E+01	2.9E+01	2E-06	2E+00		
		1,1-Dichloroethane	220	2.6E+02	1.2E+05	9E-07	2E-03		
		1,1-Dichloroethene	130	No value	1.0E+04	-	1E-02		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	24000	No value	1.2E+03	-	2E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	310	6.7E+01	5.8E+03	5E-06	5E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	1600	No value	1.2E+04	-	1E-01		
		Trichloroethene (TCE)	11000	1.0E+02	2.9E+02	1E-04	4E+01		
		Vinyl Chloride	64	5.2E+00	1.5E+04	1E-05	4E-03		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-28-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	9E-06	1E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	590	6.7E+01	5.8E+03	9E-06	1E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-29-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	9E-07	1E-02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	61	6.7E+01	5.8E+03	9E-07	1E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-29-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-05	2E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	170	1.4E+01	4.4E+02	1E-05	4E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	83	No value	1.2E+03	-	7E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	35	No value	4.4E+04	-	8E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	320	1.0E+02	2.9E+02	3E-06	1E+00		
		Vinyl Chloride	13	5.2E+00	1.5E+04	2E-06	9E-04		
SAIA-SB/SG-29-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-04	4E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	120	2.6E+02	1.2E+05	5E-07	1E-03		
		1,1-Dichloroethene	74	No value	1.0E+04	-	7E-03		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	7600	No value	1.2E+03	-	7E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	680	6.7E+01	5.8E+03	1E-05	1E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	530	No value	1.2E+04	-	5E-02		
		Trichloroethene (TCE)	9500	1.0E+02	2.9E+02	1E-04	3E+01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-29-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-05	2E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	1200	No value	1.2E+03	-	1E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	5700	1.0E+02	2.9E+02	6E-05	2E+01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-30-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	9E-06	1E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	590	6.7E+01	5.8E+03	9E-06	1E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-30-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-05	5E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	28	1.4E+01	4.4E+02	2E-06	6E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	240	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	740	6.7E+01	5.8E+03	1E-05	1E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	1300	1.0E+02	2.9E+02	1E-05	4E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-30-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-05	1E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	290	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	490	6.7E+01	5.8E+03	7E-06	8E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	59	No value	1.2E+04	-	5E-03		
		Trichloroethene (TCE)	250	1.0E+02	2.9E+02	3E-06	9E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-30-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-06	7E-02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	400	6.7E+01	5.8E+03	6E-06	7E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-31-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-05	3E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	34	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	750	6.7E+01	5.8E+03	1E-05	1E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	57	1.0E+02	2.9E+02	6E-07	2E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-31-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-05	8E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	24	1.4E+01	4.4E+02	2E-06	5E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	170	No value	1.2E+03	-	1E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	110	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	580	6.7E+01	5.8E+03	9E-06	1E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	2300	1.0E+02	2.9E+02	2E-05	8E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-31-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-05	7E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	1600	No value	1.2E+03	-	1E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	560	6.7E+01	5.8E+03	8E-06	1E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	110	No value	1.2E+04	-	9E-03		
		Trichloroethene (TCE)	1500	1.0E+02	2.9E+02	2E-05	5E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-31-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	7E-06	8E-02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	490	6.7E+01	5.8E+03	7E-06	8E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-32-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-05	4E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	21	1.4E+01	4.4E+02	1E-06	5E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	150	No value	1.2E+03	-	1E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	230	6.7E+01	5.8E+03	3E-06	4E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	980	1.0E+02	2.9E+02	1E-05	3E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-32-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-32-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-06	4E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	47	No value	1.2E+03	-	4E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	120	1.0E+02	2.9E+02	1E-06	4E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-32-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-06	1E-02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	76	6.7E+01	5.8E+03	1E-06	1E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-33-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-05	7E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	420	No value	8.7E+03	-	5E-02		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	270	1.6E+02	1.5E+05	2E-06	2E-03		
		Isopropylbenzene (Cumene)	420	No value	6.0E+04	-	7E-03		
		m,p-Xylene	120	No value	1.5E+04	-	8E-03		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	260	1.2E+01	4.3E+02	2E-05	6E-01		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	300	No value	1.5E+04	-	2E-02		
		p-Cymene (p-Isopropyltoluene)	940	No value	No value	-	-		
		sec-Butylbenzene	1300	No value	5.8E+04	-	2E-02		
		tert-Butylbenzene	400	No value	5.8E+04	-	7E-03		
		Tetrachloroethene (PCE)	190	6.7E+01	5.8E+03	3E-06	3E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-33-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-06	2E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	230	No value	8.7E+03	-	3E-02		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	35	1.4E+01	4.4E+02	2E-06	8E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	170	1.6E+02	1.5E+05	1E-06	1E-03		
		Isopropylbenzene (Cumene)	230	No value	6.0E+04	-	4E-03		
		m,p-Xylene	140	No value	1.5E+04	-	1E-02		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	33	1.2E+01	4.3E+02	3E-06	8E-02		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	46	No value	1.5E+04	-	3E-03		
		p-Cymene (p-Isopropyltoluene)	3400	No value	No value	-	-		
		sec-Butylbenzene	650	No value	5.8E+04	-	1E-02		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	39	No value	4.4E+04	-	9E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-33-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-05	7E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	29	1.4E+01	4.4E+02	2E-06	7E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	630	No value	1.2E+03	-	5E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	51	No value	1.2E+04	-	4E-03		
		Trichloroethene (TCE)	1900	1.0E+02	2.9E+02	2E-05	6E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-33-5 Rep, P866cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-06	7E-02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	410	6.7E+01	5.8E+03	6E-06	7E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-33-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	7E-06	8E-02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	470	6.7E+01	5.8E+03	7E-06	8E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-34-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-34-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-34-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-34-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-35-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-35-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-05	2E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	79	1.4E+01	4.4E+02	6E-06	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	51	No value	1.2E+03	-	4E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	34	No value	4.4E+04	-	8E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	530	1.0E+02	2.9E+02	5E-06	2E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-35-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-35-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-36-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-06	5E-02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	21	1.4E+01	4.4E+02	1E-06	5E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-36-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-36-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-07	1E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	40	1.0E+02	2.9E+02	4E-07	1E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-36-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-37-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-06	7E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	58	1.4E+01	4.4E+02	4E-06	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	83	No value	1.2E+03	-	7E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	35	No value	4.4E+04	-	8E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	160	1.0E+02	2.9E+02	2E-06	5E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-37-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-06	2E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	380	No value	1.2E+03	-	3E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	45	6.7E+01	5.8E+03	7E-07	8E-03		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	400	1.0E+02	2.9E+02	4E-06	1E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-38-15 Rep, P963cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	7E-06	1E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	49	1.4E+01	4.4E+02	3E-06	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	330	No value	1.2E+03	-	3E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	57	6.7E+01	5.8E+03	9E-07	1E-02		
		Toluene	37	No value	4.4E+04	-	8E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	270	1.0E+02	2.9E+02	3E-06	9E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-38-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	7E-06	2E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	52	1.4E+01	4.4E+02	4E-06	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	350	No value	1.2E+03	-	3E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	53	No value	4.4E+04	-	1E-03		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	330	1.0E+02	2.9E+02	3E-06	1E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-38-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-06	1E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	55	1.4E+01	4.4E+02	4E-06	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	510	No value	1.2E+03	-	4E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	47	No value	1.5E+04	-	3E-03		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	74	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	38	No value	4.4E+04	-	9E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	200	1.0E+02	2.9E+02	2E-06	7E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-38-35, P578cc	35	1,1,1-Trichloroethane	120	No value	1.5E+05	-	8E-04	2E-02	4E+03
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	45000	2.6E+02	1.2E+05	2E-04	4E-01		
		1,1-Dichloroethene	4400	No value	1.0E+04	-	4E-01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	65	1.6E+01	1.0E+03	4E-06	6E-02		
		1,3,5-Trimethylbenzene	190	No value	8.7E+03	-	2E-02		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	230	1.4E+01	4.4E+02	2E-05	5E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	44	1.8E+01	1.4E+04	2E-06	3E-03		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	1100000	No value	1.2E+03	-	9E+02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	25	1.6E+02	1.5E+05	2E-07	2E-04		
		Isopropylbenzene (Cumene)	190	No value	6.0E+04	-	3E-03		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	300	No value	5.8E+04	-	5E-03		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	3100	6.7E+01	5.8E+03	5E-05	5E-01		
		Toluene	180	No value	4.4E+04	-	4E-03		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	940000	1.0E+02	2.9E+02	9E-03	3E+03		
		Vinyl Chloride	52000	5.2E+00	1.5E+04	1E-02	4E+00		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-38-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	7E-07	8E-03
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	46	6.7E+01	5.8E+03	7E-07	8E-03		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-39-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-39-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	7E-06	6E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	90	1.4E+01	4.4E+02	6E-06	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	140	No value	1.2E+03	-	1E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	47	No value	4.4E+04	-	1E-03		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	78	1.0E+02	2.9E+02	8E-07	3E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-39-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-04	7E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	380	2.6E+02	1.2E+05	1E-06	3E-03		
		1,1-Dichloroethene	160	No value	1.0E+04	-	2E-02		
		1,1-Difluoroethane	92	No value	6.0E+06	-	2E-05		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	34000	No value	1.2E+03	-	3E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	160	6.7E+01	5.8E+03	2E-06	3E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	1700	No value	1.2E+04	-	1E-01		
		Trichloroethene (TCE)	13000	1.0E+02	2.9E+02	1E-04	4E+01		
		Vinyl Chloride	76	5.2E+00	1.5E+04	1E-05	5E-03		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-39-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-40-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	8E-06	9E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	23	1.4E+01	4.4E+02	2E-06	5E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	340	No value	1.2E+03	-	3E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	330	6.7E+01	5.8E+03	5E-06	6E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	140	1.0E+02	2.9E+02	1E-06	5E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-40-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-05	2E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	200	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	1200	6.7E+01	5.8E+03	2E-05	2E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	380	1.0E+02	2.9E+02	4E-06	1E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-40-35 Rep, P628cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-06	2E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	730	No value	1.2E+03	-	6E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	88	No value	1.2E+04	-	8E-03		
		Trichloroethene (TCE)	320	1.0E+02	2.9E+02	3E-06	1E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-40-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-06	2E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	900	No value	1.2E+03	-	8E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	96	No value	1.2E+04	-	8E-03		
		Trichloroethene (TCE)	430	1.0E+02	2.9E+02	4E-06	1E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-40-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-06	1E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	410	No value	1.2E+03	-	4E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	240	6.7E+01	5.8E+03	4E-06	4E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	200	1.0E+02	2.9E+02	2E-06	7E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-41-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-06	5E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	160	No value	1.2E+03	-	1E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	45	6.7E+01	5.8E+03	7E-07	8E-03		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	94	1.0E+02	2.9E+02	9E-07	3E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-41-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-07	2E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	60	No value	1.2E+03	-	5E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	34	1.0E+02	2.9E+02	3E-07	1E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-41-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	6E-02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	69	No value	1.2E+03	-	6E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-41-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-07	2E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	51	1.0E+02	2.9E+02	5E-07	2E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-42-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-42-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-42-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-06	4E-02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	17	1.4E+01	4.4E+02	1E-06	4E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	33	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-42-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-06	4E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	21	1.4E+01	4.4E+02	1E-06	5E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	190	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	53	1.0E+02	2.9E+02	5E-07	2E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-43-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-43-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	5E-02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	60	No value	1.2E+03	-	5E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-43-35 Rep, P628cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SB/SG-43-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-43-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-07	2E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	62	No value	1.2E+03	-	5E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	55	1.0E+02	2.9E+02	6E-07	2E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SG02-D05-E0413	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-05	5E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	40	2.6E+02	1.2E+05	2E-07	3E-04		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		Trichloroethene (TCE)	1500	1.0E+02	2.9E+02	2E-05	5E+00		
		Vinyl Chloride	50	5.2E+00	1.5E+04	1E-05	3E-03		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG06-D35-E0413	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-03	8E+01
		1,1,2,2-Tetrachloroethane	200	7.0E+00	1.2E+04	3E-05	2E-02		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	400	2.6E+02	1.2E+05	2E-06	3E-03		
		1,1-Dichloroethane	300	2.6E+02	1.2E+05	1E-06	3E-03		
		1,1-Dichloroethene	2100	No value	1.0E+04	-	2E-01		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	60	No value	8.7E+03	-	7E-03		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		Benzene	50	1.4E+01	4.4E+02	4E-06	1E-01		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	38000	No value	1.2E+03	-	3E+01		
		Decahydromethyl Naphthalene*	400	No value	No value	-	-		
		Diethylmethylcyclohexane*	500	No value	No value	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	100	6.7E+01	5.8E+03	1E-06	2E-02		
		Toluene	0	No value	4.4E+04	-	-		
		Trichloroethene (TCE)	15000	1.0E+02	2.9E+02	2E-04	5E+01		
		Vinyl Chloride	5000	5.2E+00	1.5E+04	1E-03	3E-01		
SAIA-SG08-D05-E0413	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-01	3E+02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	65000	2.6E+02	1.2E+05	3E-04	6E-01		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	260000	No value	1.2E+03	-	2E+02		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	530000	5.2E+00	1.5E+04	1E-01	4E+01		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG09-D35-E0413	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-02	2E+04
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	150000	2.6E+02	1.2E+05	6E-04	1E+00		
		1,1-Dichloroethene	28000	No value	1.0E+04	-	3E+00		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	6100000	No value	1.2E+03	-	5E+03		
		Decahydromethyl Naphthalene*	48000	No value	No value	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		Trichloroethene (TCE)	2900000	1.0E+02	2.9E+02	3E-02	1E+04		
		Vinyl Chloride	180000	5.2E+00	1.5E+04	3E-02	1E+01		
SAIA-SG10-D15-E0413	15	1,1,1-Trichloroethane	37000	No value	1.5E+05	-	3E-01	3E-01	2E+03
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	270000	2.6E+02	1.2E+05	1E-03	2E+00		
		1,1-Dichloroethene	21000	No value	1.0E+04	-	2E+00		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	2200000	No value	1.2E+03	-	2E+03		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		Trichloroethene (TCE)	11000	1.0E+02	2.9E+02	1E-04	4E+01		
		Vinyl Chloride	1700000	5.2E+00	1.5E+04	3E-01	1E+02		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG11-D25-E0413	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-05	3E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Butane*	1600	No value	No value	-	-		
		Butylcyclooctane*	1900	No value	No value	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	900	No value	1.2E+03	-	8E-01		
		Dimethylpentane*	1100	No value	No value	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylcyclobutane*	700	No value	No value	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methyl Butane*	800	No value	No value	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	100	6.7E+01	5.8E+03	1E-06	2E-02		
		Toluene	0	No value	4.4E+04	-	-		
		Trichloroethene (TCE)	700	1.0E+02	2.9E+02	7E-06	2E+00		
		Vinyl Chloride	30	5.2E+00	1.5E+04	6E-06	2E-03		
SAIA-SG14-D25-E0413	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	7E-06	8E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	10	No value	8.7E+03	-	1E-03		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		Benzene	20	1.4E+01	4.4E+02	1E-06	5E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	100	No value	1.2E+03	-	9E-02		
		Decahydro Naphthalene*	70	No value	No value	-	-		
		Decahydromethyl Naphthalene*	80	No value	No value	-	-		
		Ethylbenzene	20	1.6E+02	1.5E+05	1E-07	1E-04		
		m,p-Xylene	40	No value	1.5E+04	-	3E-03		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		o-Xylene	10	No value	1.5E+04	-	7E-04		
		Styrene	10	No value	1.3E+05	-	8E-05		
		Tetrachloroethene (PCE)	80	6.7E+01	5.8E+03	1E-06	1E-02		
		Toluene	60	No value	4.4E+04	-	1E-03		
		Trichloroethene (TCE)	200	1.0E+02	2.9E+02	2E-06	7E-01		
		Vinyl Chloride	10	5.2E+00	1.5E+04	2E-06	7E-04		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG20-E35	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-02	1E+04
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	32000	2.6E+02	1.2E+05	1E-04	3E-01		
		1,1-Dichloroethene	11000	No value	1.0E+04	-	1E+00		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	4700000	No value	1.2E+03	-	4E+03		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		Trichloroethene (TCE)	3200000	1.0E+02	2.9E+02	3E-02	1E+04		
		Vinyl Chloride	43000	5.2E+00	1.5E+04	8E-03	3E+00		
SAIA-SG22-E25	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-05	3E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	7	No value	1.0E+04	-	7E-04		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	8	No value	8.7E+03	-	9E-04		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		Benzene	200	1.4E+01	4.4E+02	1E-05	5E-01		
		Butane*	1600	No value	No value	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	200	No value	1.2E+03	-	2E-01		
		Dimethyl Octane*	600	No value	No value	-	-		
		Ethylbenzene	10	1.6E+02	1.5E+05	6E-08	7E-05		
		m,p-Xylene	30	No value	1.5E+04	-	2E-03		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		o-Xylene	10	No value	1.5E+04	-	7E-04		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	60	6.7E+01	5.8E+03	9E-07	1E-02		
		Toluene	40	No value	4.4E+04	-	9E-04		
		Trichloroethene (TCE)	800	1.0E+02	2.9E+02	8E-06	3E+00		
		Vinyl Chloride	10	5.2E+00	1.5E+04	2E-06	7E-04		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG24-E35	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	7E-02	2E+04
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	57000	2.6E+02	1.2E+05	2E-04	5E-01		
		1,1-Dichloroethene	38000	No value	1.0E+04	-	4E+00		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	2600000	No value	1.2E+03	-	2E+03		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		Trichloroethene (TCE)	6600000	1.0E+02	2.9E+02	7E-02	2E+04		
		Vinyl Chloride	20000	5.2E+00	1.5E+04	4E-03	1E+00		
SAIA-SG27-E5	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-04	1E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		Benzene	60	1.4E+01	4.4E+02	4E-06	1E-01		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	200	No value	1.2E+03	-	2E-01		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	40000	6.7E+01	5.8E+03	6E-04	7E+00		
		Toluene	0	No value	4.4E+04	-	-		
		Trichloroethene (TCE)	1600	1.0E+02	2.9E+02	2E-05	5E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG29-E5	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-05	2E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chlorodifluoromethane*	400	No value	7.3E+06	-	5E-05		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	1400	No value	1.2E+03	-	1E+00		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		Trichloroethene (TCE)	4800	1.0E+02	2.9E+02	5E-05	2E+01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SG30-E25	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-05	1E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		Acetaldehyde*	40	1.5E+02	1.3E+03	3E-07	3E-02		
		Benzene	40	1.4E+01	4.4E+02	3E-06	9E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	500	No value	1.2E+03	-	4E-01		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	700	6.7E+01	5.8E+03	1E-05	1E-01		
		Toluene	8	No value	4.4E+04	-	2E-04		
		Trichloroethene (TCE)	2600	1.0E+02	2.9E+02	3E-05	9E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG32-E15	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-05	7E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	5	2.6E+02	1.2E+05	2E-08	4E-05		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	10	5.6E+01	4.7E+02	2E-07	2E-02		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		Benzene	40	1.4E+01	4.4E+02	3E-06	9E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	400	No value	1.2E+03	-	3E-01		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	200	6.7E+01	5.8E+03	3E-06	3E-02		
		Toluene	8	No value	4.4E+04	-	2E-04		
		Trichloroethene (TCE)	2000	1.0E+02	2.9E+02	2E-05	7E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SG33-E35	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-05	1E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	10	2.6E+02	1.2E+05	4E-08	9E-05		
		1,1-Dichloroethene	10	No value	1.0E+04	-	1E-03		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		Benzene	50	1.4E+01	4.4E+02	4E-06	1E-01		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	800	No value	1.2E+03	-	7E-01		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	20	6.7E+01	5.8E+03	3E-07	3E-03		
		Toluene	8	No value	4.4E+04	-	2E-04		
		Trichloroethene (TCE)	2700	1.0E+02	2.9E+02	3E-05	9E+00		
		Trimethyl Cyclohexane*	300	No value	No value	-	-		
		Trimethyl Cyclopentane Isomers*	80	No value	No value	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG35-E25	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-05	4E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	10	5.6E+01	4.7E+02	2E-07	2E-02		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		Benzene	100	1.4E+01	4.4E+02	7E-06	2E-01		
		Butane*	400	No value	No value	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	100	No value	1.2E+03	-	9E-02		
		Decahydromethyl Naphthalene*	40	No value	No value	-	-		
		Ethylbenzene	7	1.6E+02	1.5E+05	4E-08	5E-05		
		m,p-Xylene	20	No value	1.5E+04	-	1E-03		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		o-Xylene	10	No value	1.5E+04	-	7E-04		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	20	No value	4.4E+04	-	5E-04		
		Trichloroethene (TCE)	1200	1.0E+02	2.9E+02	1E-05	4E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SG36-E35	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-06	3E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		Benzene	9	1.4E+01	4.4E+02	6E-07	2E-02		
		Butane*	60	No value	No value	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	20	No value	1.2E+03	-	2E-02		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methyl Butane*	30	No value	No value	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	8	No value	4.4E+04	-	2E-04		
		Trichloroethene (TCE)	80	1.0E+02	2.9E+02	8E-07	3E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG39-E15	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	9E-07	1E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		Benzene	10	1.4E+01	4.4E+02	7E-07	2E-02		
		Butane*	60	No value	No value	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chlorodifluoromethane*	70	No value	7.3E+06	-	1E-05		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	20	No value	1.2E+03	-	2E-02		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		m,p-Xylene	20	No value	1.5E+04	-	1E-03		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		o-Xylene	10	No value	1.5E+04	-	7E-04		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	20	No value	4.4E+04	-	5E-04		
		Trichloroethene (TCE)	20	1.0E+02	2.9E+02	2E-07	7E-02		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SG41-E5	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	7E-05	2E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	20	2.6E+02	1.2E+05	8E-08	2E-04		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		Benzene	60	1.4E+01	4.4E+02	4E-06	1E-01		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	5100	No value	1.2E+03	-	4E+00		
		Decahydromethyl Naphthalene*	100	No value	No value	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	50	6.7E+01	5.8E+03	7E-07	9E-03		
		Toluene	0	No value	4.4E+04	-	-		
		Trichloroethene (TCE)	6000	1.0E+02	2.9E+02	6E-05	2E+01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG44-15	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-05	2E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	10	No value	1.0E+04	-	1E-03		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	40	1.4E+01	4.4E+02	3E-06	9E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	10	No value	1.2E+03	-	9E-03		
		Ethylbenzene	9	1.6E+02	1.5E+05	6E-08	6E-05		
		m,p-Xylene	30	No value	1.5E+04	-	2E-03		
		Methylene Chloride	6	4.1E+02	5.8E+04	1E-08	1E-04		
		o-Xylene	9	No value	1.5E+04	-	6E-04		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	30	6.7E+01	5.8E+03	4E-07	5E-03		
		Toluene	80	No value	4.4E+04	-	2E-03		
		Trichloroethene (TCE)	40	1.0E+02	2.9E+02	4E-07	1E-01		
		Vinyl Chloride	40	5.2E+00	1.5E+04	8E-06	3E-03		
SAIA-SG44-25	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	7E-06	2E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	10	No value	1.0E+04	-	1E-03		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	10	1.4E+01	4.4E+02	7E-07	2E-02		
		Chlorobenzene	5	No value	7.3E+03	-	7E-04		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	2	No value	1.3E+04	-	2E-04		
		cis-1,2-Dichloroethylene	30	No value	1.2E+03	-	3E-02		
		Ethylbenzene	6	1.6E+02	1.5E+05	4E-08	4E-05		
		m,p-Xylene	20	No value	1.5E+04	-	1E-03		
		Methylene Chloride	4	4.1E+02	5.8E+04	1E-08	7E-05		
		o-Xylene	8	No value	1.5E+04	-	5E-04		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	60	No value	4.4E+04	-	1E-03		
		Trichloroethene (TCE)	50	1.0E+02	2.9E+02	5E-07	2E-01		
		Vinyl Chloride	30	5.2E+00	1.5E+04	6E-06	2E-03		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG44-35	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-06	2E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	7	No value	1.0E+04	-	7E-04		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	10	1.4E+01	4.4E+02	7E-07	2E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	20	No value	1.2E+03	-	2E-02		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	20	6.7E+01	5.8E+03	3E-07	3E-03		
		Toluene	40	No value	4.4E+04	-	9E-04		
		Trichloroethene (TCE)	40	1.0E+02	2.9E+02	4E-07	1E-01		
		Vinyl Chloride	20	5.2E+00	1.5E+04	4E-06	1E-03		
SAIA-SG44-5	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-07	3E-03
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	5	1.8E+01	1.4E+04	3E-07	3E-04		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Ethylbenzene	5	1.6E+02	1.5E+05	3E-08	3E-05		
		m,p-Xylene	20	No value	1.5E+04	-	1E-03		
		Methylene Chloride	4	4.1E+02	5.8E+04	1E-08	7E-05		
		o-Xylene	6	No value	1.5E+04	-	4E-04		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	40	No value	4.4E+04	-	9E-04		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG45-5	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-07	2E-02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	6	1.4E+01	4.4E+02	4E-07	1E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	10	6.7E+01	5.8E+03	1E-07	2E-03		
		Toluene	10	No value	4.4E+04	-	2E-04		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SG45-15	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-06	1E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	30	1.4E+01	4.4E+02	2E-06	7E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	30	1.8E+01	1.4E+04	2E-06	2E-03		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Ethylbenzene	6	1.6E+02	1.5E+05	4E-08	4E-05		
		m,p-Xylene	20	No value	1.5E+04	-	1E-03		
		Methylene Chloride	6	4.1E+02	5.8E+04	1E-08	1E-04		
		o-Xylene	7	No value	1.5E+04	-	5E-04		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	10	6.7E+01	5.8E+03	1E-07	2E-03		
		Toluene	100	No value	4.4E+04	-	2E-03		
		Trichloroethene (TCE)	20	1.0E+02	2.9E+02	2E-07	7E-02		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG45-25	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-05	1E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	30	2.6E+02	1.2E+05	1E-07	3E-04		
		1,1-Dichloroethene	100	No value	1.0E+04	-	1E-02		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	9	1.4E+01	4.4E+02	6E-07	2E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	900	No value	1.2E+03	-	8E-01		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		m,p-Xylene	10	No value	1.5E+04	-	7E-04		
		Methylene Chloride	4	4.1E+02	5.8E+04	1E-08	7E-05		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	20	6.7E+01	5.8E+03	3E-07	3E-03		
		Toluene	200	No value	4.4E+04	-	5E-03		
		Trichloroethene (TCE)	3500	1.0E+02	2.9E+02	4E-05	1E+01		
		Vinyl Chloride	60	5.2E+00	1.5E+04	1E-05	4E-03		
SAIA-SG45-35	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-05	1E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	30	2.6E+02	1.2E+05	1E-07	3E-04		
		1,1-Dichloroethene	100	No value	1.0E+04	-	1E-02		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	5	1.4E+01	4.4E+02	4E-07	1E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	1100	No value	1.2E+03	-	9E-01		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	30	6.7E+01	5.8E+03	4E-07	5E-03		
		Toluene	100	No value	4.4E+04	-	2E-03		
		Trichloroethene (TCE)	3900	1.0E+02	2.9E+02	4E-05	1E+01		
		Vinyl Chloride	50	5.2E+00	1.5E+04	1E-05	3E-03		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG45-5	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-07	2E-02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	6	1.4E+01	4.4E+02	4E-07	1E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	10	6.7E+01	5.8E+03	1E-07	2E-03		
		Toluene	10	No value	4.4E+04	-	2E-04		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SG46-05	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	2E-04
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	7	No value	4.4E+04	-	2E-04		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG46-15	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-06	4E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	20	1.4E+01	4.4E+02	1E-06	5E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	10	1.8E+01	1.4E+04	6E-07	7E-04		
		Chloromethane	3	No value	1.3E+04	-	2E-04		
		cis-1,2-Dichloroethylene	20	No value	1.2E+03	-	2E-02		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		m,p-Xylene	10	No value	1.5E+04	-	7E-04		
		Methylene Chloride	6	4.1E+02	5.8E+04	1E-08	1E-04		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	40	No value	4.4E+04	-	9E-04		
		Trichloroethene (TCE)	100	1.0E+02	2.9E+02	1E-06	3E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SG46-25	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	7E-06	2E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	20	1.4E+01	4.4E+02	1E-06	5E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	10	1.8E+01	1.4E+04	6E-07	7E-04		
		Chloromethane	2	No value	1.3E+04	-	2E-04		
		cis-1,2-Dichloroethylene	10	No value	1.2E+03	-	9E-03		
		Ethylbenzene	5	1.6E+02	1.5E+05	3E-08	3E-05		
		m,p-Xylene	10	No value	1.5E+04	-	7E-04		
		Methylene Chloride	5	4.1E+02	5.8E+04	1E-08	9E-05		
		o-Xylene	5	No value	1.5E+04	-	3E-04		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	10	6.7E+01	5.8E+03	1E-07	2E-03		
		Toluene	60	No value	4.4E+04	-	1E-03		
		Trichloroethene (TCE)	500	1.0E+02	2.9E+02	5E-06	2E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG46-35	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-04	6E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	70	2.6E+02	1.2E+05	3E-07	6E-04		
		1,1-Dichloroethene	90	No value	1.0E+04	-	9E-03		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	30	1.4E+01	4.4E+02	2E-06	7E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	7	No value	1.3E+04	-	5E-04		
		cis-1,2-Dichloroethylene	1900	No value	1.2E+03	-	2E+00		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	5	4.1E+02	5.8E+04	1E-08	9E-05		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	8	6.7E+01	5.8E+03	1E-07	1E-03		
		Toluene	60	No value	4.4E+04	-	1E-03		
		Trichloroethene (TCE)	16000	1.0E+02	2.9E+02	2E-04	5E+01		
		Vinyl Chloride	20	5.2E+00	1.5E+04	4E-06	1E-03		
SAIA-SG47-05	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-07	2E-03
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	7	1.8E+01	1.4E+04	4E-07	5E-04		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	4	4.1E+02	5.8E+04	1E-08	7E-05		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	9	6.7E+01	5.8E+03	1E-07	2E-03		
		Toluene	8	No value	4.4E+04	-	2E-04		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG47-15	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	7E-07	2E-02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	8	1.4E+01	4.4E+02	6E-07	2E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		m,p-Xylene	10	No value	1.5E+04	-	7E-04		
		Methylene Chloride	5	4.1E+02	5.8E+04	1E-08	9E-05		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	10	6.7E+01	5.8E+03	1E-07	2E-03		
		Toluene	80	No value	4.4E+04	-	2E-03		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SAIA-SG47-25	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-06	2E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	20	1.4E+01	4.4E+02	1E-06	5E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	10	1.8E+01	1.4E+04	6E-07	7E-04		
		Chloromethane	3	No value	1.3E+04	-	2E-04		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		m,p-Xylene	10	No value	1.5E+04	-	7E-04		
		Methylene Chloride	6	4.1E+02	5.8E+04	1E-08	1E-04		
		o-Xylene	5	No value	1.5E+04	-	3E-04		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	8	6.7E+01	5.8E+03	1E-07	1E-03		
		Toluene	60	No value	4.4E+04	-	1E-03		
		Trichloroethene (TCE)	40	1.0E+02	2.9E+02	4E-07	1E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG47-35	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-05	3E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	60	1.4E+01	4.4E+02	4E-06	1E-01		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	7	No value	1.2E+03	-	6E-03		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		m,p-Xylene	10	No value	1.5E+04	-	7E-04		
		Methylene Chloride	9	4.1E+02	5.8E+04	2E-08	2E-04		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	10	6.7E+01	5.8E+03	1E-07	2E-03		
		Toluene	600	No value	4.4E+04	-	1E-02		
		Trichloroethene (TCE)	50	1.0E+02	2.9E+02	5E-07	2E-01		
		Vinyl Chloride	30	5.2E+00	1.5E+04	6E-06	2E-03		
SG10-15, P4814cc	15	1,1,1-Trichloroethane	70000	No value	1.5E+05	-	5E-01	4E-01	4E+03
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	380000	2.6E+02	1.2E+05	1E-03	3E+00		
		1,1-Dichloroethene	40000	No value	1.0E+04	-	4E+00		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	4000000	No value	1.2E+03	-	3E+03		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	1900000	5.2E+00	1.5E+04	4E-01	1E+02		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG10-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E+00	3E+03
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	650000	2.6E+02	1.2E+05	3E-03	6E+00		
		1,1-Dichloroethene	86000	No value	1.0E+04	-	8E+00		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	2600000	No value	1.2E+03	-	2E+03		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	6100000	5.2E+00	1.5E+04	1E+00	4E+02		
SG10-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-03	9E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	42000	No value	1.2E+03	-	4E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	16000	1.0E+02	2.9E+02	2E-04	5E+01		
		Vinyl Chloride	9100	5.2E+00	1.5E+04	2E-03	6E-01		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG10-5, P4330cc	5	1,1,1-Trichloroethane	190000	No value	1.5E+05	-	1E+00	1E-01	4E+03
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	250000	2.6E+02	1.2E+05	1E-03	2E+00		
		1,1-Dichloroethene	16000	No value	1.0E+04	-	2E+00		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	1800	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	4400000	No value	1.2E+03	-	4E+03		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	640	No value	1.5E+04	-	4E-02		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	1100	6.7E+01	5.8E+03	2E-05	2E-01		
		Toluene	1500	No value	4.4E+04	-	3E-02		
		trans-1,2-Dichloroethene	52000	No value	1.2E+04	-	4E+00		
		Trichloroethene (TCE)	63000	1.0E+02	2.9E+02	6E-04	2E+02		
		Vinyl Chloride	520000	5.2E+00	1.5E+04	1E-01	4E+01		
SG11-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-06	3E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	21	1.4E+01	4.4E+02	1E-06	5E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	74	No value	1.2E+03	-	6E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	53	1.0E+02	2.9E+02	5E-07	2E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG11-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-05	3E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	590	No value	1.2E+03	-	5E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	70	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	130	6.7E+01	5.8E+03	2E-06	2E-02		
		Toluene	26	No value	4.4E+04	-	6E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	830	1.0E+02	2.9E+02	8E-06	3E+00		
		Vinyl Chloride	21	5.2E+00	1.5E+04	4E-06	1E-03		
SG11-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG11-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-06	8E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	200	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	170	1.0E+02	2.9E+02	2E-06	6E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SG1-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-05	5E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	44	No value	1.2E+03	-	4E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	720	6.7E+01	5.8E+03	1E-05	1E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	100	1.0E+02	2.9E+02	1E-06	3E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG12-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	9E-05	3E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	130	2.6E+02	1.2E+05	5E-07	1E-03		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	32	No value	8.7E+03	-	4E-03		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	57	1.4E+01	4.4E+02	4E-06	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	5200	No value	1.2E+03	-	4E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	32	No value	2.9E+04	-	1E-03		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	36	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	81	6.7E+01	5.8E+03	1E-06	1E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	46	No value	1.2E+04	-	4E-03		
		Trichloroethene (TCE)	8900	1.0E+02	2.9E+02	9E-05	3E+01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SG12-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-04	6E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	160	2.6E+02	1.2E+05	6E-07	1E-03		
		1,1-Dichloroethene	190	No value	1.0E+04	-	2E-02		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	29	No value	8.7E+03	-	3E-03		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	96	1.4E+01	4.4E+02	7E-06	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	6600	No value	1.2E+03	-	6E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	45	No value	1.5E+04	-	3E-03		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	32	No value	1.5E+04	-	2E-03		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	120	6.7E+01	5.8E+03	2E-06	2E-02		
		Toluene	34	No value	4.4E+04	-	8E-04		
		trans-1,2-Dichloroethene	91	No value	1.2E+04	-	8E-03		
		Trichloroethene (TCE)	15000	1.0E+02	2.9E+02	2E-04	5E+01		
		Vinyl Chloride	66	5.2E+00	1.5E+04	1E-05	5E-03		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG12-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-04	4E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	110	2.6E+02	1.2E+05	4E-07	9E-04		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	31	No value	8.7E+03	-	4E-03		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	46	1.4E+01	4.4E+02	3E-06	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	5200	No value	1.2E+03	-	4E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	44	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	80	6.7E+01	5.8E+03	1E-06	1E-02		
		Toluene	23	No value	4.4E+04	-	5E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	9900	1.0E+02	2.9E+02	1E-04	3E+01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SG12-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-04	9E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	15000	No value	1.2E+03	-	1E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	22000	1.0E+02	2.9E+02	2E-04	8E+01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG1-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	8E-04	7E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	250	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	42000	6.7E+01	5.8E+03	6E-04	7E+00		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	18000	1.0E+02	2.9E+02	2E-04	6E+01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SG13-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-05	1E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	44	1.4E+01	4.4E+02	3E-06	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	160	No value	1.2E+03	-	1E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	170	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	3600	6.7E+01	5.8E+03	5E-05	6E-01		
		Toluene	94	No value	4.4E+04	-	2E-03		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	110	1.0E+02	2.9E+02	1E-06	4E-01		
		Vinyl Chloride	35	5.2E+00	1.5E+04	7E-06	2E-03		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG13-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-06	2E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	190	No value	6.0E+06	-	3E-05		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	61	6.7E+01	5.8E+03	9E-07	1E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	43	1.0E+02	2.9E+02	4E-07	1E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SG13-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-05	1E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	72	No value	1.2E+03	-	6E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	65	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	550	6.7E+01	5.8E+03	8E-06	9E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	290	1.0E+02	2.9E+02	3E-06	1E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG13-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-05	9E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	180	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	2900	6.7E+01	5.8E+03	4E-05	5E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	61	1.0E+02	2.9E+02	6E-07	2E-01		
		Vinyl Chloride	53	5.2E+00	1.5E+04	1E-05	4E-03		
SG1-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-04	3E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	1900	No value	1.2E+03	-	2E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	6100	6.7E+01	5.8E+03	9E-05	1E+00		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	8100	1.0E+02	2.9E+02	8E-05	3E+01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG14-15 Rep, P4864cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-07	1E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	30	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	34	No value	4.4E+04	-	8E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	35	1.0E+02	2.9E+02	4E-07	1E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SG14-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG14-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-05	2E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	25	No value	8.7E+03	-	3E-03		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	31	1.4E+01	4.4E+02	2E-06	7E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	230	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	200	No value	1.5E+04	-	1E-02		
		Ethylbenzene	24	1.6E+02	1.5E+05	1E-07	2E-04		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	54	No value	1.5E+04	-	4E-03		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	23	No value	1.5E+04	-	2E-03		
		p-Cymene (p-Isopropyltoluene)	70	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	140	6.7E+01	5.8E+03	2E-06	2E-02		
		Toluene	91	No value	4.4E+04	-	2E-03		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	480	1.0E+02	2.9E+02	5E-06	2E+00		
		Vinyl Chloride	18	5.2E+00	1.5E+04	3E-06	1E-03		
SG14-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-06	2E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	44	No value	1.0E+04	-	4E-03		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	150	No value	1.2E+03	-	1E-01		
		Dichlorodifluoromethane	150	No value	1.5E+04	-	1E-02		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	570	1.0E+02	2.9E+02	6E-06	2E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG14-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-06	4E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	30	No value	1.5E+04	-	2E-03		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	46	6.7E+01	5.8E+03	7E-07	8E-03		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	110	1.0E+02	2.9E+02	1E-06	4E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SG1-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-04	3E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	13000	6.7E+01	5.8E+03	2E-04	2E+00		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	130	1.0E+02	2.9E+02	1E-06	4E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG15-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-05	5E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	110	1.4E+01	4.4E+02	8E-06	3E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	810	6.7E+01	5.8E+03	1E-05	1E-01		
		Toluene	40	No value	4.4E+04	-	9E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	32	1.0E+02	2.9E+02	3E-07	1E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SG15-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-05	2E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	23	1.4E+01	4.4E+02	2E-06	5E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	1600	6.7E+01	5.8E+03	2E-05	3E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	460	1.0E+02	2.9E+02	5E-06	2E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG15-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-05	2E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	1200	6.7E+01	5.8E+03	2E-05	2E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	580	1.0E+02	2.9E+02	6E-06	2E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SG15-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-05	1E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	750	6.7E+01	5.8E+03	1E-05	1E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG16-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-05	5E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	29	1.4E+01	4.4E+02	2E-06	7E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	55	No value	1.2E+03	-	5E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	38	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	820	6.7E+01	5.8E+03	1E-05	1E-01		
		Toluene	35	No value	4.4E+04	-	8E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	72	1.0E+02	2.9E+02	7E-07	2E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SG16-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-05	4E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	72	1.4E+01	4.4E+02	5E-06	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	870	No value	1.2E+03	-	7E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	1100	6.7E+01	5.8E+03	2E-05	2E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	880	1.0E+02	2.9E+02	9E-06	3E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG16-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-05	7E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	610	6.7E+01	5.8E+03	9E-06	1E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	170	1.0E+02	2.9E+02	2E-06	6E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SG16-5 Rep, P4380cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-06	3E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	66	No value	1.2E+03	-	6E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	390	6.7E+01	5.8E+03	6E-06	7E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	49	1.0E+02	2.9E+02	5E-07	2E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG16-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-06	5E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	120	No value	1.2E+03	-	1E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	280	6.7E+01	5.8E+03	4E-06	5E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	110	1.0E+02	2.9E+02	1E-06	4E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SG17-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-06	3E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	38	1.4E+01	4.4E+02	3E-06	9E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	35	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	210	6.7E+01	5.8E+03	3E-06	4E-02		
		Toluene	44	No value	4.4E+04	-	1E-03		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	39	1.0E+02	2.9E+02	4E-07	1E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG17-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-05	6E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	100	1.4E+01	4.4E+02	7E-06	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	270	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	1400	6.7E+01	5.8E+03	2E-05	2E-01		
		Toluene	53	No value	4.4E+04	-	1E-03		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	1700	1.0E+02	2.9E+02	2E-05	6E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SG17-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	8E-05	3E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	130	2.6E+02	1.2E+05	5E-07	1E-03		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	36	1.4E+01	4.4E+02	3E-06	8E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	3000	No value	1.2E+03	-	3E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	480	6.7E+01	5.8E+03	7E-06	8E-02		
		Toluene	19	No value	4.4E+04	-	4E-04		
		trans-1,2-Dichloroethene	69	No value	1.2E+04	-	6E-03		
		Trichloroethene (TCE)	6800	1.0E+02	2.9E+02	7E-05	2E+01		
		Vinyl Chloride	27	5.2E+00	1.5E+04	5E-06	2E-03		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG17-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-06	3E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	190	6.7E+01	5.8E+03	3E-06	3E-02		
		Toluene	27	No value	4.4E+04	-	6E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	82	1.0E+02	2.9E+02	8E-07	3E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SG18-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-06	8E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	82	No value	1.2E+03	-	7E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	200	1.0E+02	2.9E+02	2E-06	7E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG18-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-06	1E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	280	1.0E+02	2.9E+02	3E-06	1E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SG18-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	6E-04
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	25	No value	4.4E+04	-	6E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG18-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	7E-07	2E-01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	65	1.0E+02	2.9E+02	7E-07	2E-01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SG2-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-04	3E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	110	2.6E+02	1.2E+05	4E-07	9E-04		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	41	1.4E+01	4.4E+02	3E-06	9E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	2700	No value	1.2E+03	-	2E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	47	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	4400	6.7E+01	5.8E+03	7E-05	8E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	41	No value	1.2E+04	-	4E-03		
		Trichloroethene (TCE)	8400	1.0E+02	2.9E+02	8E-05	3E+01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG2-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-04	7E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	280	2.6E+02	1.2E+05	1E-06	2E-03		
		1,1-Dichloroethene	320	No value	1.0E+04	-	3E-02		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	6700	No value	1.2E+03	-	6E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	220	6.7E+01	5.8E+03	3E-06	4E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	610	No value	1.2E+04	-	5E-02		
		Trichloroethene (TCE)	18000	1.0E+02	2.9E+02	2E-04	6E+01		
		Vinyl Chloride	73	5.2E+00	1.5E+04	1E-05	5E-03		
SG2-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-03	1E+03
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	8100	2.6E+02	1.2E+05	3E-05	7E-02		
		1,1-Dichloroethene	1300	No value	1.0E+04	-	1E-01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	75	1.6E+01	1.0E+03	5E-06	7E-02		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	75	1.4E+01	4.4E+02	5E-06	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	360000	No value	1.2E+03	-	3E+02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	610	6.7E+01	5.8E+03	9E-06	1E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	7700	No value	1.2E+04	-	7E-01		
		Trichloroethene (TCE)	280000	1.0E+02	2.9E+02	3E-03	1E+03		
		Vinyl Chloride	2500	5.2E+00	1.5E+04	5E-04	2E-01		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG2-5 Rep, P5580cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	7E-05	9E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	790	No value	1.2E+03	-	7E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	3200	6.7E+01	5.8E+03	5E-05	5E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	2400	1.0E+02	2.9E+02	2E-05	8E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SG2-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	7E-05	8E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	1600	No value	1.2E+03	-	1E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	3400	6.7E+01	5.8E+03	5E-05	6E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	1700	1.0E+02	2.9E+02	2E-05	6E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG3-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-04	2E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	8400	No value	1.2E+03	-	7E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	3900	1.0E+02	2.9E+02	4E-05	1E+01		
		Vinyl Chloride	610	5.2E+00	1.5E+04	1E-04	4E-02		
SG3-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-02	4E+02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	16000	2.6E+02	1.2E+05	6E-05	1E-01		
		1,1-Dichloroethene	3400	No value	1.0E+04	-	3E-01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	130000	No value	1.2E+03	-	1E+02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	3200	No value	4.4E+04	-	7E-02		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	89000	1.0E+02	2.9E+02	9E-04	3E+02		
		Vinyl Chloride	75000	5.2E+00	1.5E+04	1E-02	5E+00		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG3-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-01	3E+04
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	190000	2.6E+02	1.2E+05	7E-04	2E+00		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	4900000	No value	1.2E+03	-	4E+03		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	7800000	1.0E+02	2.9E+02	8E-02	3E+04		
		Vinyl Chloride	130000	5.2E+00	1.5E+04	2E-02	9E+00		
SG3-5 Rep, P4380cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-02	1E+03
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	21000	2.6E+02	1.2E+05	8E-05	2E-01		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	6100	No value	8.7E+03	-	7E-01		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	330000	No value	1.2E+03	-	3E+02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	4800	No value	1.5E+04	-	3E-01		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	3400	No value	1.5E+04	-	2E-01		
		p-Cymene (p-Isopropyltoluene)	7800	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	2900	No value	4.4E+04	-	7E-02		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	270000	1.0E+02	2.9E+02	3E-03	9E+02		
		Vinyl Chloride	91000	5.2E+00	1.5E+04	2E-02	6E+00		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG3-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-02	7E+02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	17000	2.6E+02	1.2E+05	7E-05	1E-01		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	4300	No value	8.7E+03	-	5E-01		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	210000	No value	1.2E+03	-	2E+02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	3200	No value	1.5E+04	-	2E-01		
		p-Cymene (p-Isopropyltoluene)	4400	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	2500	No value	4.4E+04	-	6E-02		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	140000	1.0E+02	2.9E+02	1E-03	5E+02		
		Vinyl Chloride	88000	5.2E+00	1.5E+04	2E-02	6E+00		
SG4-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-03	5E+02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	2800	2.6E+02	1.2E+05	1E-05	2E-02		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	13000	No value	1.2E+03	-	1E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	8200	6.7E+01	5.8E+03	1E-04	1E+00		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	130000	1.0E+02	2.9E+02	1E-03	4E+02		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG4-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-03	1E+03
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	11000	2.6E+02	1.2E+05	4E-05	9E-02		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	77000	No value	1.2E+03	-	7E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	5300	6.7E+01	5.8E+03	8E-05	9E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	2100	No value	1.2E+04	-	2E-01		
		Trichloroethene (TCE)	310000	1.0E+02	2.9E+02	3E-03	1E+03		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SG4-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	8E-03	3E+03
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	23000	2.6E+02	1.2E+05	9E-05	2E-01		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	650000	No value	1.2E+03	-	6E+02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	11000	No value	1.2E+04	-	9E-01		
		Trichloroethene (TCE)	650000	1.0E+02	2.9E+02	7E-03	2E+03		
		Vinyl Chloride	6300	5.2E+00	1.5E+04	1E-03	4E-01		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG4-5, P4330cc	5	1,1,1-Trichloroethane	160	No value	1.5E+05	-	1E-03	1E-03	5E+02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	1900	2.6E+02	1.2E+05	7E-06	2E-02		
		1,1-Dichloroethene	120	No value	1.0E+04	-	1E-02		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	79	No value	8.7E+03	-	9E-03		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	70	1.4E+01	4.4E+02	5E-06	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	120	1.8E+01	1.4E+04	7E-06	8E-03		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	40000	No value	1.2E+03	-	3E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	26	1.6E+02	1.5E+05	2E-07	2E-04		
		Isopropylbenzene (Cumene)	54	No value	6.0E+04	-	9E-04		
		m,p-Xylene	53	No value	1.5E+04	-	4E-03		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	32	No value	1.5E+04	-	2E-03		
		p-Cymene (p-Isopropyltoluene)	100	No value	No value	-	-		
		sec-Butylbenzene	96	No value	5.8E+04	-	2E-03		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	6700	6.7E+01	5.8E+03	1E-04	1E+00		
		Toluene	44	No value	4.4E+04	-	1E-03		
		trans-1,2-Dichloroethene	260	No value	1.2E+04	-	2E-02		
		Trichloroethene (TCE)	130000	1.0E+02	2.9E+02	1E-03	4E+02		
		Vinyl Chloride	390	5.2E+00	1.5E+04	7E-05	3E-02		
SG5-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-05	9E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	70	1.4E+01	4.4E+02	5E-06	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	80	No value	1.2E+03	-	7E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	770	6.7E+01	5.8E+03	1E-05	1E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	2500	1.0E+02	2.9E+02	3E-05	9E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG5-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-04	4E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	30	No value	1.0E+04	-	3E-03		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	170	1.4E+01	4.4E+02	1E-05	4E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	200	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	130	6.7E+01	5.8E+03	2E-06	2E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	83	No value	1.2E+04	-	7E-03		
		Trichloroethene (TCE)	11000	1.0E+02	2.9E+02	1E-04	4E+01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SG5-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-04	7E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	810	No value	1.2E+03	-	7E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	20000	1.0E+02	2.9E+02	2E-04	7E+01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG5-5 Rep, P4380cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-05	4E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	240	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	970	6.7E+01	5.8E+03	1E-05	2E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	1200	1.0E+02	2.9E+02	1E-05	4E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SG5-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-05	4E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	210	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	990	6.7E+01	5.8E+03	1E-05	2E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	1200	1.0E+02	2.9E+02	1E-05	4E+00		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG6-15, 1PV, P481cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-05	2E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	44	No value	8.7E+03	-	5E-03		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	1800	No value	1.2E+03	-	2E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	32	1.2E+01	4.3E+02	3E-06	7E-02		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	51	No value	No value	-	-		
		sec-Butylbenzene	29	No value	5.8E+04	-	5E-04		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	110	5.2E+00	1.5E+04	2E-05	8E-03		
SG6-15, 3PV, P1443cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-04	3E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	39	No value	1.0E+04	-	4E-03		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	34	No value	8.7E+03	-	4E-03		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	3800	No value	1.2E+03	-	3E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	44	No value	2.9E+04	-	2E-03		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	29	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	43	1.0E+02	2.9E+02	4E-07	1E-01		
		Vinyl Chloride	500	5.2E+00	1.5E+04	1E-04	3E-02		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG6-25, 10PV, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-02	4E+02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	1900	2.6E+02	1.2E+05	7E-06	2E-02		
		1,1-Dichloroethene	6800	No value	1.0E+04	-	7E-01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	320	No value	8.7E+03	-	4E-02		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	530	1.4E+01	4.4E+02	4E-05	1E+00		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	470000	No value	1.2E+03	-	4E+02		
		Dichlorodifluoromethane	270	No value	1.5E+04	-	2E-02		
		Ethylbenzene	89	1.6E+02	1.5E+05	5E-07	6E-04		
		Isopropylbenzene (Cumene)	100	No value	6.0E+04	-	2E-03		
		m,p-Xylene	220	No value	1.5E+04	-	2E-02		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	120	No value	1.5E+04	-	8E-03		
		p-Cymene (p-Isopropyltoluene)	250	No value	No value	-	-		
		sec-Butylbenzene	180	No value	5.8E+04	-	3E-03		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	61	6.7E+01	5.8E+03	9E-07	1E-02		
		Toluene	110	No value	4.4E+04	-	3E-03		
		trans-1,2-Dichloroethene	4300	No value	1.2E+04	-	4E-01		
		Trichloroethene (TCE)	2600	1.0E+02	2.9E+02	3E-05	9E+00		
		Vinyl Chloride	130000	5.2E+00	1.5E+04	2E-02	9E+00		
SG6-25, 1PV, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG6-25, 3PV, P1590cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-02	4E+02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	890	2.6E+02	1.2E+05	3E-06	8E-03		
		1,1-Dichloroethene	2900	No value	1.0E+04	-	3E-01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	160	No value	8.7E+03	-	2E-02		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	170	1.4E+01	4.4E+02	1E-05	4E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	430000	No value	1.2E+03	-	4E+02		
		Dichlorodifluoromethane	85	No value	1.5E+04	-	6E-03		
		Ethylbenzene	50	1.6E+02	1.5E+05	3E-07	3E-04		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	160	No value	1.5E+04	-	1E-02		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	71	No value	1.5E+04	-	5E-03		
		p-Cymene (p-Isopropyltoluene)	120	No value	No value	-	-		
		sec-Butylbenzene	83	No value	5.8E+04	-	1E-03		
		tert-Butylbenzene	64	No value	5.8E+04	-	1E-03		
		Tetrachloroethene (PCE)	78	6.7E+01	5.8E+03	1E-06	1E-02		
		Toluene	110	No value	4.4E+04	-	3E-03		
		trans-1,2-Dichloroethene	1900	No value	1.2E+04	-	2E-01		
		Trichloroethene (TCE)	3200	1.0E+02	2.9E+02	3E-05	1E+01		
		Vinyl Chloride	120000	5.2E+00	1.5E+04	2E-02	8E+00		
SG6-35, 10PV, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-03	2E+02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	620	2.6E+02	1.2E+05	2E-06	5E-03		
		1,1-Dichloroethene	3300	No value	1.0E+04	-	3E-01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	65	No value	8.7E+03	-	8E-03		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	140	5.3E+01	4.3E+03	3E-06	3E-02		
		Benzene	80	1.4E+01	4.4E+02	6E-06	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	66000	No value	1.2E+03	-	6E+01		
		Dichlorodifluoromethane	240	No value	1.5E+04	-	2E-02		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	25	No value	1.5E+04	-	2E-03		
		p-Cymene (p-Isopropyltoluene)	80	No value	No value	-	-		
		sec-Butylbenzene	83	No value	5.8E+04	-	1E-03		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	20	No value	4.4E+04	-	5E-04		
		trans-1,2-Dichloroethene	2400	No value	1.2E+04	-	2E-01		
		Trichloroethene (TCE)	33000	1.0E+02	2.9E+02	3E-04	1E+02		
		Vinyl Chloride	7300	5.2E+00	1.5E+04	1E-03	5E-01		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG6-35, 1PV, P581cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-03	1E+02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	710	2.6E+02	1.2E+05	3E-06	6E-03		
		1,1-Dichloroethene	3600	No value	1.0E+04	-	4E-01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	100	No value	8.7E+03	-	1E-02		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	150	5.3E+01	4.3E+03	3E-06	3E-02		
		Benzene	100	1.4E+01	4.4E+02	7E-06	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	57000	No value	1.2E+03	-	5E+01		
		Dichlorodifluoromethane	270	No value	1.5E+04	-	2E-02		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	78	1.2E+01	4.3E+02	7E-06	2E-01		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	29	No value	1.5E+04	-	2E-03		
		p-Cymene (p-Isopropyltoluene)	130	No value	No value	-	-		
		sec-Butylbenzene	110	No value	5.8E+04	-	2E-03		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	31	No value	4.4E+04	-	7E-04		
		trans-1,2-Dichloroethene	2700	No value	1.2E+04	-	2E-01		
		Trichloroethene (TCE)	28000	1.0E+02	2.9E+02	3E-04	1E+02		
		Vinyl Chloride	8900	5.2E+00	1.5E+04	2E-03	6E-01		
SG6-35, 3PV, P1742cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-03	1E+02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	530	2.6E+02	1.2E+05	2E-06	5E-03		
		1,1-Dichloroethene	2700	No value	1.0E+04	-	3E-01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	58	No value	8.7E+03	-	7E-03		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	100	5.3E+01	4.3E+03	2E-06	2E-02		
		Benzene	81	1.4E+01	4.4E+02	6E-06	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	41000	No value	1.2E+03	-	4E+01		
		Dichlorodifluoromethane	230	No value	1.5E+04	-	2E-02		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	46	1.2E+01	4.3E+02	4E-06	1E-01		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	51	No value	No value	-	-		
		sec-Butylbenzene	74	No value	5.8E+04	-	1E-03		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	24	No value	4.4E+04	-	5E-04		
		trans-1,2-Dichloroethene	2000	No value	1.2E+04	-	2E-01		
		Trichloroethene (TCE)	21000	1.0E+02	2.9E+02	2E-04	7E+01		
		Vinyl Chloride	4900	5.2E+00	1.5E+04	9E-04	3E-01		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG6-5, 10PV, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-03	4E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	270	2.6E+02	1.2E+05	1E-06	2E-03		
		1,1-Dichloroethene	61	No value	1.0E+04	-	6E-03		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	710	No value	8.7E+03	-	8E-02		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	36	1.4E+01	4.4E+02	3E-06	8E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	1800	No value	1.2E+03	-	2E+00		
		Dichlorodifluoromethane	45	No value	1.5E+04	-	3E-03		
		Ethylbenzene	180	1.6E+02	1.5E+05	1E-06	1E-03		
		Isopropylbenzene (Cumene)	150	No value	6.0E+04	-	3E-03		
		m,p-Xylene	680	No value	1.5E+04	-	5E-02		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	570	No value	2.9E+04	-	2E-02		
		o-Xylene	360	No value	1.5E+04	-	2E-02		
		p-Cymene (p-Isopropyltoluene)	380	No value	No value	-	-		
		sec-Butylbenzene	280	No value	5.8E+04	-	5E-03		
		tert-Butylbenzene	290	No value	5.8E+04	-	5E-03		
		Tetrachloroethene (PCE)	240	6.7E+01	5.8E+03	4E-06	4E-02		
		Toluene	110	No value	4.4E+04	-	3E-03		
		trans-1,2-Dichloroethene	65	No value	1.2E+04	-	6E-03		
		Trichloroethene (TCE)	480	1.0E+02	2.9E+02	5E-06	2E+00		
		Vinyl Chloride	7000	5.2E+00	1.5E+04	1E-03	5E-01		
SG6-5, 1PV, P433cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	9E-04	4E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	250	2.6E+02	1.2E+05	1E-06	2E-03		
		1,1-Dichloroethene	68	No value	1.0E+04	-	7E-03		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	590	No value	8.7E+03	-	7E-02		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	36	1.4E+01	4.4E+02	3E-06	8E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	1800	No value	1.2E+03	-	2E+00		
		Dichlorodifluoromethane	47	No value	1.5E+04	-	3E-03		
		Ethylbenzene	190	1.6E+02	1.5E+05	1E-06	1E-03		
		Isopropylbenzene (Cumene)	130	No value	6.0E+04	-	2E-03		
		m,p-Xylene	660	No value	1.5E+04	-	5E-02		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	350	No value	2.9E+04	-	1E-02		
		o-Xylene	330	No value	1.5E+04	-	2E-02		
		p-Cymene (p-Isopropyltoluene)	310	No value	No value	-	-		
		sec-Butylbenzene	230	No value	5.8E+04	-	4E-03		
		tert-Butylbenzene	220	No value	5.8E+04	-	4E-03		
		Tetrachloroethene (PCE)	220	6.7E+01	5.8E+03	3E-06	4E-02		
		Toluene	120	No value	4.4E+04	-	3E-03		
		trans-1,2-Dichloroethene	67	No value	1.2E+04	-	6E-03		
		Trichloroethene (TCE)	560	1.0E+02	2.9E+02	6E-06	2E+00		
		Vinyl Chloride	4900	5.2E+00	1.5E+04	9E-04	3E-01		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG6-5, 3PV, P1299cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-03	3E+00
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	220	2.6E+02	1.2E+05	9E-07	2E-03		
		1,1-Dichloroethene	44	No value	1.0E+04	-	4E-03		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	540	No value	8.7E+03	-	6E-02		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	43	1.4E+01	4.4E+02	3E-06	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	1500	No value	1.2E+03	-	1E+00		
		Dichlorodifluoromethane	33	No value	1.5E+04	-	2E-03		
		Ethylbenzene	160	1.6E+02	1.5E+05	1E-06	1E-03		
		Isopropylbenzene (Cumene)	130	No value	6.0E+04	-	2E-03		
		m,p-Xylene	570	No value	1.5E+04	-	4E-02		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	350	No value	2.9E+04	-	1E-02		
		o-Xylene	300	No value	1.5E+04	-	2E-02		
		p-Cymene (p-Isopropyltoluene)	280	No value	No value	-	-		
		sec-Butylbenzene	220	No value	5.8E+04	-	4E-03		
		tert-Butylbenzene	210	No value	5.8E+04	-	4E-03		
		Tetrachloroethene (PCE)	190	6.7E+01	5.8E+03	3E-06	3E-02		
		Toluene	110	No value	4.4E+04	-	3E-03		
		trans-1,2-Dichloroethene	62	No value	1.2E+04	-	5E-03		
		Trichloroethene (TCE)	440	1.0E+02	2.9E+02	4E-06	2E+00		
		Vinyl Chloride	5000	5.2E+00	1.5E+04	1E-03	3E-01		
SG7-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	7E-05	2E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	89	1.4E+01	4.4E+02	6E-06	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	600	No value	1.2E+03	-	5E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	23	No value	4.4E+04	-	5E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	6100	1.0E+02	2.9E+02	6E-05	2E+01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG7-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-03	4E+02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	1300	2.6E+02	1.2E+05	5E-06	1E-02		
		1,1-Dichloroethene	280	No value	1.0E+04	-	3E-02		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	120	1.4E+01	4.4E+02	9E-06	3E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	24000	No value	1.2E+03	-	2E+01		
		Dichlorodifluoromethane	34	No value	1.5E+04	-	2E-03		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	90	6.7E+01	5.8E+03	1E-06	2E-02		
		Toluene	27	No value	4.4E+04	-	6E-04		
		trans-1,2-Dichloroethene	630	No value	1.2E+04	-	5E-02		
		Trichloroethene (TCE)	120000	1.0E+02	2.9E+02	1E-03	4E+02		
		Vinyl Chloride	130	5.2E+00	1.5E+04	2E-05	9E-03		
SG7-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-03	1E+03
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	5400	2.6E+02	1.2E+05	2E-05	5E-02		
		1,1-Dichloroethene	4100	No value	1.0E+04	-	4E-01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	200000	No value	1.2E+03	-	2E+02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	7300	No value	1.2E+04	-	6E-01		
		Trichloroethene (TCE)	340000	1.0E+02	2.9E+02	3E-03	1E+03		
		Vinyl Chloride	6800	5.2E+00	1.5E+04	1E-03	5E-01		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG7-5 Rep, P4380cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-04	6E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	2200	No value	1.2E+03	-	2E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	18000	1.0E+02	2.9E+02	2E-04	6E+01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		
SG7-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-04	5E+01
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	0	2.6E+02	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	6300	No value	1.2E+03	-	5E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	12000	1.0E+02	2.9E+02	1E-04	4E+01		
		Vinyl Chloride	0	5.2E+00	1.5E+04	-	-		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG8-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-01	5E+03
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	180000	2.6E+02	1.2E+05	7E-04	2E+00		
		1,1-Dichloroethene	14000	No value	1.0E+04	-	1E+00		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	2400000	No value	1.2E+03	-	2E+03		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	880000	1.0E+02	2.9E+02	9E-03	3E+03		
		Vinyl Chloride	480000	5.2E+00	1.5E+04	9E-02	3E+01		
SG8-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	8E-02	4E+03
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	130000	2.6E+02	1.2E+05	5E-04	1E+00		
		1,1-Dichloroethene	23000	No value	1.0E+04	-	2E+00		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	4000000	No value	1.2E+03	-	3E+03		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	85000	1.0E+02	2.9E+02	9E-04	3E+02		
		Vinyl Chloride	400000	5.2E+00	1.5E+04	8E-02	3E+01		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG8-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-02	5E+03
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	110000	2.6E+02	1.2E+05	4E-04	9E-01		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	3100000	No value	1.2E+03	-	3E+03		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	65000	No value	1.2E+04	-	6E+00		
		Trichloroethene (TCE)	770000	1.0E+02	2.9E+02	8E-03	3E+03		
		Vinyl Chloride	200000	5.2E+00	1.5E+04	4E-02	1E+01		
SG8-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	9E-02	2E+02
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	83000	2.6E+02	1.2E+05	3E-04	7E-01		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	230000	No value	1.2E+03	-	2E+02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.0E+02	2.9E+02	-	-		
		Vinyl Chloride	450000	5.2E+00	1.5E+04	9E-02	3E+01		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG9-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-02	1E+04
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	240000	2.6E+02	1.2E+05	9E-04	2E+00		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	1800000	No value	1.2E+03	-	2E+03		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	3200000	1.0E+02	2.9E+02	3E-02	1E+04		
		Vinyl Chloride	51000	5.2E+00	1.5E+04	1E-02	3E+00		
SG9-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	7E-02	2E+04
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	420000	2.6E+02	1.2E+05	2E-03	4E+00		
		1,1-Dichloroethene	140000	No value	1.0E+04	-	1E+01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	9100000	No value	1.2E+03	-	8E+03		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	45000	No value	2.9E+04	-	2E+00		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	63000	No value	1.2E+04	-	5E+00		
		Trichloroethene (TCE)	3000000	1.0E+02	2.9E+02	3E-02	1E+04		
		Vinyl Chloride	200000	5.2E+00	1.5E+04	4E-02	1E+01		

Table 6-8a
Risk Characterization (Soil Gas), Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG9-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-01	3E+04
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	1700	2.6E+01	2.9E+01	7E-05	6E+01		
		1,1-Dichloroethane	170000	2.6E+02	1.2E+05	7E-04	1E+00		
		1,1-Dichloroethene	30000	No value	1.0E+04	-	3E+00		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	900	1.6E+01	1.0E+03	6E-05	9E-01		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	850	1.4E+01	4.4E+02	6E-05	2E+00		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	8400000	No value	1.2E+03	-	7E+03		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	580	1.6E+02	1.5E+05	4E-06	4E-03		
		Isopropylbenzene (Cumene)	890	No value	6.0E+04	-	1E-02		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	1900	No value	2.9E+04	-	7E-02		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	780	No value	No value	-	-		
		sec-Butylbenzene	1000	No value	5.8E+04	-	2E-02		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	5200	6.7E+01	5.8E+03	8E-05	9E-01		
		Toluene	990	No value	4.4E+04	-	2E-02		
		trans-1,2-Dichloroethene	29000	No value	1.2E+04	-	2E+00		
		Trichloroethene (TCE)	6600000	1.0E+02	2.9E+02	7E-02	2E+04		
		Vinyl Chloride	300000	5.2E+00	1.5E+04	6E-02	2E+01		
SG9-5, P4330cc	5	1,1,1-Trichloroethane	100000	No value	1.5E+05	-	7E-01	8E-02	2E+04
		1,1,2,2-Tetrachloroethane	0	7.0E+00	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	2.6E+01	2.9E+01	-	-		
		1,1-Dichloroethane	430000	2.6E+02	1.2E+05	2E-03	4E+00		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	5.6E+01	4.7E+02	-	-		
		1,2-Dichloroethane	0	1.6E+01	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	3.7E+01	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	5.3E+01	4.3E+03	-	-		
		Benzene	0	1.4E+01	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	1.8E+01	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	3700000	No value	1.2E+03	-	3E+03		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	1.6E+02	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	4.1E+02	5.8E+04	-	-		
		Naphthalene	0	1.2E+01	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	5.8E+04	-	-		
		Tetrachloroethene (PCE)	0	6.7E+01	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	5800000	1.0E+02	2.9E+02	6E-02	2E+04		
		Vinyl Chloride	93000	5.2E+00	1.5E+04	2E-02	6E+00		

Notes:

* Tentatively identified compound (TIC): concentration listed only for those samples where tentatively identified.

Table 6-8b
Soil Exposure Point Concentrations and Risk Values, Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Soil COPC	Commercial/Industrial Receptor Concentrations (mg/kg) in 0 to 2 ft bgs samples*			Soil RBCs (mg/kg) (from Table 6-6a)		Risk Values based on 95% UCL		Risk Values based on Maximum	
	Mean	95% UCL	Maximum	Cancer	Noncancer	ILCR	HQ	ILCR	HQ
1,1,1-Trichloroethane	6.2E-03	2.7E-02	2.4E-01	No value	1.7E+03	-	2E-05	-	1E-04
1,1,2,2-Tetrachloroethane	1.5E-05	8.0E-05	7.5E-04	6.0E-01	7.0E+02	1E-10	1E-07	1E-09	1E-06
1,1,2-Trichloro-1,2,2-trifluoroethane	1.4E-05	7.6E-05	7.1E-04	No value	2.8E+04	-	3E-09	-	3E-08
1,1,2-Trichloroethane	2.6E-03	1.2E-02	1.1E-01	5.0E+00	6.3E+00	2E-09	2E-03	2E-08	2E-02
1,1-Dichloroethane	5.8E-04	1.8E-03	9.7E-03	3.6E+00	1.6E+03	5E-10	1E-06	3E-09	6E-06
1,2,3-Trichlorobenzene	1.3E-04	7.1E-04	6.6E-03	No value	4.0E+01	-	2E-05	-	2E-04
1,2,4-Trichlorobenzene	9.6E-04	5.1E-03	4.8E-02	1.1E+02	2.6E+02	5E-11	2E-05	4E-10	2E-04
1,2-Dibromo-3-chloropropane	1.5E-05	8.2E-05	7.6E-04	6.4E-02	2.5E+01	1E-09	3E-06	1E-08	3E-05
1,2-Dibromoethane (EDB)	1.4E-05	7.6E-05	7.1E-04	1.6E-01	3.3E+02	5E-10	2E-07	4E-09	2E-06
1,2-Dichloroethane	1.4E-05	7.4E-05	6.9E-04	2.0E+00	1.4E+02	4E-11	5E-07	3E-10	5E-06
2-Methylnaphthalene	3.1E-01	8.0E-01	4.5E+00	No value	3.0E+03	-	3E-04	-	2E-03
Acenaphthene	6.8E-03	2.8E-02	2.2E-01	No value	4.5E+04	-	6E-07	-	5E-06
Acetone	8.0E-03	3.2E-02	2.6E-01	No value	6.7E+05	-	5E-08	-	4E-07
Anthracene	Not detected in 0 to 2 ft bgs depth interval in on-site samples			No value	2.3E+05	-	-	-	-
Antimony	3.6E+00	9.1E+00	6.4E+01	No value	4.7E+02	-	2E-02	-	1E-01
Benzene	1.2E-05	6.7E-05	6.2E-04	3.3E-01	1.1E+01	2E-10	6E-06	2E-09	6E-05
Benzo(a)anthracene	3.0E-03	1.2E-02	8.5E-02	2.1E+01	No value	6E-10	-	4E-09	-
Benzo(a)pyrene	9.2E-03	2.7E-02	1.3E-01	2.1E+00	2.2E+02	1E-08	1E-04	6E-08	6E-04
Benzo(b)fluoranthene	8.8E-04	4.7E-03	4.4E-02	2.1E+01	No value	2E-10	-	2E-09	-
Benzo(g,h,i)perylene	1.0E-02	2.9E-02	1.2E-01	No value	No value	-	-	-	-
Benzo(k)fluoranthene	6.8E-03	2.2E-02	1.2E-01	2.1E+02	No value	1E-10	-	6E-10	-
Biphenyl (Diphenyl)	1.2E-02	4.5E-02	2.8E-01	4.1E+02	2.0E+02	1E-10	2E-04	7E-10	1E-03
bis(2-Ethylhexyl) Phthalate	5.7E-03	2.1E-02	1.5E-01	1.6E+02	1.6E+04	1E-10	1E-06	9E-10	9E-06
Bromodichloromethane	2.0E-05	1.1E-04	1.0E-03	2.8E-01	2.7E+02	4E-10	4E-07	4E-09	4E-06
Bromoform	1.4E-05	7.3E-05	6.8E-04	1.8E+01	5.3E+02	4E-12	1E-07	4E-11	1E-06
Cadmium	1.9E+00	5.8E+00	4.1E+01	9.1E+02	5.2E+00	6E-09	1E+00	4E-08	8E+00
Carbazole	Not detected in 0 to 2 ft bgs depth interval in on-site samples			No value	No value	-	-	-	-
Carbon Disulfide	1.4E-05	7.4E-05	6.9E-04	No value	3.5E+03	-	2E-08	-	2E-07
Carbon Tetrachloride	3.3E-05	1.3E-04	9.5E-04	9.8E-02	5.2E+01	1E-09	3E-06	1E-08	2E-05
Chloroform	1.7E-04	9.3E-04	8.7E-03	1.4E+00	1.0E+03	7E-10	9E-07	6E-09	9E-06
Chrysene	1.0E-02	2.9E-02	1.2E-01	2.1E+03	No value	1E-11	-	6E-11	-
cis-1,2-Dichloroethylene	3.4E-02	1.4E-01	1.2E+00	No value	1.8E+01	-	8E-03	-	7E-02
cis-1,3-Dichloropropene	Not detected in 0 to 2 ft bgs depth interval in on-site samples			5.8E-01	7.2E+01	0E+00	-	-	-
Cobalt	1.3E+01	1.8E+01	2.0E+02	1.9E+03	3.5E+02	1E-08	5E-02	1E-07	6E-01
Copper	2.4E+02	6.3E+02	4.4E+03	No value	4.7E+04	-	1E-02	-	9E-02
Cyclohexane	2.4E-05	1.3E-04	1.2E-03	No value	2.7E+04	-	5E-09	-	4E-08
Dibenz(a,h)anthracene	Not detected in 0 to 2 ft bgs depth interval in on-site samples			2.1E+00	No value	0E+00	-	-	-

Table 6-8b
Soil Exposure Point Concentrations and Risk Values, Commercial/Industrial Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Soil COPC	Commercial/Industrial Receptor Concentrations (mg/kg) in 0 to 2 ft bgs samples*			Soil RBCs (mg/kg) (from Table 6-6a)		Risk Values based on 95% UCL		Risk Values based on Maximum	
	Mean	95% UCL	Maximum	Cancer	Noncancer	ILCR	HQ	ILCR	HQ
Dibenzofuran	Not detected in 0 to 2 ft bgs depth interval in on-site samples			No value	1.0E+03	-	-	-	-
Diethyl Phthalate	Not detected in 0 to 2 ft bgs depth interval in on-site samples			No value	6.6E+05	-	-	-	-
Dimethyl Phthalate	Not detected in 0 to 2 ft bgs depth interval in on-site samples			No value	No value	-	-	-	-
Di-n-Butyl Phthalate	6.6E-03	2.0E-02	1.0E-01	No value	8.2E+04	-	2E-07	-	1E-06
Ethylbenzene	2.4E-03	1.1E-02	9.6E-02	2.5E+01	2.0E+04	4E-10	5E-07	4E-09	5E-06
Fluoranthene	1.3E-02	3.5E-02	1.4E-01	No value	3.0E+04	-	1E-06	-	5E-06
Fluorene	4.4E-02	1.4E-01	8.6E-01	No value	3.0E+04	-	5E-06	-	3E-05
Indeno(1,2,3-c,d)pyrene	2.9E-03	1.2E-02	8.6E-02	2.1E+01	No value	6E-10	-	4E-09	-
Isopropylbenzene (Cumene)	2.2E-03	1.0E-02	8.9E-02	No value	9.9E+03	-	1E-06	-	9E-06
Lead	1.8E+02	4.2E+02	2.6E+03	No value	3.2E+02	95% UCL and Maximum > Soil Lead Level			
m,p-Xylene	5.4E-03	2.2E-02	1.9E-01	No value	2.5E+03	-	9E-06	-	8E-05
Manganese	3.8E+02	4.3E+02	1.9E+03	No value	1.1E+03	-	4E-01	-	2E+00
Methyl Acetate	7.0E-04	1.9E-03	9.7E-03	No value	2.4E+04	-	8E-08	-	4E-07
Methylcyclohexane	1.2E-04	3.9E-04	2.7E-03	No value	5.5E+03	-	7E-08	-	5E-07
Naphthalene	7.9E-02	2.3E-01	1.5E+00	1.7E+01	5.9E+02	1E-08	4E-04	9E-08	3E-03
Nickel	3.9E+01	8.4E+01	5.9E+02	1.5E+04	4.9E+02	6E-09	2E-01	4E-08	1E+00
o-Xylene	4.7E-03	2.0E-02	1.7E-01	No value	2.8E+03	-	7E-06	-	6E-05
PCB-1248 (Aroclor 1248)	5.4E-01	2.6E+00	2.4E+01	9.5E-01	No value	3E-06	-	3E-05	-
PCB-1254 (Aroclor 1254)	1.8E-02	5.5E-02	3.2E-01	9.7E-01	1.5E+01	6E-08	4E-03	3E-07	2E-02
PCB-1260 (Aroclor 1260)	3.2E-01	1.2E+00	7.3E+00	9.9E-01	No value	1E-06	-	7E-06	-
Phenanthrene	1.6E-01	4.7E-01	2.9E+00	No value	No value	-	-	-	-
Phenol	Not detected in 0 to 2 ft bgs depth interval in on-site samples			No value	2.5E+05	-	-	-	-
Pyrene	1.5E-02	4.2E-02	1.8E-01	No value	2.3E+04	-	2E-06	-	8E-06
tert-Butyl Methyl Ether (MTBE)	1.5E-05	8.2E-05	7.6E-04	2.1E+02	6.4E+04	4E-13	1E-09	4E-12	1E-08
Tetrachloroethene (PCE)	8.3E-03	3.7E-02	3.3E-01	5.9E-01	8.1E+01	6E-08	5E-04	6E-07	4E-03
Thallium	2.1E-01	1.1E+00	1.3E+01	No value	1.2E+01	-	9E-02	-	1E+00
Toluene	1.2E-03	6.2E-03	5.7E-02	No value	1.1E+03	-	6E-06	-	5E-05
trans-1,3-Dichloropropene	4.0E-05	2.1E-04	2.0E-03	5.8E-01	7.2E+01	4E-10	3E-06	3E-09	3E-05
Trichloroethene (TCE)	7.4E-01	3.5E+00	3.2E+01	6.0E+00	1.9E+01	6E-07	2E-01	5E-06	2E+00
Trichlorofluoromethane	1.5E-05	7.8E-05	7.3E-04	No value	1.2E+03	-	6E-08	-	6E-07
Vinyl Chloride	1.7E-05	9.0E-05	8.4E-04	8.7E-03	7.0E+01	1E-08	1E-06	1E-07	1E-05
Cumulative Risk Values =>						**5E-06**	**2E+00**	**4E-05**	**1E+01**

Notes:

* All concentrations are in units of milligrams per kilogram (mg/kg) on a dry weight basis

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-19-15, P913cc	15	1,1,1-Trichloroethane	64	No value	1.5E+05	-	4E-04	2E-04	1E+02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	1700	3.2E+03	1.2E+05	5E-07	1E-02		
		1,1-Dichloroethene	85	No value	1.0E+04	-	8E-03		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	43	No value	8.7E+03	-	5E-03		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	350	1.8E+02	4.4E+02	2E-06	8E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	5300	No value	1.2E+03	-	5E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	100	2.0E+03	1.5E+05	5E-08	7E-04		
		Isopropylbenzene (Cumene)	43	No value	6.0E+04	-	7E-04		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	34	No value	2.9E+04	-	1E-03		
		o-Xylene	150	No value	1.5E+04	-	1E-02		
		p-Cymene (p-Isopropyltoluene)	43	No value	No value	-	-		
		sec-Butylbenzene	56	No value	5.8E+04	-	1E-03		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	1200	8.4E+02	5.8E+03	1E-06	2E-01		
		Toluene	210	No value	4.4E+04	-	5E-03		
		trans-1,2-Dichloroethene	500	No value	1.2E+04	-	4E-02		
		Trichloroethene (TCE)	35000	1.3E+03	2.9E+02	3E-05	1E+02		
		Vinyl Chloride	13000	6.6E+01	1.5E+04	2E-04	9E-01		
SAIA-SB/SG-19-25, P530cc	25	1,1,1-Trichloroethane	150	No value	1.5E+05	-	1E-03	1E-02	9E+02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	18000	3.2E+03	1.2E+05	6E-06	2E-01		
		1,1-Dichloroethene	660	No value	1.0E+04	-	6E-02		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	110	2.0E+02	1.0E+03	6E-07	1E-01		
		1,3,5-Trimethylbenzene	200	No value	8.7E+03	-	2E-02		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	600	1.8E+02	4.4E+02	3E-06	1E+00		
		Chloroethane	440	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	22000	No value	1.2E+03	-	2E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	270	2.0E+03	1.5E+05	1E-07	2E-03		
		Isopropylbenzene (Cumene)	200	No value	6.0E+04	-	3E-03		
		m,p-Xylene	290	No value	1.5E+04	-	2E-02		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	270	No value	2.9E+04	-	9E-03		
		o-Xylene	490	No value	1.5E+04	-	3E-02		
		p-Cymene (p-Isopropyltoluene)	180	No value	No value	-	-		
		sec-Butylbenzene	290	No value	5.8E+04	-	5E-03		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	410	8.4E+02	5.8E+03	5E-07	7E-02		
		Toluene	1900	No value	4.4E+04	-	4E-02		
		trans-1,2-Dichloroethene	6400	No value	1.2E+04	-	5E-01		
		Trichloroethene (TCE)	230000	1.3E+03	2.9E+02	2E-04	8E+02		
		Vinyl Chloride	810000	6.6E+01	1.5E+04	1E-02	6E+01		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-19-35, P578cc	35	1,1,1-Trichloroethane	38	No value	1.5E+05	-	3E-04	6E-04	8E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	820	3.2E+03	1.2E+05	3E-07	7E-03		
		1,1-Dichloroethene	700	No value	1.0E+04	-	7E-02		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	98	1.8E+02	4.4E+02	6E-07	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	6800	No value	1.2E+03	-	6E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	70	2.0E+03	1.5E+05	3E-08	5E-04		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	63	No value	1.5E+04	-	4E-03		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	38	No value	1.5E+04	-	3E-03		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	2200	8.4E+02	5.8E+03	3E-06	4E-01		
		Toluene	87	No value	4.4E+04	-	2E-03		
		trans-1,2-Dichloroethene	460	No value	1.2E+04	-	4E-02		
		Trichloroethene (TCE)	21000	1.3E+03	2.9E+02	2E-05	7E+01		
		Vinyl Chloride	38000	6.6E+01	1.5E+04	6E-04	3E+00		
SAIA-SB/SG-19-5, P816cc	5	1,1,1-Trichloroethane	2400	No value	1.5E+05	-	2E-02	3E-05	1E+02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	2000	3.2E+03	1.2E+05	6E-07	2E-02		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	85	2.2E+02	1.4E+04	4E-07	6E-03		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	17000	No value	1.2E+03	-	1E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	1100	8.4E+02	5.8E+03	1E-06	2E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	370	No value	1.2E+04	-	3E-02		
		Trichloroethene (TCE)	30000	1.3E+03	2.9E+02	2E-05	1E+02		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-20-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-03	3E+03
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	20000	3.2E+03	1.2E+05	6E-06	2E-01		
		1,1-Dichloroethene	9400	No value	1.0E+04	-	9E-01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	440	2.0E+02	1.0E+03	2E-06	4E-01		
		1,3,5-Trimethylbenzene	32	No value	8.7E+03	-	4E-03		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	910	1.8E+02	4.4E+02	5E-06	2E+00		
		Chloroethane	8800	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	3000000	No value	1.2E+03	-	3E+03		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	32	No value	6.0E+04	-	5E-04		
		m,p-Xylene	240	No value	1.5E+04	-	2E-02		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	37	No value	2.9E+04	-	1E-03		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	58	No value	No value	-	-		
		sec-Butylbenzene	31	No value	5.8E+04	-	5E-04		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	440	8.4E+02	5.8E+03	5E-07	8E-02		
		Toluene	740	No value	4.4E+04	-	2E-02		
		trans-1,2-Dichloroethene	19000	No value	1.2E+04	-	2E+00		
		Trichloroethene (TCE)	7700	1.3E+03	2.9E+02	6E-06	3E+01		
		Vinyl Chloride	85000	6.6E+01	1.5E+04	1E-03	6E+00		
SAIA-SB/SG-20-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-03	2E+04
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	5900	3.2E+03	1.2E+05	2E-06	5E-02		
		1,1-Dichloroethene	55000	No value	1.0E+04	-	5E+00		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	35	No value	8.7E+03	-	4E-03		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	430	1.8E+02	4.4E+02	2E-06	1E+00		
		Chloroethane	19000	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	23000000	No value	1.2E+03	-	2E+04		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	94	2.0E+03	1.5E+05	5E-08	6E-04		
		Isopropylbenzene (Cumene)	35	No value	6.0E+04	-	6E-04		
		m,p-Xylene	290	No value	1.5E+04	-	2E-02		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	52	No value	2.9E+04	-	2E-03		
		o-Xylene	140	No value	1.5E+04	-	1E-02		
		p-Cymene (p-Isopropyltoluene)	74	No value	No value	-	-		
		sec-Butylbenzene	44	No value	5.8E+04	-	8E-04		
		tert-Butylbenzene	38	No value	No value	-	-		
		Tetrachloroethene (PCE)	140	8.4E+02	5.8E+03	2E-07	2E-02		
		Toluene	240	No value	4.4E+04	-	5E-03		
		trans-1,2-Dichloroethene	90000	No value	1.2E+04	-	8E+00		
		Trichloroethene (TCE)	270000	1.3E+03	2.9E+02	2E-04	9E+02		
		Vinyl Chloride	98000	6.6E+01	1.5E+04	1E-03	7E+00		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-20-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-03	2E+04
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	62000	3.2E+03	1.2E+05	2E-05	5E-01		
		1,1-Dichloroethene	20000	No value	1.0E+04	-	2E+00		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	230	2.0E+02	1.0E+03	1E-06	2E-01		
		1,3,5-Trimethylbenzene	91	No value	8.7E+03	-	1E-02		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	310	1.8E+02	4.4E+02	2E-06	7E-01		
		Chloroethane	730	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	5200000	No value	1.2E+03	-	4E+03		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	110	2.0E+03	1.5E+05	5E-08	8E-04		
		Isopropylbenzene (Cumene)	90	No value	6.0E+04	-	2E-03		
		m,p-Xylene	91	No value	1.5E+04	-	6E-03		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	99	No value	2.9E+04	-	3E-03		
		o-Xylene	110	No value	1.5E+04	-	8E-03		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	120	No value	5.8E+04	-	2E-03		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	2000	8.4E+02	5.8E+03	2E-06	3E-01		
		Toluene	360	No value	4.4E+04	-	8E-03		
		trans-1,2-Dichloroethene	93000	No value	1.2E+04	-	8E+00		
		Trichloroethene (TCE)	4100000	1.3E+03	2.9E+02	3E-03	1E+04		
		Vinyl Chloride	80000	6.6E+01	1.5E+04	1E-03	5E+00		
SAIA-SB/SG-20-5, P816cc	5	1,1,1-Trichloroethane	76	No value	1.5E+05	-	5E-04	3E-03	6E+02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	22000	3.2E+03	1.2E+05	7E-06	2E-01		
		1,1-Dichloroethene	710	No value	1.0E+04	-	7E-02		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	72	2.0E+02	1.0E+03	4E-07	7E-02		
		1,3,5-Trimethylbenzene	39	No value	8.7E+03	-	5E-03		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	340	1.8E+02	4.4E+02	2E-06	8E-01		
		Chloroethane	650	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	610000	No value	1.2E+03	-	5E+02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	150	2.0E+03	1.5E+05	7E-08	1E-03		
		Isopropylbenzene (Cumene)	39	No value	6.0E+04	-	7E-04		
		m,p-Xylene	390	No value	1.5E+04	-	3E-02		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	41	No value	2.9E+04	-	1E-03		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	69	No value	No value	-	-		
		sec-Butylbenzene	34	No value	5.8E+04	-	6E-04		
		tert-Butylbenzene	41	No value	No value	-	-		
		Tetrachloroethene (PCE)	290	8.4E+02	5.8E+03	3E-07	5E-02		
		Toluene	460	No value	4.4E+04	-	1E-02		
		trans-1,2-Dichloroethene	1700	No value	1.2E+04	-	1E-01		
		Trichloroethene (TCE)	17000	1.3E+03	2.9E+02	1E-05	6E+01		
		Vinyl Chloride	170000	6.6E+01	1.5E+04	3E-03	1E+01		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-21-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	8E-06	6E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	510	3.2E+03	1.2E+05	2E-07	4E-03		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	40	1.8E+02	4.4E+02	2E-07	9E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	32000	No value	1.2E+03	-	3E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	570	8.4E+02	5.8E+03	7E-07	1E-01		
		Toluene	67	No value	4.4E+04	-	2E-03		
		trans-1,2-Dichloroethene	150	No value	1.2E+04	-	1E-02		
		Trichloroethene (TCE)	8500	1.3E+03	2.9E+02	7E-06	3E+01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-21-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-05	7E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	2200	3.2E+03	1.2E+05	7E-07	2E-02		
		1,1-Dichloroethene	1100	No value	1.0E+04	-	1E-01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	120	1.8E+02	4.4E+02	7E-07	3E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	50000	No value	1.2E+03	-	4E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	96	No value	1.5E+04	-	7E-03		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	360	8.4E+02	5.8E+03	4E-07	6E-02		
		Toluene	90	No value	4.4E+04	-	2E-03		
		trans-1,2-Dichloroethene	5400	No value	1.2E+04	-	5E-01		
		Trichloroethene (TCE)	7000	1.3E+03	2.9E+02	6E-06	2E+01		
		Vinyl Chloride	1600	6.6E+01	1.5E+04	2E-05	1E-01		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-21-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	8E-05	1E+02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	930	3.2E+03	1.2E+05	3E-07	8E-03		
		1,1-Dichloroethene	1700	No value	1.0E+04	-	2E-01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	59	1.8E+02	4.4E+02	3E-07	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	52000	No value	1.2E+03	-	4E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	38	8.4E+02	5.8E+03	5E-08	7E-03		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	4700	No value	1.2E+04	-	4E-01		
		Trichloroethene (TCE)	21000	1.3E+03	2.9E+02	2E-05	7E+01		
		Vinyl Chloride	4300	6.6E+01	1.5E+04	7E-05	3E-01		
SAIA-SB/SG-21-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-07	6E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	93	8.4E+02	5.8E+03	1E-07	2E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	160	1.3E+03	2.9E+02	1E-07	5E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-22-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-07	7E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	25	1.8E+02	4.4E+02	1E-07	6E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	45	No value	2.9E+04	-	2E-03		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	40	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	39	8.4E+02	5.8E+03	5E-08	7E-03		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	180	1.3E+03	2.9E+02	1E-07	6E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-22-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-06	1E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	120	1.8E+02	4.4E+02	7E-07	3E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	120	No value	1.2E+03	-	1E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	110	No value	2.9E+04	-	4E-03		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	97	No value	No value	-	-		
		sec-Butylbenzene	43	No value	5.8E+04	-	7E-04		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	43	8.4E+02	5.8E+03	5E-08	7E-03		
		Toluene	50	No value	4.4E+04	-	1E-03		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	310	1.3E+03	2.9E+02	2E-07	1E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-22-35 Rep, P628cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-06	6E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	40	No value	1.0E+04	-	4E-03		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	210	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	51	No value	1.5E+04	-	3E-03		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	20	No value	4.4E+04	-	5E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	110	1.3E+03	2.9E+02	9E-08	4E-01		
		Vinyl Chloride	73	6.6E+01	1.5E+04	1E-06	5E-03		
SAIA-SB/SG-22-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-06	6E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	26	No value	1.0E+04	-	3E-03		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	190	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	47	No value	1.5E+04	-	3E-03		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	23	No value	4.4E+04	-	5E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	120	1.3E+03	2.9E+02	1E-07	4E-01		
		Vinyl Chloride	90	6.6E+01	1.5E+04	1E-06	6E-03		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-22-5 Rep, P866cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-07	3E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	59	No value	2.9E+04	-	2E-03		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	46	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	100	1.3E+03	2.9E+02	8E-08	3E-01		
		Vinyl Chloride	32	6.6E+01	1.5E+04	5E-07	2E-03		
SAIA-SB/SG-22-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-06	3E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	76	No value	2.9E+04	-	3E-03		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	61	No value	No value	-	-		
		sec-Butylbenzene	44	No value	5.8E+04	-	8E-04		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	35	8.4E+02	5.8E+03	4E-08	6E-03		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	86	1.3E+03	2.9E+02	7E-08	3E-01		
		Vinyl Chloride	64	6.6E+01	1.5E+04	1E-06	4E-03		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-23-15, 1PV, P481cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-07	2E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	25	1.8E+02	4.4E+02	1E-07	6E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	100	8.4E+02	5.8E+03	1E-07	2E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	420	1.3E+03	2.9E+02	3E-07	1E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-23-15, 3PV, P1444cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-07	2E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	91	8.4E+02	5.8E+03	1E-07	2E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	440	1.3E+03	2.9E+02	4E-07	2E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-23-15,10PV, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-07	2E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	88	8.4E+02	5.8E+03	1E-07	2E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	440	1.3E+03	2.9E+02	4E-07	2E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-23-25, 1PV, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-06	3E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	47	1.8E+02	4.4E+02	3E-07	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	69	8.4E+02	5.8E+03	8E-08	1E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	900	1.3E+03	2.9E+02	7E-07	3E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-23-25, 3PV, P1589cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-07	1E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	43	1.8E+02	4.4E+02	2E-07	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	89	8.4E+02	5.8E+03	1E-07	2E-02		
		Toluene	55	No value	4.4E+04	-	1E-03		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	320	1.3E+03	2.9E+02	3E-07	1E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-23-25,10PV, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-07	6E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	47	8.4E+02	5.8E+03	6E-08	8E-03		
		Toluene	28	No value	4.4E+04	-	6E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	160	1.3E+03	2.9E+02	1E-07	5E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-23-35, 1PV, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-06	5E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	58	No value	1.2E+03	-	5E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	110	8.4E+02	5.8E+03	1E-07	2E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	1500	1.3E+03	2.9E+02	1E-06	5E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-23-35, 3PV, P1734cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-06	5E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	55	No value	1.2E+03	-	5E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	82	8.4E+02	5.8E+03	1E-07	1E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	1500	1.3E+03	2.9E+02	1E-06	5E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-23-35,10PV, P5782cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-06	5E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	58	No value	1.2E+03	-	5E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	75	8.4E+02	5.8E+03	9E-08	1E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	1500	1.3E+03	2.9E+02	1E-06	5E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-23-5, 10PV, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-07	1E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	72	8.4E+02	5.8E+03	9E-08	1E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	280	1.3E+03	2.9E+02	2E-07	1E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-23-5, 1PV, P433cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-07	9E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	58	8.4E+02	5.8E+03	7E-08	1E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	260	1.3E+03	2.9E+02	2E-07	9E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-23-5, 3PV, P1299cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-07	9E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	63	8.4E+02	5.8E+03	8E-08	1E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	260	1.3E+03	2.9E+02	2E-07	9E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-24-15, P913cc	15	1,1,1-Trichloroethane	56	No value	1.5E+05	-	4E-04	2E-05	7E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	360	3.2E+03	1.2E+05	1E-07	3E-03		
		1,1-Dichloroethene	81	No value	1.0E+04	-	8E-03		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	19	1.8E+02	4.4E+02	1E-07	4E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	3900	No value	1.2E+03	-	3E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	93	8.4E+02	5.8E+03	1E-07	2E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	120	No value	1.2E+04	-	1E-02		
		Trichloroethene (TCE)	19000	1.3E+03	2.9E+02	2E-05	6E+01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-24-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-06	2E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	43	No value	7.3E+05	-	6E-05		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	110	No value	1.0E+04	-	1E-02		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	1200	No value	1.2E+03	-	1E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	40	2.0E+03	1.5E+05	2E-08	3E-04		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	51	No value	1.5E+04	-	3E-03		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	760	8.4E+02	5.8E+03	9E-07	1E-01		
		Toluene	44	No value	4.4E+04	-	1E-03		
		trans-1,2-Dichloroethene	45	No value	1.2E+04	-	4E-03		
		Trichloroethene (TCE)	5500	1.3E+03	2.9E+02	4E-06	2E+01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-24-35, P578cc	35	1,1,1-Trichloroethane	610	No value	1.5E+05	-	4E-03	1E-03	4E+03
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	53000	3.2E+03	1.2E+05	2E-05	5E-01		
		1,1-Dichloroethene	35000	No value	1.0E+04	-	3E+00		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	840	1.8E+02	4.4E+02	5E-06	2E+00		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	120	2.2E+02	1.4E+04	5E-07	8E-03		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	420000	No value	1.2E+03	-	4E+02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	93	2.0E+03	1.5E+05	5E-08	6E-04		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	24	No value	1.5E+04	-	2E-03		
		p-Cymene (p-Isopropyltoluene)	50	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	950	8.4E+02	5.8E+03	1E-06	2E-01		
		Toluene	63	No value	4.4E+04	-	1E-03		
		trans-1,2-Dichloroethene	72000	No value	1.2E+04	-	6E+00		
		Trichloroethene (TCE)	980000	1.3E+03	2.9E+02	8E-04	3E+03		
		Vinyl Chloride	17000	6.6E+01	1.5E+04	3E-04	1E+00		
SAIA-SB/SG-24-5, P816cc	5	1,1,1-Trichloroethane	50	No value	1.5E+05	-	3E-04	9E-07	3E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	180	3.2E+03	1.2E+05	6E-08	2E-03		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	170	No value	1.2E+03	-	1E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	93	8.4E+02	5.8E+03	1E-07	2E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	920	1.3E+03	2.9E+02	7E-07	3E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-25-15 Rep, P963cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-06	6E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	26	1.8E+02	4.4E+02	1E-07	6E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	3400	8.4E+02	5.8E+03	4E-06	6E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-25-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-06	7E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	20	1.8E+02	4.4E+02	1E-07	5E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	4100	8.4E+02	5.8E+03	5E-06	7E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-25-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-06	2E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	28	1.8E+02	4.4E+02	2E-07	6E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	58	No value	1.3E+04	-	4E-03		
		cis-1,2-Dichloroethylene	81	No value	1.2E+03	-	7E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	580	8.4E+02	5.8E+03	7E-07	1E-01		
		Toluene	29	No value	4.4E+04	-	7E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	620	1.3E+03	2.9E+02	5E-07	2E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-25-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-05	9E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	100	No value	1.0E+04	-	1E-02		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	6700	No value	1.2E+03	-	6E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	6400	8.4E+02	5.8E+03	8E-06	1E+00		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	690	No value	1.2E+04	-	6E-02		
		Trichloroethene (TCE)	25000	1.3E+03	2.9E+02	2E-05	9E+01		
		Vinyl Chloride	26	6.6E+01	1.5E+04	4E-07	2E-03		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-25-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-06	5E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	3000	8.4E+02	5.8E+03	4E-06	5E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-26-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-05	1E+02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	900	3.2E+03	1.2E+05	3E-07	8E-03		
		1,1-Dichloroethene	110	No value	1.0E+04	-	1E-02		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	42	1.8E+02	4.4E+02	2E-07	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	17000	No value	1.2E+03	-	1E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	37	8.4E+02	5.8E+03	4E-08	6E-03		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	240	No value	1.2E+04	-	2E-02		
		Trichloroethene (TCE)	33000	1.3E+03	2.9E+02	3E-05	1E+02		
		Vinyl Chloride	230	6.6E+01	1.5E+04	4E-06	2E-02		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-26-25, P530cc	25	1,1,1-Trichloroethane	30	No value	1.5E+05	-	2E-04	2E-04	6E+02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	4400	3.2E+03	1.2E+05	1E-06	4E-02		
		1,1-Dichloroethene	1100	No value	1.0E+04	-	1E-01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	71	1.8E+02	4.4E+02	4E-07	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	98000	No value	1.2E+03	-	8E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	75	8.4E+02	5.8E+03	9E-08	1E-02		
		Toluene	30	No value	4.4E+04	-	7E-04		
		trans-1,2-Dichloroethene	1200	No value	1.2E+04	-	1E-01		
		Trichloroethene (TCE)	150000	1.3E+03	2.9E+02	1E-04	5E+02		
		Vinyl Chloride	6500	6.6E+01	1.5E+04	1E-04	4E-01		
SAIA-SB/SG-26-5 Rep, P866cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-06	3E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	72	No value	4.7E+02	-	2E-01		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	770	4.6E+02	1.2E+05	2E-06	7E-03		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	46	1.8E+02	4.4E+02	3E-07	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	240	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	36	8.4E+02	5.8E+03	4E-08	6E-03		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	740	1.3E+03	2.9E+02	6E-07	3E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-26-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-06	4E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	65	No value	4.7E+02	-	1E-01		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	770	4.6E+02	1.2E+05	2E-06	7E-03		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	41	1.8E+02	4.4E+02	2E-07	9E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	290	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	65	8.4E+02	5.8E+03	8E-08	1E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	950	1.3E+03	2.9E+02	8E-07	3E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-27-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-05	2E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	25	1.8E+02	4.4E+02	1E-07	6E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	340	No value	1.2E+03	-	3E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	30000	8.4E+02	5.8E+03	4E-05	5E+00		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	100	No value	1.2E+04	-	9E-03		
		Trichloroethene (TCE)	5300	1.3E+03	2.9E+02	4E-06	2E+01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-27-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-05	8E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	220	3.2E+03	1.2E+05	7E-08	2E-03		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	49	1.8E+02	4.4E+02	3E-07	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	4000	No value	1.2E+03	-	3E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	15000	8.4E+02	5.8E+03	2E-05	3E+00		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	460	No value	1.2E+04	-	4E-02		
		Trichloroethene (TCE)	23000	1.3E+03	2.9E+02	2E-05	8E+01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-27-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	8E-06	5E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	58	3.2E+03	1.2E+05	2E-08	5E-04		
		1,1-Dichloroethene	99	No value	1.0E+04	-	1E-02		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	14000	No value	1.2E+03	-	1E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	210	8.4E+02	5.8E+03	3E-07	4E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	1200	No value	1.2E+04	-	1E-01		
		Trichloroethene (TCE)	10000	1.3E+03	2.9E+02	8E-06	3E+01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-27-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-05	1E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	29	1.8E+02	4.4E+02	2E-07	7E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	57	No value	1.2E+03	-	5E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	53000	8.4E+02	5.8E+03	6E-05	9E+00		
		Toluene	20	No value	4.4E+04	-	5E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	970	1.3E+03	2.9E+02	8E-07	3E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-28-15 Rep, P963cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-07	9E-02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	540	8.4E+02	5.8E+03	6E-07	9E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-28-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	8E-07	1E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	690	8.4E+02	5.8E+03	8E-07	1E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-28-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-05	6E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	50	3.2E+02	2.9E+01	2E-07	2E+00		
		1,1-Dichloroethane	220	3.2E+03	1.2E+05	7E-08	2E-03		
		1,1-Dichloroethene	130	No value	1.0E+04	-	1E-02		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	24000	No value	1.2E+03	-	2E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	310	8.4E+02	5.8E+03	4E-07	5E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	1600	No value	1.2E+04	-	1E-01		
		Trichloroethene (TCE)	11000	1.3E+03	2.9E+02	9E-06	4E+01		
		Vinyl Chloride	64	6.6E+01	1.5E+04	1E-06	4E-03		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-28-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	7E-07	1E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	590	8.4E+02	5.8E+03	7E-07	1E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-29-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	7E-08	1E-02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	61	8.4E+02	5.8E+03	7E-08	1E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-29-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-06	2E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	170	1.8E+02	4.4E+02	1E-06	4E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	83	No value	1.2E+03	-	7E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	35	No value	4.4E+04	-	8E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	320	1.3E+03	2.9E+02	3E-07	1E+00		
		Vinyl Chloride	13	6.6E+01	1.5E+04	2E-07	9E-04		
SAIA-SB/SG-29-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	8E-06	4E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	120	3.2E+03	1.2E+05	4E-08	1E-03		
		1,1-Dichloroethene	74	No value	1.0E+04	-	7E-03		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	7600	No value	1.2E+03	-	7E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	680	8.4E+02	5.8E+03	8E-07	1E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	530	No value	1.2E+04	-	5E-02		
		Trichloroethene (TCE)	9500	1.3E+03	2.9E+02	8E-06	3E+01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-29-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-06	2E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	1200	No value	1.2E+03	-	1E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	5700	1.3E+03	2.9E+02	5E-06	2E+01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-30-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	7E-07	1E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	590	8.4E+02	5.8E+03	7E-07	1E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-30-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-06	5E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	28	1.8E+02	4.4E+02	2E-07	6E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	240	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	740	8.4E+02	5.8E+03	9E-07	1E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	1300	1.3E+03	2.9E+02	1E-06	4E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-30-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	8E-07	1E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	290	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	490	8.4E+02	5.8E+03	6E-07	8E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	59	No value	1.2E+04	-	5E-03		
		Trichloroethene (TCE)	250	1.3E+03	2.9E+02	2E-07	9E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-30-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-07	7E-02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	400	8.4E+02	5.8E+03	5E-07	7E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-31-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	9E-07	3E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	34	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	750	8.4E+02	5.8E+03	9E-07	1E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	57	1.3E+03	2.9E+02	5E-08	2E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-31-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-06	8E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	24	1.8E+02	4.4E+02	1E-07	5E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	170	No value	1.2E+03	-	1E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	110	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	580	8.4E+02	5.8E+03	7E-07	1E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	2300	1.3E+03	2.9E+02	2E-06	8E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-31-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-06	7E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	1600	No value	1.2E+03	-	1E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	560	8.4E+02	5.8E+03	7E-07	1E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	110	No value	1.2E+04	-	9E-03		
		Trichloroethene (TCE)	1500	1.3E+03	2.9E+02	1E-06	5E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-31-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-07	8E-02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	490	8.4E+02	5.8E+03	6E-07	8E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-32-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-06	4E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	21	1.8E+02	4.4E+02	1E-07	5E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	150	No value	1.2E+03	-	1E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	230	8.4E+02	5.8E+03	3E-07	4E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	980	1.3E+03	2.9E+02	8E-07	3E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-32-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-32-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-07	4E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	47	No value	1.2E+03	-	4E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	120	1.3E+03	2.9E+02	1E-07	4E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-32-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	9E-08	1E-02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	76	8.4E+02	5.8E+03	9E-08	1E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-33-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-06	7E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	420	No value	8.7E+03	-	5E-02		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	270	2.0E+03	1.5E+05	1E-07	2E-03		
		Isopropylbenzene (Cumene)	420	No value	6.0E+04	-	7E-03		
		m,p-Xylene	120	No value	1.5E+04	-	8E-03		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	260	1.5E+02	4.3E+02	2E-06	6E-01		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	300	No value	1.5E+04	-	2E-02		
		p-Cymene (p-Isopropyltoluene)	940	No value	No value	-	-		
		sec-Butylbenzene	1300	No value	5.8E+04	-	2E-02		
		tert-Butylbenzene	400	No value	No value	-	-		
		Tetrachloroethene (PCE)	190	8.4E+02	5.8E+03	2E-07	3E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-33-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-07	2E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	230	No value	8.7E+03	-	3E-02		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	35	1.8E+02	4.4E+02	2E-07	8E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	170	2.0E+03	1.5E+05	8E-08	1E-03		
		Isopropylbenzene (Cumene)	230	No value	6.0E+04	-	4E-03		
		m,p-Xylene	140	No value	1.5E+04	-	1E-02		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	33	1.5E+02	4.3E+02	2E-07	8E-02		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	46	No value	1.5E+04	-	3E-03		
		p-Cymene (p-Isopropyltoluene)	3400	No value	No value	-	-		
		sec-Butylbenzene	650	No value	5.8E+04	-	1E-02		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	39	No value	4.4E+04	-	9E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-33-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-06	7E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	29	1.8E+02	4.4E+02	2E-07	7E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	630	No value	1.2E+03	-	5E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	51	No value	1.2E+04	-	4E-03		
		Trichloroethene (TCE)	1900	1.3E+03	2.9E+02	2E-06	6E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-33-5 Rep, P866cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-07	7E-02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	410	8.4E+02	5.8E+03	5E-07	7E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-33-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-07	8E-02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	470	8.4E+02	5.8E+03	6E-07	8E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-34-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-34-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-34-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-34-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-35-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-35-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	9E-07	2E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	79	1.8E+02	4.4E+02	4E-07	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	51	No value	1.2E+03	-	4E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	34	No value	4.4E+04	-	8E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	530	1.3E+03	2.9E+02	4E-07	2E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-35-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-35-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-36-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-07	5E-02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	21	1.8E+02	4.4E+02	1E-07	5E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-36-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-36-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-08	1E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	40	1.3E+03	2.9E+02	3E-08	1E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-36-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-37-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-07	7E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	58	1.8E+02	4.4E+02	3E-07	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	83	No value	1.2E+03	-	7E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	35	No value	4.4E+04	-	8E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	160	1.3E+03	2.9E+02	1E-07	5E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-37-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-07	2E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	380	No value	1.2E+03	-	3E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	45	8.4E+02	5.8E+03	5E-08	8E-03		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	400	1.3E+03	2.9E+02	3E-07	1E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-38-15 Rep, P963cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-07	1E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	49	1.8E+02	4.4E+02	3E-07	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	330	No value	1.2E+03	-	3E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	57	8.4E+02	5.8E+03	7E-08	1E-02		
		Toluene	37	No value	4.4E+04	-	8E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	270	1.3E+03	2.9E+02	2E-07	9E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-38-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-07	2E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	52	1.8E+02	4.4E+02	3E-07	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	350	No value	1.2E+03	-	3E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	53	No value	4.4E+04	-	1E-03		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	330	1.3E+03	2.9E+02	3E-07	1E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-38-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-07	1E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	55	1.8E+02	4.4E+02	3E-07	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	510	No value	1.2E+03	-	4E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	47	No value	1.5E+04	-	3E-03		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	74	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	38	No value	4.4E+04	-	9E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	200	1.3E+03	2.9E+02	2E-07	7E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-38-35, P578cc	35	1,1,1-Trichloroethane	120	No value	1.5E+05	-	8E-04	2E-03	4E+03
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	45000	3.2E+03	1.2E+05	1E-05	4E-01		
		1,1-Dichloroethene	4400	No value	1.0E+04	-	4E-01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	65	2.0E+02	1.0E+03	3E-07	6E-02		
		1,3,5-Trimethylbenzene	190	No value	8.7E+03	-	2E-02		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	230	1.8E+02	4.4E+02	1E-06	5E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	44	2.2E+02	1.4E+04	2E-07	3E-03		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	1100000	No value	1.2E+03	-	9E+02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	25	2.0E+03	1.5E+05	1E-08	2E-04		
		Isopropylbenzene (Cumene)	190	No value	6.0E+04	-	3E-03		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	300	No value	5.8E+04	-	5E-03		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	3100	8.4E+02	5.8E+03	4E-06	5E-01		
		Toluene	180	No value	4.4E+04	-	4E-03		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	940000	1.3E+03	2.9E+02	8E-04	3E+03		
		Vinyl Chloride	52000	6.6E+01	1.5E+04	8E-04	4E+00		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-38-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-08	8E-03
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	46	8.4E+02	5.8E+03	5E-08	8E-03		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-39-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-39-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-07	6E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	90	1.8E+02	4.4E+02	5E-07	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	140	No value	1.2E+03	-	1E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	47	No value	4.4E+04	-	1E-03		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	78	1.3E+03	2.9E+02	6E-08	3E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-39-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-05	7E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	380	3.2E+03	1.2E+05	1E-07	3E-03		
		1,1-Dichloroethene	160	No value	1.0E+04	-	2E-02		
		1,1-Difluoroethane	92	No value	6.0E+06	-	2E-05		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	34000	No value	1.2E+03	-	3E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	160	8.4E+02	5.8E+03	2E-07	3E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	1700	No value	1.2E+04	-	1E-01		
		Trichloroethene (TCE)	13000	1.3E+03	2.9E+02	1E-05	4E+01		
		Vinyl Chloride	76	6.6E+01	1.5E+04	1E-06	5E-03		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-39-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-40-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-07	9E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	23	1.8E+02	4.4E+02	1E-07	5E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	340	No value	1.2E+03	-	3E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	330	8.4E+02	5.8E+03	4E-07	6E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	140	1.3E+03	2.9E+02	1E-07	5E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-40-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-06	2E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	200	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	1200	8.4E+02	5.8E+03	1E-06	2E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	380	1.3E+03	2.9E+02	3E-07	1E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-40-35 Rep, P628cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-07	2E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	730	No value	1.2E+03	-	6E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	88	No value	1.2E+04	-	8E-03		
		Trichloroethene (TCE)	320	1.3E+03	2.9E+02	3E-07	1E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-40-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-07	2E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	900	No value	1.2E+03	-	8E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	96	No value	1.2E+04	-	8E-03		
		Trichloroethene (TCE)	430	1.3E+03	2.9E+02	3E-07	1E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-40-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-07	1E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	410	No value	1.2E+03	-	4E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	240	8.4E+02	5.8E+03	3E-07	4E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	200	1.3E+03	2.9E+02	2E-07	7E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-41-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-07	5E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	160	No value	1.2E+03	-	1E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	45	8.4E+02	5.8E+03	5E-08	8E-03		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	94	1.3E+03	2.9E+02	8E-08	3E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-41-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-08	2E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	60	No value	1.2E+03	-	5E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	34	1.3E+03	2.9E+02	3E-08	1E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-41-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	6E-02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	69	No value	1.2E+03	-	6E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-41-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-08	2E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	51	1.3E+03	2.9E+02	4E-08	2E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-42-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-42-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-42-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-07	4E-02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	17	1.8E+02	4.4E+02	1E-07	4E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	33	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-42-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-07	4E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	21	1.8E+02	4.4E+02	1E-07	5E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	190	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	53	1.3E+03	2.9E+02	4E-08	2E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-43-15, P913cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-43-25, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	5E-02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	60	No value	1.2E+03	-	5E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-43-35 Rep, P628cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SB/SG-43-35, P578cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-43-5, P816cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-08	2E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	62	No value	1.2E+03	-	5E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	55	1.3E+03	2.9E+02	4E-08	2E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SG02-D05-E0413	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-06	5E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	40	3.2E+03	1.2E+05	1E-08	3E-04		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		Trichloroethene (TCE)	1500	1.3E+03	2.9E+02	1E-06	5E+00		
		Vinyl Chloride	50	6.6E+01	1.5E+04	8E-07	3E-03		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG06-D35-E0413	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	9E-05	8E+01
		1,1,2,2-Tetrachloroethane	200	8.8E+01	1.2E+04	2E-06	2E-02		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	400	3.2E+03	1.2E+05	1E-07	3E-03		
		1,1-Dichloroethane	300	3.2E+03	1.2E+05	9E-08	3E-03		
		1,1-Dichloroethene	2100	No value	1.0E+04	-	2E-01		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	60	No value	8.7E+03	-	7E-03		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		Benzene	50	1.8E+02	4.4E+02	3E-07	1E-01		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	38000	No value	1.2E+03	-	3E+01		
		Decahydromethyl Naphthalene*	400	No value	No value	-	-		
		Diethylmethylcyclohexane*	500	No value	No value	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	100	8.4E+02	5.8E+03	1E-07	2E-02		
		Toluene	0	No value	4.4E+04	-	-		
		Trichloroethene (TCE)	15000	1.3E+03	2.9E+02	1E-05	5E+01		
		Vinyl Chloride	5000	6.6E+01	1.5E+04	8E-05	3E-01		
SAIA-SG08-D05-E0413	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	8E-03	3E+02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	65000	3.2E+03	1.2E+05	2E-05	6E-01		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	260000	No value	1.2E+03	-	2E+02		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	530000	6.6E+01	1.5E+04	8E-03	4E+01		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG09-D35-E0413	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-03	2E+04
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	150000	3.2E+03	1.2E+05	5E-05	1E+00		
		1,1-Dichloroethene	28000	No value	1.0E+04	-	3E+00		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	6100000	No value	1.2E+03	-	5E+03		
		Decahydromethyl Naphthalene*	48000	No value	No value	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		Trichloroethene (TCE)	2900000	1.3E+03	2.9E+02	2E-03	1E+04		
		Vinyl Chloride	180000	6.6E+01	1.5E+04	3E-03	1E+01		
SAIA-SG10-D15-E0413	15	1,1,1-Trichloroethane	37000	No value	1.5E+05	-	3E-01	3E-02	2E+03
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	270000	3.2E+03	1.2E+05	8E-05	2E+00		
		1,1-Dichloroethene	21000	No value	1.0E+04	-	2E+00		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	2200000	No value	1.2E+03	-	2E+03		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		Trichloroethene (TCE)	11000	1.3E+03	2.9E+02	9E-06	4E+01		
		Vinyl Chloride	1700000	6.6E+01	1.5E+04	3E-02	1E+02		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG11-D25-E0413	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-06	3E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Butane*	1600	No value	No value	-	-		
		Butylcyclooctane*	1900	No value	No value	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	900	No value	1.2E+03	-	8E-01		
		Dimethylpentane*	1100	No value	No value	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylcyclobutane*	700	No value	No value	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methyl Butane*	800	No value	No value	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	100	8.4E+02	5.8E+03	1E-07	2E-02		
		Toluene	0	No value	4.4E+04	-	-		
		Trichloroethene (TCE)	700	1.3E+03	2.9E+02	6E-07	2E+00		
		Vinyl Chloride	30	6.6E+01	1.5E+04	5E-07	2E-03		
SAIA-SG14-D25-E0413	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-07	8E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	10	No value	8.7E+03	-	1E-03		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		Benzene	20	1.8E+02	4.4E+02	1E-07	5E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	100	No value	1.2E+03	-	9E-02		
		Decahydro Naphthalene*	70	No value	No value	-	-		
		Decahydromethyl Naphthalene*	80	No value	No value	-	-		
		Ethylbenzene	20	2.0E+03	1.5E+05	1E-08	1E-04		
		m,p-Xylene	40	No value	1.5E+04	-	3E-03		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		o-Xylene	10	No value	1.5E+04	-	7E-04		
		Styrene	10	No value	1.3E+05	-	8E-05		
		Tetrachloroethene (PCE)	80	8.4E+02	5.8E+03	1E-07	1E-02		
		Toluene	60	No value	4.4E+04	-	1E-03		
		Trichloroethene (TCE)	200	1.3E+03	2.9E+02	2E-07	7E-01		
		Vinyl Chloride	10	6.6E+01	1.5E+04	2E-07	7E-04		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG20-E35	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-03	1E+04
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	32000	3.2E+03	1.2E+05	1E-05	3E-01		
		1,1-Dichloroethene	11000	No value	1.0E+04	-	1E+00		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	4700000	No value	1.2E+03	-	4E+03		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		Trichloroethene (TCE)	3200000	1.3E+03	2.9E+02	3E-03	1E+04		
		Vinyl Chloride	43000	6.6E+01	1.5E+04	7E-04	3E+00		
SAIA-SG22-E25	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-06	3E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	7	No value	1.0E+04	-	7E-04		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	8	No value	8.7E+03	-	9E-04		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		Benzene	200	1.8E+02	4.4E+02	1E-06	5E-01		
		Butane*	1600	No value	No value	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	200	No value	1.2E+03	-	2E-01		
		Dimethyl Octane*	600	No value	No value	-	-		
		Ethylbenzene	10	2.0E+03	1.5E+05	5E-09	7E-05		
		m,p-Xylene	30	No value	1.5E+04	-	2E-03		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		o-Xylene	10	No value	1.5E+04	-	7E-04		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	60	8.4E+02	5.8E+03	7E-08	1E-02		
		Toluene	40	No value	4.4E+04	-	9E-04		
		Trichloroethene (TCE)	800	1.3E+03	2.9E+02	6E-07	3E+00		
		Vinyl Chloride	10	6.6E+01	1.5E+04	2E-07	7E-04		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG24-E35	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-03	2E+04
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	57000	3.2E+03	1.2E+05	2E-05	5E-01		
		1,1-Dichloroethene	38000	No value	1.0E+04	-	4E+00		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	2600000	No value	1.2E+03	-	2E+03		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		Trichloroethene (TCE)	6600000	1.3E+03	2.9E+02	5E-03	2E+04		
		Vinyl Chloride	20000	6.6E+01	1.5E+04	3E-04	1E+00		
SAIA-SG27-E5	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-05	1E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		Benzene	60	1.8E+02	4.4E+02	3E-07	1E-01		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	200	No value	1.2E+03	-	2E-01		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	40000	8.4E+02	5.8E+03	5E-05	7E+00		
		Toluene	0	No value	4.4E+04	-	-		
		Trichloroethene (TCE)	1600	1.3E+03	2.9E+02	1E-06	5E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG29-E5	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-06	2E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chlorodifluoromethane*	400	No value	7.3E+06	-	5E-05		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	1400	No value	1.2E+03	-	1E+00		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		Trichloroethene (TCE)	4800	1.3E+03	2.9E+02	4E-06	2E+01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SG30-E25	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-06	1E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		Acetaldehyde*	40	1.9E+03	1.3E+03	2E-08	3E-02		
		Benzene	40	1.8E+02	4.4E+02	2E-07	9E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	500	No value	1.2E+03	-	4E-01		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	700	8.4E+02	5.8E+03	8E-07	1E-01		
		Toluene	8	No value	4.4E+04	-	2E-04		
		Trichloroethene (TCE)	2600	1.3E+03	2.9E+02	2E-06	9E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG32-E15	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-06	7E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	5	3.2E+03	1.2E+05	2E-09	4E-05		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	10	No value	4.7E+02	-	2E-02		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		Benzene	40	1.8E+02	4.4E+02	2E-07	9E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	400	No value	1.2E+03	-	3E-01		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	200	8.4E+02	5.8E+03	2E-07	3E-02		
		Toluene	8	No value	4.4E+04	-	2E-04		
		Trichloroethene (TCE)	2000	1.3E+03	2.9E+02	2E-06	7E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SG33-E35	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-06	1E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	10	3.2E+03	1.2E+05	3E-09	9E-05		
		1,1-Dichloroethene	10	No value	1.0E+04	-	1E-03		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		Benzene	50	1.8E+02	4.4E+02	3E-07	1E-01		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	800	No value	1.2E+03	-	7E-01		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	20	8.4E+02	5.8E+03	2E-08	3E-03		
		Toluene	8	No value	4.4E+04	-	2E-04		
		Trichloroethene (TCE)	2700	1.3E+03	2.9E+02	2E-06	9E+00		
		Trimethyl Cyclohexane*	300	No value	No value	-	-		
		Trimethyl Cyclopentane Isomers*	80	No value	No value	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG35-E25	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-06	4E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	10	No value	4.7E+02	-	2E-02		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		Benzene	100	1.8E+02	4.4E+02	6E-07	2E-01		
		Butane*	400	No value	No value	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	100	No value	1.2E+03	-	9E-02		
		Decahydromethyl Naphthalene*	40	No value	No value	-	-		
		Ethylbenzene	7	2.0E+03	1.5E+05	3E-09	5E-05		
		m,p-Xylene	20	No value	1.5E+04	-	1E-03		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		o-Xylene	10	No value	1.5E+04	-	7E-04		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	20	No value	4.4E+04	-	5E-04		
		Trichloroethene (TCE)	1200	1.3E+03	2.9E+02	1E-06	4E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SG36-E35	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-07	3E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		Benzene	9	1.8E+02	4.4E+02	5E-08	2E-02		
		Butane*	60	No value	No value	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	20	No value	1.2E+03	-	2E-02		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methyl Butane*	30	No value	No value	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	8	No value	4.4E+04	-	2E-04		
		Trichloroethene (TCE)	80	1.3E+03	2.9E+02	6E-08	3E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG39-E15	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	7E-08	1E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		Benzene	10	1.8E+02	4.4E+02	6E-08	2E-02		
		Butane*	60	No value	No value	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chlorodifluoromethane*	70	No value	7.3E+06	-	1E-05		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	20	No value	1.2E+03	-	2E-02		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		m,p-Xylene	20	No value	1.5E+04	-	1E-03		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		o-Xylene	10	No value	1.5E+04	-	7E-04		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	20	No value	4.4E+04	-	5E-04		
		Trichloroethene (TCE)	20	1.3E+03	2.9E+02	2E-08	7E-02		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SG41-E5	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-06	2E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	20	3.2E+03	1.2E+05	6E-09	2E-04		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		Benzene	60	1.8E+02	4.4E+02	3E-07	1E-01		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	5100	No value	1.2E+03	-	4E+00		
		Decahydromethyl Naphthalene*	100	No value	No value	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	50	8.4E+02	5.8E+03	6E-08	9E-03		
		Toluene	0	No value	4.4E+04	-	-		
		Trichloroethene (TCE)	6000	1.3E+03	2.9E+02	5E-06	2E+01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG44-15	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	9E-07	2E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	10	No value	1.0E+04	-	1E-03		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	40	1.8E+02	4.4E+02	2E-07	9E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	10	No value	1.2E+03	-	9E-03		
		Ethylbenzene	9	2.0E+03	1.5E+05	4E-09	6E-05		
		m,p-Xylene	30	No value	1.5E+04	-	2E-03		
		Methylene Chloride	6	5.1E+03	5.8E+04	1E-09	1E-04		
		o-Xylene	9	No value	1.5E+04	-	6E-04		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	30	8.4E+02	5.8E+03	4E-08	5E-03		
		Toluene	80	No value	4.4E+04	-	2E-03		
		Trichloroethene (TCE)	40	1.3E+03	2.9E+02	3E-08	1E-01		
		Vinyl Chloride	40	6.6E+01	1.5E+04	6E-07	3E-03		
SAIA-SG44-25	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-07	2E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	10	No value	1.0E+04	-	1E-03		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	10	1.8E+02	4.4E+02	6E-08	2E-02		
		Chlorobenzene	5	No value	7.3E+03	-	7E-04		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	2	No value	1.3E+04	-	2E-04		
		cis-1,2-Dichloroethylene	30	No value	1.2E+03	-	3E-02		
		Ethylbenzene	6	2.0E+03	1.5E+05	3E-09	4E-05		
		m,p-Xylene	20	No value	1.5E+04	-	1E-03		
		Methylene Chloride	4	5.1E+03	5.8E+04	8E-10	7E-05		
		o-Xylene	8	No value	1.5E+04	-	5E-04		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	60	No value	4.4E+04	-	1E-03		
		Trichloroethene (TCE)	50	1.3E+03	2.9E+02	4E-08	2E-01		
		Vinyl Chloride	30	6.6E+01	1.5E+04	5E-07	2E-03		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG44-35	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-07	2E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	7	No value	1.0E+04	-	7E-04		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	10	1.8E+02	4.4E+02	6E-08	2E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	20	No value	1.2E+03	-	2E-02		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	20	8.4E+02	5.8E+03	2E-08	3E-03		
		Toluene	40	No value	4.4E+04	-	9E-04		
		Trichloroethene (TCE)	40	1.3E+03	2.9E+02	3E-08	1E-01		
		Vinyl Chloride	20	6.6E+01	1.5E+04	3E-07	1E-03		
SAIA-SG44-5	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-08	3E-03
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	5	2.2E+02	1.4E+04	2E-08	3E-04		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Ethylbenzene	5	2.0E+03	1.5E+05	2E-09	3E-05		
		m,p-Xylene	20	No value	1.5E+04	-	1E-03		
		Methylene Chloride	4	5.1E+03	5.8E+04	8E-10	7E-05		
		o-Xylene	6	No value	1.5E+04	-	4E-04		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	40	No value	4.4E+04	-	9E-04		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG45-5	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-08	2E-02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	6	1.8E+02	4.4E+02	3E-08	1E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	10	8.4E+02	5.8E+03	1E-08	2E-03		
		Toluene	10	No value	4.4E+04	-	2E-04		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SG45-15	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-07	1E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	30	1.8E+02	4.4E+02	2E-07	7E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	30	2.2E+02	1.4E+04	1E-07	2E-03		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Ethylbenzene	6	2.0E+03	1.5E+05	3E-09	4E-05		
		m,p-Xylene	20	No value	1.5E+04	-	1E-03		
		Methylene Chloride	6	5.1E+03	5.8E+04	1E-09	1E-04		
		o-Xylene	7	No value	1.5E+04	-	5E-04		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	10	8.4E+02	5.8E+03	1E-08	2E-03		
		Toluene	100	No value	4.4E+04	-	2E-03		
		Trichloroethene (TCE)	20	1.3E+03	2.9E+02	2E-08	7E-02		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG45-25	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-06	1E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	30	3.2E+03	1.2E+05	9E-09	3E-04		
		1,1-Dichloroethene	100	No value	1.0E+04	-	1E-02		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	9	1.8E+02	4.4E+02	5E-08	2E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	900	No value	1.2E+03	-	8E-01		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		m,p-Xylene	10	No value	1.5E+04	-	7E-04		
		Methylene Chloride	4	5.1E+03	5.8E+04	8E-10	7E-05		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	20	8.4E+02	5.8E+03	2E-08	3E-03		
		Toluene	200	No value	4.4E+04	-	5E-03		
		Trichloroethene (TCE)	3500	1.3E+03	2.9E+02	3E-06	1E+01		
		Vinyl Chloride	60	6.6E+01	1.5E+04	9E-07	4E-03		
SAIA-SG45-35	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-06	1E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	30	3.2E+03	1.2E+05	9E-09	3E-04		
		1,1-Dichloroethene	100	No value	1.0E+04	-	1E-02		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	5	1.8E+02	4.4E+02	3E-08	1E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	1100	No value	1.2E+03	-	9E-01		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	30	8.4E+02	5.8E+03	4E-08	5E-03		
		Toluene	100	No value	4.4E+04	-	2E-03		
		Trichloroethene (TCE)	3900	1.3E+03	2.9E+02	3E-06	1E+01		
		Vinyl Chloride	50	6.6E+01	1.5E+04	8E-07	3E-03		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG45-5	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-08	2E-02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	6	1.8E+02	4.4E+02	3E-08	1E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	10	8.4E+02	5.8E+03	1E-08	2E-03		
		Toluene	10	No value	4.4E+04	-	2E-04		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SG46-05	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	2E-04
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	7	No value	4.4E+04	-	2E-04		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG46-15	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-07	4E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	20	1.8E+02	4.4E+02	1E-07	5E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	10	2.2E+02	1.4E+04	5E-08	7E-04		
		Chloromethane	3	No value	1.3E+04	-	2E-04		
		cis-1,2-Dichloroethylene	20	No value	1.2E+03	-	2E-02		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		m,p-Xylene	10	No value	1.5E+04	-	7E-04		
		Methylene Chloride	6	5.1E+03	5.8E+04	1E-09	1E-04		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	40	No value	4.4E+04	-	9E-04		
		Trichloroethene (TCE)	100	1.3E+03	2.9E+02	8E-08	3E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SG46-25	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-07	2E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	20	1.8E+02	4.4E+02	1E-07	5E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	10	2.2E+02	1.4E+04	5E-08	7E-04		
		Chloromethane	2	No value	1.3E+04	-	2E-04		
		cis-1,2-Dichloroethylene	10	No value	1.2E+03	-	9E-03		
		Ethylbenzene	5	2.0E+03	1.5E+05	2E-09	3E-05		
		m,p-Xylene	10	No value	1.5E+04	-	7E-04		
		Methylene Chloride	5	5.1E+03	5.8E+04	1E-09	9E-05		
		o-Xylene	5	No value	1.5E+04	-	3E-04		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	10	8.4E+02	5.8E+03	1E-08	2E-03		
		Toluene	60	No value	4.4E+04	-	1E-03		
		Trichloroethene (TCE)	500	1.3E+03	2.9E+02	4E-07	2E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG46-35	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-05	6E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	70	3.2E+03	1.2E+05	2E-08	6E-04		
		1,1-Dichloroethene	90	No value	1.0E+04	-	9E-03		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	30	1.8E+02	4.4E+02	2E-07	7E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	7	No value	1.3E+04	-	5E-04		
		cis-1,2-Dichloroethylene	1900	No value	1.2E+03	-	2E+00		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	5	5.1E+03	5.8E+04	1E-09	9E-05		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	8	8.4E+02	5.8E+03	1E-08	1E-03		
		Toluene	60	No value	4.4E+04	-	1E-03		
		Trichloroethene (TCE)	16000	1.3E+03	2.9E+02	1E-05	5E+01		
		Vinyl Chloride	20	6.6E+01	1.5E+04	3E-07	1E-03		
SAIA-SG47-05	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-08	2E-03
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	7	2.2E+02	1.4E+04	3E-08	5E-04		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	4	5.1E+03	5.8E+04	8E-10	7E-05		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	9	8.4E+02	5.8E+03	1E-08	2E-03		
		Toluene	8	No value	4.4E+04	-	2E-04		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG47-15	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-08	2E-02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	8	1.8E+02	4.4E+02	5E-08	2E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		m,p-Xylene	10	No value	1.5E+04	-	7E-04		
		Methylene Chloride	5	5.1E+03	5.8E+04	1E-09	9E-05		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	10	8.4E+02	5.8E+03	1E-08	2E-03		
		Toluene	80	No value	4.4E+04	-	2E-03		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SAIA-SG47-25	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-07	2E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	20	1.8E+02	4.4E+02	1E-07	5E-02		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	10	2.2E+02	1.4E+04	5E-08	7E-04		
		Chloromethane	3	No value	1.3E+04	-	2E-04		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		m,p-Xylene	10	No value	1.5E+04	-	7E-04		
		Methylene Chloride	6	5.1E+03	5.8E+04	1E-09	1E-04		
		o-Xylene	5	No value	1.5E+04	-	3E-04		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	8	8.4E+02	5.8E+03	1E-08	1E-03		
		Toluene	60	No value	4.4E+04	-	1E-03		
		Trichloroethene (TCE)	40	1.3E+03	2.9E+02	3E-08	1E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG47-35	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	9E-07	3E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	60	1.8E+02	4.4E+02	3E-07	1E-01		
		Chlorobenzene	0	No value	7.3E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	7	No value	1.2E+03	-	6E-03		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		m,p-Xylene	10	No value	1.5E+04	-	7E-04		
		Methylene Chloride	9	5.1E+03	5.8E+04	2E-09	2E-04		
		o-Xylene	0	No value	1.5E+04	-	-		
		Styrene	0	No value	1.3E+05	-	-		
		Tetrachloroethene (PCE)	10	8.4E+02	5.8E+03	1E-08	2E-03		
		Toluene	600	No value	4.4E+04	-	1E-02		
		Trichloroethene (TCE)	50	1.3E+03	2.9E+02	4E-08	2E-01		
		Vinyl Chloride	30	6.6E+01	1.5E+04	5E-07	2E-03		
SG10-15, P4814cc	15	1,1,1-Trichloroethane	70000	No value	1.5E+05	-	5E-01	3E-02	4E+03
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	380000	3.2E+03	1.2E+05	1E-04	3E+00		
		1,1-Dichloroethene	40000	No value	1.0E+04	-	4E+00		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	4000000	No value	1.2E+03	-	3E+03		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	1900000	6.6E+01	1.5E+04	3E-02	1E+02		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG10-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	9E-02	3E+03
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	650000	3.2E+03	1.2E+05	2E-04	6E+00		
		1,1-Dichloroethene	86000	No value	1.0E+04	-	8E+00		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	2600000	No value	1.2E+03	-	2E+03		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	6100000	6.6E+01	1.5E+04	9E-02	4E+02		
SG10-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-04	9E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	42000	No value	1.2E+03	-	4E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	16000	1.3E+03	2.9E+02	1E-05	5E+01		
		Vinyl Chloride	9100	6.6E+01	1.5E+04	1E-04	6E-01		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG10-5, P4330cc	5	1,1,1-Trichloroethane	190000	No value	1.5E+05	-	1E+00	8E-03	4E+03
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	250000	3.2E+03	1.2E+05	8E-05	2E+00		
		1,1-Dichloroethene	16000	No value	1.0E+04	-	2E+00		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	1800	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	4400000	No value	1.2E+03	-	4E+03		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	640	No value	1.5E+04	-	4E-02		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	1100	8.4E+02	5.8E+03	1E-06	2E-01		
		Toluene	1500	No value	4.4E+04	-	3E-02		
		trans-1,2-Dichloroethene	52000	No value	1.2E+04	-	4E+00		
		Trichloroethene (TCE)	63000	1.3E+03	2.9E+02	5E-05	2E+02		
		Vinyl Chloride	520000	6.6E+01	1.5E+04	8E-03	4E+01		
SG11-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-07	3E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	21	1.8E+02	4.4E+02	1E-07	5E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	74	No value	1.2E+03	-	6E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	53	1.3E+03	2.9E+02	4E-08	2E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG11-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-06	3E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	590	No value	1.2E+03	-	5E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	70	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	130	8.4E+02	5.8E+03	2E-07	2E-02		
		Toluene	26	No value	4.4E+04	-	6E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	830	1.3E+03	2.9E+02	7E-07	3E+00		
		Vinyl Chloride	21	6.6E+01	1.5E+04	3E-07	1E-03		
SG11-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG11-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-07	8E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	200	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	170	1.3E+03	2.9E+02	1E-07	6E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SG1-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	9E-07	5E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	44	No value	1.2E+03	-	4E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	720	8.4E+02	5.8E+03	9E-07	1E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	100	1.3E+03	2.9E+02	8E-08	3E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG12-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	8E-06	3E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	130	3.2E+03	1.2E+05	4E-08	1E-03		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	32	No value	8.7E+03	-	4E-03		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	57	1.8E+02	4.4E+02	3E-07	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	5200	No value	1.2E+03	-	4E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	32	No value	2.9E+04	-	1E-03		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	36	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	81	8.4E+02	5.8E+03	1E-07	1E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	46	No value	1.2E+04	-	4E-03		
		Trichloroethene (TCE)	8900	1.3E+03	2.9E+02	7E-06	3E+01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SG12-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-05	6E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	160	3.2E+03	1.2E+05	5E-08	1E-03		
		1,1-Dichloroethene	190	No value	1.0E+04	-	2E-02		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	29	No value	8.7E+03	-	3E-03		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	96	1.8E+02	4.4E+02	5E-07	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	6600	No value	1.2E+03	-	6E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	45	No value	1.5E+04	-	3E-03		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	32	No value	1.5E+04	-	2E-03		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	120	8.4E+02	5.8E+03	1E-07	2E-02		
		Toluene	34	No value	4.4E+04	-	8E-04		
		trans-1,2-Dichloroethene	91	No value	1.2E+04	-	8E-03		
		Trichloroethene (TCE)	15000	1.3E+03	2.9E+02	1E-05	5E+01		
		Vinyl Chloride	66	6.6E+01	1.5E+04	1E-06	5E-03		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG12-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	8E-06	4E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	110	3.2E+03	1.2E+05	3E-08	9E-04		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	31	No value	8.7E+03	-	4E-03		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	46	1.8E+02	4.4E+02	3E-07	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	5200	No value	1.2E+03	-	4E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	44	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	80	8.4E+02	5.8E+03	1E-07	1E-02		
		Toluene	23	No value	4.4E+04	-	5E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	9900	1.3E+03	2.9E+02	8E-06	3E+01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SG12-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-05	9E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	15000	No value	1.2E+03	-	1E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	22000	1.3E+03	2.9E+02	2E-05	8E+01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG1-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-05	7E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	250	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	42000	8.4E+02	5.8E+03	5E-05	7E+00		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	18000	1.3E+03	2.9E+02	1E-05	6E+01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SG13-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-06	1E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	44	1.8E+02	4.4E+02	2E-07	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	160	No value	1.2E+03	-	1E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	170	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	3600	8.4E+02	5.8E+03	4E-06	6E-01		
		Toluene	94	No value	4.4E+04	-	2E-03		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	110	1.3E+03	2.9E+02	9E-08	4E-01		
		Vinyl Chloride	35	6.6E+01	1.5E+04	5E-07	2E-03		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG13-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-07	2E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	190	No value	6.0E+06	-	3E-05		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	61	8.4E+02	5.8E+03	7E-08	1E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	43	1.3E+03	2.9E+02	3E-08	1E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SG13-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	9E-07	1E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	72	No value	1.2E+03	-	6E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	65	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	550	8.4E+02	5.8E+03	7E-07	9E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	290	1.3E+03	2.9E+02	2E-07	1E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG13-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-06	9E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	180	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	2900	8.4E+02	5.8E+03	3E-06	5E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	61	1.3E+03	2.9E+02	5E-08	2E-01		
		Vinyl Chloride	53	6.6E+01	1.5E+04	8E-07	4E-03		
SG1-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-05	3E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	1900	No value	1.2E+03	-	2E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	6100	8.4E+02	5.8E+03	7E-06	1E+00		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	8100	1.3E+03	2.9E+02	6E-06	3E+01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG14-15 Rep, P4864cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-08	1E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	30	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	34	No value	4.4E+04	-	8E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	35	1.3E+03	2.9E+02	3E-08	1E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SG14-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG14-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-06	2E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	25	No value	8.7E+03	-	3E-03		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	31	1.8E+02	4.4E+02	2E-07	7E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	230	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	200	No value	1.5E+04	-	1E-02		
		Ethylbenzene	24	2.0E+03	1.5E+05	1E-08	2E-04		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	54	No value	1.5E+04	-	4E-03		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	23	No value	1.5E+04	-	2E-03		
		p-Cymene (p-Isopropyltoluene)	70	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	140	8.4E+02	5.8E+03	2E-07	2E-02		
		Toluene	91	No value	4.4E+04	-	2E-03		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	480	1.3E+03	2.9E+02	4E-07	2E+00		
		Vinyl Chloride	18	6.6E+01	1.5E+04	3E-07	1E-03		
SG14-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-07	2E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	44	No value	1.0E+04	-	4E-03		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	150	No value	1.2E+03	-	1E-01		
		Dichlorodifluoromethane	150	No value	1.5E+04	-	1E-02		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	570	1.3E+03	2.9E+02	5E-07	2E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG14-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-07	4E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	30	No value	1.5E+04	-	2E-03		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	46	8.4E+02	5.8E+03	5E-08	8E-03		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	110	1.3E+03	2.9E+02	9E-08	4E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SG1-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-05	3E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	13000	8.4E+02	5.8E+03	2E-05	2E+00		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	130	1.3E+03	2.9E+02	1E-07	4E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG15-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-06	5E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	110	1.8E+02	4.4E+02	6E-07	3E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	810	8.4E+02	5.8E+03	1E-06	1E-01		
		Toluene	40	No value	4.4E+04	-	9E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	32	1.3E+03	2.9E+02	3E-08	1E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SG15-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-06	2E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	23	1.8E+02	4.4E+02	1E-07	5E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	1600	8.4E+02	5.8E+03	2E-06	3E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	460	1.3E+03	2.9E+02	4E-07	2E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG15-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-06	2E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	1200	8.4E+02	5.8E+03	1E-06	2E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	580	1.3E+03	2.9E+02	5E-07	2E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SG15-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	9E-07	1E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	750	8.4E+02	5.8E+03	9E-07	1E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG16-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-06	5E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	29	1.8E+02	4.4E+02	2E-07	7E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	55	No value	1.2E+03	-	5E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	38	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	820	8.4E+02	5.8E+03	1E-06	1E-01		
		Toluene	35	No value	4.4E+04	-	8E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	72	1.3E+03	2.9E+02	6E-08	2E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SG16-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-06	4E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	72	1.8E+02	4.4E+02	4E-07	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	870	No value	1.2E+03	-	7E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	1100	8.4E+02	5.8E+03	1E-06	2E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	880	1.3E+03	2.9E+02	7E-07	3E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG16-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	9E-07	7E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	610	8.4E+02	5.8E+03	7E-07	1E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	170	1.3E+03	2.9E+02	1E-07	6E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SG16-5 Rep, P4380cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-07	3E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	66	No value	1.2E+03	-	6E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	390	8.4E+02	5.8E+03	5E-07	7E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	49	1.3E+03	2.9E+02	4E-08	2E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG16-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-07	5E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	120	No value	1.2E+03	-	1E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	280	8.4E+02	5.8E+03	3E-07	5E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	110	1.3E+03	2.9E+02	9E-08	4E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SG17-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-07	3E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	38	1.8E+02	4.4E+02	2E-07	9E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	35	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	210	8.4E+02	5.8E+03	3E-07	4E-02		
		Toluene	44	No value	4.4E+04	-	1E-03		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	39	1.3E+03	2.9E+02	3E-08	1E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG17-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-06	6E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	100	1.8E+02	4.4E+02	6E-07	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	270	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	1400	8.4E+02	5.8E+03	2E-06	2E-01		
		Toluene	53	No value	4.4E+04	-	1E-03		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	1700	1.3E+03	2.9E+02	1E-06	6E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SG17-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	7E-06	3E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	130	3.2E+03	1.2E+05	4E-08	1E-03		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	36	1.8E+02	4.4E+02	2E-07	8E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	3000	No value	1.2E+03	-	3E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	480	8.4E+02	5.8E+03	6E-07	8E-02		
		Toluene	19	No value	4.4E+04	-	4E-04		
		trans-1,2-Dichloroethene	69	No value	1.2E+04	-	6E-03		
		Trichloroethene (TCE)	6800	1.3E+03	2.9E+02	5E-06	2E+01		
		Vinyl Chloride	27	6.6E+01	1.5E+04	4E-07	2E-03		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG17-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-07	3E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	190	8.4E+02	5.8E+03	2E-07	3E-02		
		Toluene	27	No value	4.4E+04	-	6E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	82	1.3E+03	2.9E+02	7E-08	3E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SG18-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-07	8E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	82	No value	1.2E+03	-	7E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	200	1.3E+03	2.9E+02	2E-07	7E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG18-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-07	1E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	280	1.3E+03	2.9E+02	2E-07	1E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SG18-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	6E-04
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	25	No value	4.4E+04	-	6E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG18-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-08	2E-01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	65	1.3E+03	2.9E+02	5E-08	2E-01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SG2-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-05	3E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	110	3.2E+03	1.2E+05	3E-08	9E-04		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	41	1.8E+02	4.4E+02	2E-07	9E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	2700	No value	1.2E+03	-	2E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	47	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	4400	8.4E+02	5.8E+03	5E-06	8E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	41	No value	1.2E+04	-	4E-03		
		Trichloroethene (TCE)	8400	1.3E+03	2.9E+02	7E-06	3E+01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG2-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-05	7E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	280	3.2E+03	1.2E+05	9E-08	2E-03		
		1,1-Dichloroethene	320	No value	1.0E+04	-	3E-02		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	6700	No value	1.2E+03	-	6E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	220	8.4E+02	5.8E+03	3E-07	4E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	610	No value	1.2E+04	-	5E-02		
		Trichloroethene (TCE)	18000	1.3E+03	2.9E+02	1E-05	6E+01		
		Vinyl Chloride	73	6.6E+01	1.5E+04	1E-06	5E-03		
SG2-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-04	1E+03
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	8100	3.2E+03	1.2E+05	3E-06	7E-02		
		1,1-Dichloroethene	1300	No value	1.0E+04	-	1E-01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	75	2.0E+02	1.0E+03	4E-07	7E-02		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	75	1.8E+02	4.4E+02	4E-07	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	360000	No value	1.2E+03	-	3E+02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	610	8.4E+02	5.8E+03	7E-07	1E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	7700	No value	1.2E+04	-	7E-01		
		Trichloroethene (TCE)	280000	1.3E+03	2.9E+02	2E-04	1E+03		
		Vinyl Chloride	2500	6.6E+01	1.5E+04	4E-05	2E-01		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG2-5 Rep, P5580cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-06	9E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	790	No value	1.2E+03	-	7E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	3200	8.4E+02	5.8E+03	4E-06	5E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	2400	1.3E+03	2.9E+02	2E-06	8E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SG2-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-06	8E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	1600	No value	1.2E+03	-	1E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	3400	8.4E+02	5.8E+03	4E-06	6E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	1700	1.3E+03	2.9E+02	1E-06	6E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG3-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-05	2E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	8400	No value	1.2E+03	-	7E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	3900	1.3E+03	2.9E+02	3E-06	1E+01		
		Vinyl Chloride	610	6.6E+01	1.5E+04	9E-06	4E-02		
SG3-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-03	4E+02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	16000	3.2E+03	1.2E+05	5E-06	1E-01		
		1,1-Dichloroethene	3400	No value	1.0E+04	-	3E-01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	130000	No value	1.2E+03	-	1E+02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	3200	No value	4.4E+04	-	7E-02		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	89000	1.3E+03	2.9E+02	7E-05	3E+02		
		Vinyl Chloride	75000	6.6E+01	1.5E+04	1E-03	5E+00		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG3-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	8E-03	3E+04
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	190000	3.2E+03	1.2E+05	6E-05	2E+00		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	4900000	No value	1.2E+03	-	4E+03		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	7800000	1.3E+03	2.9E+02	6E-03	3E+04		
		Vinyl Chloride	130000	6.6E+01	1.5E+04	2E-03	9E+00		
SG3-5 Rep, P4380cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-03	1E+03
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	21000	3.2E+03	1.2E+05	7E-06	2E-01		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	6100	No value	8.7E+03	-	7E-01		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	330000	No value	1.2E+03	-	3E+02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	4800	No value	1.5E+04	-	3E-01		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	3400	No value	1.5E+04	-	2E-01		
		p-Cymene (p-Isopropyltoluene)	7800	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	2900	No value	4.4E+04	-	7E-02		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	270000	1.3E+03	2.9E+02	2E-04	9E+02		
		Vinyl Chloride	91000	6.6E+01	1.5E+04	1E-03	6E+00		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG3-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-03	7E+02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	17000	3.2E+03	1.2E+05	5E-06	1E-01		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	4300	No value	8.7E+03	-	5E-01		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	210000	No value	1.2E+03	-	2E+02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	3200	No value	1.5E+04	-	2E-01		
		p-Cymene (p-Isopropyltoluene)	4400	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	2500	No value	4.4E+04	-	6E-02		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	140000	1.3E+03	2.9E+02	1E-04	5E+02		
		Vinyl Chloride	88000	6.6E+01	1.5E+04	1E-03	6E+00		
SG4-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-04	5E+02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	2800	3.2E+03	1.2E+05	9E-07	2E-02		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	13000	No value	1.2E+03	-	1E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	8200	8.4E+02	5.8E+03	1E-05	1E+00		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	130000	1.3E+03	2.9E+02	1E-04	4E+02		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG4-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-04	1E+03
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	11000	3.2E+03	1.2E+05	3E-06	9E-02		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	77000	No value	1.2E+03	-	7E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	5300	8.4E+02	5.8E+03	6E-06	9E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	2100	No value	1.2E+04	-	2E-01		
		Trichloroethene (TCE)	310000	1.3E+03	2.9E+02	2E-04	1E+03		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SG4-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-04	3E+03
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	23000	3.2E+03	1.2E+05	7E-06	2E-01		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	650000	No value	1.2E+03	-	6E+02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	11000	No value	1.2E+04	-	9E-01		
		Trichloroethene (TCE)	650000	1.3E+03	2.9E+02	5E-04	2E+03		
		Vinyl Chloride	6300	6.6E+01	1.5E+04	1E-04	4E-01		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG4-5, P4330cc	5	1,1,1-Trichloroethane	160	No value	1.5E+05	-	1E-03	1E-04	5E+02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	1900	3.2E+03	1.2E+05	6E-07	2E-02		
		1,1-Dichloroethene	120	No value	1.0E+04	-	1E-02		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	79	No value	8.7E+03	-	9E-03		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	70	1.8E+02	4.4E+02	4E-07	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	120	2.2E+02	1.4E+04	5E-07	8E-03		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	40000	No value	1.2E+03	-	3E+01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	26	2.0E+03	1.5E+05	1E-08	2E-04		
		Isopropylbenzene (Cumene)	54	No value	6.0E+04	-	9E-04		
		m,p-Xylene	53	No value	1.5E+04	-	4E-03		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	32	No value	1.5E+04	-	2E-03		
		p-Cymene (p-Isopropyltoluene)	100	No value	No value	-	-		
		sec-Butylbenzene	96	No value	5.8E+04	-	2E-03		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	6700	8.4E+02	5.8E+03	8E-06	1E+00		
		Toluene	44	No value	4.4E+04	-	1E-03		
		trans-1,2-Dichloroethene	260	No value	1.2E+04	-	2E-02		
		Trichloroethene (TCE)	130000	1.3E+03	2.9E+02	1E-04	4E+02		
		Vinyl Chloride	390	6.6E+01	1.5E+04	6E-06	3E-02		
SG5-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-06	9E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	70	1.8E+02	4.4E+02	4E-07	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	80	No value	1.2E+03	-	7E-02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	770	8.4E+02	5.8E+03	9E-07	1E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	2500	1.3E+03	2.9E+02	2E-06	9E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG5-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-05	4E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	30	No value	1.0E+04	-	3E-03		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	170	1.8E+02	4.4E+02	1E-06	4E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	200	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	130	8.4E+02	5.8E+03	2E-07	2E-02		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	83	No value	1.2E+04	-	7E-03		
		Trichloroethene (TCE)	11000	1.3E+03	2.9E+02	9E-06	4E+01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SG5-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-05	7E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	810	No value	1.2E+03	-	7E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	20000	1.3E+03	2.9E+02	2E-05	7E+01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG5-5 Rep, P4380cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-06	4E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	240	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	970	8.4E+02	5.8E+03	1E-06	2E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	1200	1.3E+03	2.9E+02	1E-06	4E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SG5-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-06	4E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	210	No value	1.2E+03	-	2E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	990	8.4E+02	5.8E+03	1E-06	2E-01		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	1200	1.3E+03	2.9E+02	1E-06	4E+00		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG6-15, 1PV, P481cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-06	2E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	44	No value	8.7E+03	-	5E-03		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	1800	No value	1.2E+03	-	2E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	32	1.5E+02	4.3E+02	2E-07	7E-02		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	51	No value	No value	-	-		
		sec-Butylbenzene	29	No value	5.8E+04	-	5E-04		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	110	6.6E+01	1.5E+04	2E-06	8E-03		
SG6-15, 3PV, P1443cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	8E-06	3E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	39	No value	1.0E+04	-	4E-03		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	34	No value	8.7E+03	-	4E-03		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	3800	No value	1.2E+03	-	3E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	44	No value	2.9E+04	-	2E-03		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	29	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	43	1.3E+03	2.9E+02	3E-08	1E-01		
		Vinyl Chloride	500	6.6E+01	1.5E+04	8E-06	3E-02		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG6-25, 10PV, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-03	4E+02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	1900	3.2E+03	1.2E+05	6E-07	2E-02		
		1,1-Dichloroethene	6800	No value	1.0E+04	-	7E-01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	320	No value	8.7E+03	-	4E-02		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	530	1.8E+02	4.4E+02	3E-06	1E+00		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	470000	No value	1.2E+03	-	4E+02		
		Dichlorodifluoromethane	270	No value	1.5E+04	-	2E-02		
		Ethylbenzene	89	2.0E+03	1.5E+05	4E-08	6E-04		
		Isopropylbenzene (Cumene)	100	No value	6.0E+04	-	2E-03		
		m,p-Xylene	220	No value	1.5E+04	-	2E-02		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	120	No value	1.5E+04	-	8E-03		
		p-Cymene (p-Isopropyltoluene)	250	No value	No value	-	-		
		sec-Butylbenzene	180	No value	5.8E+04	-	3E-03		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	61	8.4E+02	5.8E+03	7E-08	1E-02		
		Toluene	110	No value	4.4E+04	-	3E-03		
		trans-1,2-Dichloroethene	4300	No value	1.2E+04	-	4E-01		
		Trichloroethene (TCE)	2600	1.3E+03	2.9E+02	2E-06	9E+00		
		Vinyl Chloride	130000	6.6E+01	1.5E+04	2E-03	9E+00		
SG6-25, 1PV, P530cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	0E+00	0E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	0	No value	1.2E+03	-	-		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG6-25, 3PV, P1590cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-03	4E+02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	890	3.2E+03	1.2E+05	3E-07	8E-03		
		1,1-Dichloroethene	2900	No value	1.0E+04	-	3E-01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	160	No value	8.7E+03	-	2E-02		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	170	1.8E+02	4.4E+02	1E-06	4E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	430000	No value	1.2E+03	-	4E+02		
		Dichlorodifluoromethane	85	No value	1.5E+04	-	6E-03		
		Ethylbenzene	50	2.0E+03	1.5E+05	2E-08	3E-04		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	160	No value	1.5E+04	-	1E-02		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	71	No value	1.5E+04	-	5E-03		
		p-Cymene (p-Isopropyltoluene)	120	No value	No value	-	-		
		sec-Butylbenzene	83	No value	5.8E+04	-	1E-03		
		tert-Butylbenzene	64	No value	No value	-	-		
		Tetrachloroethene (PCE)	78	8.4E+02	5.8E+03	9E-08	1E-02		
		Toluene	110	No value	4.4E+04	-	3E-03		
		trans-1,2-Dichloroethene	1900	No value	1.2E+04	-	2E-01		
		Trichloroethene (TCE)	3200	1.3E+03	2.9E+02	3E-06	1E+01		
		Vinyl Chloride	120000	6.6E+01	1.5E+04	2E-03	8E+00		
SG6-35, 10PV, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-04	2E+02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	620	3.2E+03	1.2E+05	2E-07	5E-03		
		1,1-Dichloroethene	3300	No value	1.0E+04	-	3E-01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	65	No value	8.7E+03	-	8E-03		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	140	6.6E+02	4.3E+03	2E-07	3E-02		
		Benzene	80	1.8E+02	4.4E+02	5E-07	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	66000	No value	1.2E+03	-	6E+01		
		Dichlorodifluoromethane	240	No value	1.5E+04	-	2E-02		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	25	No value	1.5E+04	-	2E-03		
		p-Cymene (p-Isopropyltoluene)	80	No value	No value	-	-		
		sec-Butylbenzene	83	No value	5.8E+04	-	1E-03		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	20	No value	4.4E+04	-	5E-04		
		trans-1,2-Dichloroethene	2400	No value	1.2E+04	-	2E-01		
		Trichloroethene (TCE)	33000	1.3E+03	2.9E+02	3E-05	1E+02		
		Vinyl Chloride	7300	6.6E+01	1.5E+04	1E-04	5E-01		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG6-35, 1PV, P581cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	2E-04	1E+02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	710	3.2E+03	1.2E+05	2E-07	6E-03		
		1,1-Dichloroethene	3600	No value	1.0E+04	-	4E-01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	100	No value	8.7E+03	-	1E-02		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	150	6.6E+02	4.3E+03	2E-07	3E-02		
		Benzene	100	1.8E+02	4.4E+02	6E-07	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	57000	No value	1.2E+03	-	5E+01		
		Dichlorodifluoromethane	270	No value	1.5E+04	-	2E-02		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	78	1.5E+02	4.3E+02	5E-07	2E-01		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	29	No value	1.5E+04	-	2E-03		
		p-Cymene (p-Isopropyltoluene)	130	No value	No value	-	-		
		sec-Butylbenzene	110	No value	5.8E+04	-	2E-03		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	31	No value	4.4E+04	-	7E-04		
		trans-1,2-Dichloroethene	2700	No value	1.2E+04	-	2E-01		
		Trichloroethene (TCE)	28000	1.3E+03	2.9E+02	2E-05	1E+02		
		Vinyl Chloride	8900	6.6E+01	1.5E+04	1E-04	6E-01		
SG6-35, 3PV, P1742cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	9E-05	1E+02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	530	3.2E+03	1.2E+05	2E-07	5E-03		
		1,1-Dichloroethene	2700	No value	1.0E+04	-	3E-01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	58	No value	8.7E+03	-	7E-03		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	100	6.6E+02	4.3E+03	2E-07	2E-02		
		Benzene	81	1.8E+02	4.4E+02	5E-07	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	41000	No value	1.2E+03	-	4E+01		
		Dichlorodifluoromethane	230	No value	1.5E+04	-	2E-02		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	46	1.5E+02	4.3E+02	3E-07	1E-01		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	51	No value	No value	-	-		
		sec-Butylbenzene	74	No value	5.8E+04	-	1E-03		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	24	No value	4.4E+04	-	5E-04		
		trans-1,2-Dichloroethene	2000	No value	1.2E+04	-	2E-01		
		Trichloroethene (TCE)	21000	1.3E+03	2.9E+02	2E-05	7E+01		
		Vinyl Chloride	4900	6.6E+01	1.5E+04	7E-05	3E-01		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG6-5, 10PV, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-04	4E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	270	3.2E+03	1.2E+05	8E-08	2E-03		
		1,1-Dichloroethene	61	No value	1.0E+04	-	6E-03		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	710	No value	8.7E+03	-	8E-02		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	36	1.8E+02	4.4E+02	2E-07	8E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	1800	No value	1.2E+03	-	2E+00		
		Dichlorodifluoromethane	45	No value	1.5E+04	-	3E-03		
		Ethylbenzene	180	2.0E+03	1.5E+05	9E-08	1E-03		
		Isopropylbenzene (Cumene)	150	No value	6.0E+04	-	3E-03		
		m,p-Xylene	680	No value	1.5E+04	-	5E-02		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	570	No value	2.9E+04	-	2E-02		
		o-Xylene	360	No value	1.5E+04	-	2E-02		
		p-Cymene (p-Isopropyltoluene)	380	No value	No value	-	-		
		sec-Butylbenzene	280	No value	5.8E+04	-	5E-03		
		tert-Butylbenzene	290	No value	No value	-	-		
		Tetrachloroethene (PCE)	240	8.4E+02	5.8E+03	3E-07	4E-02		
		Toluene	110	No value	4.4E+04	-	3E-03		
		trans-1,2-Dichloroethene	65	No value	1.2E+04	-	6E-03		
		Trichloroethene (TCE)	480	1.3E+03	2.9E+02	4E-07	2E+00		
		Vinyl Chloride	7000	6.6E+01	1.5E+04	1E-04	5E-01		
SG6-5, 1PV, P433cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	8E-05	4E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	250	3.2E+03	1.2E+05	8E-08	2E-03		
		1,1-Dichloroethene	68	No value	1.0E+04	-	7E-03		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	590	No value	8.7E+03	-	7E-02		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	36	1.8E+02	4.4E+02	2E-07	8E-02		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	1800	No value	1.2E+03	-	2E+00		
		Dichlorodifluoromethane	47	No value	1.5E+04	-	3E-03		
		Ethylbenzene	190	2.0E+03	1.5E+05	9E-08	1E-03		
		Isopropylbenzene (Cumene)	130	No value	6.0E+04	-	2E-03		
		m,p-Xylene	660	No value	1.5E+04	-	5E-02		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	350	No value	2.9E+04	-	1E-02		
		o-Xylene	330	No value	1.5E+04	-	2E-02		
		p-Cymene (p-Isopropyltoluene)	310	No value	No value	-	-		
		sec-Butylbenzene	230	No value	5.8E+04	-	4E-03		
		tert-Butylbenzene	220	No value	No value	-	-		
		Tetrachloroethene (PCE)	220	8.4E+02	5.8E+03	3E-07	4E-02		
		Toluene	120	No value	4.4E+04	-	3E-03		
		trans-1,2-Dichloroethene	67	No value	1.2E+04	-	6E-03		
		Trichloroethene (TCE)	560	1.3E+03	2.9E+02	4E-07	2E+00		
		Vinyl Chloride	4900	6.6E+01	1.5E+04	7E-05	3E-01		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG6-5, 3PV, P1299cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	8E-05	3E+00
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	220	3.2E+03	1.2E+05	7E-08	2E-03		
		1,1-Dichloroethene	44	No value	1.0E+04	-	4E-03		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	540	No value	8.7E+03	-	6E-02		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	43	1.8E+02	4.4E+02	2E-07	1E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	1500	No value	1.2E+03	-	1E+00		
		Dichlorodifluoromethane	33	No value	1.5E+04	-	2E-03		
		Ethylbenzene	160	2.0E+03	1.5E+05	8E-08	1E-03		
		Isopropylbenzene (Cumene)	130	No value	6.0E+04	-	2E-03		
		m,p-Xylene	570	No value	1.5E+04	-	4E-02		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	350	No value	2.9E+04	-	1E-02		
		o-Xylene	300	No value	1.5E+04	-	2E-02		
		p-Cymene (p-Isopropyltoluene)	280	No value	No value	-	-		
		sec-Butylbenzene	220	No value	5.8E+04	-	4E-03		
		tert-Butylbenzene	210	No value	No value	-	-		
		Tetrachloroethene (PCE)	190	8.4E+02	5.8E+03	2E-07	3E-02		
		Toluene	110	No value	4.4E+04	-	3E-03		
		trans-1,2-Dichloroethene	62	No value	1.2E+04	-	5E-03		
		Trichloroethene (TCE)	440	1.3E+03	2.9E+02	4E-07	2E+00		
		Vinyl Chloride	5000	6.6E+01	1.5E+04	8E-05	3E-01		
SG7-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	5E-06	2E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	89	1.8E+02	4.4E+02	5E-07	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	600	No value	1.2E+03	-	5E-01		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	23	No value	4.4E+04	-	5E-04		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	6100	1.3E+03	2.9E+02	5E-06	2E+01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG7-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-04	4E+02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	1300	3.2E+03	1.2E+05	4E-07	1E-02		
		1,1-Dichloroethene	280	No value	1.0E+04	-	3E-02		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	120	1.8E+02	4.4E+02	7E-07	3E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	24000	No value	1.2E+03	-	2E+01		
		Dichlorodifluoromethane	34	No value	1.5E+04	-	2E-03		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	90	8.4E+02	5.8E+03	1E-07	2E-02		
		Toluene	27	No value	4.4E+04	-	6E-04		
		trans-1,2-Dichloroethene	630	No value	1.2E+04	-	5E-02		
		Trichloroethene (TCE)	120000	1.3E+03	2.9E+02	1E-04	4E+02		
		Vinyl Chloride	130	6.6E+01	1.5E+04	2E-06	9E-03		
SG7-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-04	1E+03
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	5400	3.2E+03	1.2E+05	2E-06	5E-02		
		1,1-Dichloroethene	4100	No value	1.0E+04	-	4E-01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	200000	No value	1.2E+03	-	2E+02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	7300	No value	1.2E+04	-	6E-01		
		Trichloroethene (TCE)	340000	1.3E+03	2.9E+02	3E-04	1E+03		
		Vinyl Chloride	6800	6.6E+01	1.5E+04	1E-04	5E-01		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG7-5 Rep, P4380cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-05	6E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	2200	No value	1.2E+03	-	2E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	18000	1.3E+03	2.9E+02	1E-05	6E+01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		
SG7-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-05	5E+01
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	0	3.2E+03	1.2E+05	-	-		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	6300	No value	1.2E+03	-	5E+00		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	12000	1.3E+03	2.9E+02	1E-05	4E+01		
		Vinyl Chloride	0	6.6E+01	1.5E+04	-	-		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG8-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	8E-03	5E+03
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	180000	3.2E+03	1.2E+05	6E-05	2E+00		
		1,1-Dichloroethene	14000	No value	1.0E+04	-	1E+00		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	2400000	No value	1.2E+03	-	2E+03		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	880000	1.3E+03	2.9E+02	7E-04	3E+03		
		Vinyl Chloride	480000	6.6E+01	1.5E+04	7E-03	3E+01		
SG8-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-03	4E+03
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	130000	3.2E+03	1.2E+05	4E-05	1E+00		
		1,1-Dichloroethene	23000	No value	1.0E+04	-	2E+00		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	4000000	No value	1.2E+03	-	3E+03		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	85000	1.3E+03	2.9E+02	7E-05	3E+02		
		Vinyl Chloride	400000	6.6E+01	1.5E+04	6E-03	3E+01		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG8-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	4E-03	5E+03
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	110000	3.2E+03	1.2E+05	3E-05	9E-01		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	3100000	No value	1.2E+03	-	3E+03		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	65000	No value	1.2E+04	-	6E+00		
		Trichloroethene (TCE)	770000	1.3E+03	2.9E+02	6E-04	3E+03		
		Vinyl Chloride	200000	6.6E+01	1.5E+04	3E-03	1E+01		
SG8-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	7E-03	2E+02
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	83000	3.2E+03	1.2E+05	3E-05	7E-01		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	230000	No value	1.2E+03	-	2E+02		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	0	1.3E+03	2.9E+02	-	-		
		Vinyl Chloride	450000	6.6E+01	1.5E+04	7E-03	3E+01		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG9-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	3E-03	1E+04
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	240000	3.2E+03	1.2E+05	8E-05	2E+00		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	1800000	No value	1.2E+03	-	2E+03		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	3200000	1.3E+03	2.9E+02	3E-03	1E+04		
		Vinyl Chloride	51000	6.6E+01	1.5E+04	8E-04	3E+00		
SG9-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	6E-03	2E+04
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	420000	3.2E+03	1.2E+05	1E-04	4E+00		
		1,1-Dichloroethene	140000	No value	1.0E+04	-	1E+01		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	9100000	No value	1.2E+03	-	8E+03		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	45000	No value	2.9E+04	-	2E+00		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	63000	No value	1.2E+04	-	5E+00		
		Trichloroethene (TCE)	3000000	1.3E+03	2.9E+02	2E-03	1E+04		
		Vinyl Chloride	200000	6.6E+01	1.5E+04	3E-03	1E+01		

Table 6-9a
Risk Characterization (Soil Gas), Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG9-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	1.5E+05	-	-	1E-02	3E+04
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	1700	3.2E+02	2.9E+01	5E-06	6E+01		
		1,1-Dichloroethane	170000	3.2E+03	1.2E+05	5E-05	1E+00		
		1,1-Dichloroethene	30000	No value	1.0E+04	-	3E+00		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	900	2.0E+02	1.0E+03	5E-06	9E-01		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	850	1.8E+02	4.4E+02	5E-06	2E+00		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	8400000	No value	1.2E+03	-	7E+03		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	580	2.0E+03	1.5E+05	3E-07	4E-03		
		Isopropylbenzene (Cumene)	890	No value	6.0E+04	-	1E-02		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	1900	No value	2.9E+04	-	7E-02		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	780	No value	No value	-	-		
		sec-Butylbenzene	1000	No value	5.8E+04	-	2E-02		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	5200	8.4E+02	5.8E+03	6E-06	9E-01		
		Toluene	990	No value	4.4E+04	-	2E-02		
		trans-1,2-Dichloroethene	29000	No value	1.2E+04	-	2E+00		
		Trichloroethene (TCE)	6600000	1.3E+03	2.9E+02	5E-03	2E+04		
		Vinyl Chloride	300000	6.6E+01	1.5E+04	5E-03	2E+01		
SG9-5, P4330cc	5	1,1,1-Trichloroethane	100000	No value	1.5E+05	-	7E-01	6E-03	2E+04
		1,1,2,2-Tetrachloroethane	0	8.8E+01	1.2E+04	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	7.3E+05	-	-		
		1,1,2-Trichloroethane	0	3.2E+02	2.9E+01	-	-		
		1,1-Dichloroethane	430000	3.2E+03	1.2E+05	1E-04	4E+00		
		1,1-Dichloroethene	0	No value	1.0E+04	-	-		
		1,1-Difluoroethane	0	No value	6.0E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	4.7E+02	-	-		
		1,2-Dichloroethane	0	2.0E+02	1.0E+03	-	-		
		1,3,5-Trimethylbenzene	0	No value	8.7E+03	-	-		
		1,4-Dichlorobenzene	0	4.6E+02	1.2E+05	-	-		
		1,4-Dioxane (p-Dioxane)	0	6.6E+02	4.3E+03	-	-		
		Benzene	0	1.8E+02	4.4E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	2.2E+02	1.4E+04	-	-		
		Chloromethane	0	No value	1.3E+04	-	-		
		cis-1,2-Dichloroethylene	3700000	No value	1.2E+03	-	3E+03		
		Dichlorodifluoromethane	0	No value	1.5E+04	-	-		
		Ethylbenzene	0	2.0E+03	1.5E+05	-	-		
		Isopropylbenzene (Cumene)	0	No value	6.0E+04	-	-		
		m,p-Xylene	0	No value	1.5E+04	-	-		
		Methylene Chloride	0	5.1E+03	5.8E+04	-	-		
		Naphthalene	0	1.5E+02	4.3E+02	-	-		
		n-Butylbenzene	0	No value	2.9E+04	-	-		
		o-Xylene	0	No value	1.5E+04	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	5.8E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	8.4E+02	5.8E+03	-	-		
		Toluene	0	No value	4.4E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	1.2E+04	-	-		
		Trichloroethene (TCE)	5800000	1.3E+03	2.9E+02	5E-03	2E+04		
		Vinyl Chloride	93000	6.6E+01	1.5E+04	1E-03	6E+00		

Notes:

* Tentatively identified compound (TIC): concentration listed only for those samples where tentatively identified.

Table 6-9b
Soil Exposure Point Concentrations and Risk Values, Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Soil COPC	Commercial/Industrial Receptor Concentrations (mg/kg) in 0 to 2 ft bgs samples*			Soil RBCs (mg/kg) (from Table 6-6a)		Risk Values based on 95% UCL		Risk Values based on Maximum	
	Mean	95% UCL	Maximum	Cancer	Noncancer	ILCR	HQ	ILCR	HQ
1,1,1-Trichloroethane	4.2E-03	1.7E-02	2.4E-01	No value	8.8E+03	-	2E-06	-	3E-05
1,1,2,2-Tetrachloroethane	9.3E-06	5.0E-05	7.5E-04	4.4E+01	7.1E+03	1E-12	7E-09	2E-11	1E-07
1,1,2-Trichloro-1,2,2-trifluoroethane	8.8E-06	4.7E-05	7.1E-04	No value	No value	-	-	-	-
1,1,2-Trichloroethane	1.8E-03	7.8E-03	1.1E-01	9.0E+01	5.2E+00	9E-11	2E-03	1E-09	2E-02
1,1-Dichloroethane	7.2E-04	2.0E-03	1.8E-02	3.9E+02	7.1E+04	5E-12	3E-08	5E-11	3E-07
1,2,3-Trichlorobenzene	8.2E-05	4.4E-04	6.6E-03	No value	No value	-	-	-	-
1,2,4-Trichlorobenzene	5.9E-04	3.2E-03	4.8E-02	8.5E+02	3.1E+02	4E-12	1E-05	6E-11	2E-04
1,2-Dibromo-3-chloropropane	9.4E-06	5.0E-05	7.6E-04	1.3E+00	2.4E+01	4E-11	2E-06	6E-10	3E-05
1,2-Dibromoethane (EDB)	8.8E-06	4.7E-05	7.1E-04	3.2E+00	2.9E+01	1E-11	2E-06	2E-10	2E-05
1,2-Dichloroethane	8.5E-06	4.6E-05	6.9E-04	3.7E+01	1.0E+02	1E-12	4E-07	2E-11	7E-06
2-Methylnaphthalene	6.1E-01	1.8E+00	2.1E+01	No value	6.7E+02	-	3E-03	-	3E-02
Acenaphthene	1.3E-02	4.8E-02	5.6E-01	No value	1.0E+04	-	5E-06	-	6E-05
Acetone	7.9E-03	2.5E-02	2.6E-01	No value	2.6E+05	-	1E-07	-	1E-06
Anthracene	Not detected in 0 to 10 ft bgs depth interval in on-site samples			No value	5.0E+04	-	-	-	-
Antimony	2.6E+00	6.3E+00	6.4E+01	No value	1.4E+02	-	4E-02	-	5E-01
Benzene	7.7E-06	4.1E-05	6.2E-04	2.4E+01	3.2E+01	2E-12	1E-06	3E-11	2E-05
Benzo(a)anthracene	1.9E-03	7.3E-03	8.5E-02	1.6E+01	No value	5E-10	-	5E-09	-
Benzo(a)pyrene	6.0E-03	1.7E-02	1.3E-01	1.6E+00	No value	1E-08	-	8E-08	-
Benzo(b)fluoranthene	7.8E-04	3.3E-03	4.4E-02	1.6E+01	No value	2E-10	-	3E-09	-
Benzo(g,h,i)perylene	6.7E-03	1.9E-02	1.2E-01	No value	No value	-	-	-	-
Benzo(k)fluoranthene	4.5E-03	1.4E-02	1.2E-01	1.5E+02	No value	9E-11	-	8E-10	-
Biphenyl (Diphenyl)	3.3E-02	9.5E-02	1.0E+00	1.7E+03	2.4E+02	6E-11	4E-04	6E-10	4E-03
bis(2-Ethylhexyl) Phthalate	8.4E-03	3.0E-02	3.7E-01	9.5E+02	3.8E+03	3E-11	8E-06	4E-10	1E-04
Bromodichloromethane	1.2E-05	6.6E-05	1.0E-03	4.7E+01	7.1E+03	1E-12	9E-09	2E-11	1E-07
Bromoform	8.4E-06	4.5E-05	6.8E-04	2.2E+03	7.1E+03	2E-14	6E-09	3E-13	1E-07
Cadmium	1.3E+00	3.9E+00	4.1E+01	1.1E+02	4.3E+01	4E-08	9E-02	4E-07	9E-01
Carbazole	Not detected in 0 to 10 ft bgs depth interval in on-site samples			No value	No value	-	-	-	-
Carbon Disulfide	8.5E-06	4.6E-05	6.9E-04	No value	No value	-	-	-	-
Carbon Tetrachloride	2.0E-05	8.3E-05	9.5E-04	1.3E+01	2.7E+02	6E-12	3E-07	7E-11	4E-06
Chloroform	2.0E-04	8.2E-04	8.7E-03	3.2E+01	8.1E+02	3E-11	1E-06	3E-10	1E-05
Chrysene	6.2E-03	1.8E-02	1.2E-01	1.5E+03	No value	1E-11	-	8E-11	-
cis-1,2-Dichloroethylene	2.9E-02	1.0E-01	1.2E+00	No value	8.2E+01	-	1E-03	-	1E-02
cis-1,3-Dichloropropene	2.4E-05	1.3E-04	1.9E-03	2.9E+01	1.5E+02	4E-12	9E-07	7E-11	1E-05
Cobalt	1.3E+01	1.6E+01	2.0E+02	4.9E+01	2.8E+01	3E-07	6E-01	4E-06	7E+00
Copper	1.7E+02	4.3E+02	4.4E+03	No value	1.4E+04	-	3E-02	-	3E-01
Cyclohexane	1.2E-04	4.5E-04	5.4E-03	No value	No value	-	-	-	-
Dibenz(a,h)anthracene	4.7E-04	2.5E-03	3.8E-02	1.6E+00	No value	2E-09	-	2E-08	-

Table 6-9b
Soil Exposure Point Concentrations and Risk Values, Construction Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Soil COPC	Commercial/Industrial Receptor Concentrations (mg/kg) in 0 to 2 ft bgs samples*			Soil RBCs (mg/kg) (from Table 6-6a)		Risk Values based on 95% UCL		Risk Values based on Maximum	
	Mean	95% UCL	Maximum	Cancer	Noncancer	ILCR	HQ	ILCR	HQ
Dibenzofuran	Not detected in 0 to 10 ft bgs depth interval in on-site samples			No value	No value	-	-	-	-
Diethyl Phthalate	2.1E-04	1.1E-03	1.7E-02	No value	1.5E+05	-	7E-09	-	1E-07
Dimethyl Phthalate	Not detected in 0 to 10 ft bgs depth interval in on-site samples			No value	No value	-	-	-	-
Di-n-Butyl Phthalate	7.8E-03	2.0E-02	1.0E-01	No value	No value	-	-	-	-
Ethylbenzene	1.8E-03	7.0E-03	9.6E-02	4.8E+02	1.3E+04	1E-11	5E-07	2E-10	7E-06
Fluoranthene	8.1E-03	2.2E-02	1.4E-01	No value	6.7E+03	-	3E-06	-	2E-05
Fluorene	5.4E-02	1.6E-01	1.5E+00	No value	6.7E+03	-	2E-05	-	2E-04
Indeno(1,2,3-c,d)pyrene	2.2E-03	8.1E-03	8.6E-02	1.6E+01	No value	5E-10	-	5E-09	-
Isopropylbenzene (Cumene)	1.7E-03	6.5E-03	8.9E-02	No value	No value	-	-	-	-
Lead	1.2E+02	2.8E+02	2.6E+03	No value	1.6E+02	95% UCL and Maximum > Soil Lead Level			
m,p-Xylene	4.3E-03	1.5E-02	1.9E-01	No value	2.4E+03	-	6E-06	-	8E-05
Manganese	4.0E+02	4.4E+02	1.9E+03	No value	No value	-	-	-	-
Methyl Acetate	6.4E-04	1.6E-03	9.7E-03	No value	No value	-	-	-	-
Methylcyclohexane	1.5E-04	4.4E-04	4.3E-03	No value	No value	-	-	-	-
Naphthalene	1.9E-01	6.0E-01	7.3E+00	3.5E+02	4.4E+02	2E-09	1E-03	2E-08	2E-02
Nickel	3.2E+01	6.2E+01	5.9E+02	1.7E+03	8.6E+01	4E-08	7E-01	3E-07	7E+00
o-Xylene	4.0E-03	1.3E-02	1.7E-01	No value	No value	-	-	-	-
PCB-1248 (Aroclor 1248)	3.5E-01	1.6E+00	2.4E+01	5.6E+00	No value	3E-07	-	4E-06	-
PCB-1254 (Aroclor 1254)	1.5E-02	4.1E-02	3.2E-01	5.6E+00	No value	7E-09	-	6E-08	-
PCB-1260 (Aroclor 1260)	2.0E-01	7.2E-01	7.3E+00	5.6E+00	No value	1E-07	-	1E-06	-
Phenanthrene	1.9E-01	4.8E-01	3.7E+00	No value	No value	-	-	-	-
Phenol	Not detected in 0 to 10 ft bgs depth interval in on-site samples			No value	9.8E+04	-	-	-	-
Pyrene	9.6E-03	2.6E-02	1.8E-01	No value	5.0E+03	-	5E-06	-	4E-05
tert-Butyl Methyl Ether (MTBE)	9.4E-06	5.0E-05	7.6E-04	3.7E+03	5.6E+04	1E-14	9E-10	2E-13	1E-08
Tetrachloroethene (PCE)	5.6E-03	2.4E-02	3.3E-01	3.3E+01	3.1E+02	7E-10	8E-05	1E-08	1E-03
Thallium	1.4E-01	7.1E-01	1.3E+01	No value	3.5E+00	-	2E-01	-	4E+00
Toluene	8.7E-04	3.9E-03	5.7E-02	No value	4.1E+03	-	1E-06	-	1E-05
trans-1,3-Dichloropropene	4.3E-05	1.8E-04	2.0E-03	2.9E+01	1.5E+02	6E-12	1E-06	7E-11	1E-05
Trichloroethene (TCE)	4.9E-01	2.2E+00	3.2E+01	1.6E+02	2.3E+01	1E-08	1E-01	2E-07	1E+00
Trichlorofluoromethane	9.0E-06	4.8E-05	7.3E-04	No value	No value	-	-	-	-
Vinyl Chloride	1.0E-05	5.6E-05	8.4E-04	3.4E+00	3.0E+02	2E-11	2E-07	2E-10	3E-06
Cumulative Risk Values =>						**9E-07**	**2E+00**	**1E-05**	**2E+01**

Notes:

* All concentrations are in units of milligrams per kilogram (mg/kg) on a dry weight basis

Table 6-10a
Risk Characterization (Soil Gas), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-40-15, P913cc	15	1,1,1-Trichloroethane	0	No value	3.5E+04	-	-	4E-05	4E+00
		1,1,2,2-Tetrachloroethane	0	1.6E+00	2.8E+03	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	1.7E+05	-	-		
		1,1,2-Trichloroethane	0	6.0E+00	7.0E+00	-	-		
		1,1-Dichloroethane	0	5.8E+01	2.8E+04	-	-		
		1,1-Dichloroethene	0	No value	2.4E+03	-	-		
		1,1-Difluoroethane	0	No value	1.4E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	1.1E+02	-	-		
		1,2-Dichloroethane	0	3.7E+00	2.4E+02	-	-		
		1,3,5-Trimethylbenzene	0	No value	2.1E+03	-	-		
		1,4-Dichlorobenzene	0	8.7E+00	2.8E+04	-	-		
		1,4-Dioxane (p-Dioxane)	0	1.2E+01	1.0E+03	-	-		
		Benzene	23	3.2E+00	1.0E+02	7E-06	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	4.0E+00	3.3E+03	-	-		
		Chloromethane	0	No value	3.1E+03	-	-		
		cis-1,2-Dichloroethylene	340	No value	2.8E+02	-	1E+00		
		Dichlorodifluoromethane	0	No value	3.3E+03	-	-		
		Ethylbenzene	0	3.7E+01	3.3E+04	-	-		
		Isopropylbenzene (Cumene)	0	No value	1.4E+04	-	-		
		m,p-Xylene	0	No value	3.3E+03	-	-		
		Methylene Chloride	0	3.4E+01	1.4E+04	-	-		
		Naphthalene	0	2.8E+00	1.0E+02	-	-		
		n-Butylbenzene	0	No value	7.0E+03	-	-		
		o-Xylene	0	No value	3.3E+03	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	1.4E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	330	1.5E+01	1.4E+03	2E-05	2E-01		
		Toluene	0	No value	1.0E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	2.8E+03	-	-		
		Trichloroethene (TCE)	140	1.6E+01	7.0E+01	9E-06	2E+00		
		Vinyl Chloride	0	3.2E-01	3.3E+03	-	-		
SAIA-SB/SG-40-25, P530cc	25	1,1,1-Trichloroethane	0	No value	3.5E+04	-	-	1E-04	7E+00
		1,1,2,2-Tetrachloroethane	0	1.6E+00	2.8E+03	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	1.7E+05	-	-		
		1,1,2-Trichloroethane	0	6.0E+00	7.0E+00	-	-		
		1,1-Dichloroethane	0	5.8E+01	2.8E+04	-	-		
		1,1-Dichloroethene	0	No value	2.4E+03	-	-		
		1,1-Difluoroethane	0	No value	1.4E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	1.1E+02	-	-		
		1,2-Dichloroethane	0	3.7E+00	2.4E+02	-	-		
		1,3,5-Trimethylbenzene	0	No value	2.1E+03	-	-		
		1,4-Dichlorobenzene	0	8.7E+00	2.8E+04	-	-		
		1,4-Dioxane (p-Dioxane)	0	1.2E+01	1.0E+03	-	-		
		Benzene	0	3.2E+00	1.0E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	4.0E+00	3.3E+03	-	-		
		Chloromethane	0	No value	3.1E+03	-	-		
		cis-1,2-Dichloroethylene	200	No value	2.8E+02	-	7E-01		
		Dichlorodifluoromethane	0	No value	3.3E+03	-	-		
		Ethylbenzene	0	3.7E+01	3.3E+04	-	-		
		Isopropylbenzene (Cumene)	0	No value	1.4E+04	-	-		
		m,p-Xylene	0	No value	3.3E+03	-	-		
		Methylene Chloride	0	3.4E+01	1.4E+04	-	-		
		Naphthalene	0	2.8E+00	1.0E+02	-	-		
		n-Butylbenzene	0	No value	7.0E+03	-	-		
		o-Xylene	0	No value	3.3E+03	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	1.4E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	1200	1.5E+01	1.4E+03	8E-05	9E-01		
		Toluene	0	No value	1.0E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	2.8E+03	-	-		
		Trichloroethene (TCE)	380	1.6E+01	7.0E+01	2E-05	5E+00		
		Vinyl Chloride	0	3.2E-01	3.3E+03	-	-		

Table 6-10a
Risk Characterization (Soil Gas), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-40-35 Rep, P628cc	35	1,1,1-Trichloroethane	0	No value	3.5E+04	-	-	2E-05	7E+00
		1,1,2,2-Tetrachloroethane	0	1.6E+00	2.8E+03	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	1.7E+05	-	-		
		1,1,2-Trichloroethane	0	6.0E+00	7.0E+00	-	-		
		1,1-Dichloroethane	0	5.8E+01	2.8E+04	-	-		
		1,1-Dichloroethene	0	No value	2.4E+03	-	-		
		1,1-Difluoroethane	0	No value	1.4E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	1.1E+02	-	-		
		1,2-Dichloroethane	0	3.7E+00	2.4E+02	-	-		
		1,3,5-Trimethylbenzene	0	No value	2.1E+03	-	-		
		1,4-Dichlorobenzene	0	8.7E+00	2.8E+04	-	-		
		1,4-Dioxane (p-Dioxane)	0	1.2E+01	1.0E+03	-	-		
		Benzene	0	3.2E+00	1.0E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	4.0E+00	3.3E+03	-	-		
		Chloromethane	0	No value	3.1E+03	-	-		
		cis-1,2-Dichloroethylene	730	No value	2.8E+02	-	3E+00		
		Dichlorodifluoromethane	0	No value	3.3E+03	-	-		
		Ethylbenzene	0	3.7E+01	3.3E+04	-	-		
		Isopropylbenzene (Cumene)	0	No value	1.4E+04	-	-		
		m,p-Xylene	0	No value	3.3E+03	-	-		
		Methylene Chloride	0	3.4E+01	1.4E+04	-	-		
		Naphthalene	0	2.8E+00	1.0E+02	-	-		
		n-Butylbenzene	0	No value	7.0E+03	-	-		
		o-Xylene	0	No value	3.3E+03	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	1.4E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	1.5E+01	1.4E+03	-	-		
		Toluene	0	No value	1.0E+04	-	-		
		trans-1,2-Dichloroethene	88	No value	2.8E+03	-	3E-02		
		Trichloroethene (TCE)	320	1.6E+01	7.0E+01	2E-05	5E+00		
		Vinyl Chloride	0	3.2E-01	3.3E+03	-	-		
SAIA-SB/SG-40-35, P578cc	35	1,1,1-Trichloroethane	0	No value	3.5E+04	-	-	3E-05	9E+00
		1,1,2,2-Tetrachloroethane	0	1.6E+00	2.8E+03	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	1.7E+05	-	-		
		1,1,2-Trichloroethane	0	6.0E+00	7.0E+00	-	-		
		1,1-Dichloroethane	0	5.8E+01	2.8E+04	-	-		
		1,1-Dichloroethene	0	No value	2.4E+03	-	-		
		1,1-Difluoroethane	0	No value	1.4E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	1.1E+02	-	-		
		1,2-Dichloroethane	0	3.7E+00	2.4E+02	-	-		
		1,3,5-Trimethylbenzene	0	No value	2.1E+03	-	-		
		1,4-Dichlorobenzene	0	8.7E+00	2.8E+04	-	-		
		1,4-Dioxane (p-Dioxane)	0	1.2E+01	1.0E+03	-	-		
		Benzene	0	3.2E+00	1.0E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	4.0E+00	3.3E+03	-	-		
		Chloromethane	0	No value	3.1E+03	-	-		
		cis-1,2-Dichloroethylene	900	No value	2.8E+02	-	3E+00		
		Dichlorodifluoromethane	0	No value	3.3E+03	-	-		
		Ethylbenzene	0	3.7E+01	3.3E+04	-	-		
		Isopropylbenzene (Cumene)	0	No value	1.4E+04	-	-		
		m,p-Xylene	0	No value	3.3E+03	-	-		
		Methylene Chloride	0	3.4E+01	1.4E+04	-	-		
		Naphthalene	0	2.8E+00	1.0E+02	-	-		
		n-Butylbenzene	0	No value	7.0E+03	-	-		
		o-Xylene	0	No value	3.3E+03	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	1.4E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	1.5E+01	1.4E+03	-	-		
		Toluene	0	No value	1.0E+04	-	-		
		trans-1,2-Dichloroethene	96	No value	2.8E+03	-	3E-02		
		Trichloroethene (TCE)	430	1.6E+01	7.0E+01	3E-05	6E+00		
		Vinyl Chloride	0	3.2E-01	3.3E+03	-	-		

Table 6-10a
Risk Characterization (Soil Gas), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-40-5, P816cc	5	1,1,1-Trichloroethane	0	No value	3.5E+04	-	-	3E-05	5E+00
		1,1,2,2-Tetrachloroethane	0	1.6E+00	2.8E+03	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	1.7E+05	-	-		
		1,1,2-Trichloroethane	0	6.0E+00	7.0E+00	-	-		
		1,1-Dichloroethane	0	5.8E+01	2.8E+04	-	-		
		1,1-Dichloroethene	0	No value	2.4E+03	-	-		
		1,1-Difluoroethane	0	No value	1.4E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	1.1E+02	-	-		
		1,2-Dichloroethane	0	3.7E+00	2.4E+02	-	-		
		1,3,5-Trimethylbenzene	0	No value	2.1E+03	-	-		
		1,4-Dichlorobenzene	0	8.7E+00	2.8E+04	-	-		
		1,4-Dioxane (p-Dioxane)	0	1.2E+01	1.0E+03	-	-		
		Benzene	0	3.2E+00	1.0E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	4.0E+00	3.3E+03	-	-		
		Chloromethane	0	No value	3.1E+03	-	-		
		cis-1,2-Dichloroethylene	410	No value	2.8E+02	-	1E+00		
		Dichlorodifluoromethane	0	No value	3.3E+03	-	-		
		Ethylbenzene	0	3.7E+01	3.3E+04	-	-		
		Isopropylbenzene (Cumene)	0	No value	1.4E+04	-	-		
		m,p-Xylene	0	No value	3.3E+03	-	-		
		Methylene Chloride	0	3.4E+01	1.4E+04	-	-		
		Naphthalene	0	2.8E+00	1.0E+02	-	-		
		n-Butylbenzene	0	No value	7.0E+03	-	-		
		o-Xylene	0	No value	3.3E+03	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	1.4E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	240	1.5E+01	1.4E+03	2E-05	2E-01		
		Toluene	0	No value	1.0E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	2.8E+03	-	-		
		Trichloroethene (TCE)	200	1.6E+01	7.0E+01	1E-05	3E+00		
		Vinyl Chloride	0	3.2E-01	3.3E+03	-	-		
SAIA-SB/SG-41-15, P913cc	15	1,1,1-Trichloroethane	0	No value	3.5E+04	-	-	9E-06	2E+00
		1,1,2,2-Tetrachloroethane	0	1.6E+00	2.8E+03	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	1.7E+05	-	-		
		1,1,2-Trichloroethane	0	6.0E+00	7.0E+00	-	-		
		1,1-Dichloroethane	0	5.8E+01	2.8E+04	-	-		
		1,1-Dichloroethene	0	No value	2.4E+03	-	-		
		1,1-Difluoroethane	0	No value	1.4E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	1.1E+02	-	-		
		1,2-Dichloroethane	0	3.7E+00	2.4E+02	-	-		
		1,3,5-Trimethylbenzene	0	No value	2.1E+03	-	-		
		1,4-Dichlorobenzene	0	8.7E+00	2.8E+04	-	-		
		1,4-Dioxane (p-Dioxane)	0	1.2E+01	1.0E+03	-	-		
		Benzene	0	3.2E+00	1.0E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	4.0E+00	3.3E+03	-	-		
		Chloromethane	0	No value	3.1E+03	-	-		
		cis-1,2-Dichloroethylene	160	No value	2.8E+02	-	6E-01		
		Dichlorodifluoromethane	0	No value	3.3E+03	-	-		
		Ethylbenzene	0	3.7E+01	3.3E+04	-	-		
		Isopropylbenzene (Cumene)	0	No value	1.4E+04	-	-		
		m,p-Xylene	0	No value	3.3E+03	-	-		
		Methylene Chloride	0	3.4E+01	1.4E+04	-	-		
		Naphthalene	0	2.8E+00	1.0E+02	-	-		
		n-Butylbenzene	0	No value	7.0E+03	-	-		
		o-Xylene	0	No value	3.3E+03	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	1.4E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	45	1.5E+01	1.4E+03	3E-06	3E-02		
		Toluene	0	No value	1.0E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	2.8E+03	-	-		
		Trichloroethene (TCE)	94	1.6E+01	7.0E+01	6E-06	1E+00		
		Vinyl Chloride	0	3.2E-01	3.3E+03	-	-		

Table 6-10a
Risk Characterization (Soil Gas), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-41-25, P530cc	25	1,1,1-Trichloroethane	0	No value	3.5E+04	-	-	2E-06	7E-01
		1,1,2,2-Tetrachloroethane	0	1.6E+00	2.8E+03	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	1.7E+05	-	-		
		1,1,2-Trichloroethane	0	6.0E+00	7.0E+00	-	-		
		1,1-Dichloroethane	0	5.8E+01	2.8E+04	-	-		
		1,1-Dichloroethene	0	No value	2.4E+03	-	-		
		1,1-Difluoroethane	0	No value	1.4E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	1.1E+02	-	-		
		1,2-Dichloroethane	0	3.7E+00	2.4E+02	-	-		
		1,3,5-Trimethylbenzene	0	No value	2.1E+03	-	-		
		1,4-Dichlorobenzene	0	8.7E+00	2.8E+04	-	-		
		1,4-Dioxane (p-Dioxane)	0	1.2E+01	1.0E+03	-	-		
		Benzene	0	3.2E+00	1.0E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	4.0E+00	3.3E+03	-	-		
		Chloromethane	0	No value	3.1E+03	-	-		
		cis-1,2-Dichloroethylene	60	No value	2.8E+02	-	2E-01		
		Dichlorodifluoromethane	0	No value	3.3E+03	-	-		
		Ethylbenzene	0	3.7E+01	3.3E+04	-	-		
		Isopropylbenzene (Cumene)	0	No value	1.4E+04	-	-		
		m,p-Xylene	0	No value	3.3E+03	-	-		
		Methylene Chloride	0	3.4E+01	1.4E+04	-	-		
		Naphthalene	0	2.8E+00	1.0E+02	-	-		
		n-Butylbenzene	0	No value	7.0E+03	-	-		
		o-Xylene	0	No value	3.3E+03	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	1.4E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	1.5E+01	1.4E+03	-	-		
		Toluene	0	No value	1.0E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	2.8E+03	-	-		
		Trichloroethene (TCE)	34	1.6E+01	7.0E+01	2E-06	5E-01		
		Vinyl Chloride	0	3.2E-01	3.3E+03	-	-		
SAIA-SB/SG-41-35, P578cc	35	1,1,1-Trichloroethane	0	No value	3.5E+04	-	-	0E+00	2E-01
		1,1,2,2-Tetrachloroethane	0	1.6E+00	2.8E+03	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	1.7E+05	-	-		
		1,1,2-Trichloroethane	0	6.0E+00	7.0E+00	-	-		
		1,1-Dichloroethane	0	5.8E+01	2.8E+04	-	-		
		1,1-Dichloroethene	0	No value	2.4E+03	-	-		
		1,1-Difluoroethane	0	No value	1.4E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	1.1E+02	-	-		
		1,2-Dichloroethane	0	3.7E+00	2.4E+02	-	-		
		1,3,5-Trimethylbenzene	0	No value	2.1E+03	-	-		
		1,4-Dichlorobenzene	0	8.7E+00	2.8E+04	-	-		
		1,4-Dioxane (p-Dioxane)	0	1.2E+01	1.0E+03	-	-		
		Benzene	0	3.2E+00	1.0E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	4.0E+00	3.3E+03	-	-		
		Chloromethane	0	No value	3.1E+03	-	-		
		cis-1,2-Dichloroethylene	69	No value	2.8E+02	-	2E-01		
		Dichlorodifluoromethane	0	No value	3.3E+03	-	-		
		Ethylbenzene	0	3.7E+01	3.3E+04	-	-		
		Isopropylbenzene (Cumene)	0	No value	1.4E+04	-	-		
		m,p-Xylene	0	No value	3.3E+03	-	-		
		Methylene Chloride	0	3.4E+01	1.4E+04	-	-		
		Naphthalene	0	2.8E+00	1.0E+02	-	-		
		n-Butylbenzene	0	No value	7.0E+03	-	-		
		o-Xylene	0	No value	3.3E+03	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	1.4E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	1.5E+01	1.4E+03	-	-		
		Toluene	0	No value	1.0E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	2.8E+03	-	-		
		Trichloroethene (TCE)	0	1.6E+01	7.0E+01	-	-		
		Vinyl Chloride	0	3.2E-01	3.3E+03	-	-		

Table 6-10a
Risk Characterization (Soil Gas), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SB/SG-41-5, P816cc	5	1,1,1-Trichloroethane	0	No value	3.5E+04	-	-	3E-06	7E-01
		1,1,2,2-Tetrachloroethane	0	1.6E+00	2.8E+03	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	1.7E+05	-	-		
		1,1,2-Trichloroethane	0	6.0E+00	7.0E+00	-	-		
		1,1-Dichloroethane	0	5.8E+01	2.8E+04	-	-		
		1,1-Dichloroethene	0	No value	2.4E+03	-	-		
		1,1-Difluoroethane	0	No value	1.4E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	1.1E+02	-	-		
		1,2-Dichloroethane	0	3.7E+00	2.4E+02	-	-		
		1,3,5-Trimethylbenzene	0	No value	2.1E+03	-	-		
		1,4-Dichlorobenzene	0	8.7E+00	2.8E+04	-	-		
		1,4-Dioxane (p-Dioxane)	0	1.2E+01	1.0E+03	-	-		
		Benzene	0	3.2E+00	1.0E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	4.0E+00	3.3E+03	-	-		
		Chloromethane	0	No value	3.1E+03	-	-		
		cis-1,2-Dichloroethylene	0	No value	2.8E+02	-	-		
		Dichlorodifluoromethane	0	No value	3.3E+03	-	-		
		Ethylbenzene	0	3.7E+01	3.3E+04	-	-		
		Isopropylbenzene (Cumene)	0	No value	1.4E+04	-	-		
		m,p-Xylene	0	No value	3.3E+03	-	-		
		Methylene Chloride	0	3.4E+01	1.4E+04	-	-		
		Naphthalene	0	2.8E+00	1.0E+02	-	-		
		n-Butylbenzene	0	No value	7.0E+03	-	-		
		o-Xylene	0	No value	3.3E+03	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	1.4E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	0	1.5E+01	1.4E+03	-	-		
		Toluene	0	No value	1.0E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	2.8E+03	-	-		
		Trichloroethene (TCE)	51	1.6E+01	7.0E+01	3E-06	7E-01		
		Vinyl Chloride	0	3.2E-01	3.3E+03	-	-		
SG15-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	3.5E+04	-	-	9E-05	2E+00
		1,1,2,2-Tetrachloroethane	0	1.6E+00	2.8E+03	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	1.7E+05	-	-		
		1,1,2-Trichloroethane	0	6.0E+00	7.0E+00	-	-		
		1,1-Dichloroethane	0	5.8E+01	2.8E+04	-	-		
		1,1-Dichloroethene	0	No value	2.4E+03	-	-		
		1,1-Difluoroethane	0	No value	1.4E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	1.1E+02	-	-		
		1,2-Dichloroethane	0	3.7E+00	2.4E+02	-	-		
		1,3,5-Trimethylbenzene	0	No value	2.1E+03	-	-		
		1,4-Dichlorobenzene	0	8.7E+00	2.8E+04	-	-		
		1,4-Dioxane (p-Dioxane)	0	1.2E+01	1.0E+03	-	-		
		Benzene	110	3.2E+00	1.0E+02	3E-05	1E+00		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	4.0E+00	3.3E+03	-	-		
		Chloromethane	0	No value	3.1E+03	-	-		
		cis-1,2-Dichloroethylene	0	No value	2.8E+02	-	-		
		Dichlorodifluoromethane	0	No value	3.3E+03	-	-		
		Ethylbenzene	0	3.7E+01	3.3E+04	-	-		
		Isopropylbenzene (Cumene)	0	No value	1.4E+04	-	-		
		m,p-Xylene	0	No value	3.3E+03	-	-		
		Methylene Chloride	0	3.4E+01	1.4E+04	-	-		
		Naphthalene	0	2.8E+00	1.0E+02	-	-		
		n-Butylbenzene	0	No value	7.0E+03	-	-		
		o-Xylene	0	No value	3.3E+03	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	1.4E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	810	1.5E+01	1.4E+03	5E-05	6E-01		
		Toluene	40	No value	1.0E+04	-	4E-03		
		trans-1,2-Dichloroethene	0	No value	2.8E+03	-	-		
		Trichloroethene (TCE)	32	1.6E+01	7.0E+01	2E-06	5E-01		
		Vinyl Chloride	0	3.2E-01	3.3E+03	-	-		

Table 6-10a
Risk Characterization (Soil Gas), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG15-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	3.5E+04	-	-	1E-04	8E+00
		1,1,2,2-Tetrachloroethane	0	1.6E+00	2.8E+03	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	1.7E+05	-	-		
		1,1,2-Trichloroethane	0	6.0E+00	7.0E+00	-	-		
		1,1-Dichloroethane	0	5.8E+01	2.8E+04	-	-		
		1,1-Dichloroethene	0	No value	2.4E+03	-	-		
		1,1-Difluoroethane	0	No value	1.4E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	1.1E+02	-	-		
		1,2-Dichloroethane	0	3.7E+00	2.4E+02	-	-		
		1,3,5-Trimethylbenzene	0	No value	2.1E+03	-	-		
		1,4-Dichlorobenzene	0	8.7E+00	2.8E+04	-	-		
		1,4-Dioxane (p-Dioxane)	0	1.2E+01	1.0E+03	-	-		
		Benzene	23	3.2E+00	1.0E+02	7E-06	2E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	4.0E+00	3.3E+03	-	-		
		Chloromethane	0	No value	3.1E+03	-	-		
		cis-1,2-Dichloroethylene	0	No value	2.8E+02	-	-		
		Dichlorodifluoromethane	0	No value	3.3E+03	-	-		
		Ethylbenzene	0	3.7E+01	3.3E+04	-	-		
		Isopropylbenzene (Cumene)	0	No value	1.4E+04	-	-		
		m,p-Xylene	0	No value	3.3E+03	-	-		
		Methylene Chloride	0	3.4E+01	1.4E+04	-	-		
		Naphthalene	0	2.8E+00	1.0E+02	-	-		
		n-Butylbenzene	0	No value	7.0E+03	-	-		
		o-Xylene	0	No value	3.3E+03	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	1.4E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	1600	1.5E+01	1.4E+03	1E-04	1E+00		
		Toluene	0	No value	1.0E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	2.8E+03	-	-		
		Trichloroethene (TCE)	460	1.6E+01	7.0E+01	3E-05	7E+00		
		Vinyl Chloride	0	3.2E-01	3.3E+03	-	-		
SG15-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	3.5E+04	-	-	1E-04	9E+00
		1,1,2,2-Tetrachloroethane	0	1.6E+00	2.8E+03	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	1.7E+05	-	-		
		1,1,2-Trichloroethane	0	6.0E+00	7.0E+00	-	-		
		1,1-Dichloroethane	0	5.8E+01	2.8E+04	-	-		
		1,1-Dichloroethene	0	No value	2.4E+03	-	-		
		1,1-Difluoroethane	0	No value	1.4E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	1.1E+02	-	-		
		1,2-Dichloroethane	0	3.7E+00	2.4E+02	-	-		
		1,3,5-Trimethylbenzene	0	No value	2.1E+03	-	-		
		1,4-Dichlorobenzene	0	8.7E+00	2.8E+04	-	-		
		1,4-Dioxane (p-Dioxane)	0	1.2E+01	1.0E+03	-	-		
		Benzene	0	3.2E+00	1.0E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	4.0E+00	3.3E+03	-	-		
		Chloromethane	0	No value	3.1E+03	-	-		
		cis-1,2-Dichloroethylene	0	No value	2.8E+02	-	-		
		Dichlorodifluoromethane	0	No value	3.3E+03	-	-		
		Ethylbenzene	0	3.7E+01	3.3E+04	-	-		
		Isopropylbenzene (Cumene)	0	No value	1.4E+04	-	-		
		m,p-Xylene	0	No value	3.3E+03	-	-		
		Methylene Chloride	0	3.4E+01	1.4E+04	-	-		
		Naphthalene	0	2.8E+00	1.0E+02	-	-		
		n-Butylbenzene	0	No value	7.0E+03	-	-		
		o-Xylene	0	No value	3.3E+03	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	1.4E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	1200	1.5E+01	1.4E+03	8E-05	9E-01		
		Toluene	0	No value	1.0E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	2.8E+03	-	-		
		Trichloroethene (TCE)	580	1.6E+01	7.0E+01	4E-05	8E+00		
		Vinyl Chloride	0	3.2E-01	3.3E+03	-	-		

Table 6-10a
Risk Characterization (Soil Gas), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG15-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	3.5E+04	-	-	5E-05	5E-01
		1,1,2,2-Tetrachloroethane	0	1.6E+00	2.8E+03	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	1.7E+05	-	-		
		1,1,2-Trichloroethane	0	6.0E+00	7.0E+00	-	-		
		1,1-Dichloroethane	0	5.8E+01	2.8E+04	-	-		
		1,1-Dichloroethene	0	No value	2.4E+03	-	-		
		1,1-Difluoroethane	0	No value	1.4E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	1.1E+02	-	-		
		1,2-Dichloroethane	0	3.7E+00	2.4E+02	-	-		
		1,3,5-Trimethylbenzene	0	No value	2.1E+03	-	-		
		1,4-Dichlorobenzene	0	8.7E+00	2.8E+04	-	-		
		1,4-Dioxane (p-Dioxane)	0	1.2E+01	1.0E+03	-	-		
		Benzene	0	3.2E+00	1.0E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	4.0E+00	3.3E+03	-	-		
		Chloromethane	0	No value	3.1E+03	-	-		
		cis-1,2-Dichloroethylene	0	No value	2.8E+02	-	-		
		Dichlorodifluoromethane	0	No value	3.3E+03	-	-		
		Ethylbenzene	0	3.7E+01	3.3E+04	-	-		
		Isopropylbenzene (Cumene)	0	No value	1.4E+04	-	-		
		m,p-Xylene	0	No value	3.3E+03	-	-		
		Methylene Chloride	0	3.4E+01	1.4E+04	-	-		
		Naphthalene	0	2.8E+00	1.0E+02	-	-		
		n-Butylbenzene	0	No value	7.0E+03	-	-		
		o-Xylene	0	No value	3.3E+03	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	1.4E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	750	1.5E+01	1.4E+03	5E-05	5E-01		
		Toluene	0	No value	1.0E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	2.8E+03	-	-		
		Trichloroethene (TCE)	0	1.6E+01	7.0E+01	-	-		
		Vinyl Chloride	0	3.2E-01	3.3E+03	-	-		
SG16-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	3.5E+04	-	-	7E-05	2E+00
		1,1,2,2-Tetrachloroethane	0	1.6E+00	2.8E+03	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	1.7E+05	-	-		
		1,1,2-Trichloroethane	0	6.0E+00	7.0E+00	-	-		
		1,1-Dichloroethane	0	5.8E+01	2.8E+04	-	-		
		1,1-Dichloroethene	0	No value	2.4E+03	-	-		
		1,1-Difluoroethane	0	No value	1.4E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	1.1E+02	-	-		
		1,2-Dichloroethane	0	3.7E+00	2.4E+02	-	-		
		1,3,5-Trimethylbenzene	0	No value	2.1E+03	-	-		
		1,4-Dichlorobenzene	0	8.7E+00	2.8E+04	-	-		
		1,4-Dioxane (p-Dioxane)	0	1.2E+01	1.0E+03	-	-		
		Benzene	29	3.2E+00	1.0E+02	9E-06	3E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	4.0E+00	3.3E+03	-	-		
		Chloromethane	0	No value	3.1E+03	-	-		
		cis-1,2-Dichloroethylene	55	No value	2.8E+02	-	2E-01		
		Dichlorodifluoromethane	0	No value	3.3E+03	-	-		
		Ethylbenzene	0	3.7E+01	3.3E+04	-	-		
		Isopropylbenzene (Cumene)	0	No value	1.4E+04	-	-		
		m,p-Xylene	0	No value	3.3E+03	-	-		
		Methylene Chloride	0	3.4E+01	1.4E+04	-	-		
		Naphthalene	0	2.8E+00	1.0E+02	-	-		
		n-Butylbenzene	0	No value	7.0E+03	-	-		
		o-Xylene	0	No value	3.3E+03	-	-		
		p-Cymene (p-Isopropyltoluene)	38	No value	No value	-	-		
		sec-Butylbenzene	0	No value	1.4E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	820	1.5E+01	1.4E+03	5E-05	6E-01		
		Toluene	35	No value	1.0E+04	-	3E-03		
		trans-1,2-Dichloroethene	0	No value	2.8E+03	-	-		
		Trichloroethene (TCE)	72	1.6E+01	7.0E+01	5E-06	1E+00		
		Vinyl Chloride	0	3.2E-01	3.3E+03	-	-		

Table 6-10a
Risk Characterization (Soil Gas), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG16-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	3.5E+04	-	-	1E-04	2E+01
		1,1,2,2-Tetrachloroethane	0	1.6E+00	2.8E+03	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	1.7E+05	-	-		
		1,1,2-Trichloroethane	0	6.0E+00	7.0E+00	-	-		
		1,1-Dichloroethane	0	5.8E+01	2.8E+04	-	-		
		1,1-Dichloroethene	0	No value	2.4E+03	-	-		
		1,1-Difluoroethane	0	No value	1.4E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	1.1E+02	-	-		
		1,2-Dichloroethane	0	3.7E+00	2.4E+02	-	-		
		1,3,5-Trimethylbenzene	0	No value	2.1E+03	-	-		
		1,4-Dichlorobenzene	0	8.7E+00	2.8E+04	-	-		
		1,4-Dioxane (p-Dioxane)	0	1.2E+01	1.0E+03	-	-		
		Benzene	72	3.2E+00	1.0E+02	2E-05	7E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	4.0E+00	3.3E+03	-	-		
		Chloromethane	0	No value	3.1E+03	-	-		
		cis-1,2-Dichloroethylene	870	No value	2.8E+02	-	3E+00		
		Dichlorodifluoromethane	0	No value	3.3E+03	-	-		
		Ethylbenzene	0	3.7E+01	3.3E+04	-	-		
		Isopropylbenzene (Cumene)	0	No value	1.4E+04	-	-		
		m,p-Xylene	0	No value	3.3E+03	-	-		
		Methylene Chloride	0	3.4E+01	1.4E+04	-	-		
		Naphthalene	0	2.8E+00	1.0E+02	-	-		
		n-Butylbenzene	0	No value	7.0E+03	-	-		
		o-Xylene	0	No value	3.3E+03	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	1.4E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	1100	1.5E+01	1.4E+03	7E-05	8E-01		
		Toluene	0	No value	1.0E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	2.8E+03	-	-		
		Trichloroethene (TCE)	880	1.6E+01	7.0E+01	6E-05	1E+01		
		Vinyl Chloride	0	3.2E-01	3.3E+03	-	-		
SG16-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	3.5E+04	-	-	5E-05	3E+00
		1,1,2,2-Tetrachloroethane	0	1.6E+00	2.8E+03	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	1.7E+05	-	-		
		1,1,2-Trichloroethane	0	6.0E+00	7.0E+00	-	-		
		1,1-Dichloroethane	0	5.8E+01	2.8E+04	-	-		
		1,1-Dichloroethene	0	No value	2.4E+03	-	-		
		1,1-Difluoroethane	0	No value	1.4E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	1.1E+02	-	-		
		1,2-Dichloroethane	0	3.7E+00	2.4E+02	-	-		
		1,3,5-Trimethylbenzene	0	No value	2.1E+03	-	-		
		1,4-Dichlorobenzene	0	8.7E+00	2.8E+04	-	-		
		1,4-Dioxane (p-Dioxane)	0	1.2E+01	1.0E+03	-	-		
		Benzene	0	3.2E+00	1.0E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	4.0E+00	3.3E+03	-	-		
		Chloromethane	0	No value	3.1E+03	-	-		
		cis-1,2-Dichloroethylene	0	No value	2.8E+02	-	-		
		Dichlorodifluoromethane	0	No value	3.3E+03	-	-		
		Ethylbenzene	0	3.7E+01	3.3E+04	-	-		
		Isopropylbenzene (Cumene)	0	No value	1.4E+04	-	-		
		m,p-Xylene	0	No value	3.3E+03	-	-		
		Methylene Chloride	0	3.4E+01	1.4E+04	-	-		
		Naphthalene	0	2.8E+00	1.0E+02	-	-		
		n-Butylbenzene	0	No value	7.0E+03	-	-		
		o-Xylene	0	No value	3.3E+03	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	1.4E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	610	1.5E+01	1.4E+03	4E-05	4E-01		
		Toluene	0	No value	1.0E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	2.8E+03	-	-		
		Trichloroethene (TCE)	170	1.6E+01	7.0E+01	1E-05	2E+00		
		Vinyl Chloride	0	3.2E-01	3.3E+03	-	-		

Table 6-10a
Risk Characterization (Soil Gas), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG16-5 Rep, P4380cc	5	1,1,1-Trichloroethane	0	No value	3.5E+04	-	-	3E-05	1E+00
		1,1,2,2-Tetrachloroethane	0	1.6E+00	2.8E+03	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	1.7E+05	-	-		
		1,1,2-Trichloroethane	0	6.0E+00	7.0E+00	-	-		
		1,1-Dichloroethane	0	5.8E+01	2.8E+04	-	-		
		1,1-Dichloroethene	0	No value	2.4E+03	-	-		
		1,1-Difluoroethane	0	No value	1.4E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	1.1E+02	-	-		
		1,2-Dichloroethane	0	3.7E+00	2.4E+02	-	-		
		1,3,5-Trimethylbenzene	0	No value	2.1E+03	-	-		
		1,4-Dichlorobenzene	0	8.7E+00	2.8E+04	-	-		
		1,4-Dioxane (p-Dioxane)	0	1.2E+01	1.0E+03	-	-		
		Benzene	0	3.2E+00	1.0E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	4.0E+00	3.3E+03	-	-		
		Chloromethane	0	No value	3.1E+03	-	-		
		cis-1,2-Dichloroethylene	66	No value	2.8E+02	-	2E-01		
		Dichlorodifluoromethane	0	No value	3.3E+03	-	-		
		Ethylbenzene	0	3.7E+01	3.3E+04	-	-		
		Isopropylbenzene (Cumene)	0	No value	1.4E+04	-	-		
		m,p-Xylene	0	No value	3.3E+03	-	-		
		Methylene Chloride	0	3.4E+01	1.4E+04	-	-		
		Naphthalene	0	2.8E+00	1.0E+02	-	-		
		n-Butylbenzene	0	No value	7.0E+03	-	-		
		o-Xylene	0	No value	3.3E+03	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	1.4E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	390	1.5E+01	1.4E+03	3E-05	3E-01		
		Toluene	0	No value	1.0E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	2.8E+03	-	-		
		Trichloroethene (TCE)	49	1.6E+01	7.0E+01	3E-06	7E-01		
		Vinyl Chloride	0	3.2E-01	3.3E+03	-	-		
SG16-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	3.5E+04	-	-	3E-05	2E+00
		1,1,2,2-Tetrachloroethane	0	1.6E+00	2.8E+03	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	1.7E+05	-	-		
		1,1,2-Trichloroethane	0	6.0E+00	7.0E+00	-	-		
		1,1-Dichloroethane	0	5.8E+01	2.8E+04	-	-		
		1,1-Dichloroethene	0	No value	2.4E+03	-	-		
		1,1-Difluoroethane	0	No value	1.4E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	1.1E+02	-	-		
		1,2-Dichloroethane	0	3.7E+00	2.4E+02	-	-		
		1,3,5-Trimethylbenzene	0	No value	2.1E+03	-	-		
		1,4-Dichlorobenzene	0	8.7E+00	2.8E+04	-	-		
		1,4-Dioxane (p-Dioxane)	0	1.2E+01	1.0E+03	-	-		
		Benzene	0	3.2E+00	1.0E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	4.0E+00	3.3E+03	-	-		
		Chloromethane	0	No value	3.1E+03	-	-		
		cis-1,2-Dichloroethylene	120	No value	2.8E+02	-	4E-01		
		Dichlorodifluoromethane	0	No value	3.3E+03	-	-		
		Ethylbenzene	0	3.7E+01	3.3E+04	-	-		
		Isopropylbenzene (Cumene)	0	No value	1.4E+04	-	-		
		m,p-Xylene	0	No value	3.3E+03	-	-		
		Methylene Chloride	0	3.4E+01	1.4E+04	-	-		
		Naphthalene	0	2.8E+00	1.0E+02	-	-		
		n-Butylbenzene	0	No value	7.0E+03	-	-		
		o-Xylene	0	No value	3.3E+03	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	1.4E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	280	1.5E+01	1.4E+03	2E-05	2E-01		
		Toluene	0	No value	1.0E+04	-	-		
		trans-1,2-Dichloroethene	0	No value	2.8E+03	-	-		
		Trichloroethene (TCE)	110	1.6E+01	7.0E+01	7E-06	2E+00		
		Vinyl Chloride	0	3.2E-01	3.3E+03	-	-		

Table 6-10a
Risk Characterization (Soil Gas), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG17-15, P4814cc	15	1,1,1-Trichloroethane	0	No value	3.5E+04	-	-	3E-05	1E+00
		1,1,2,2-Tetrachloroethane	0	1.6E+00	2.8E+03	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	1.7E+05	-	-		
		1,1,2-Trichloroethane	0	6.0E+00	7.0E+00	-	-		
		1,1-Dichloroethane	0	5.8E+01	2.8E+04	-	-		
		1,1-Dichloroethene	0	No value	2.4E+03	-	-		
		1,1-Difluoroethane	0	No value	1.4E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	1.1E+02	-	-		
		1,2-Dichloroethane	0	3.7E+00	2.4E+02	-	-		
		1,3,5-Trimethylbenzene	0	No value	2.1E+03	-	-		
		1,4-Dichlorobenzene	0	8.7E+00	2.8E+04	-	-		
		1,4-Dioxane (p-Dioxane)	0	1.2E+01	1.0E+03	-	-		
		Benzene	38	3.2E+00	1.0E+02	1E-05	4E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	4.0E+00	3.3E+03	-	-		
		Chloromethane	0	No value	3.1E+03	-	-		
		cis-1,2-Dichloroethylene	0	No value	2.8E+02	-	-		
		Dichlorodifluoromethane	0	No value	3.3E+03	-	-		
		Ethylbenzene	0	3.7E+01	3.3E+04	-	-		
		Isopropylbenzene (Cumene)	0	No value	1.4E+04	-	-		
		m,p-Xylene	0	No value	3.3E+03	-	-		
		Methylene Chloride	0	3.4E+01	1.4E+04	-	-		
		Naphthalene	0	2.8E+00	1.0E+02	-	-		
		n-Butylbenzene	0	No value	7.0E+03	-	-		
		o-Xylene	0	No value	3.3E+03	-	-		
		p-Cymene (p-Isopropyltoluene)	35	No value	No value	-	-		
		sec-Butylbenzene	0	No value	1.4E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	210	1.5E+01	1.4E+03	1E-05	2E-01		
		Toluene	44	No value	1.0E+04	-	4E-03		
		trans-1,2-Dichloroethene	0	No value	2.8E+03	-	-		
		Trichloroethene (TCE)	39	1.6E+01	7.0E+01	2E-06	6E-01		
		Vinyl Chloride	0	3.2E-01	3.3E+03	-	-		
SG17-25, P5298cc	25	1,1,1-Trichloroethane	0	No value	3.5E+04	-	-	2E-04	3E+01
		1,1,2,2-Tetrachloroethane	0	1.6E+00	2.8E+03	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	1.7E+05	-	-		
		1,1,2-Trichloroethane	0	6.0E+00	7.0E+00	-	-		
		1,1-Dichloroethane	0	5.8E+01	2.8E+04	-	-		
		1,1-Dichloroethene	0	No value	2.4E+03	-	-		
		1,1-Difluoroethane	0	No value	1.4E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	1.1E+02	-	-		
		1,2-Dichloroethane	0	3.7E+00	2.4E+02	-	-		
		1,3,5-Trimethylbenzene	0	No value	2.1E+03	-	-		
		1,4-Dichlorobenzene	0	8.7E+00	2.8E+04	-	-		
		1,4-Dioxane (p-Dioxane)	0	1.2E+01	1.0E+03	-	-		
		Benzene	100	3.2E+00	1.0E+02	3E-05	1E+00		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	4.0E+00	3.3E+03	-	-		
		Chloromethane	0	No value	3.1E+03	-	-		
		cis-1,2-Dichloroethylene	270	No value	2.8E+02	-	1E+00		
		Dichlorodifluoromethane	0	No value	3.3E+03	-	-		
		Ethylbenzene	0	3.7E+01	3.3E+04	-	-		
		Isopropylbenzene (Cumene)	0	No value	1.4E+04	-	-		
		m,p-Xylene	0	No value	3.3E+03	-	-		
		Methylene Chloride	0	3.4E+01	1.4E+04	-	-		
		Naphthalene	0	2.8E+00	1.0E+02	-	-		
		n-Butylbenzene	0	No value	7.0E+03	-	-		
		o-Xylene	0	No value	3.3E+03	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	1.4E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	1400	1.5E+01	1.4E+03	9E-05	1E+00		
		Toluene	53	No value	1.0E+04	-	5E-03		
		trans-1,2-Dichloroethene	0	No value	2.8E+03	-	-		
		Trichloroethene (TCE)	1700	1.6E+01	7.0E+01	1E-04	2E+01		
		Vinyl Chloride	0	3.2E-01	3.3E+03	-	-		

Table 6-10a
Risk Characterization (Soil Gas), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SG17-35, P5806cc	35	1,1,1-Trichloroethane	0	No value	3.5E+04	-	-	6E-04	1E+02
		1,1,2,2-Tetrachloroethane	0	1.6E+00	2.8E+03	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	1.7E+05	-	-		
		1,1,2-Trichloroethane	0	6.0E+00	7.0E+00	-	-		
		1,1-Dichloroethane	130	5.8E+01	2.8E+04	2E-06	5E-03		
		1,1-Dichloroethene	0	No value	2.4E+03	-	-		
		1,1-Difluoroethane	0	No value	1.4E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	1.1E+02	-	-		
		1,2-Dichloroethane	0	3.7E+00	2.4E+02	-	-		
		1,3,5-Trimethylbenzene	0	No value	2.1E+03	-	-		
		1,4-Dichlorobenzene	0	8.7E+00	2.8E+04	-	-		
		1,4-Dioxane (p-Dioxane)	0	1.2E+01	1.0E+03	-	-		
		Benzene	36	3.2E+00	1.0E+02	1E-05	3E-01		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	4.0E+00	3.3E+03	-	-		
		Chloromethane	0	No value	3.1E+03	-	-		
		cis-1,2-Dichloroethylene	3000	No value	2.8E+02	-	1E+01		
		Dichlorodifluoromethane	0	No value	3.3E+03	-	-		
		Ethylbenzene	0	3.7E+01	3.3E+04	-	-		
		Isopropylbenzene (Cumene)	0	No value	1.4E+04	-	-		
		m,p-Xylene	0	No value	3.3E+03	-	-		
		Methylene Chloride	0	3.4E+01	1.4E+04	-	-		
		Naphthalene	0	2.8E+00	1.0E+02	-	-		
		n-Butylbenzene	0	No value	7.0E+03	-	-		
		o-Xylene	0	No value	3.3E+03	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	1.4E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	480	1.5E+01	1.4E+03	3E-05	3E-01		
		Toluene	19	No value	1.0E+04	-	2E-03		
		trans-1,2-Dichloroethene	69	No value	2.8E+03	-	2E-02		
		Trichloroethene (TCE)	6800	1.6E+01	7.0E+01	4E-04	1E+02		
		Vinyl Chloride	27	3.2E-01	3.3E+03	9E-05	8E-03		
SG17-5, P4330cc	5	1,1,1-Trichloroethane	0	No value	3.5E+04	-	-	2E-05	1E+00
		1,1,2,2-Tetrachloroethane	0	1.6E+00	2.8E+03	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	1.7E+05	-	-		
		1,1,2-Trichloroethane	0	6.0E+00	7.0E+00	-	-		
		1,1-Dichloroethane	0	5.8E+01	2.8E+04	-	-		
		1,1-Dichloroethene	0	No value	2.4E+03	-	-		
		1,1-Difluoroethane	0	No value	1.4E+06	-	-		
		1,2,4-Trichlorobenzene	0	No value	1.1E+02	-	-		
		1,2-Dichloroethane	0	3.7E+00	2.4E+02	-	-		
		1,3,5-Trimethylbenzene	0	No value	2.1E+03	-	-		
		1,4-Dichlorobenzene	0	8.7E+00	2.8E+04	-	-		
		1,4-Dioxane (p-Dioxane)	0	1.2E+01	1.0E+03	-	-		
		Benzene	0	3.2E+00	1.0E+02	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	4.0E+00	3.3E+03	-	-		
		Chloromethane	0	No value	3.1E+03	-	-		
		cis-1,2-Dichloroethylene	0	No value	2.8E+02	-	-		
		Dichlorodifluoromethane	0	No value	3.3E+03	-	-		
		Ethylbenzene	0	3.7E+01	3.3E+04	-	-		
		Isopropylbenzene (Cumene)	0	No value	1.4E+04	-	-		
		m,p-Xylene	0	No value	3.3E+03	-	-		
		Methylene Chloride	0	3.4E+01	1.4E+04	-	-		
		Naphthalene	0	2.8E+00	1.0E+02	-	-		
		n-Butylbenzene	0	No value	7.0E+03	-	-		
		o-Xylene	0	No value	3.3E+03	-	-		
		p-Cymene (p-Isopropyltoluene)	0	No value	No value	-	-		
		sec-Butylbenzene	0	No value	1.4E+04	-	-		
		tert-Butylbenzene	0	No value	No value	-	-		
		Tetrachloroethene (PCE)	190	1.5E+01	1.4E+03	1E-05	1E-01		
		Toluene	27	No value	1.0E+04	-	3E-03		
		trans-1,2-Dichloroethene	0	No value	2.8E+03	-	-		
		Trichloroethene (TCE)	82	1.6E+01	7.0E+01	5E-06	1E+00		
		Vinyl Chloride	0	3.2E-01	3.3E+03	-	-		

Table 6-10a
Risk Characterization (Soil Gas), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample ID	Depth	Chemical of Potential Concern (COPC)*	Concentration (mg/m^3)	Soil Gas RBC (mg/m^3) from Table 6-4		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-SG41-E5	5	1,1,1-Trichloroethane	0	No value	3.5E+04	-	-	4E-04	1E+02
		1,1,2,2-Tetrachloroethane	0	1.6E+00	2.8E+03	-	-		
		1,1,2-Trichloro-1,2,2-trifluoroethane	0	No value	1.7E+05	-	-		
		1,1,2-Trichloroethane	0	6.0E+00	7.0E+00	-	-		
		1,1-Dichloroethane	20	5.8E+01	2.8E+04	3E-07	7E-04		
		1,1-Dichloroethene	0	No value	2.4E+03	-	-		
		1,2,4-Trichlorobenzene	0	No value	1.1E+02	-	-		
		1,2-Dichloroethane	0	3.7E+00	2.4E+02	-	-		
		1,3,5-Trimethylbenzene	0	No value	2.1E+03	-	-		
		1,4-Dichlorobenzene	0	8.7E+00	2.8E+04	-	-		
		Benzene	60	3.2E+00	1.0E+02	2E-05	6E-01		
		Chlorobenzene	0	No value	1.7E+03	-	-		
		Chloroethane	0	No value	No value	-	-		
		Chloroform	0	4.0E+00	3.3E+03	-	-		
		Chloromethane	0	No value	3.1E+03	-	-		
		cis-1,2-Dichloroethylene	5100	No value	2.8E+02	-	2E+01		
		Decahydromethyl Naphthalene*	100	No value	No value	-	-		
		Ethylbenzene	0	3.7E+01	3.3E+04	-	-		
		m,p-Xylene	0	No value	3.3E+03	-	-		
		Methylene Chloride	0	3.4E+01	1.4E+04	-	-		
		o-Xylene	0	No value	3.3E+03	-	-		
		Styrene	0	No value	3.1E+04	-	-		
		Tetrachloroethene (PCE)	50	1.5E+01	1.4E+03	3E-06	4E-02		
		Toluene	0	No value	1.0E+04	-	-		
		Trichloroethene (TCE)	6000	1.6E+01	7.0E+01	4E-04	9E+01		
		Vinyl Chloride	0	3.2E-01	3.3E+03	-	-		

Notes:

* Tentatively identified compound (TIC): concentration listed only for those samples where tentatively identified.

Table 6-10b
Risk Characterization (Indoor/Crawlspace Air), Current Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample	Sample Date	Indoor Air COPC	Indoor Air Concentration (mg/m^3)	Air RBC (from Table 6-3c) (mg/m^3)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
5227-IA02-0415	4/16/2015	1,1,1-Trichloroethane	0	No value	1.0E+03	-	-	8E-06	2E-01
		1,2,4-Trimethylbenzene	0.4	No value	No value	-	-		
		1,2-Dichloroethane	0.11	1.1E-01	7.3E+00	1E-06	2E-02		
		1,3,5-Trimethylbenzene	0.11	No value	6.3E+01	-	2E-03		
		Benzene	0.61	9.7E-02	3.1E+00	6E-06	2E-01		
		Ethylbenzene	0.44	1.1E+00	1.0E+03	4E-07	4E-04		
		m,p-Xylene	1	No value	1.0E+02	-	1E-02		
		Naphthalene	0	8.3E-02	3.1E+00	-	-		
		o-Xylene	0.36	No value	1.0E+02	-	4E-03		
		Tetrachloroethene (PCE)	0.12	4.6E-01	4.2E+01	3E-07	3E-03		
		Toluene	1.8	No value	3.1E+02	-	6E-03		
		Trichloroethene (TCE)	0	4.8E-01	2.1E+00	-	-		
5230-IA01-0415	4/16/2015	1,1,1-Trichloroethane	0	No value	1.0E+03	-	-	1E-05	3E-01
		1,2,4-Trimethylbenzene	0.51	No value	No value	-	-		
		1,2-Dichloroethane	0.09	1.1E-01	7.3E+00	8E-07	1E-02		
		1,3,5-Trimethylbenzene	0.14	No value	6.3E+01	-	2E-03		
		Benzene	0.76	9.7E-02	3.1E+00	8E-06	2E-01		
		Ethylbenzene	0.67	1.1E+00	1.0E+03	6E-07	7E-04		
		m,p-Xylene	2.2	No value	1.0E+02	-	2E-02		
		Naphthalene	0	8.3E-02	3.1E+00	-	-		
		o-Xylene	0.6	No value	1.0E+02	-	6E-03		
		Tetrachloroethene (PCE)	0.14	4.6E-01	4.2E+01	3E-07	3E-03		
		Toluene	2.6	No value	3.1E+02	-	8E-03		
		Trichloroethene (TCE)	0.052	4.8E-01	2.1E+00	1E-07	2E-02		
5211-IA01-0415	4/17/2015	1,1,1-Trichloroethane	0	No value	1.0E+03	-	-	1E-05	3E-01
		1,2,4-Trimethylbenzene	0.4	No value	No value	-	-		
		1,2-Dichloroethane	0.19	1.1E-01	7.3E+00	2E-06	3E-02		
		1,3,5-Trimethylbenzene	0.11	No value	6.3E+01	-	2E-03		
		Benzene	0.63	9.7E-02	3.1E+00	7E-06	2E-01		
		Ethylbenzene	0.34	1.1E+00	1.0E+03	3E-07	3E-04		
		m,p-Xylene	1	No value	1.0E+02	-	1E-02		
		Naphthalene	0	8.3E-02	3.1E+00	-	-		
		o-Xylene	0.35	No value	1.0E+02	-	4E-03		
		Tetrachloroethene (PCE)	1.4	4.6E-01	4.2E+01	3E-06	3E-02		
		Toluene	3.3	No value	3.1E+02	-	1E-02		
		Trichloroethene (TCE)	0.054	4.8E-01	2.1E+00	1E-07	3E-02		
5211-CS01-0415	4/17/2015	1,1,1-Trichloroethane	0	No value	1.0E+03	-	-	1E-05	3E-01
		1,2,4-Trimethylbenzene	0.47	No value	No value	-	-		
		1,2-Dichloroethane	0.054	1.1E-01	7.3E+00	5E-07	7E-03		
		1,3,5-Trimethylbenzene	0.13	No value	6.3E+01	-	2E-03		
		Benzene	0.86	9.7E-02	3.1E+00	9E-06	3E-01		
		Ethylbenzene	0.34	1.1E+00	1.0E+03	3E-07	3E-04		
		m,p-Xylene	1.1	No value	1.0E+02	-	1E-02		
		Naphthalene	0	8.3E-02	3.1E+00	-	-		
		o-Xylene	0.37	No value	1.0E+02	-	4E-03		
		Tetrachloroethene (PCE)	0.11	4.6E-01	4.2E+01	2E-07	3E-03		
		Toluene	2	No value	3.1E+02	-	6E-03		
		Trichloroethene (TCE)	0	4.8E-01	2.1E+00	-	-		

Table 6-10b
Risk Characterization (Indoor/Crawlspace Air), Current Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample	Sample Date	Indoor Air COPC	Indoor Air Concentration (mg/m^3)	Air RBC (from Table 6-3c) (mg/m^3)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
5234-IA01-0415	4/17/2015	1,1,1-Trichloroethane	0	No value	1.0E+03	-	-	9E-06	3E-01
		1,2,4-Trimethylbenzene	0.41	No value	No value	-	-		
		1,2-Dichloroethane	0.077	1.1E-01	7.3E+00	7E-07	1E-02		
		1,3,5-Trimethylbenzene	0.1	No value	6.3E+01	-	2E-03		
		Benzene	0.75	9.7E-02	3.1E+00	8E-06	2E-01		
		Ethylbenzene	0.3	1.1E+00	1.0E+03	3E-07	3E-04		
		m,p-Xylene	1	No value	1.0E+02	-	1E-02		
		Naphthalene	0	8.3E-02	3.1E+00	-	-		
		o-Xylene	0.36	No value	1.0E+02	-	4E-03		
		Tetrachloroethene (PCE)	0.094	4.6E-01	4.2E+01	2E-07	2E-03		
		Toluene	2	No value	3.1E+02	-	6E-03		
		Trichloroethene (TCE)	0.05	4.8E-01	2.1E+00	1E-07	2E-02		
5234-CS01-0415	4/17/2015	1,1,1-Trichloroethane	0	No value	1.0E+03	-	-	8E-06	3E-01
		1,2,4-Trimethylbenzene	0.38	No value	No value	-	-		
		1,2-Dichloroethane	0.051	1.1E-01	7.3E+00	5E-07	7E-03		
		1,3,5-Trimethylbenzene	0.11	No value	6.3E+01	-	2E-03		
		Benzene	0.69	9.7E-02	3.1E+00	7E-06	2E-01		
		Ethylbenzene	0.29	1.1E+00	1.0E+03	3E-07	3E-04		
		m,p-Xylene	0.96	No value	1.0E+02	-	1E-02		
		Naphthalene	0	8.3E-02	3.1E+00	-	-		
		o-Xylene	0.33	No value	1.0E+02	-	3E-03		
		Tetrachloroethene (PCE)	0.11	4.6E-01	4.2E+01	2E-07	3E-03		
		Toluene	1.7	No value	3.1E+02	-	5E-03		
		Trichloroethene (TCE)	0.05	4.8E-01	2.1E+00	1E-07	2E-02		
5215-CS01-0415	4/17/2015	1,1,1-Trichloroethane	0	No value	1.0E+03	-	-	8E-06	3E-01
		1,2,4-Trimethylbenzene	0.36	No value	No value	-	-		
		1,2-Dichloroethane	0.051	1.1E-01	7.3E+00	5E-07	7E-03		
		1,3,5-Trimethylbenzene	0.099	No value	6.3E+01	-	2E-03		
		Benzene	0.71	9.7E-02	3.1E+00	7E-06	2E-01		
		Ethylbenzene	0.3	1.1E+00	1.0E+03	3E-07	3E-04		
		m,p-Xylene	0.96	No value	1.0E+02	-	1E-02		
		Naphthalene	0	8.3E-02	3.1E+00	-	-		
		o-Xylene	0.32	No value	1.0E+02	-	3E-03		
		Tetrachloroethene (PCE)	0.089	4.6E-01	4.2E+01	2E-07	2E-03		
		Toluene	1.8	No value	3.1E+02	-	6E-03		
		Trichloroethene (TCE)	0	4.8E-01	2.1E+00	-	-		
5226-IA02-0415	4/23/2015	1,1,1-Trichloroethane	0	No value	1.0E+03	-	-	9E-06	3E-01
		1,2,4-Trimethylbenzene	0.68	No value	No value	-	-		
		1,2-Dichloroethane	0.068	1.1E-01	7.3E+00	6E-07	9E-03		
		1,3,5-Trimethylbenzene	0.18	No value	6.3E+01	-	3E-03		
		Benzene	0.78	9.7E-02	3.1E+00	8E-06	2E-01		
		Ethylbenzene	0.37	1.1E+00	1.0E+03	3E-07	4E-04		
		m,p-Xylene	1	No value	1.0E+02	-	1E-02		
		Naphthalene	0	8.3E-02	3.1E+00	-	-		
		o-Xylene	0.41	No value	1.0E+02	-	4E-03		
		Tetrachloroethene (PCE)	0.14	4.6E-01	4.2E+01	3E-07	3E-03		
		Toluene	2.1	No value	3.1E+02	-	7E-03		
		Trichloroethene (TCE)	0.07	4.8E-01	2.1E+00	1E-07	3E-02		

Table 6-10b
Risk Characterization (Indoor/Crawlspace Air), Current Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample	Sample Date	Indoor Air COPC	Indoor Air Concentration (mg/m^3)	Air RBC (from Table 6-3c) (mg/m^3)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
5226-IA01-0415	4/23/2015	1,1,1-Trichloroethane	0	No value	1.0E+03	-	-	8E-06	3E-01
		1,2,4-Trimethylbenzene	0.54	No value	No value	-	-		
		1,2-Dichloroethane	0.099	1.1E-01	7.3E+00	9E-07	1E-02		
		1,3,5-Trimethylbenzene	0.16	No value	6.3E+01	-	3E-03		
		Benzene	0.66	9.7E-02	3.1E+00	7E-06	2E-01		
		Ethylbenzene	0.31	1.1E+00	1.0E+03	3E-07	3E-04		
		m,p-Xylene	0.92	No value	1.0E+02	-	9E-03		
		Naphthalene	0	8.3E-02	3.1E+00	-	-		
		o-Xylene	0.34	No value	1.0E+02	-	3E-03		
		Tetrachloroethene (PCE)	0.084	4.6E-01	4.2E+01	2E-07	2E-03		
		Toluene	3.6	No value	3.1E+02	-	1E-02		
		Trichloroethene (TCE)	0.059	4.8E-01	2.1E+00	1E-07	3E-02		
5226-IA04-0415	4/24/2015	1,1,1-Trichloroethane	0	No value	1.0E+03	-	-	1E-05	4E-01
		1,2,4-Trimethylbenzene	0.5	No value	No value	-	-		
		1,2-Dichloroethane	0.27	1.1E-01	7.3E+00	2E-06	4E-02		
		1,3,5-Trimethylbenzene	0.13	No value	6.3E+01	-	2E-03		
		Benzene	0.88	9.7E-02	3.1E+00	9E-06	3E-01		
		Ethylbenzene	0.42	1.1E+00	1.0E+03	4E-07	4E-04		
		m,p-Xylene	1.2	No value	1.0E+02	-	1E-02		
		Naphthalene	0	8.3E-02	3.1E+00	-	-		
		o-Xylene	0.43	No value	1.0E+02	-	4E-03		
		Tetrachloroethene (PCE)	0.093	4.6E-01	4.2E+01	2E-07	2E-03		
		Toluene	2.5	No value	3.1E+02	-	8E-03		
		Trichloroethene (TCE)	0.06	4.8E-01	2.1E+00	1E-07	3E-02		
5215-IA01-0415	4/24/2015	1,1,1-Trichloroethane	0	No value	1.0E+03	-	-	6E-06	2E-01
		1,2,4-Trimethylbenzene	0.37	No value	No value	-	-		
		1,2-Dichloroethane	0.043	1.1E-01	7.3E+00	4E-07	6E-03		
		1,3,5-Trimethylbenzene	0.094	No value	6.3E+01	-	1E-03		
		Benzene	0.55	9.7E-02	3.1E+00	6E-06	2E-01		
		Ethylbenzene	0.21	1.1E+00	1.0E+03	2E-07	2E-04		
		m,p-Xylene	0.65	No value	1.0E+02	-	7E-03		
		Naphthalene	0	8.3E-02	3.1E+00	-	-		
		o-Xylene	0.23	No value	1.0E+02	-	2E-03		
		Tetrachloroethene (PCE)	0.078	4.6E-01	4.2E+01	2E-07	2E-03		
		Toluene	1.3	No value	3.1E+02	-	4E-03		
		Trichloroethene (TCE)	0.018	4.8E-01	2.1E+00	4E-08	9E-03		
5211-IA01-0116	1/27/2016	1,1,1-Trichloroethane	0	No value	1.0E+03	-	-	2E-05	5E-01
		1,2,4-Trimethylbenzene	1.4	No value	No value	-	-		
		1,2-Dichloroethane	0.08	1.1E-01	7.3E+00	7E-07	1E-02		
		1,3,5-Trimethylbenzene	0.27	No value	6.3E+01	-	4E-03		
		Benzene	1.2	9.7E-02	3.1E+00	1E-05	4E-01		
		Ethylbenzene	0.98	1.1E+00	1.0E+03	9E-07	1E-03		
		m,p-Xylene	3.3	No value	1.0E+02	-	3E-02		
		Naphthalene	0	8.3E-02	3.1E+00	-	-		
		o-Xylene	1.1	No value	1.0E+02	-	1E-02		
		Tetrachloroethene (PCE)	1.3	4.6E-01	4.2E+01	3E-06	3E-02		
		Toluene	4.3	No value	3.1E+02	-	1E-02		
		Trichloroethene (TCE)	0.09	4.8E-01	2.1E+00	2E-07	4E-02		

Table 6-10b
Risk Characterization (Indoor/Crawlspace Air), Current Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample	Sample Date	Indoor Air COPC	Indoor Air Concentration (mg/m^3)	Air RBC (from Table 6-3c) (mg/m^3)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
5211-CS01-0116	1/27/2016	1,1,1-Trichloroethane	0	No value	1.0E+03	-	-	1E-05	3E-01
		1,2,4-Trimethylbenzene	0.93	No value	No value	-	-		
		1,2-Dichloroethane	0	1.1E-01	7.3E+00	-	-		
		1,3,5-Trimethylbenzene	0.19	No value	6.3E+01	-	3E-03		
		Benzene	0.89	9.7E-02	3.1E+00	9E-06	3E-01		
		Ethylbenzene	0.59	1.1E+00	1.0E+03	5E-07	6E-04		
		m,p-Xylene	2	No value	1.0E+02	-	2E-02		
		Naphthalene	0	8.3E-02	3.1E+00	-	-		
		o-Xylene	0.71	No value	1.0E+02	-	7E-03		
		Tetrachloroethene (PCE)	0.14	4.6E-01	4.2E+01	3E-07	3E-03		
		Toluene	2.9	No value	3.1E+02	-	9E-03		
		Trichloroethene (TCE)	0	4.8E-01	2.1E+00	-	-		
5226-IA01-0116	1/27/2016	1,1,1-Trichloroethane	0	No value	1.0E+03	-	-	2E-05	7E-01
		1,2,4-Trimethylbenzene	1.8	No value	No value	-	-		
		1,2-Dichloroethane	0.09	1.1E-01	7.3E+00	8E-07	1E-02		
		1,3,5-Trimethylbenzene	0.34	No value	6.3E+01	-	5E-03		
		Benzene	1.8	9.7E-02	3.1E+00	2E-05	6E-01		
		Ethylbenzene	0.84	1.1E+00	1.0E+03	8E-07	8E-04		
		m,p-Xylene	2.7	No value	1.0E+02	-	3E-02		
		Naphthalene	0	8.3E-02	3.1E+00	-	-		
		o-Xylene	0.98	No value	1.0E+02	-	1E-02		
		Tetrachloroethene (PCE)	0.18	4.6E-01	4.2E+01	4E-07	4E-03		
		Toluene	4.7	No value	3.1E+02	-	2E-02		
		Trichloroethene (TCE)	0	4.8E-01	2.1E+00	-	-		
5215-IA01-0116	1/27/2016	1,1,1-Trichloroethane	0	No value	1.0E+03	-	-	2E-05	5E-01
		1,2,4-Trimethylbenzene	1.1	No value	No value	-	-		
		1,2-Dichloroethane	0.07	1.1E-01	7.3E+00	6E-07	1E-02		
		1,3,5-Trimethylbenzene	0.22	No value	6.3E+01	-	3E-03		
		Benzene	1.5	9.7E-02	3.1E+00	2E-05	5E-01		
		Ethylbenzene	0.67	1.1E+00	1.0E+03	6E-07	7E-04		
		m,p-Xylene	2.2	No value	1.0E+02	-	2E-02		
		Naphthalene	0	8.3E-02	3.1E+00	-	-		
		o-Xylene	0.79	No value	1.0E+02	-	8E-03		
		Tetrachloroethene (PCE)	0.18	4.6E-01	4.2E+01	4E-07	4E-03		
		Toluene	3.8	No value	3.1E+02	-	1E-02		
		Trichloroethene (TCE)	0	4.8E-01	2.1E+00	-	-		
5215-CS01-0116	1/27/2016	1,1,1-Trichloroethane	0	No value	1.0E+03	-	-	1E-05	4E-01
		1,2,4-Trimethylbenzene	1.4	No value	No value	-	-		
		1,2-Dichloroethane	0	1.1E-01	7.3E+00	-	-		
		1,3,5-Trimethylbenzene	0.27	No value	6.3E+01	-	4E-03		
		Benzene	1.2	9.7E-02	3.1E+00	1E-05	4E-01		
		Ethylbenzene	0.82	1.1E+00	1.0E+03	7E-07	8E-04		
		m,p-Xylene	2.7	No value	1.0E+02	-	3E-02		
		Naphthalene	0	8.3E-02	3.1E+00	-	-		
		o-Xylene	0.97	No value	1.0E+02	-	1E-02		
		Tetrachloroethene (PCE)	0.2	4.6E-01	4.2E+01	4E-07	5E-03		
		Toluene	4.2	No value	3.1E+02	-	1E-02		
		Trichloroethene (TCE)	0	4.8E-01	2.1E+00	-	-		

Table 6-10b
Risk Characterization (Indoor/Crawlspace Air), Current Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample	Sample Date	Indoor Air COPC	Indoor Air Concentration (mg/m^3)	Air RBC (from Table 6-3c) (mg/m^3)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
5226-IA04-0116	1/27/2016	1,1,1-Trichloroethane	0	No value	1.0E+03	-	-	3E-05	1E+00
		1,2,4-Trimethylbenzene	1.3	No value	No value	-	-		
		1,2-Dichloroethane	0.43	1.1E-01	7.3E+00	4E-06	6E-02		
		1,3,5-Trimethylbenzene	0.25	No value	6.3E+01	-	4E-03		
		Benzene	2.7	9.7E-02	3.1E+00	3E-05	9E-01		
		Ethylbenzene	0.66	1.1E+00	1.0E+03	6E-07	7E-04		
		m,p-Xylene	2.1	No value	1.0E+02	-	2E-02		
		Naphthalene	0	8.3E-02	3.1E+00	-	-		
		o-Xylene	0.74	No value	1.0E+02	-	7E-03		
		Tetrachloroethene (PCE)	0.25	4.6E-01	4.2E+01	5E-07	6E-03		
		Toluene	4.2	No value	3.1E+02	-	1E-02		
		Trichloroethene (TCE)	0	4.8E-01	2.1E+00	-	-		
5234-IA01-0116	1/27/2016	1,1,1-Trichloroethane	0	No value	1.0E+03	-	-	2E-05	5E-01
		1,2,4-Trimethylbenzene	1.2	No value	No value	-	-		
		1,2-Dichloroethane	0	1.1E-01	7.3E+00	-	-		
		1,3,5-Trimethylbenzene	0.26	No value	6.3E+01	-	4E-03		
		Benzene	1.5	9.7E-02	3.1E+00	2E-05	5E-01		
		Ethylbenzene	0.8	1.1E+00	1.0E+03	7E-07	8E-04		
		m,p-Xylene	2.6	No value	1.0E+02	-	3E-02		
		Naphthalene	0	8.3E-02	3.1E+00	-	-		
		o-Xylene	0.94	No value	1.0E+02	-	9E-03		
		Tetrachloroethene (PCE)	0.21	4.6E-01	4.2E+01	5E-07	5E-03		
		Toluene	4.5	No value	3.1E+02	-	1E-02		
		Trichloroethene (TCE)	0	4.8E-01	2.1E+00	-	-		
5234-CS01-0116	1/27/2016	1,1,1-Trichloroethane	0	No value	1.0E+03	-	-	1E-05	5E-01
		1,2,4-Trimethylbenzene	1.2	No value	No value	-	-		
		1,2-Dichloroethane	0	1.1E-01	7.3E+00	-	-		
		1,3,5-Trimethylbenzene	0.26	No value	6.3E+01	-	4E-03		
		Benzene	1.3	9.7E-02	3.1E+00	1E-05	4E-01		
		Ethylbenzene	0.79	1.1E+00	1.0E+03	7E-07	8E-04		
		m,p-Xylene	2.6	No value	1.0E+02	-	3E-02		
		Naphthalene	0	8.3E-02	3.1E+00	-	-		
		o-Xylene	0.95	No value	1.0E+02	-	1E-02		
		Tetrachloroethene (PCE)	0.21	4.6E-01	4.2E+01	5E-07	5E-03		
		Toluene	4.4	No value	3.1E+02	-	1E-02		
		Trichloroethene (TCE)	0	4.8E-01	2.1E+00	-	-		
5226-IA02-0116	1/28/2016	1,1,1-Trichloroethane	0	No value	1.0E+03	-	-	2E-05	7E-01
		1,2,4-Trimethylbenzene	13	No value	No value	-	-		
		1,2-Dichloroethane	0.08	1.1E-01	7.3E+00	7E-07	1E-02		
		1,3,5-Trimethylbenzene	1.9	No value	6.3E+01	-	3E-02		
		Benzene	1.3	9.7E-02	3.1E+00	1E-05	4E-01		
		Ethylbenzene	2.4	1.1E+00	1.0E+03	2E-06	2E-03		
		m,p-Xylene	4.9	No value	1.0E+02	-	5E-02		
		Naphthalene	0.24	8.3E-02	3.1E+00	3E-06	8E-02		
		o-Xylene	2.1	No value	1.0E+02	-	2E-02		
		Tetrachloroethene (PCE)	0.31	4.6E-01	4.2E+01	7E-07	7E-03		
		Toluene	5.9	No value	3.1E+02	-	2E-02		
		Trichloroethene (TCE)	0.08	4.8E-01	2.1E+00	2E-07	4E-02		

Table 6-10b
Risk Characterization (Indoor/Crawlspace Air), Current Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample	Sample Date	Indoor Air COPC	Indoor Air Concentration (mg/m^3)	Air RBC (from Table 6-3c) (mg/m^3)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
				Cancer	Noncancer			ILCR (unitless)	HI (unitless)
5230-IA02-0116	1/28/2016	1,1,1-Trichloroethane	0.08	No value	1.0E+03	-	8E-05	2E-05	7E-01
		1,2,4-Trimethylbenzene	1.7	No value	No value	-	-		
		1,2-Dichloroethane	0.36	1.1E-01	7.3E+00	3E-06	5E-02		
		1,3,5-Trimethylbenzene	0.33	No value	6.3E+01	-	5E-03		
		Benzene	1.7	9.7E-02	3.1E+00	2E-05	5E-01		
		Ethylbenzene	1.3	1.1E+00	1.0E+03	1E-06	1E-03		
		m,p-Xylene	4.2	No value	1.0E+02	-	4E-02		
		Naphthalene	0	8.3E-02	3.1E+00	-	-		
		o-Xylene	1.3	No value	1.0E+02	-	1E-02		
		Tetrachloroethene (PCE)	0.25	4.6E-01	4.2E+01	5E-07	6E-03		
		Toluene	5.5	No value	3.1E+02	-	2E-02		
		Trichloroethene (TCE)	0.07	4.8E-01	2.1E+00	1E-07	3E-02		
5406-IA01-0116	1/28/2016	1,1,1-Trichloroethane	0	No value	1.0E+03	-	-	2E-05	6E-01
		1,2,4-Trimethylbenzene	1.9	No value	No value	-	-		
		1,2-Dichloroethane	0.17	1.1E-01	7.3E+00	2E-06	2E-02		
		1,3,5-Trimethylbenzene	0.41	No value	6.3E+01	-	7E-03		
		Benzene	1.6	9.7E-02	3.1E+00	2E-05	5E-01		
		Ethylbenzene	1.1	1.1E+00	1.0E+03	1E-06	1E-03		
		m,p-Xylene	3.6	No value	1.0E+02	-	4E-02		
		Naphthalene	0	8.3E-02	3.1E+00	-	-		
		o-Xylene	1.3	No value	1.0E+02	-	1E-02		
		Tetrachloroethene (PCE)	0.28	4.6E-01	4.2E+01	6E-07	7E-03		
		Toluene	5.7	No value	3.1E+02	-	2E-02		
		Trichloroethene (TCE)	0	4.8E-01	2.1E+00	-	-		
5227-IA02-0116	1/28/2016	1,1,1-Trichloroethane	0	No value	1.0E+03	-	-	2E-05	6E-01
		1,2,4-Trimethylbenzene	1.9	No value	No value	-	-		
		1,2-Dichloroethane	0.16	1.1E-01	7.3E+00	1E-06	2E-02		
		1,3,5-Trimethylbenzene	0.41	No value	6.3E+01	-	7E-03		
		Benzene	1.6	9.7E-02	3.1E+00	2E-05	5E-01		
		Ethylbenzene	1.1	1.1E+00	1.0E+03	1E-06	1E-03		
		m,p-Xylene	3.6	No value	1.0E+02	-	4E-02		
		Naphthalene	0	8.3E-02	3.1E+00	-	-		
		o-Xylene	1.3	No value	1.0E+02	-	1E-02		
		Tetrachloroethene (PCE)	0.29	4.6E-01	4.2E+01	6E-07	7E-03		
		Toluene	5.9	No value	3.1E+02	-	2E-02		
		Trichloroethene (TCE)	0	4.8E-01	2.1E+00	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW2A-0716 (Shallow Gaspur; 60 to 65)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	1E-04	2E+01
	1,1-Dichloroethane	5.5	7.6E+00	3.6E+03	7E-07	2E-03		
	1,1-Dichloroethene	6.4	-	6.8E+01	No value	9E-02		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	5.3	1.9E+03	1.6E+05	3E-09	3E-05		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	1300	-	5.0E+01	No value	3E+01		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	85	-	2.2E+02	No value	4E-01		
	Trichloroethene (TCE)	120	1.2E+00	5.2E+00	1E-04	2E+01		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW2B-0716 (Intermediate Gaspur; 70 to 80)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	2E-05	5E-01
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0.81	2.3E+00	1.5E+02	4E-07	5E-03		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0	1.9E+03	1.6E+05	-	-		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	10	-	5.0E+01	No value	2E-01		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	1.5	-	2.2E+02	No value	7E-03		
	Trichloroethene (TCE)	0.57	1.2E+00	5.2E+00	5E-07	1E-01		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW2C-0716 (Lower Gaspur; 96 to 106)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	1E-04	1E+00
	1,1-Dichloroethane	1.8	7.6E+00	3.6E+03	2E-07	5E-04		
	1,1-Dichloroethene	3.5	-	6.8E+01	No value	5E-02		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	33	2.3E+00	1.5E+02	1E-05	2E-01		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	15	1.9E+03	1.6E+05	8E-09	9E-05		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	7.8	-	2.2E+07	No value	3E-07		
	Benzene	2.2	4.3E-01	1.4E+01	5E-06	2E-01		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	270	-	5.0E+01	No value	5E+00		
	Cyclohexane	1.1	-	1.0E+03	No value	1E-03		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	19	-	2.2E+02	No value	9E-02		
	Trichloroethene (TCE)	4.7	1.2E+00	5.2E+00	4E-06	9E-01		
	Vinyl Chloride	0.87	8.3E-03	8.8E+01	1E-04	1E-02		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW7-0716 (Exposition; 122 to 132)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	2E-05	4E+00
	1,1-Dichloroethane	0.84	7.6E+00	3.6E+03	1E-07	2E-04		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	2.9	2.3E+00	1.5E+02	1E-06	2E-02		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	7.9	1.9E+03	1.6E+05	4E-09	5E-05		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	73	-	5.0E+01	No value	1E+00		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	4.8	-	2.2E+02	No value	2E-02		
	Trichloroethene (TCE)	19	1.2E+00	5.2E+00	2E-05	4E+00		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
MW42-0716 (Shallow Gaspur; 56 to 66)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	5E-05	7E+00
	1,1-Dichloroethane	18	7.6E+00	3.6E+03	2E-06	5E-03		
	1,1-Dichloroethene	3.7	-	6.8E+01	No value	5E-02		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	47	1.9E+03	1.6E+05	3E-08	3E-04		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	1100	-	5.0E+01	No value	2E+01		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	40	-	2.2E+02	No value	2E-01		
	Trichloroethene (TCE)	32	1.2E+00	5.2E+00	3E-05	6E+00		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
MW43-0716 (Intermediate Gaspur; 77 to 87)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	1E-04	1E+00
	1,1-Dichloroethane	1	7.6E+00	3.6E+03	1E-07	3E-04		
	1,1-Dichloroethene	3.4	-	6.8E+01	No value	5E-02		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	44	2.3E+00	1.5E+02	2E-05	3E-01		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	4	1.9E+03	1.6E+05	2E-09	3E-05		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	42	-	5.0E+01	No value	8E-01		
	Cyclohexane	2.5	-	1.0E+03	No value	2E-03		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	3	-	2.2E+02	No value	1E-02		
	Trichloroethene (TCE)	5.4	1.2E+00	5.2E+00	5E-06	1E+00		
	Vinyl Chloride	1	8.3E-03	8.8E+01	1E-04	1E-02		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
MW44-0716 (Lower Gaspur; 96 to 106)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	0E+00	1E-02
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	8.2	1.9E+03	1.6E+05	4E-09	5E-05		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	0.37	-	5.0E+01	No value	7E-03		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	0	-	2.2E+02	No value	-		
	Trichloroethene (TCE)	0	1.2E+00	5.2E+00	-	-		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
MW34-0716 (Shallow Gaspur; 58 to 68)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	1E-04	1E+00
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0.94	-	6.8E+01	No value	1E-02		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0	1.9E+03	1.6E+05	-	-		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	50	-	2.2E+07	No value	2E-06		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	170	-	5.0E+01	No value	3E+00		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	1.7	4.6E+02	1.3E+05	4E-09	1E-05		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	9.9	-	2.2E+02	No value	5E-02		
	Trichloroethene (TCE)	4.5	1.2E+00	5.2E+00	4E-06	9E-01		
	Vinyl Chloride	0.81	8.3E-03	8.8E+01	1E-04	9E-03		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
MW35-0716 (Lower Gaspur; 95 to 105)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	3E-06	7E-01
	1,1-Dichloroethane	3	7.6E+00	3.6E+03	4E-07	8E-04		
	1,1-Dichloroethene	4	-	6.8E+01	No value	6E-02		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	6.8	2.3E+00	1.5E+02	3E-06	4E-02		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	19	1.9E+03	1.6E+05	1E-08	1E-04		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0.7	4.3E-01	1.4E+01	2E-06	5E-02		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	330	-	5.0E+01	No value	7E+00		
	Cyclohexane	0.92	-	1.0E+03	No value	9E-04		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	15	-	2.2E+02	No value	7E-02		
	Trichloroethene (TCE)	3.5	1.2E+00	5.2E+00	3E-06	7E-01		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
MW32-0716 (Exposition; 122 to 132)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	0E+00	0E+00
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0	1.9E+03	1.6E+05	-	-		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	0.67	-	5.0E+01	No value	1E-02		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	0	-	2.2E+02	No value	-		
	Trichloroethene (TCE)	0	1.2E+00	5.2E+00	-	-		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW3A-0716 (Shallow Gaspur; 58 to 68)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	3E-06	6E-02
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0	1.9E+03	1.6E+05	-	-		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	1.1	-	5.0E+01	No value	2E-02		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	0	-	2.2E+02	No value	-		
	Trichloroethene (TCE)	0.29	1.2E+00	5.2E+00	2E-07	6E-02		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW3B-0716 (Intermediate Gaspur; 76 to 86)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	3E-03	7E+02
	1,1-Dichloroethane	23	7.6E+00	3.6E+03	3E-06	6E-03		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	3.9	1.9E+03	1.6E+05	2E-09	2E-05		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	4600	-	5.0E+01	No value	9E+01		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	340	-	2.2E+02	No value	2E+00		
	Trichloroethene (TCE)	3500	1.2E+00	5.2E+00	3E-03	7E+02		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW3C-0716 (Lower Gaspur; 96 to 106)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	8E-06	1E+00
	1,1-Dichloroethane	0.51	7.6E+00	3.6E+03	7E-08	1E-04		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	2.8	2.3E+00	1.5E+02	1E-06	2E-02		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	6.1	1.9E+03	1.6E+05	3E-09	4E-05		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	49	-	5.0E+01	No value	1E+00		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	5.4	-	2.2E+02	No value	2E-02		
	Trichloroethene (TCE)	5.7	1.2E+00	5.2E+00	5E-06	1E+00		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW1A-0716 (Shallow Gaspur; 60 to 65)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	1E-03	3E+02
	1,1-Dichloroethane	22	7.6E+00	3.6E+03	3E-06	6E-03		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0	1.9E+03	1.6E+05	-	-		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	3900	-	5.0E+01	No value	8E+01		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	160	-	2.2E+02	No value	7E-01		
	Trichloroethene (TCE)	1500	1.2E+00	5.2E+00	1E-03	3E+02		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		
	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW1B-0716 (Intermediate Gaspur; 75 to 85)	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-	2E-05	7E-01
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0.58	2.3E+00	1.5E+02	3E-07	4E-03		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0	1.9E+03	1.6E+05	-	-		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	14	-	5.0E+01	No value	3E-01		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	2	-	2.2E+02	No value	9E-03		
	Trichloroethene (TCE)	0.84	1.2E+00	5.2E+00	7E-07	2E-01		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW1C-0716 (Lower Gaspur; 94 to 104)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	2E-03	1E+00
	1,1-Dichloroethane	2.6	7.6E+00	3.6E+03	3E-07	7E-04		
	1,1-Dichloroethene	5.3	-	6.8E+01	No value	8E-02		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	33	2.3E+00	1.5E+02	1E-05	2E-01		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	7.3	1.9E+03	1.6E+05	4E-09	5E-05		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	3.2	4.3E-01	1.4E+01	7E-06	2E-01		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	350	-	5.0E+01	No value	7E+00		
	Cyclohexane	2	-	1.0E+03	No value	2E-03		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	27	-	2.2E+02	No value	1E-01		
	Trichloroethene (TCE)	4.4	1.2E+00	5.2E+00	4E-06	8E-01		
	Vinyl Chloride	18	8.3E-03	8.8E+01	2E-03	2E-01		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
MW45-0716 (Intermediate Gaspur; 79 to 89)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	1E-06	3E-01
	1,1-Dichloroethane	0.45	7.6E+00	3.6E+03	6E-08	1E-04		
	1,1-Dichloroethene	0.99	-	6.8E+01	No value	1E-02		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	5.4	2.3E+00	1.5E+02	2E-06	4E-02		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	3.5	1.9E+03	1.6E+05	2E-09	2E-05		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0.43	4.3E-01	1.4E+01	1E-06	3E-02		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0.27	-	1.2E+03	No value	2E-04		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	76	-	5.0E+01	No value	2E+00		
	Cyclohexane	0.3	-	1.0E+03	No value	3E-04		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	5.8	-	2.2E+02	No value	3E-02		
	Trichloroethene (TCE)	1.6	1.2E+00	5.2E+00	1E-06	3E-01		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW11A-0716 (Shallow Gaspur; 74 to 79)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	0E+00	2E-07
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0	1.9E+03	1.6E+05	-	-		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	0	-	5.0E+01	No value	-		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	0	-	2.2E+02	No value	-		
	Trichloroethene (TCE)	0	1.2E+00	5.2E+00	-	-		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW11B-0716 (Intermediate Gaspur; 96 to 106)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	1E-05	3E+00
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0	1.9E+03	1.6E+05	-	-		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	3.5	-	2.2E+07	No value	2E-07		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	47	-	5.0E+01	No value	9E-01		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	6.1	-	2.2E+02	No value	3E-02		
	Trichloroethene (TCE)	16	1.2E+00	5.2E+00	1E-05	3E+00		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW11C-0716 (Lower Gaspur; 114.5 to 119.5)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	9E-06	2E+00
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0	1.9E+03	1.6E+05	-	-		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	36	-	5.0E+01	No value	7E-01		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	6.7	-	2.2E+02	No value	3E-02		
	Trichloroethene (TCE)	11	1.2E+00	5.2E+00	9E-06	2E+00		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
MW49-0716 (Shallow Gaspur; 60 to 70)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	2E-06	3E-01
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0	1.9E+03	1.6E+05	-	-		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	49	-	5.0E+01	No value	1E+00		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	6.3	-	2.2E+02	No value	3E-02		
	Trichloroethene (TCE)	1.6	1.2E+00	5.2E+00	1E-06	3E-01		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW10-0716 (Exposition; 128 to 138)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	8E-07	3E-01
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0.59	2.3E+00	1.5E+02	3E-07	4E-03		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0.72	1.9E+03	1.6E+05	4E-10	5E-06		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	220	-	5.0E+01	No value	4E+00		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	14	-	2.2E+02	No value	6E-02		
	Trichloroethene (TCE)	0.93	1.2E+00	5.2E+00	8E-07	2E-01		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW9A-0716 (Shallow Gaspur; 55 to 60)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	6E-10	6E-04
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0.37	-	6.5E+01	No value	6E-03		
	1,2,4-Trichlorobenzene	0.2	6.7E+00	3.6E+01	3E-08	6E-03		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	7.5	1.9E+03	1.6E+05	4E-09	5E-05		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	1.2	-	5.0E+01	No value	2E-02		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	0.13	-	2.2E+02	No value	6E-04		
	Trichloroethene (TCE)	0	1.2E+00	5.2E+00	-	-		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW9B-0716 (Intermediate Gaspur; 73 to 78)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	9E-07	2E-01
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	1.2	1.9E+03	1.6E+05	6E-10	8E-06		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	52	-	5.0E+01	No value	1E+00		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	5.5	-	2.2E+02	No value	3E-02		
	Trichloroethene (TCE)	0.91	1.2E+00	5.2E+00	8E-07	2E-01		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW9C-0716 (Lower Gaspur; 94 to 104)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	6E-07	2E-01
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0.4	2.3E+00	1.5E+02	2E-07	3E-03		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	3.6	1.9E+03	1.6E+05	2E-09	2E-05		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	250	-	5.0E+01	No value	5E+00		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	22	-	2.2E+02	No value	1E-01		
	Trichloroethene (TCE)	0.7	1.2E+00	5.2E+00	6E-07	1E-01		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
MW56-0716 (Shallow Gaspur; 62 to 72)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	6E-05	1E+01
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0	1.9E+03	1.6E+05	-	-		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	260	-	5.0E+01	No value	5E+00		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	15	-	2.2E+02	No value	7E-02		
	Trichloroethene (TCE)	74	1.2E+00	5.2E+00	6E-05	1E+01		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
MW52-0716 (Shallow Gaspur; 66 to 76)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	6E-06	1E+00
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0	1.9E+03	1.6E+05	-	-		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	15	-	5.0E+01	No value	3E-01		
	Cyclohexane	0.84	-	1.0E+03	No value	8E-04		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	6.2	-	2.2E+02	No value	3E-02		
	Trichloroethene (TCE)	5.6	1.2E+00	5.2E+00	5E-06	1E+00		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
MW46-0716 (Shallow Gaspur; 57 to 67)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	5E-05	1E+01
	1,1-Dichloroethane	7.5	7.6E+00	3.6E+03	1E-06	2E-03		
	1,1-Dichloroethene	2.2	-	6.8E+01	No value	3E-02		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	3.5	1.9E+03	1.6E+05	2E-09	2E-05		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	460	-	5.0E+01	No value	9E+00		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	1.1	7.6E+00	3.1E+03	1E-07	4E-04		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	37	-	2.2E+02	No value	2E-01		
	Trichloroethene (TCE)	57	1.2E+00	5.2E+00	5E-05	1E+01		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
MW47-0716 (Intermediate Gaspur; 77 to 87)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	1E-05	1E+00
	1,1-Dichloroethane	6.1	7.6E+00	3.6E+03	8E-07	2E-03		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	6.2	1.9E+03	1.6E+05	3E-09	4E-05		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	3.2	-	1.7E+01	No value	2E-01		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	490	-	5.0E+01	No value	1E+01		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	30	-	2.2E+02	No value	1E-01		
	Trichloroethene (TCE)	5.4	1.2E+00	5.2E+00	5E-06	1E+00		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
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Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
MW48-0716 (Lower Gaspur; 98 to 108)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	1E-04	3E-01
	1,1-Dichloroethane	1.3	7.6E+00	3.6E+03	2E-07	4E-04		
	1,1-Dichloroethene	1.9	-	6.8E+01	No value	3E-02		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	15	2.3E+00	1.5E+02	7E-06	1E-01		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	13	1.9E+03	1.6E+05	7E-09	8E-05		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	12	-	2.2E+07	No value	5E-07		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	100	-	5.0E+01	No value	2E+00		
	Cyclohexane	0.88	-	1.0E+03	No value	9E-04		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	6.3	-	2.2E+02	No value	3E-02		
	Trichloroethene (TCE)	1.3	1.2E+00	5.2E+00	1E-06	2E-01		
	Vinyl Chloride	1.1	8.3E-03	8.8E+01	1E-04	1E-02		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW6A-0716 (Shallow Gaspur; 58 to 68)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	0E+00	0E+00
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0	1.9E+03	1.6E+05	-	-		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	0	-	5.0E+01	No value	-		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	0	-	2.2E+02	No value	-		
	Trichloroethene (TCE)	0	1.2E+00	5.2E+00	-	-		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW6B-0716 (Intermediate Gaspur; 76 to 81)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	2E-06	5E-01
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0	1.9E+03	1.6E+05	-	-		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	14	-	5.0E+01	No value	3E-01		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	3.7	-	2.2E+02	No value	2E-02		
	Trichloroethene (TCE)	2.7	1.2E+00	5.2E+00	2E-06	5E-01		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		
	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW6C-0716 (Lower Gaspur; 90 to 100)	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-	1E-04	4E-01
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0.31	2.3E+00	1.5E+02	1E-07	2E-03		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0	1.9E+03	1.6E+05	-	-		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	6.3	-	2.2E+07	No value	3E-07		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	17	-	5.0E+01	No value	3E-01		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	2.9	-	2.2E+02	No value	1E-02		
	Trichloroethene (TCE)	2	1.2E+00	5.2E+00	2E-06	4E-01		
	Vinyl Chloride	1.2	8.3E-03	8.8E+01	1E-04	1E-02		
	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-		
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW5A-0716 (Shallow Gaspur; 58 to 68)	1,1-Dichloroethene	0	-	6.8E+01	No value	-	1E-06	3E-01
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	1	1.9E+03	1.6E+05	5E-10	6E-06		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	210	-	5.0E+01	No value	4E+00		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	19	-	2.2E+02	No value	9E-02		
	Trichloroethene (TCE)	1.3	1.2E+00	5.2E+00	1E-06	2E-01		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW8-0716 (Exposition; 124 to 134)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	2E-06	3E-01
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0.78	2.3E+00	1.5E+02	3E-07	5E-03		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0	1.9E+03	1.6E+05	-	-		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	2.2	-	5.0E+01	No value	4E-02		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	0.31	-	2.2E+02	No value	1E-03		
	Trichloroethene (TCE)	1.3	1.2E+00	5.2E+00	1E-06	2E-01		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW5B-0716 (Intermediate Gaspur; 76 to 86)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	2E-03	1E+00
	1,1-Dichloroethane	6.5	7.6E+00	3.6E+03	9E-07	2E-03		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	30	1.9E+03	1.6E+05	2E-08	2E-04		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	2100	-	5.0E+01	No value	4E+01		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	79	-	2.2E+02	No value	4E-01		
	Trichloroethene (TCE)	3	1.2E+00	5.2E+00	3E-06	6E-01		
	Vinyl Chloride	20	8.3E-03	8.8E+01	2E-03	2E-01		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW5C-0716 (Lower Gaspur; 96 to 106)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	1E-06	4E-01
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	1.6	2.3E+00	1.5E+02	7E-07	1E-02		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	2.4	1.9E+03	1.6E+05	1E-09	2E-05		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	95	-	5.0E+01	No value	2E+00		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	11	-	2.2E+02	No value	5E-02		
	Trichloroethene (TCE)	1.6	1.2E+00	5.2E+00	1E-06	3E-01		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW13-0716 (Exposition; 128 to 138)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	1E-06	4E-01
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0	1.9E+03	1.6E+05	-	-		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	11	-	2.2E+07	No value	5E-07		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	190	-	5.0E+01	No value	4E+00		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	29	-	2.2E+02	No value	1E-01		
	Trichloroethene (TCE)	1.5	1.2E+00	5.2E+00	1E-06	3E-01		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW4A-0716 (Shallow Gaspur; 58 to 68)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	2E-06	5E-03
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0	1.9E+03	1.6E+05	-	-		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	0.16	-	5.0E+01	No value	3E-03		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	0	-	2.2E+02	No value	-		
	Trichloroethene (TCE)	0	1.2E+00	5.2E+00	-	-		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW4B-0716 (Intermediate Gaspur; 74 to 84)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	7E-06	2E+00
	1,1-Dichloroethane	16	7.6E+00	3.6E+03	2E-06	4E-03		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	62	1.9E+03	1.6E+05	3E-08	4E-04		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	4200	-	5.0E+01	No value	8E+01		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	210	-	2.2E+02	No value	1E+00		
	Trichloroethene (TCE)	6.6	1.2E+00	5.2E+00	6E-06	1E+00		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW4C-0716 (Lower Gaspur; 92 to 102)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	5E-03	2E+00
	1,1-Dichloroethane	5.9	7.6E+00	3.6E+03	8E-07	2E-03		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	2	2.3E+00	1.5E+02	9E-07	1E-02		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	7.7	1.9E+03	1.6E+05	4E-09	5E-05		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	1.3	-	1.7E+01	No value	8E-02		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	870	-	5.0E+01	No value	2E+01		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	1.3	-	1.2E+03	No value	1E-03		
	trans-1,2-Dichloroethene	120	-	2.2E+02	No value	6E-01		
	Trichloroethene (TCE)	2.7	1.2E+00	5.2E+00	2E-06	5E-01		
	Vinyl Chloride	45	8.3E-03	8.8E+01	5E-03	5E-01		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW12A-0716 (Shallow Gaspur; 70 to 80)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	5E-07	1E-01
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0	1.9E+03	1.6E+05	-	-		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	1	-	5.0E+01	No value	2E-02		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0.67	4.6E+02	1.3E+05	1E-09	5E-06		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	0.2	-	2.2E+02	No value	9E-04		
	Trichloroethene (TCE)	0.63	1.2E+00	5.2E+00	5E-07	1E-01		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW12B-0716 (Intermediate Gaspur; 94 to 99)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	0E+00	0E+00
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0.73	1.9E+03	1.6E+05	4E-10	5E-06		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	0.77	-	5.0E+01	No value	2E-02		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	0	-	2.2E+02	No value	-		
	Trichloroethene (TCE)	0	1.2E+00	5.2E+00	-	-		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW12C-0716 (Lower Gaspur; 110 to 115)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	3E-09	3E-05
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0	1.9E+03	1.6E+05	-	-		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	0.66	-	5.0E+01	No value	1E-02		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	0	-	2.2E+02	No value	-		
	Trichloroethene (TCE)	0	1.2E+00	5.2E+00	-	-		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW9A-0916 (Shallow Gaspur; 55 to 60)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	5E-10	6E-06
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	5.5	1.9E+03	1.6E+05	3E-09	3E-05		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	0.3	-	5.0E+01	No value	6E-03		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	0	-	2.2E+02	No value	-		
	Trichloroethene (TCE)	0	1.2E+00	5.2E+00	-	-		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW9B-0916 (Intermediate Gaspur; 73 to 78)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	1E-06	3E-01
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	1	1.9E+03	1.6E+05	5E-10	6E-06		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	18	-	5.0E+01	No value	4E-01		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	1.4	-	2.2E+02	No value	6E-03		
	Trichloroethene (TCE)	1.4	1.2E+00	5.2E+00	1E-06	3E-01		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW9C-0916 (Lower Gaspur; 94 to 104)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	9E-05	3E-01
	1,1-Dichloroethane	0.88	7.6E+00	3.6E+03	1E-07	2E-04		
	1,1-Dichloroethene	0.82	-	6.8E+01	No value	1E-02		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	2.1	1.9E+03	1.6E+05	1E-09	1E-05		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	500	-	5.0E+01	No value	1E+01		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	35	-	2.2E+02	No value	2E-01		
	Trichloroethene (TCE)	0.79	1.2E+00	5.2E+00	7E-07	2E-01		
	Vinyl Chloride	0.71	8.3E-03	8.8E+01	9E-05	8E-03		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW10-0916 (Exposition; 128 to 138)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	8E-05	4E-01
	1,1-Dichloroethane	0.32	7.6E+00	3.6E+03	4E-08	9E-05		
	1,1-Dichloroethene	1.2	-	6.8E+01	No value	2E-02		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	1.1	1.9E+03	1.6E+05	6E-10	7E-06		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0.66	-	2.6E+02	No value	3E-03		
	cis-1,2-Dichloroethylene	480	-	5.0E+01	No value	1E+01		
	Cyclohexane	0.21	-	1.0E+03	No value	2E-04		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	19	-	2.2E+02	No value	9E-02		
	Trichloroethene (TCE)	1.4	1.2E+00	5.2E+00	1E-06	3E-01		
	Vinyl Chloride	0.67	8.3E-03	8.8E+01	8E-05	8E-03		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW13-0916 (Exposition; 128 to 138)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	4E-05	5E-01
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0.47	-	6.8E+01	No value	7E-03		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0.22	1.9E+03	1.6E+05	1E-10	1E-06		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	10	-	2.2E+07	No value	4E-07		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	250	-	5.0E+01	No value	5E+00		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	32	-	2.2E+02	No value	1E-01		
	Trichloroethene (TCE)	2	1.2E+00	5.2E+00	2E-06	4E-01		
	Vinyl Chloride	0.36	8.3E-03	8.8E+01	4E-05	4E-03		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW12A-0916 (Shallow Gaspur; 70 to 80)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	8E-07	2E-01
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0.72	1.9E+03	1.6E+05	4E-10	5E-06		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	5.3	-	2.2E+07	No value	2E-07		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	1.5	-	5.0E+01	No value	3E-02		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0.56	4.6E+02	1.3E+05	1E-09	4E-06		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	0.35	-	2.2E+02	No value	2E-03		
	Trichloroethene (TCE)	0.97	1.2E+00	5.2E+00	8E-07	2E-01		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW12B-0916 (Intermediate Gaspur; 94 to 99)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	1E-06	3E-01
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	1	1.9E+03	1.6E+05	5E-10	6E-06		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	1.7	-	5.0E+01	No value	3E-02		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	1.3	4.6E+02	1.3E+05	3E-09	1E-05		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	0.42	-	2.2E+02	No value	2E-03		
	Trichloroethene (TCE)	1.6	1.2E+00	5.2E+00	1E-06	3E-01		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW12C-0916 (Lower Gaspur; 110 to 115)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	1E-06	3E-01
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0.48	1.9E+03	1.6E+05	3E-10	3E-06		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	9	-	2.2E+07	No value	4E-07		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	8	-	5.0E+01	No value	2E-01		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0.51	4.6E+02	1.3E+05	1E-09	4E-06		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	0.67	-	2.2E+02	No value	3E-03		
	Trichloroethene (TCE)	1.5	1.2E+00	5.2E+00	1E-06	3E-01		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW11A-0916 (Shallow Gaspur; 74 to 79)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	0E+00	3E-07
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0	1.9E+03	1.6E+05	-	-		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	0	-	5.0E+01	No value	-		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	0	-	2.2E+02	No value	-		
	Trichloroethene (TCE)	0	1.2E+00	5.2E+00	-	-		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW11B-0916 (Intermediate Gaspur; 96 to 106)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	1E-05	3E+00
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0	-	6.8E+01	No value	-		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0	1.9E+03	1.6E+05	-	-		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	7.1	-	2.2E+07	No value	3E-07		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	40	-	5.0E+01	No value	8E-01		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	3.7	-	2.2E+02	No value	2E-02		
	Trichloroethene (TCE)	15	1.2E+00	5.2E+00	1E-05	3E+00		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

Table 6-10c
Risk Characterization (Vapor Intrusion), Residential Receptor
Southern Avenue Industrial Area Superfund Site
South Gate, California

Sample (Aquifer; Screened Interval in ft bgs)	Groundwater COPC	Groundwater Concentration (mg/L)	Groundwater RBC (from Table 6-5) (mg/L)		ILCR (unitless)	HQ (unitless)	Cumulative Risk Values	
			Cancer	Noncancer			ILCR (unitless)	HI (unitless)
SAIA-MW11C-0916 (Lower Gaspur; 114.5 to 119.5)	1,1,2-Trichloroethane	0	5.3E+00	6.2E+00	-	-	9E-06	2E+00
	1,1-Dichloroethane	0	7.6E+00	3.6E+03	-	-		
	1,1-Dichloroethene	0.27	-	6.8E+01	No value	4E-03		
	1,2,3-Trichlorobenzene	0	-	6.5E+01	No value	-		
	1,2,4-Trichlorobenzene	0	6.7E+00	3.6E+01	-	-		
	1,2-Dichloroethane	0	2.3E+00	1.5E+02	-	-		
	1,2-Dichloropropane	0	2.4E+00	3.6E+01	-	-		
	1,3-Dichlorobenzene	0	-	-	No value	-		
	1,4-Dichlorobenzene	0	2.6E+00	8.4E+03	-	-		
	1,4-Dioxane (p-Dioxane)	0	1.9E+03	1.6E+05	-	-		
	1-Pentene	0	-	-	No value	-		
	4-Methyl-2-pentanone (MIBK)	0	-	5.5E+05	No value	-		
	Acetone	0	-	2.2E+07	No value	-		
	Benzene	0	4.3E-01	1.4E+01	-	-		
	bis(2-Ethylhexyl) Phthalate	0	1.1E+05	-	-	-		
	Bromomethane	0	-	1.7E+01	No value	-		
	Carbazole	0	-	-	No value	-		
	Carbon Disulfide	0	-	1.2E+03	No value	-		
	Chlorobenzene	0	-	4.1E+02	No value	-		
	Chloroethane	0	-	-	No value	-		
	Chloroform	0	8.0E-01	6.7E+02	-	-		
	Chloromethane	0	-	2.6E+02	No value	-		
	cis-1,2-Dichloroethylene	55	-	5.0E+01	No value	1E+00		
	Cyclohexane	0	-	1.0E+03	No value	-		
	Ethylbenzene	0	3.4E+00	3.1E+03	-	-		
	Isopropylbenzene (Cumene)	0	-	8.9E+02	No value	-		
	m,p-Xylene	0	-	3.7E+02	No value	-		
	Methyl Butane	0	-	-	No value	-		
	Methylcyclobutane	0	-	-	No value	-		
	Methylcyclohexane	0	-	-	No value	-		
	Methylene Chloride	0	7.6E+00	3.1E+03	-	-		
	o-Xylene	0	-	4.7E+02	No value	-		
	Styrene	0	-	8.3E+03	No value	-		
	tert-Butyl Ethyl Ether	0	-	-	No value	-		
	tert-Butyl Methyl Ether (MTBE)	0	4.6E+02	1.3E+05	-	-		
	Tetrachloroethene (PCE)	0	6.4E-01	5.8E+01	-	-		
	Toluene	0	-	1.2E+03	No value	-		
	trans-1,2-Dichloroethene	7.2	-	2.2E+02	No value	3E-02		
	Trichloroethene (TCE)	11	1.2E+00	5.2E+00	9E-06	2E+00		
	Vinyl Chloride	0	8.3E-03	8.8E+01	-	-		

FIGURES

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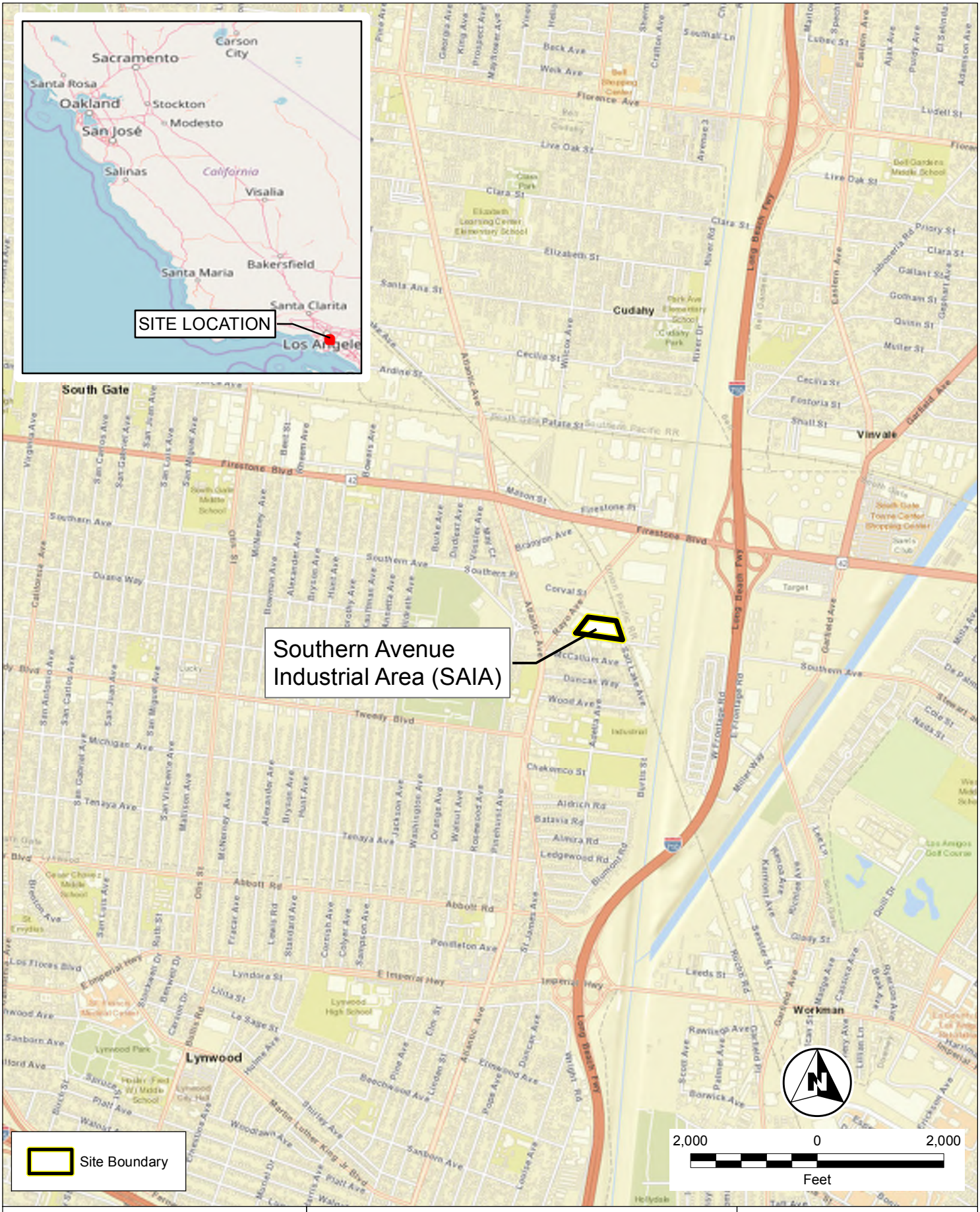

Southern Avenue Industrial Area Superfund Site
Remedial Investigation Report
South Gate, California
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Figure 1-1
Site Location Map

G:\ArcGIS\EPA\SAIA\PROJECTS\RI_Report_2018\Site_Loc_SAIA.mxd 9/26/2018 [10:52 AM] EANDERSON, Gilbane

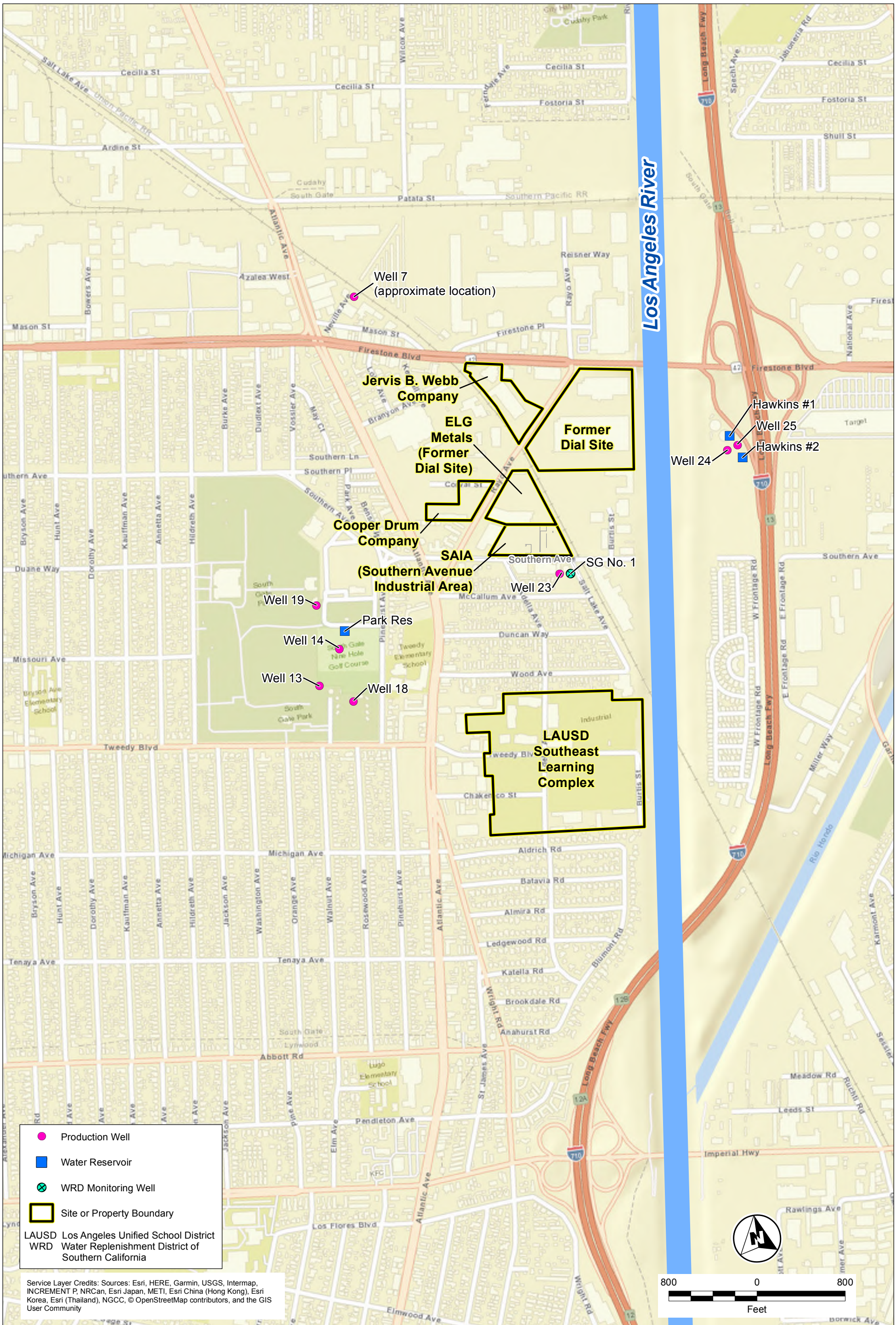

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Figure 1-2
Production Wells and
Other Groundwater Sites

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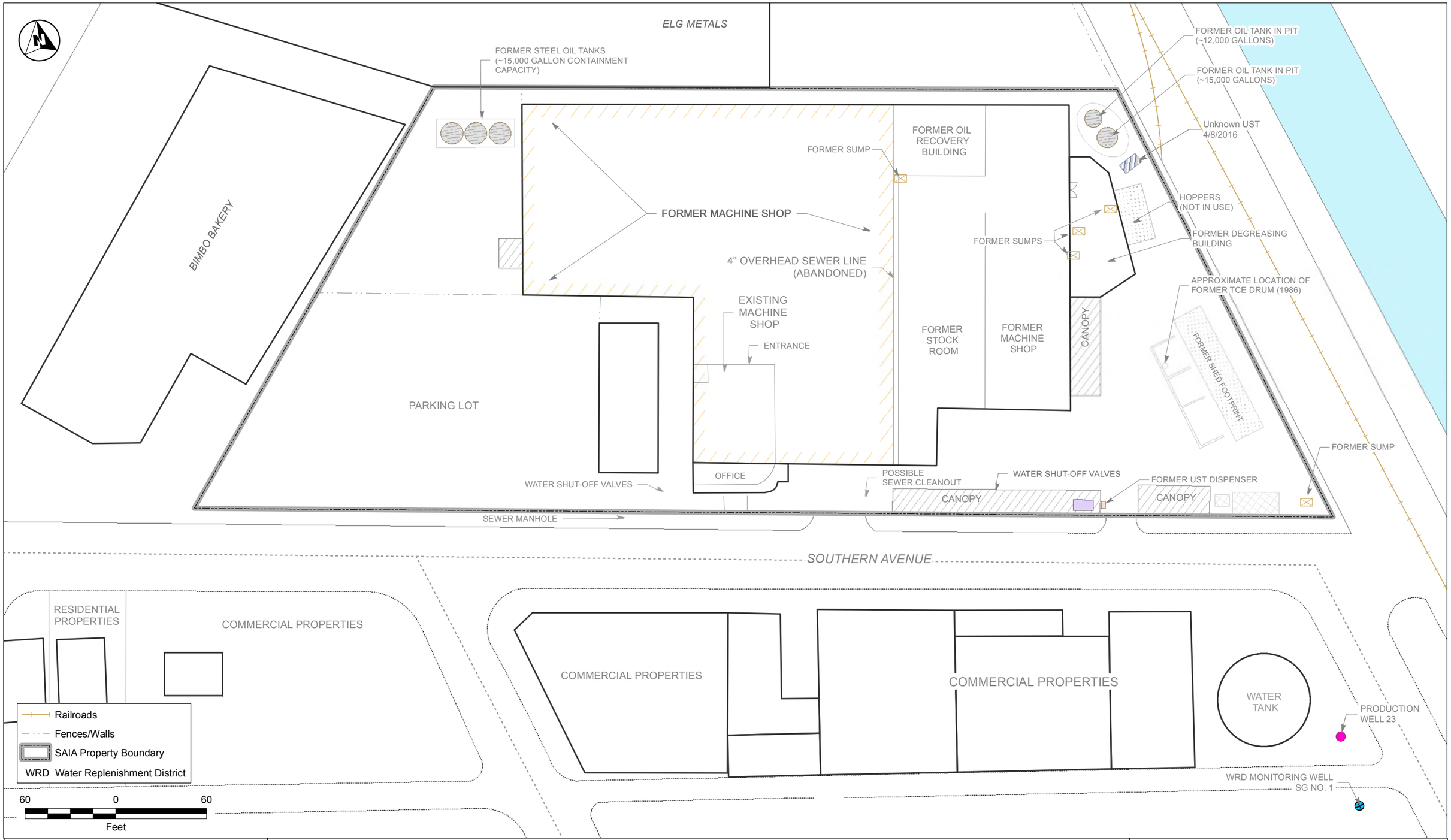

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Figure 1-3
Former SAIA Building and
Other Property Features

G:\ArcGIS\EPA\SAIA\PROJECTS\RI_Report_2018\SAIA_Property_Features.mxd 3/14/2019 [12:15 PM] EANDERSON, Gilbane

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Figure 1-4
Groundwater Monitoring Well and CPT Boring Locations

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ELG Metals

SAIA

RAYO AVE

SOUTHERN AVE

ADELLA AVE.

SALT LAKE AVE

McCALLUM AVE

DUNCAN WAY

WOOD AVE

SAIA-SB/SG18
SAIA-SB/SG37
SAIA-SB/SG38
SAIA-SB/SG39
SAIA-SB/SG29
SAIA-SB/SG33
SAIA-SB/SG11
SAIA-SB/SG28
SAIA-SB/SG26
SAIA-SB/SG24
SAIA-SB/SG47
SAIA-SB/SG36
SAIA-SB/SG46
SAIA-SB/SG19
SAIA-SB/SG12
SAIA-SB12
SAIA-SB/SG03
SAIA-SB/SG10
SAIA-SB/SG34
SAIA-SB/SG02
SAIA-SB/SG09
SAIA-SB/SG20
SAIA-SB/SG45
SAIA-SB/SG08
SAIA-SB/SG04
SAIA-SB/SG07
SAIA-SB/SG35
SAIA-SB/SG32
SAIA-SB/SG27
SAIA-SB/SG21
SAIA-SB/SG31
SAIA-SB/SG01
SAIA-SB/SG06
SAIA-SB/SG44
SAIA-SB/SG30
SAIA-SB/SG05
SAIA-SB/SG22
SAIA-SB/SG25
SAIA-SB/SG23
SAIA-SB/SG13
SAIA-SB/SG14
SAIA-SB/SG40
SAIA-SB/SG15
SAIA-SB/SG16
SAIA-SB/SG41
SAIA-SB/SG17
SAIA-SB/SG42
SAIA-SB/SG43

Three Buildings Sampled

Three Buildings Sampled

Soil Gas/Soil Boring Sampling Locations
Area sampled for Indoor Air, Outdoor Air, and Crawlspace
Site Boundary
Railroad
Fences/Walls

120 0 120
Feet

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Figure 2-1
Soil Gas, Indoor Air, Outdoor Air, and Crawlspace Sampling Locations

G:\ArcGIS\EPA\SAIA\PROJECTS\RI_Report_2018\Indoor_Outdoor_Sample_Locs_2018.mxd 3/29/2019 [12:51 PM] EANDERSON, ITSI

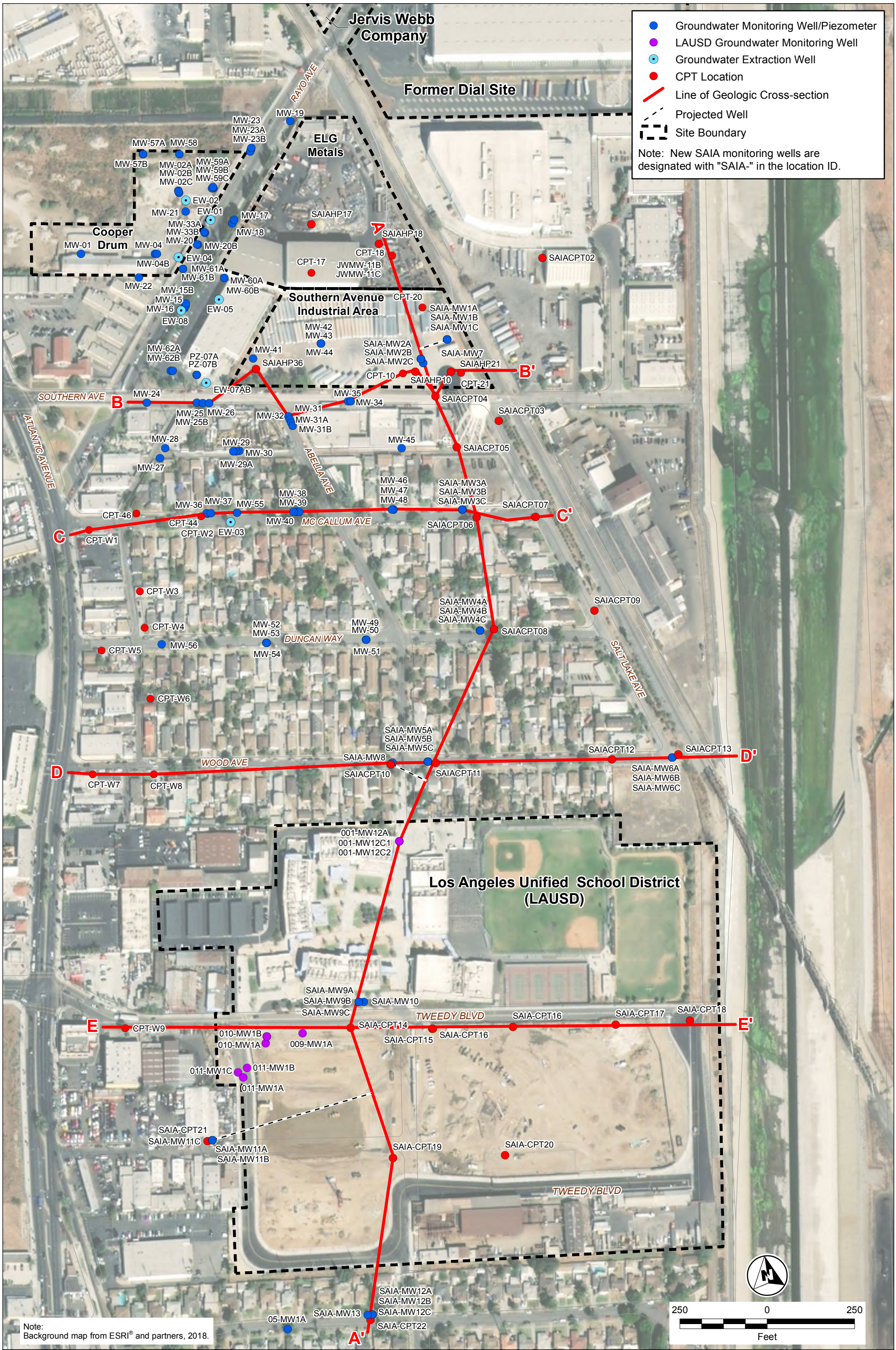

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Figure 3-1
Lines of Geologic Cross-Sections

G:\ArcGIS\EPA\SAIA\PROJECTS\RI_Report_2018\X-Section_Locs.mxd 10/5/2018 [12:39 PM] EANDERSON, Gilbane

NORTH
A

SOUTH
A'

SAIA Site
Southern Ave.
McCallum Ave.
Duncan Ave.
Wood Ave.
LAUSD
Tweedy Blvd.
Chakemco St.
Aldrich Road

JWMW-11A/B/C
JWMW-12
CPT18
CPT20
SAIA-MW1A/B/C
SAIA-MW2A/B/C
SAIA-MW7
SAIA-CPT04
SAIA-CPT05
SAIA-MW3A/B/C
SAIA-CPT06
SAIA-CPT08
SAIA-MW4A/B/C
SAIA-CPT11
SAIA-MW5A/B/C
SAIA-MW10
SAIA-MW9A/B/C
SAIA-CPT14
SAIA-MW11A/B/C
SAIA-CPT19
SAIA-MW12A/B/C
SAIA-MW13
SAIA-CPT22

120
100
80
60
40
20
0
-20
-40

Bellflower Aquiclude
Bellflower Aquiclude
Gaspur Aquifer
Gaspur Aquifer
Exposition Aquifer

72/21
3,900/1,500
1000
1,300/120
1.1/0.29
6
0.16/<0.5
210/1.3
1.2/<0.5
14/0.8
10/0.6
4,600/3,500
4,200/6.6
2,100/3
52/0.91
<0.5/<0.5
1/0.63
1,600/3.6
1000
100
5
350/4.4
270/4.7
49/5.7
870/2.7
95/1.6
310/0.7
47/16
0.77/<0.5
59/5.9
73/19
36/11
0.66/<0.5
12/2.1
220/0.93J
190/1.5

15/2.1 cis-1,2-DCE/TCE concentrations in micrograms per liter (values for wells are from July and November 2016 events.)
Groundwater level in shallow aquifer, July 2016
Aquifer Boundary
100 cis-1,2-DCE isoconcentration contour
100 TCE isoconcentration contour
Groundwater Monitoring Well Result
CPT Grab Groundwater Result

NOTES:
Monitoring well locations are projected to line of section.

Gravelly sand to sand
Sand to silty sand
Silty sand, sandy silt, clayey silt
Clayey silt, clay, and clay

Vertical Scale (ft): 0, 10, 20
Horizontal Scale (ft): 0, 300

P:\EPAR9\0064 TO 063-RICO-09\WS, So. Ave Indstl Area\13.0 Graphics\SAIA_X-Section_AA_2018.ai 10/02/2018

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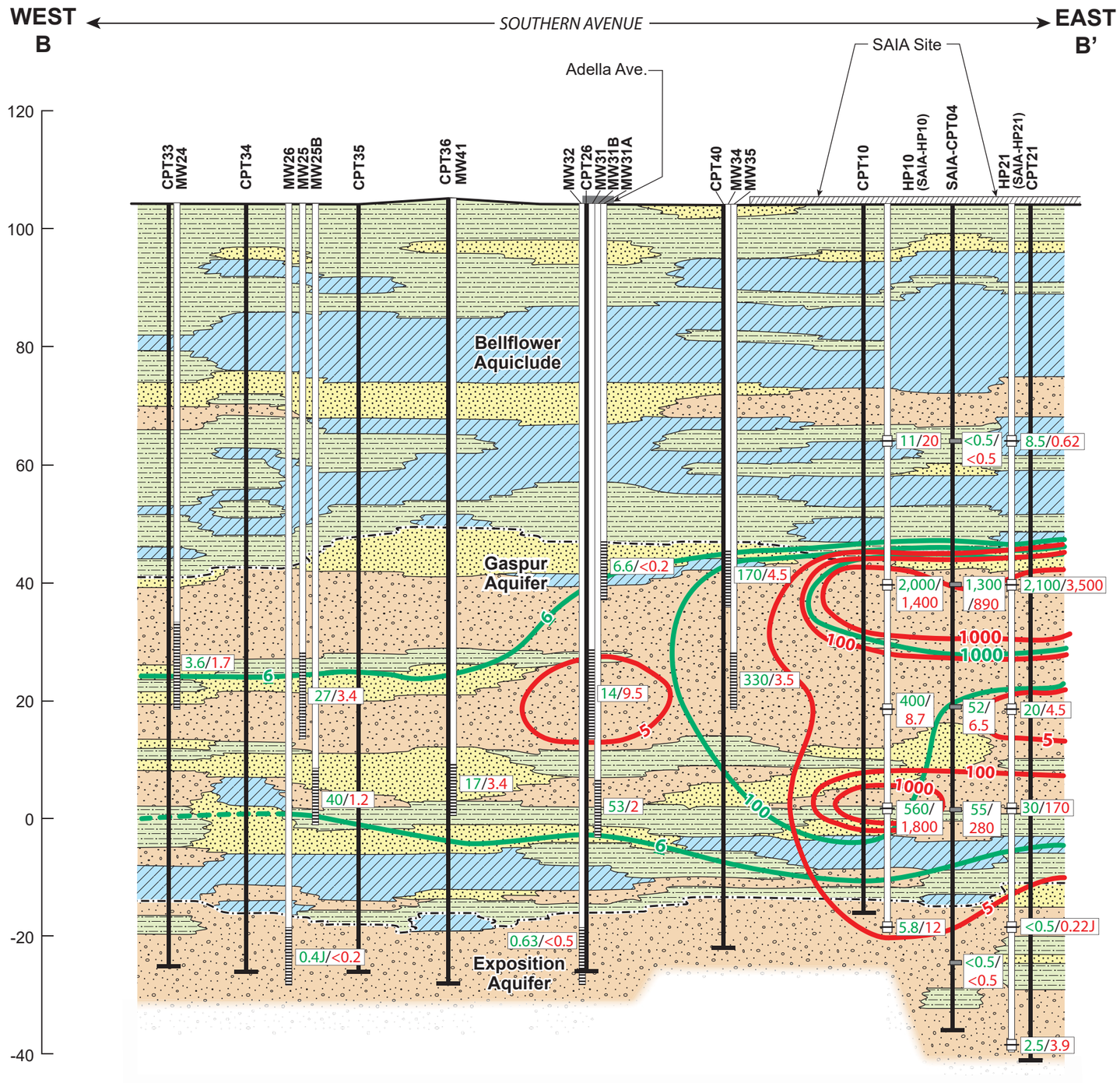
U.S. Environmental Protection Agency
South Gate, California

Figure 3-2
Hydrogeologic Cross-Section A-A'



LEGEND

- Gravelly sand to sand
- Sand to silty sand
- Silty sand, sandy silt, clayey silt
- Clayey silt, silty clay, and clay
- 8.5/0.62 — cis-1,2-DCE/TCE concentrations in micrograms per liter (values for wells are from June/August 2016 event; values for CPTs are from June 2015)
- 100 — cis-1,2-DCE isoconcentration contour
- 100 — TCE isoconcentration contour
- Aquifer Boundary

NOTES:

Monitoring well locations are projected to line of section.

Groundwater flow direction is not shown because it is roughly perpendicular to line of section.

0 50 100 150
Horizontal Scale (ft)

0 10 20
Vertical Scale (ft)

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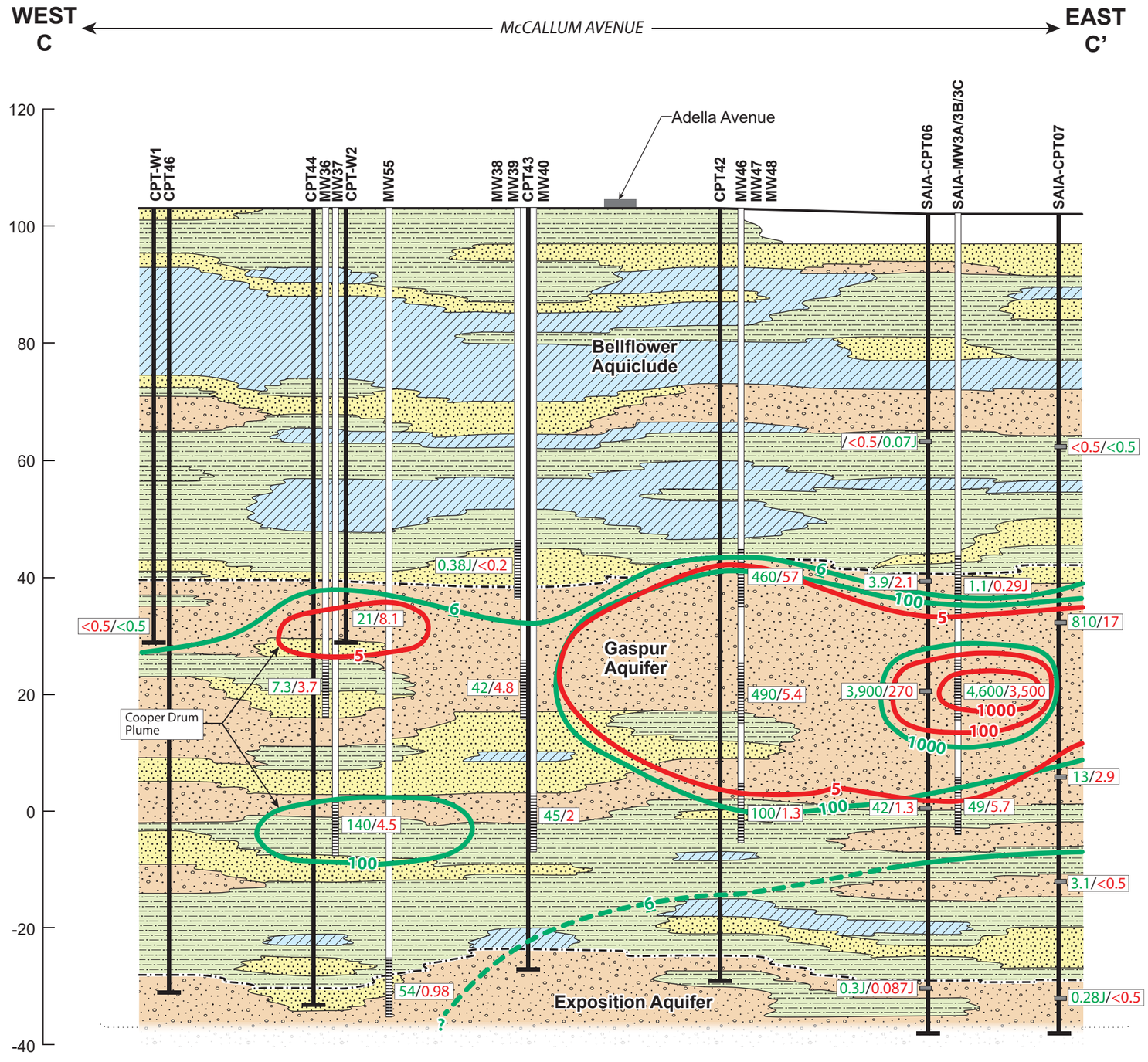
Figure 3-3
Hydrogeologic Cross-Section B-B'



LEGEND

- Gravelly sand to sand
- Sand to silty sand
- Silty sand, sandy silt, clayey silt
- Clayey silt, silty clay, and clay
- 810/17 — cis-1,2-DCE/TCE concentrations in micrograms per liter (values for wells are from June 2016 event; values for CPTs are from June 2015)
- 100 — cis-1,2-DCE isoconcentration contour
- 100 — TCE isoconcentration contour
- Aquifer Boundary

NOTES:

Monitoring well locations are projected to line of section.

Groundwater flow direction is not shown because it is roughly perpendicular to line of section.

0 50 100 150
Horizontal Scale (ft)

0 10 20
Vertical Scale (ft)

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Figure 3-4
Hydrogeologic Cross-Section C-C'

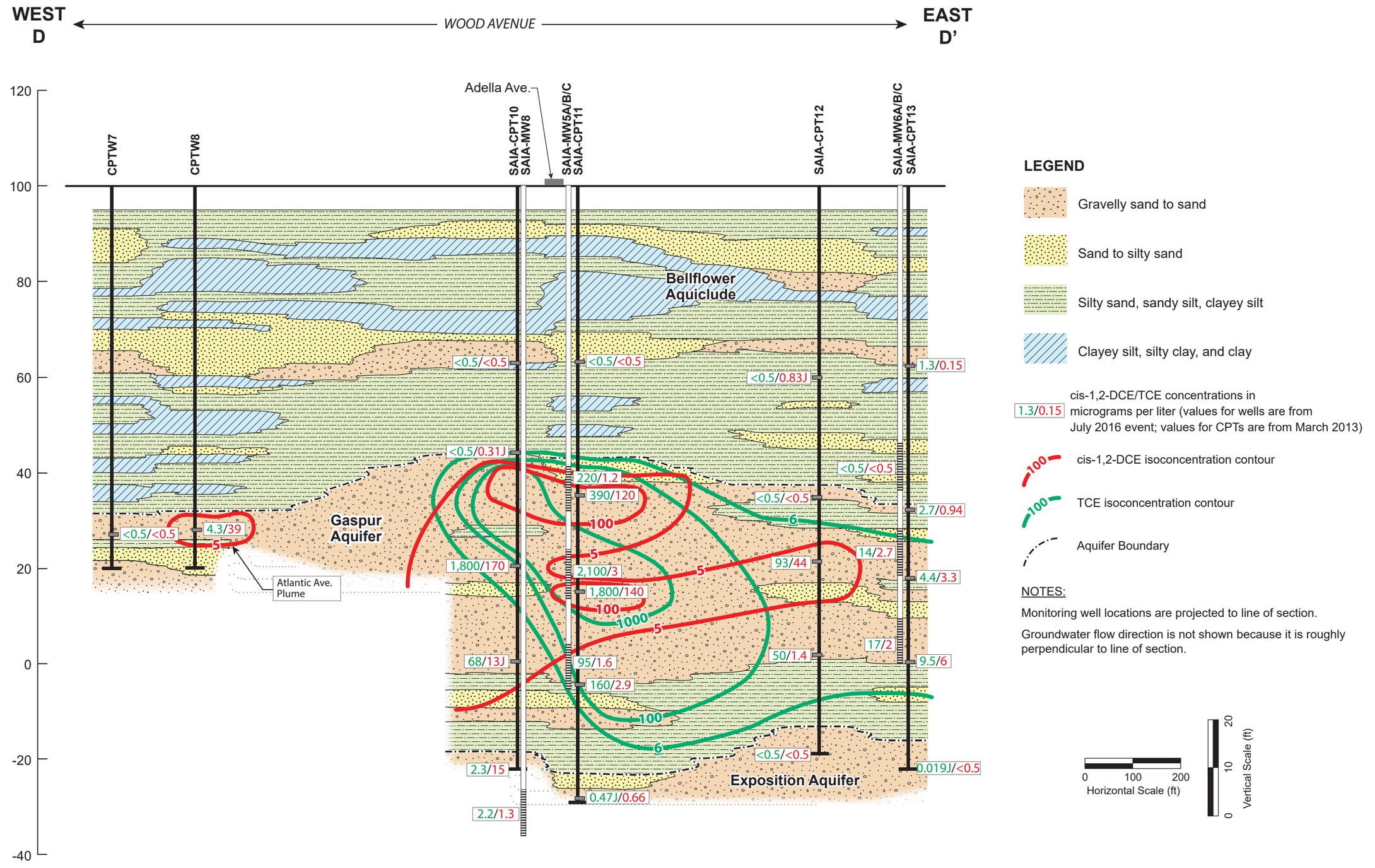

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Figure 3-5
Hydrogeologic Cross-Section D-D'

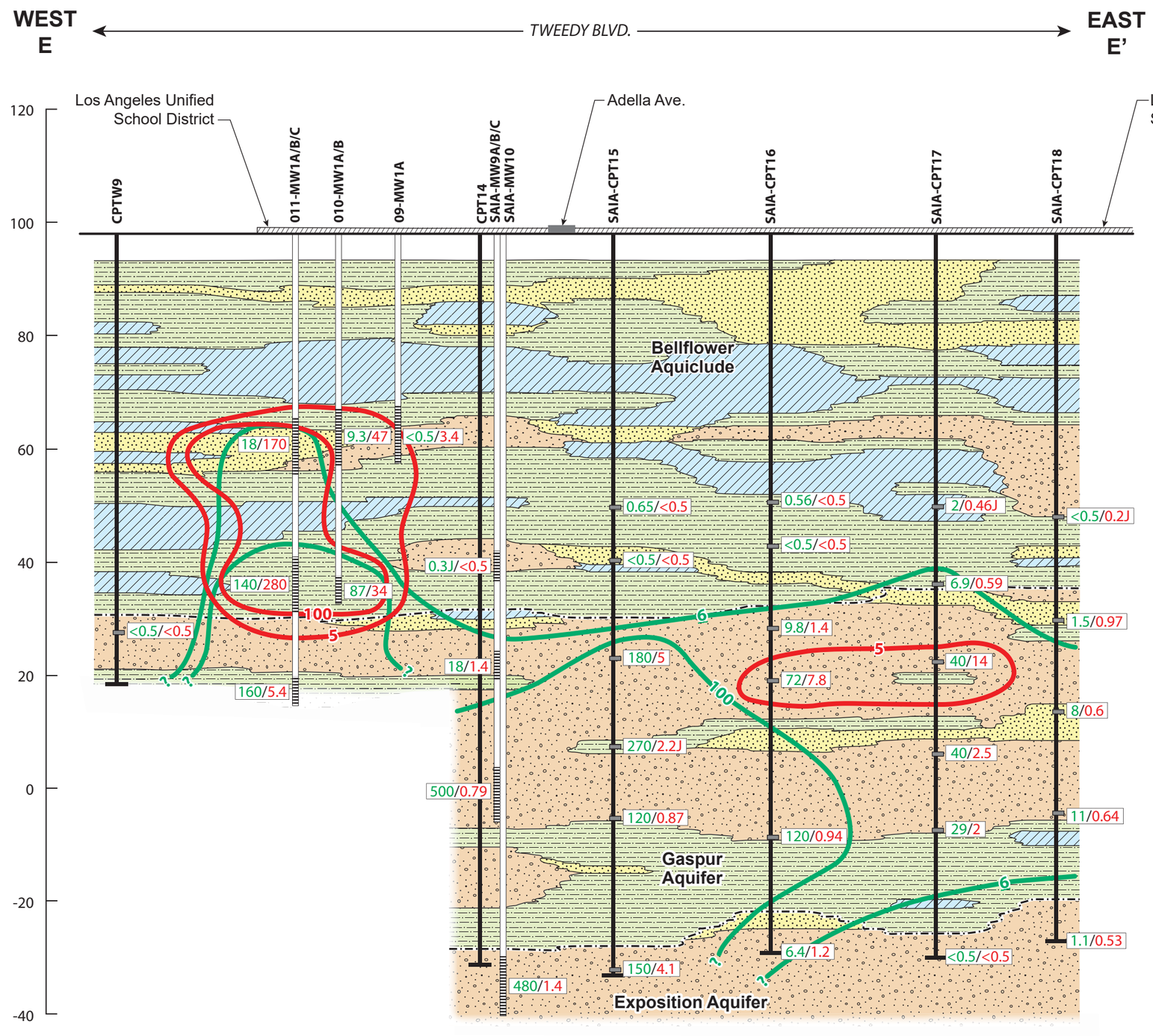

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Figure 3-6
Hydrogeologic Cross-Section E-E'

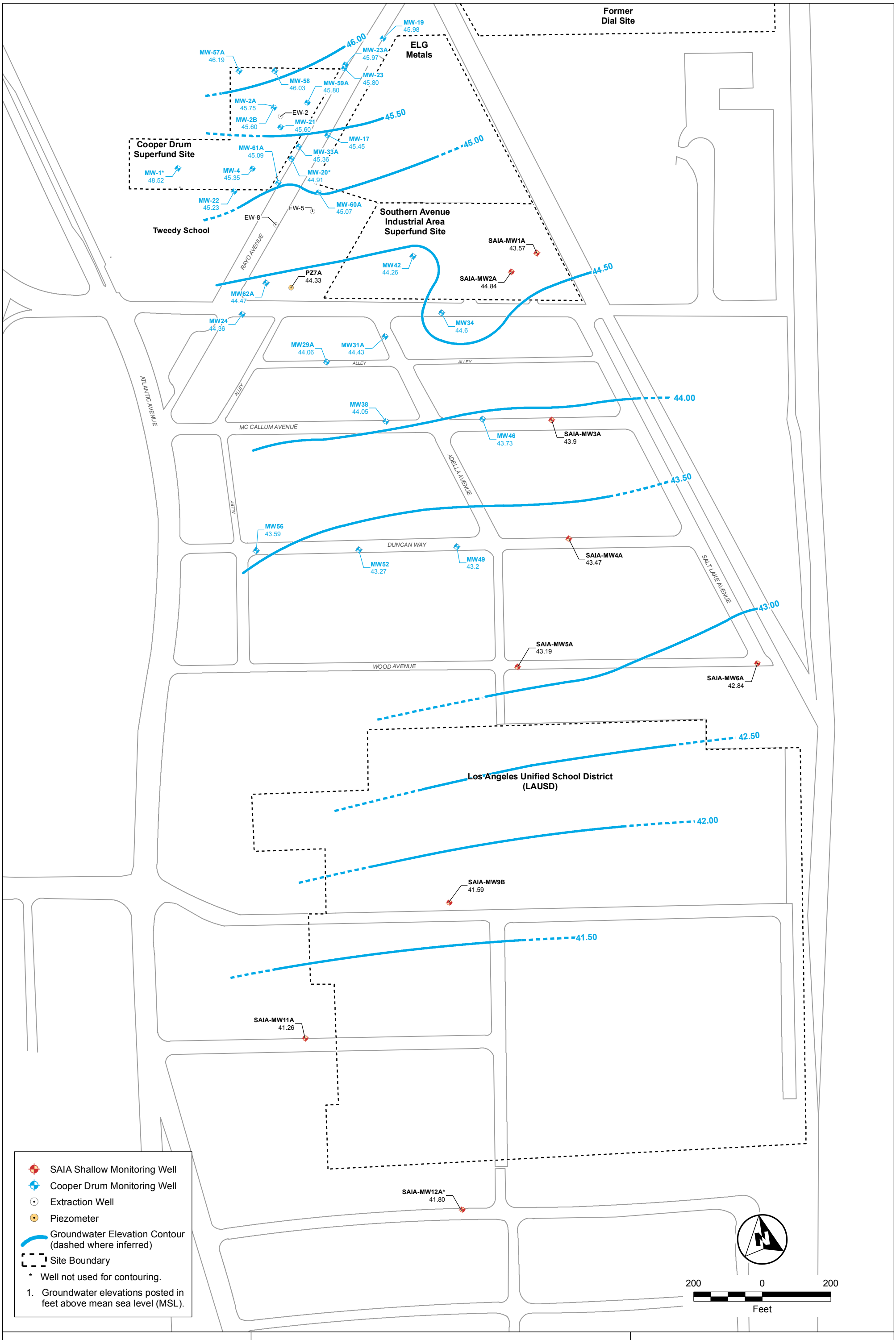

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Figure 3-7
Groundwater Elevation and Potentiometric Map
Shallow Gaspur Aquifer
June/July 2016

G:\ArcGIS\EPA\SAIA\PROJECTS\RI_Report_2018\GW_SAIA_Contours_Shallow_Gaspur_6_7_2016.mxd 3/20/2019 [15:35 PM] EANDERSON, Gilbane

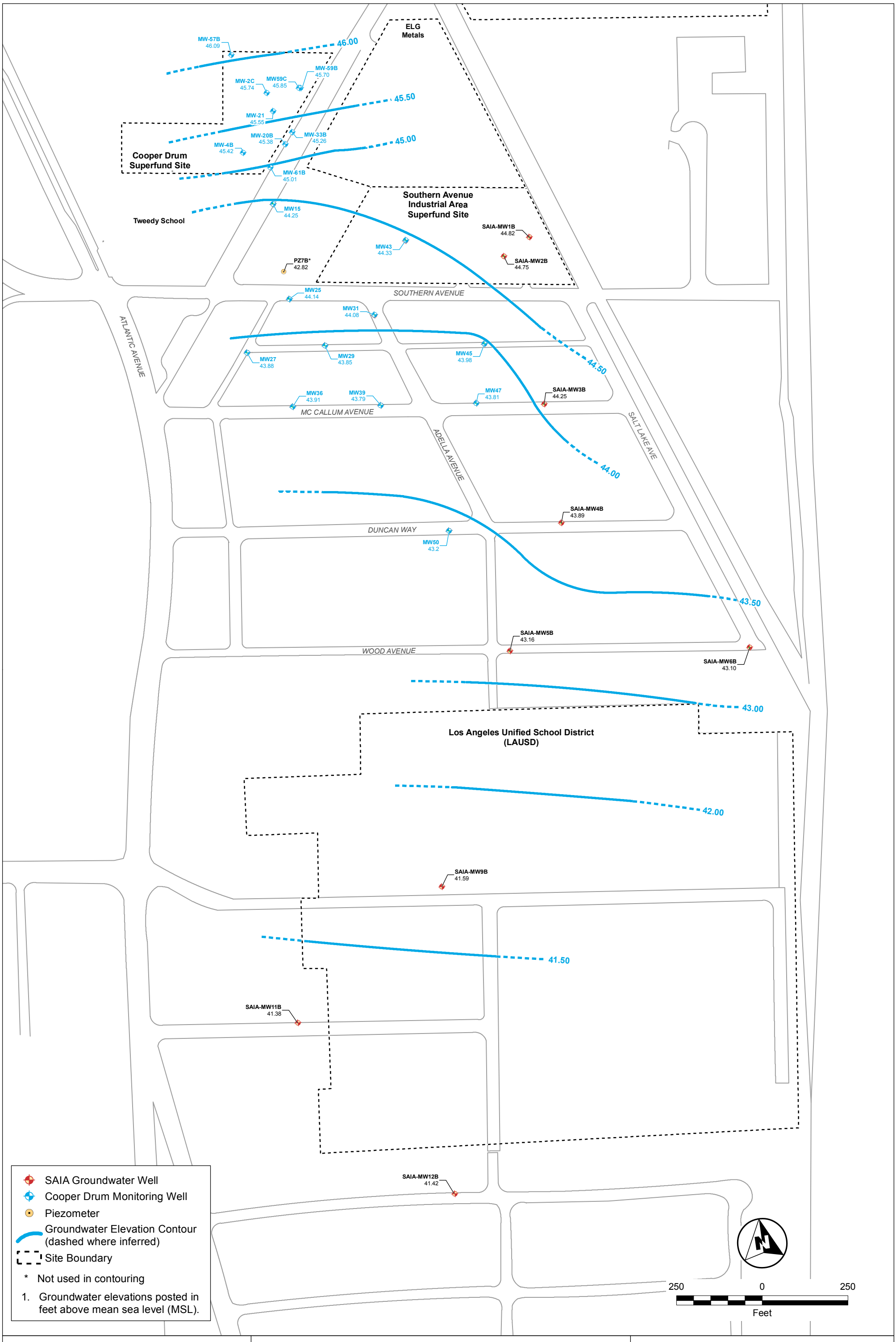

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Figure 3-8
Groundwater Elevation and Potentiometric Map
Intermediate Gaspur Aquifer
June/July 2016

G:\ArcGIS\EPA\SAIA\PROJECTS\RI_Report_2018\GW_SAIA_Contours_Intermediate_Gaspur_6_7_2016.mxd 3/20/2019 [15:35 PM] EANDERSON, Gilbane

ELG Metals

Cooper Drum Superfund Site

Tweedy School

Southern Avenue Industrial Area Superfund Site

45.00

MW15B 45.12

MW-60B 44.86

MW62B 44.40

MW41 44.03

MW44 43.97

SAIA-MW1C 44.71

SAIA-MW2C 44.83

44.50

SOUTHERN AVENUE

MW25B 43.92

MW35 44.00

MW28 43.68

MW30 43.09

MW31B 43.65

ALLEY

ATLANTIC AVENUE

44.00

MW37 43.59

MW40 43.61

MW48 43.73

SAIA-MW3C 43.47

MC CALLUM AVENUE

ADELLA AVENUE

MW53 43.23

MW54 42.66

SAIA-MW4C 43.84

DUNCAN WAY

MW51 43.16

43.50

SAIA-MW5C 43.06

WOOD AVENUE

SAIA-MW6C 43.08

43.00

Los Angeles Unified School District (LAUSD)

SAIA-MW9C 41.64

SAIA-MW11C 39.05

SAIA-MW12C 40.26

- SAIA Lower Gaspur Monitoring Well
- Cooper Drum Monitoring Well
- Groundwater Elevation Contour (dashed where inferred)
- Site Boundary

1. Groundwater elevations posted in feet above mean sea level (MSL).

200 0 200

Feet

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Figure 3-9
Groundwater Elevation and Potentiometric Map
Lower Gaspur Aquifer
June/July 2016

G:\ArcGIS\EPA\SAIA\PROJECTS\RI_Report_2018\GW_SAIA_Contours_Lower_Gaspur_6_7_2016.mxd 3/20/2019 [15:35 PM] EANDERSON, Gilbane

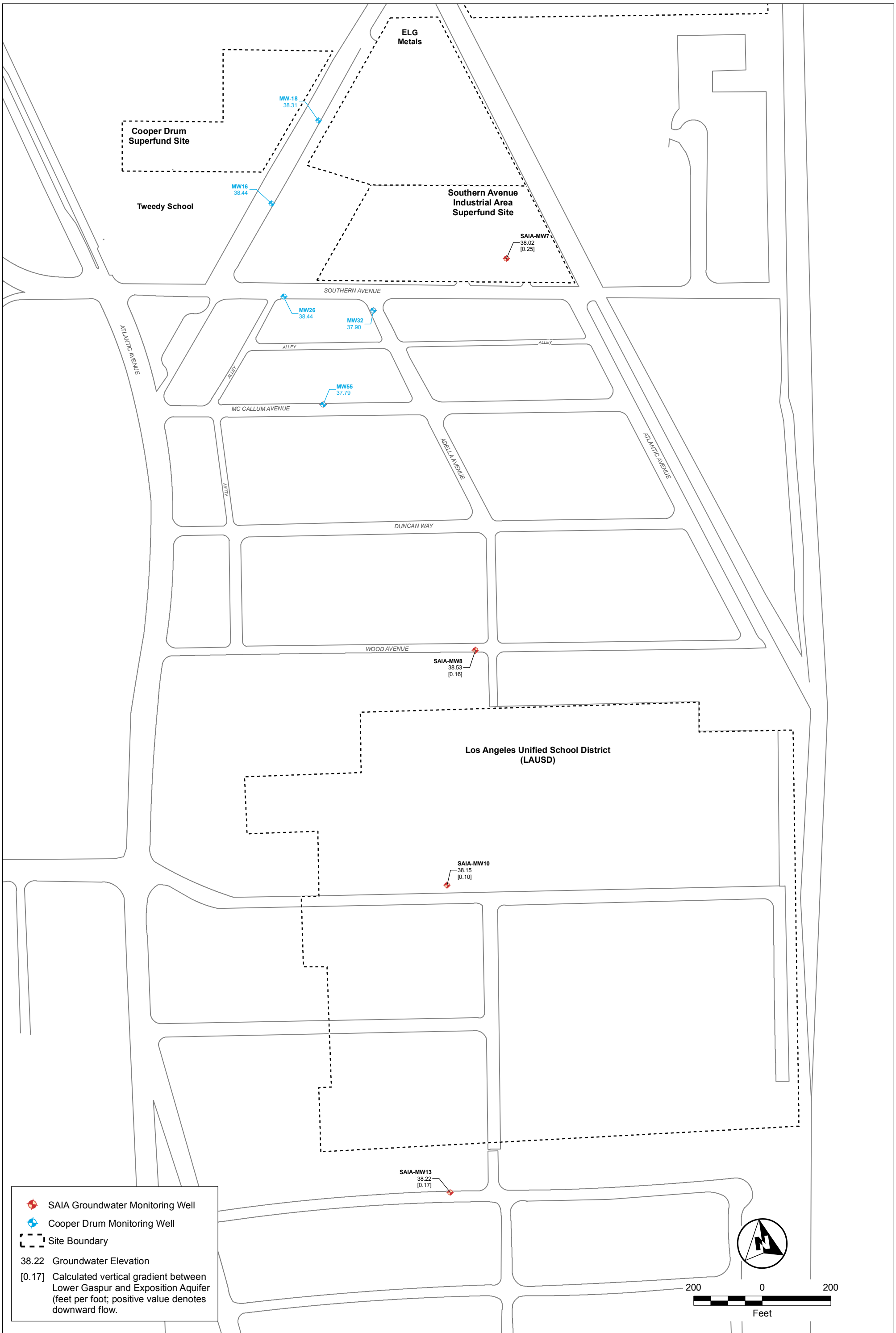

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Figure 3-10
Groundwater Elevation Map
Exposition Aquifer
July 2016

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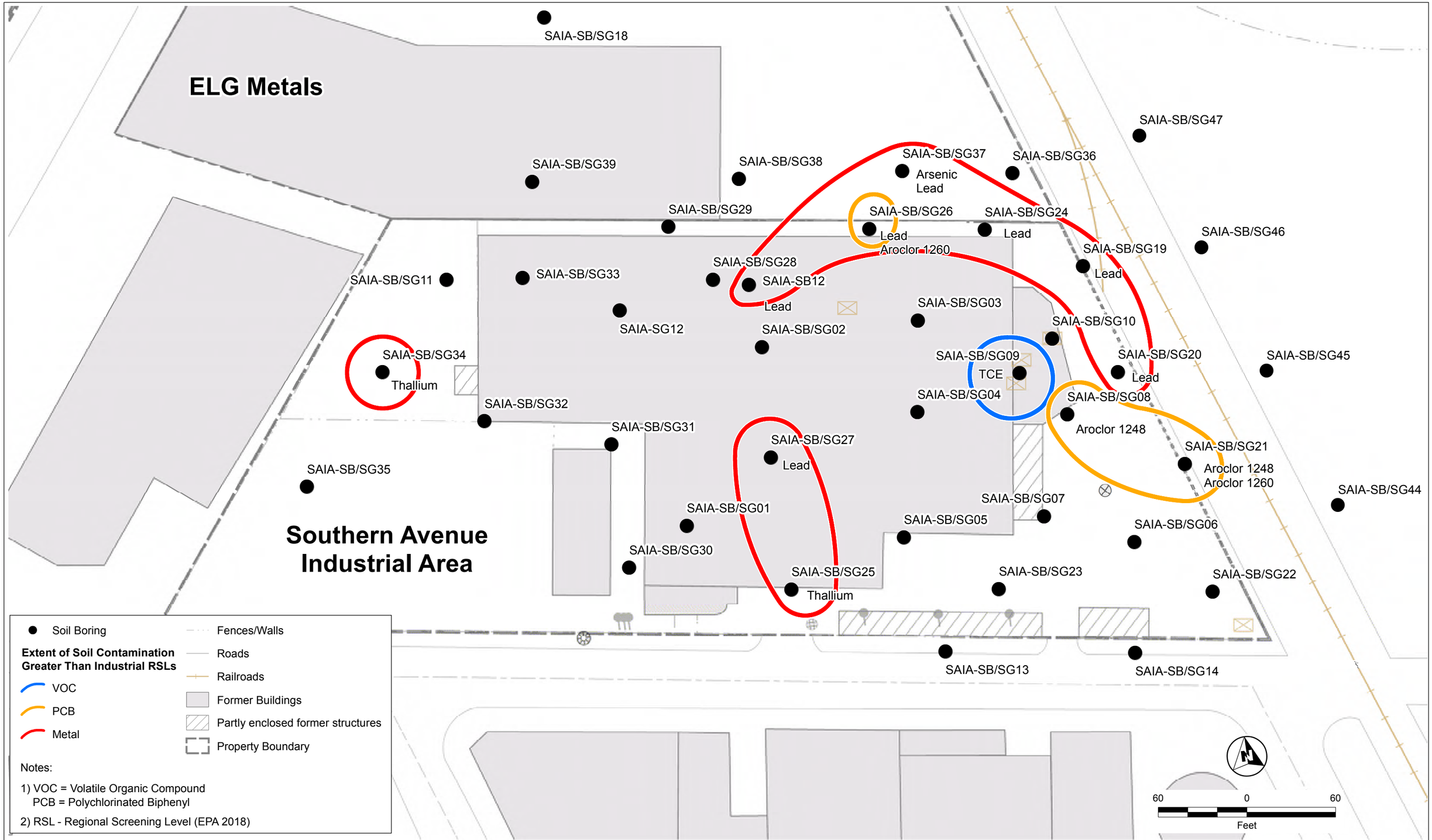

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Figure 4-1
Extent of VOC, PCB, and Metal Contamination in Soil

G:\ArcGIS\EPA\SAIA\PROJECTS\RI_Report_2018\Soil_Contamination_AZ.mxd 10/3/2018 [11:55 AM] AZHUK, Gilbane

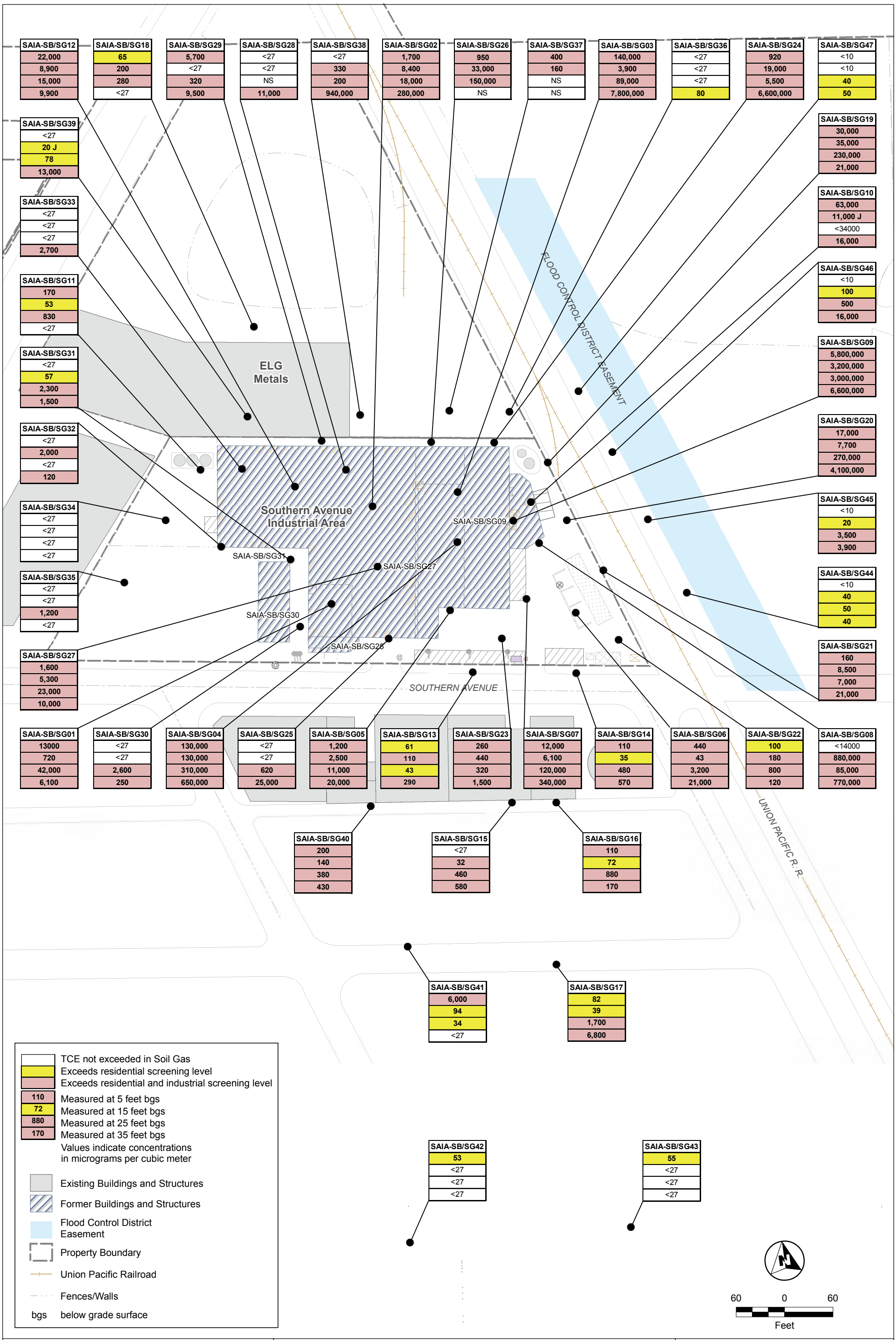

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Figure 4-2
Trichloroethene (TCE) in Soil Gas Sample Locations

G:\ArcGIS\EPA\SAIA\PROJECTS\RI_Report_2018\VOC_SG_Concentrationss_P_az.mxd 10/1/2018 [16:22 PM] AZHUK, Gilbane

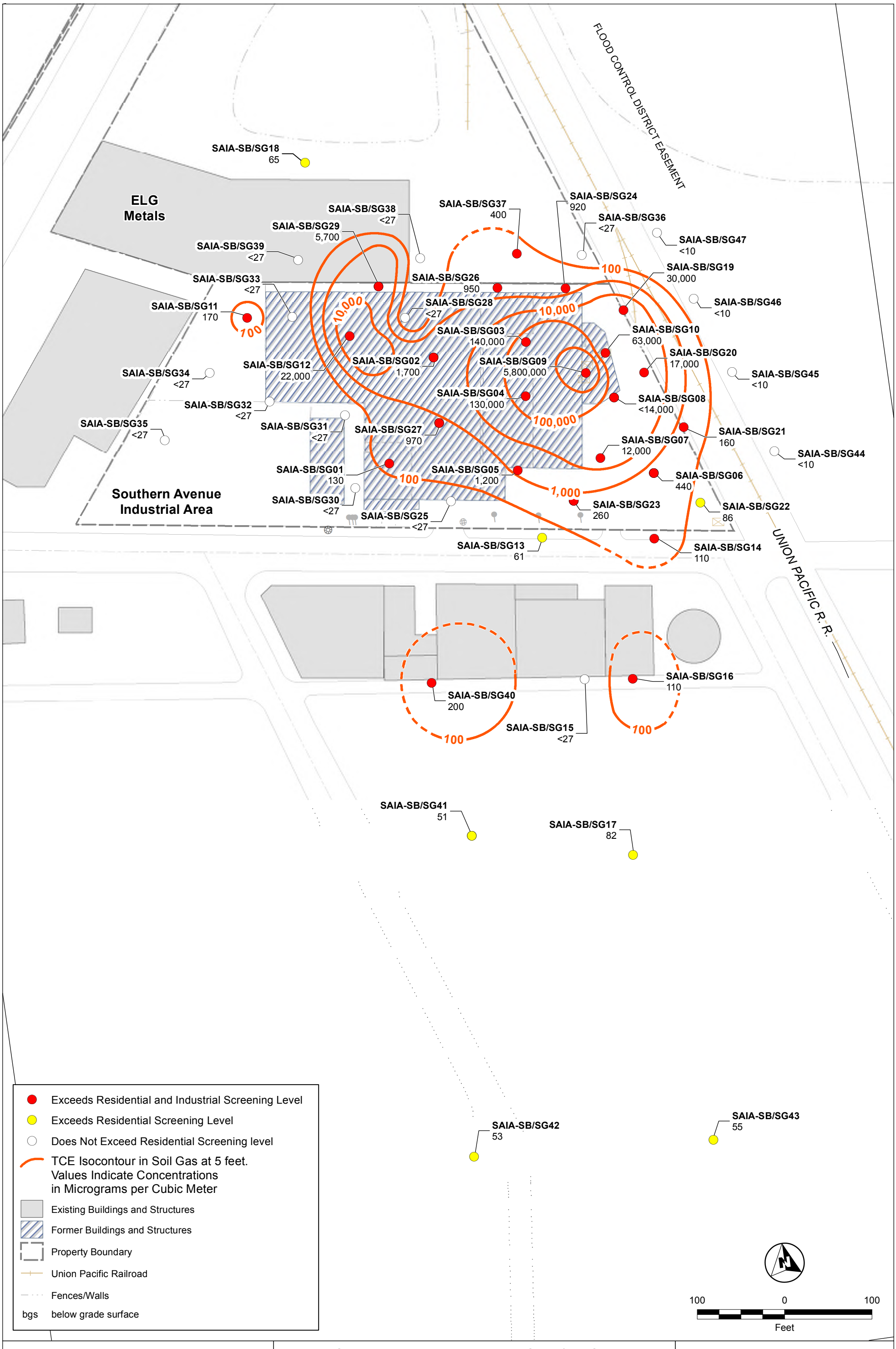

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Figure 4-3
Trichloroethene (TCE) Isocontours, Soil Gas at 5-foot Depth

G:\ArcGIS\EPA\SAIA\PROJECTS\RI_Report_2018\VOC_Soil_Gas_Contours_az.mxd 10/1/2018 [17:25 PM] AZHUK, Gilbane

Location ID	Date	Depth (ft)	PCE (ug/m^3)	TCE (ug/m^2)
SAIA-SB/SG40	05/01/2014	5	**240**	**200**
SAIA-SB/SG40	05/01/2014	15	**330**	**140**
SAIA-SB/SG40	05/01/2014	25	**1,200**	**380**
SAIA-SB/SG40	05/01/2014	35	<34	**430**
SAIA-SB/SG40	05/01/2014	35 (dup)	<34	**320**

Location ID	Date	Depth (ft)	PCE (ug/m^3)	TCE (ug/m^2)
SAIA-SB/SG15	04/15/2013	5	**750**	<27
SAIA-SB/SG15	04/15/2013	15	**810**	**32**
SAIA-SB/SG15	04/15/2013	25	**1,600**	**460**
SAIA-SB/SG15	04/15/2013	35	**1,200**	**580**

Location ID	Date	Depth (ft)	PCE (ug/m^3)	TCE (ug/m^2)
SAIA-SB/SG16	04/12/2013	5	**280**	**110**
SAIA-SB/SG16	04/12/2013	5 (dup)	**390**	**49**
SAIA-SB/SG16	04/12/2013	15	**820**	**72**
SAIA-SB/SG16	04/15/2013	25	**1,100**	**880**
SAIA-SB/SG16	04/15/2013	35	**610**	**170**

ALLEY

ADELA AVE

Three Buildings Sampled

Building 1			
Residential Location ID	**Date**	**PCE**	**TCE**
RES01-IA	04/17/2015	**1.4**	**0.054 J**
	01/27/2016	**1.3**	**0.09 J**
RES08-CS	04/17/2015	**0.11 J**	**0.05 J**
	01/27/2016	**0.21**	<0.15
Building 2			
Residential Location ID	**Date**	**PCE**	**TCE**
RES02-CS	04/17/2015	**0.089 J**	<0.14
	01/27/2016	**0.2**	<0.15
RES02-IA	04/24/2015	**0.078 J**	**0.018 J**
	01/27/2016	**0.18 J**	<0.15
Building 4			
Residential Location ID	**Date**	**PCE**	**TCE**
RES06-IA	04/16/2015	**0.12 J**	<0.14
	01/28/2016	**0.29**	<0.14
	01/28/2016 (dup)	**0.28**	<0.14

Location ID	Date	Depth (ft)	PCE (ug/m^3)	TCE (ug/m^2)
SAIA-SB/SG17	04/12/2013	5	**190**	**82**
SAIA-SB/SG17	04/12/2013	15	**210**	**39**
SAIA-SB/SG17	04/12/2013	25	**1,400**	**1,700**
SAIA-SB/SG17	04/12/2013	35	**480**	**6,800**

McCALLUM AVE

Location ID	Date	Depth (ft)	PCE (ug/m^3)	TCE (ug/m^2)
SAIA-SB/SG41	05/01/2014	5	<34	**51**
SAIA-SB/SG41	05/01/2014	15	**45**	**94**
SAIA-SB/SG41	05/01/2014	25	<34	**34**
SAIA-SB/SG41	05/01/2014	35	<34	<27

Three Buildings Sampled

Building 3A			
Residential Location ID	**Date**	**PCE**	**TCE**
RES03-IA	04/23/2015	**0.084 J**	**0.059 J**
	01/27/2016	**0.18**	<0.15
Building 3B			
Residential Location ID	**Date**	**PCE**	**TCE**
RES04-IA	04/23/2015	**0.14 J**	**0.07 J**
	01/28/2016	**0.31**	**0.08 J**
Building 3D			
Residential Location ID	**Date**	**PCE**	**TCE**
RES05-IA	04/24/2015	**0.093 J**	**0.06 J**
	01/27/2016	**0.25 J**	<0.14

Building 5			
Residential Location ID	**Date**	**PCE**	**TCE**
RES07-IA	04/16/2015	**0.14 J**	**0.052 J**
	01/28/2016	**0.25**	**0.07 J**
Residential Location ID	**Date**	**PCE**	**TCE**
RES07-OA	04/16/2015	**0.086 J**	<0.14
Building 6			
Residential Location ID	**Date**	**PCE**	**TCE**
RES08-IA	04/17/2015	**0.094 J**	**0.05 J**
	01/27/2016	**0.21**	<0.15
Residential Location ID	**Date**	**PCE**	**TCE**
RES08-CS	04/17/2015	**0.11 J**	**0.05 J**
	01/27/2016	**0.21**	<0.15

SALT LAKE AVE

Parcel Boundary

Area Sampled for Indoor Air

2015 and 2016 Indoor Air Sampling Location and Results

Indoor Air PCE Exceeds Residential RSL (TCE < RSL)

Soil Gas/Soil Boring Location 2013- 2014

Detected Analytes at Concentrations that Exceed Residential RSLs

Soil Gas/Soil Boring Location 2013-2014

Detected Analytes at Concentrations that Exceed Residential and Industrial RSLs

CS = Crawl Space Sample
IA = Indoor Air Sample
OA = Outdoor Air Sample
Bldg = Building
RSL = Regional Screening Level
ug/m^3 = Micrograms per cubic meter

N

50 0 50
Feet

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Figure 4-4
Residential Air and Nearby Soil Gas Analytical Results

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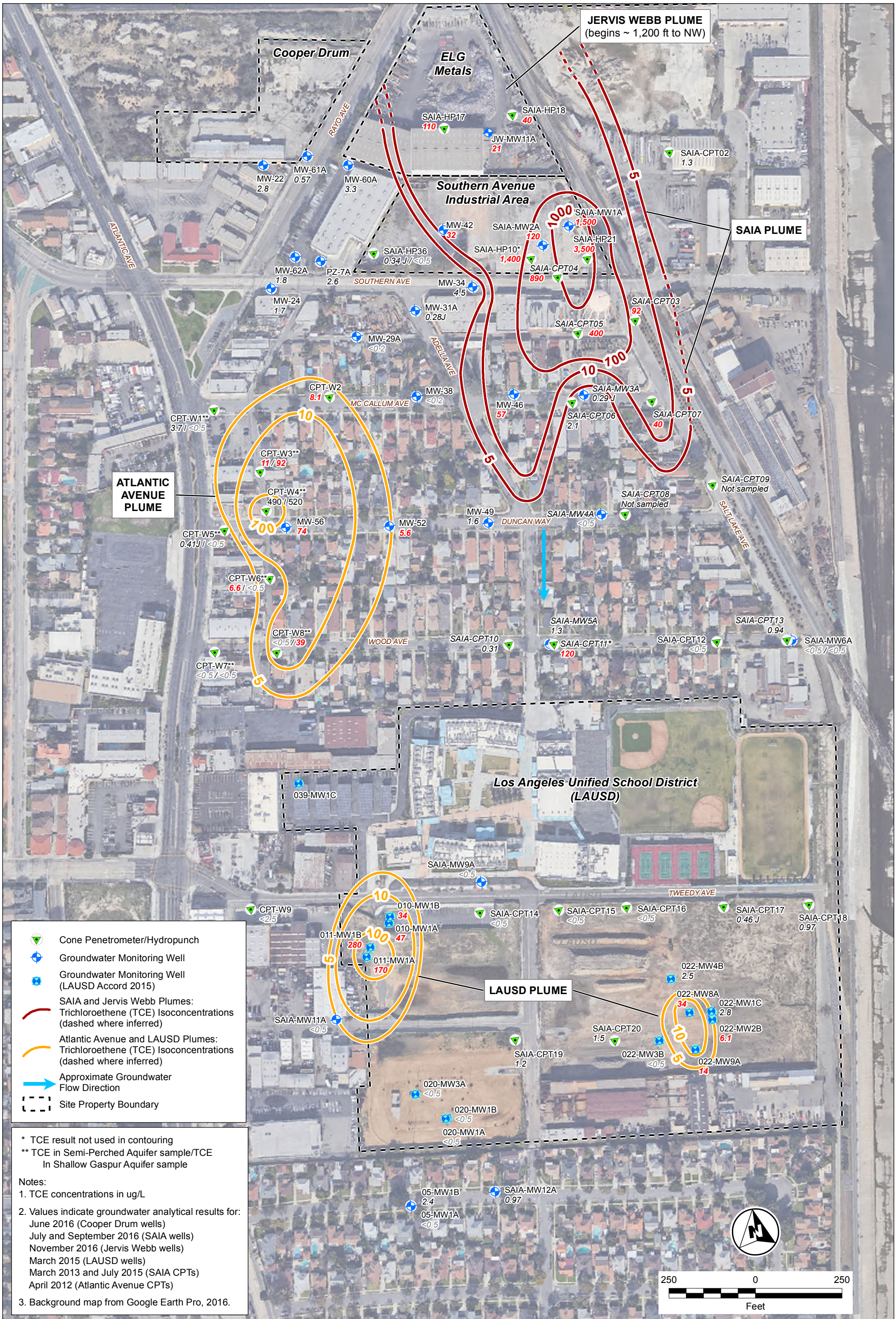

* TCE result not used in contouring

** TCE in Semi-Perched Aquifer sample/TCE In Shallow Gaspur Aquifer sample

Notes:

1. TCE concentrations in ug/L
2. Values indicate groundwater analytical results for:
   June 2016 (Cooper Drum wells)
   July and September 2016 (SAIA wells)
   November 2016 (Jervis Webb wells)
   March 2015 (LAUSD wells)
   March 2013 and July 2015 (SAIA CPTs)
   April 2012 (Atlantic Avenue CPTs)
3. Background map from Google Earth Pro, 2016.

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Figure 4-5
Trichloroethene in Groundwater
Shallow Gaspur Aquifer
July/September 2016

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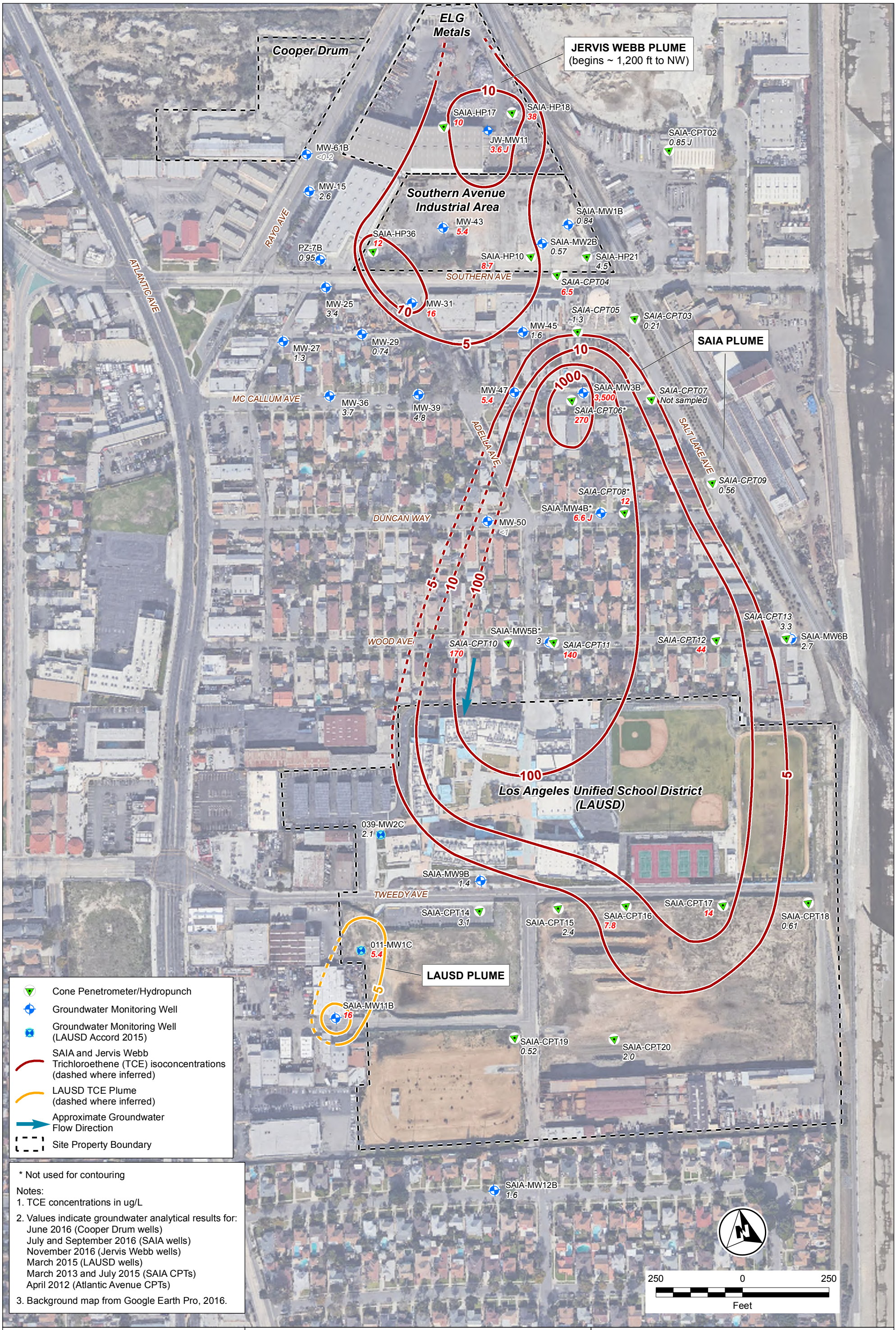

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Figure 4-6
Trichloroethene in Groundwater
Intermediate Gaspur Aquifer
July/September 2016

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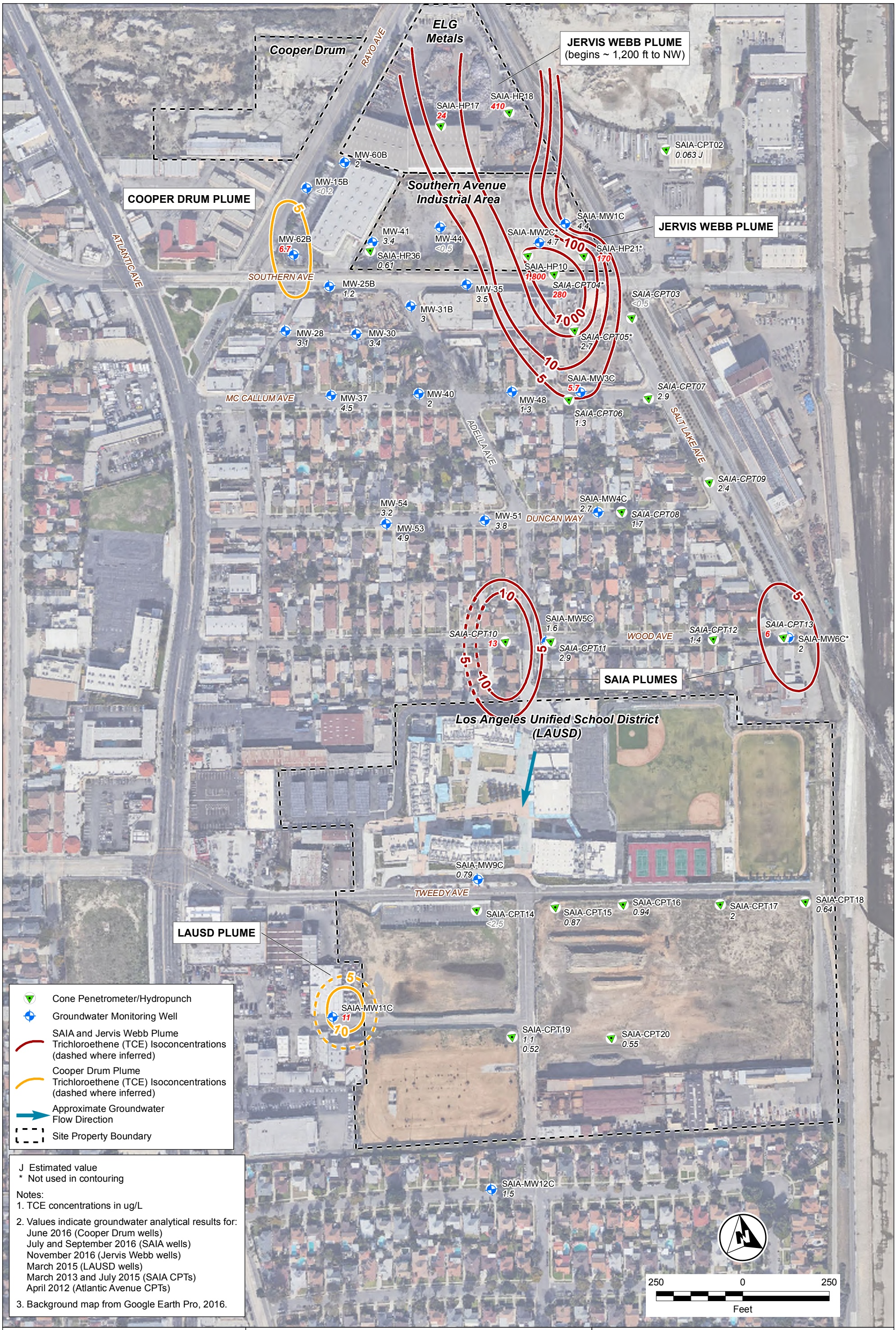

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Figure 4-7
Trichloroethene in Goundwater
Lower Gaspur Aquifer
July/September 2016

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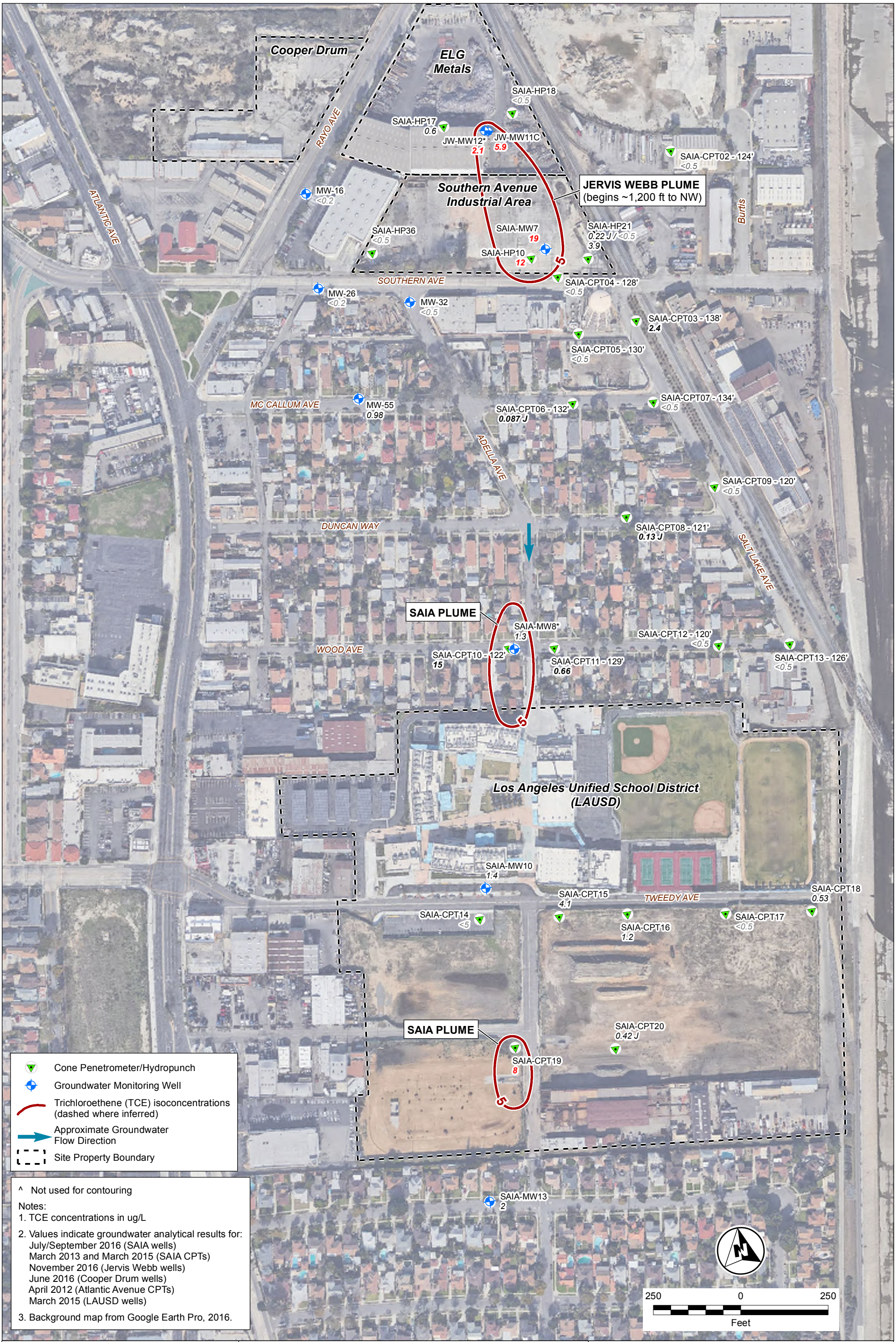

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Figure 4-8
Trichloroethene in Groundwater
Exposition Aquifer
July/September 2016

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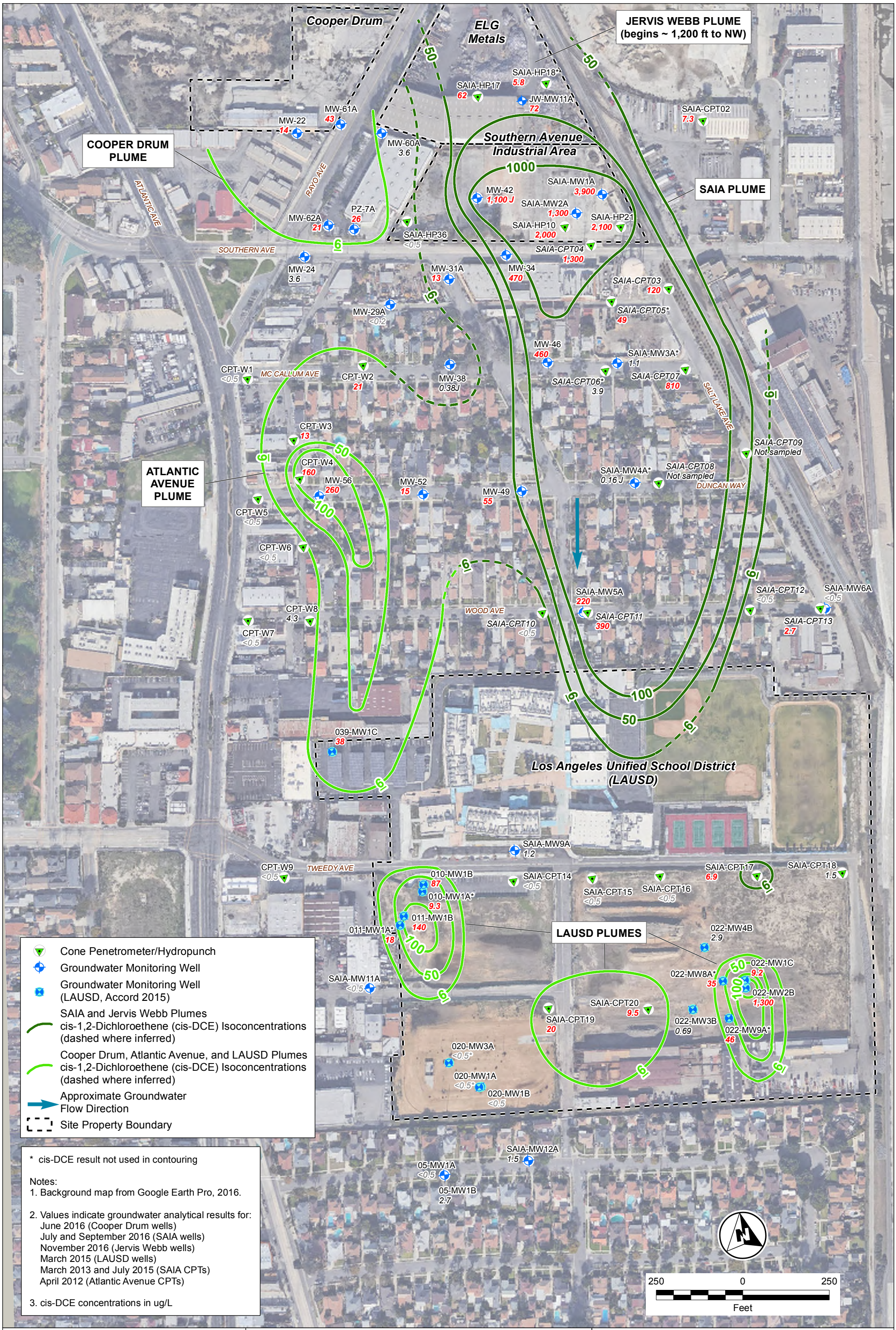

* cis-DCE result not used in contouring

Notes:
1. Background map from Google Earth Pro, 2016.

2. Values indicate groundwater analytical results for:
   June 2016 (Cooper Drum wells)
   July and September 2016 (SAIA wells)
   November 2016 (Jervis Webb wells)
   March 2015 (LAUSD wells)
   March 2013 and July 2015 (SAIA CPTs)
   April 2012 (Atlantic Avenue CPTs)

3. cis-DCE concentrations in ug/L

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Figure 4-9
cis-1,2-Dichloroethene in Groundwater
Shallow Gaspur Aquifer
July/September 2016

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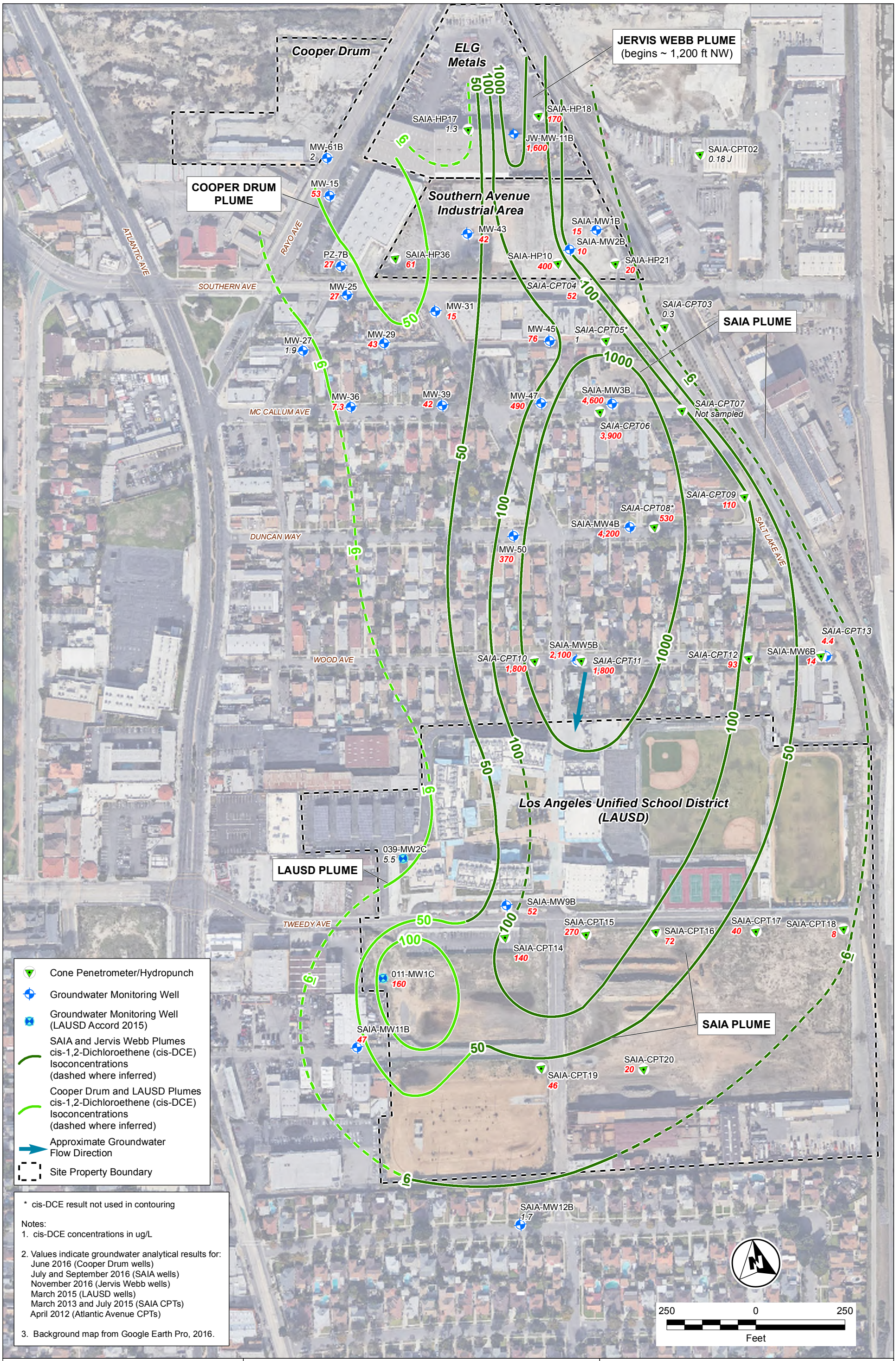

* cis-DCE result not used in contouring

Notes:
1. cis-DCE concentrations in ug/L

2. Values indicate groundwater analytical results for:
   June 2016 (Cooper Drum wells)
   July and September 2016 (SAIA wells)
   November 2016 (Jervis Webb wells)
   March 2015 (LAUSD wells)
   March 2013 and July 2015 (SAIA CPTs)
   April 2012 (Atlantic Avenue CPTs)

3. Background map from Google Earth Pro, 2016.

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Figure 4-10
cis-1,2-Dichloroethene in Groundwater
Intermediate Gaspur Aquifer
July/September 2016

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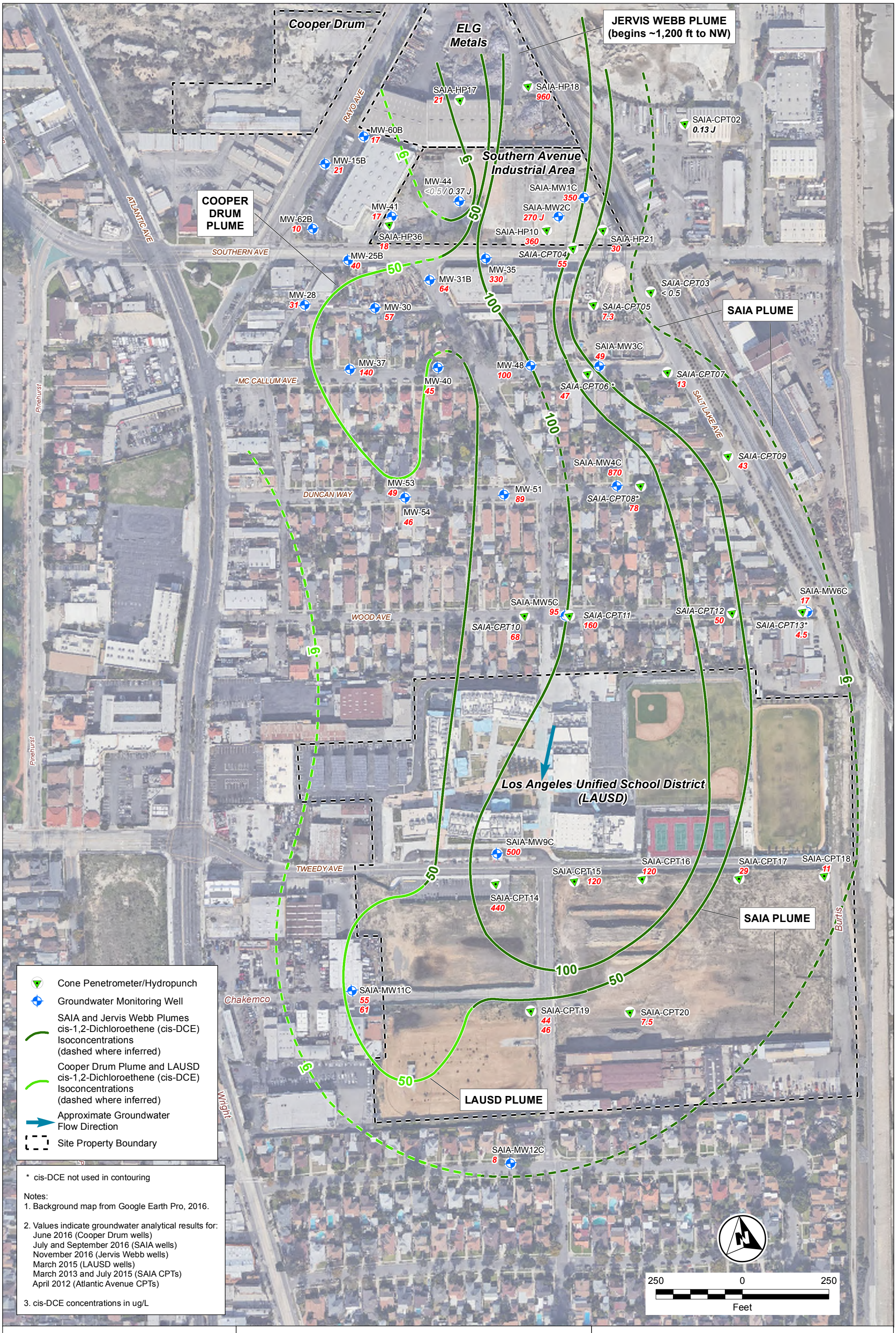

* cis-DCE not used in contouring

Notes:
1. Background map from Google Earth Pro, 2016.

2. Values indicate groundwater analytical results for:
   June 2016 (Cooper Drum wells)
   July and September 2016 (SAIA wells)
   November 2016 (Jervis Webb wells)
   March 2015 (LAUSD wells)
   March 2013 and July 2015 (SAIA CPTs)
   April 2012 (Atlantic Avenue CPTs)

3. cis-DCE concentrations in ug/L

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Figure 4-11
cis-1,2-Dichloroethene in Groundwater
Lower Gaspur Aquifer
July/September 2016

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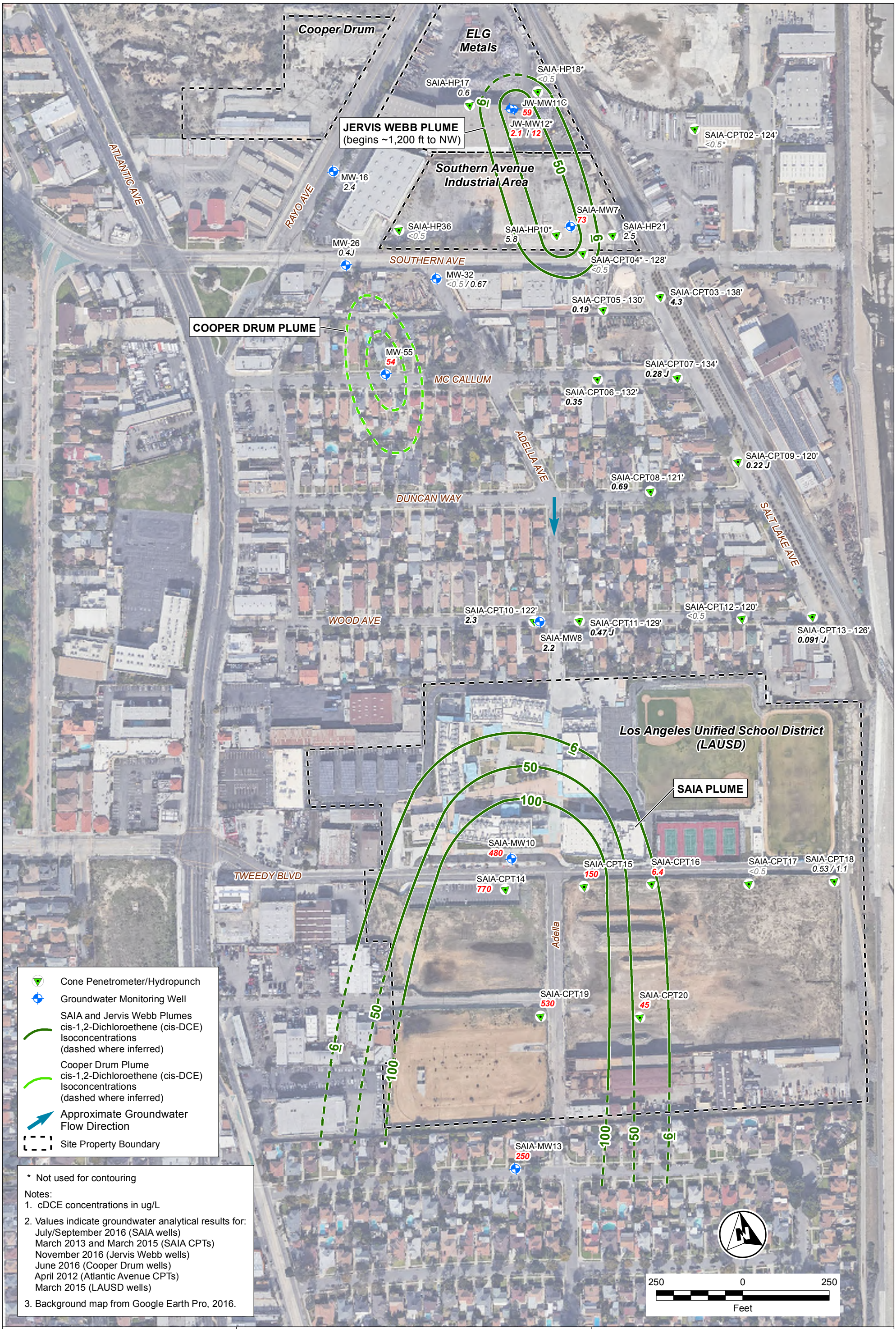

* Not used for contouring

Notes:

1. cDCE concentrations in ug/L
2. Values indicate groundwater analytical results for:
   July/September 2016 (SAIA wells)
   March 2013 and March 2015 (SAIA CPTs)
   November 2016 (Jervis Webb wells)
   June 2016 (Cooper Drum wells)
   April 2012 (Atlantic Avenue CPTs)
   March 2015 (LAUSD wells)
3. Background map from Google Earth Pro, 2016.

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Figure 4-12
cis-1,2-Dichloroethene in Groundwater
Exposition Aquifer
July/September 2016

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Figure 4-13
1,4-Dioxane in Groundwater
Shallow Gaspur Aquifer
July/September 2016

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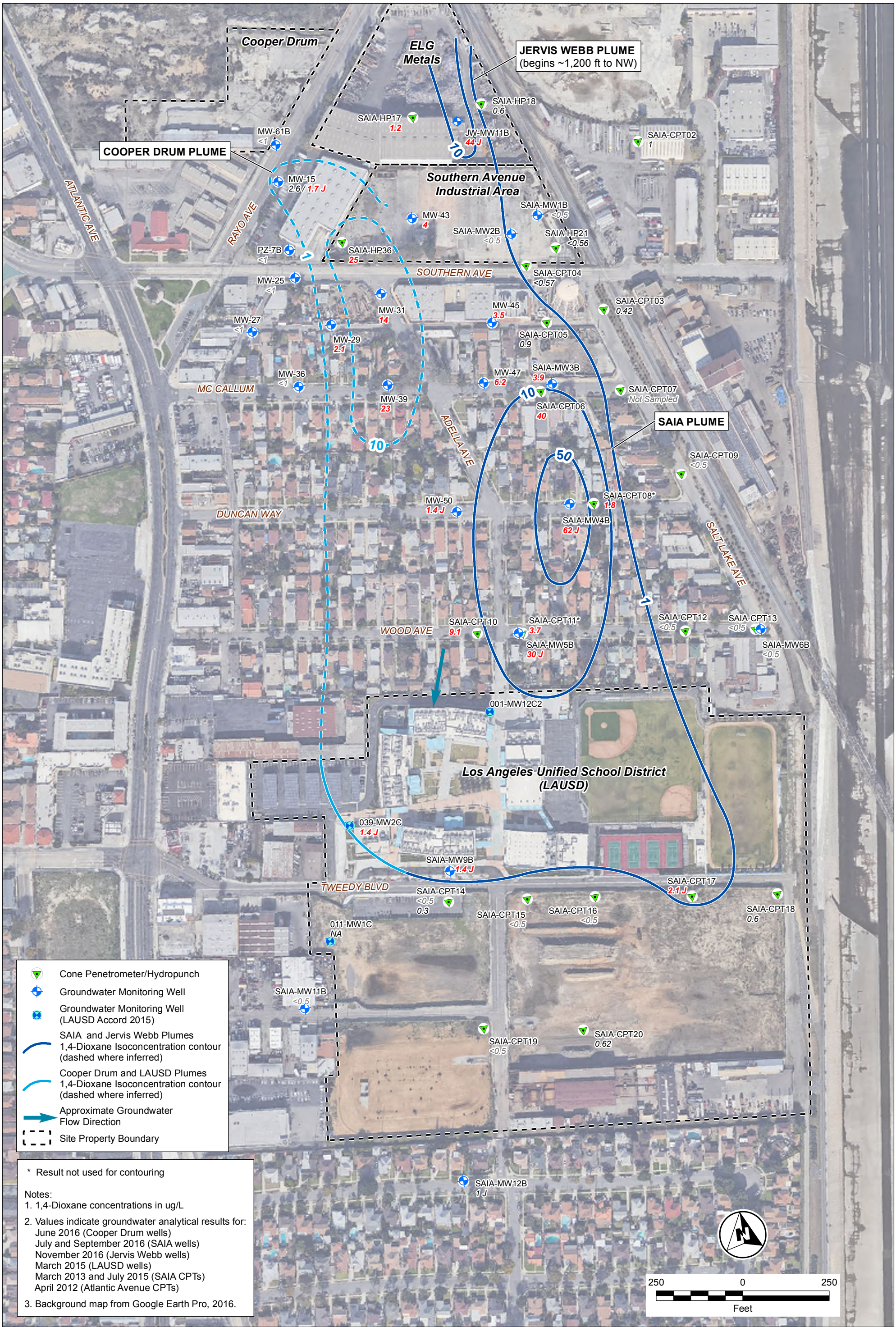

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Figure 4-14
1,4-Dioxane in Groundwater
Intermediate Gaspur Aquifer
July/September 2016

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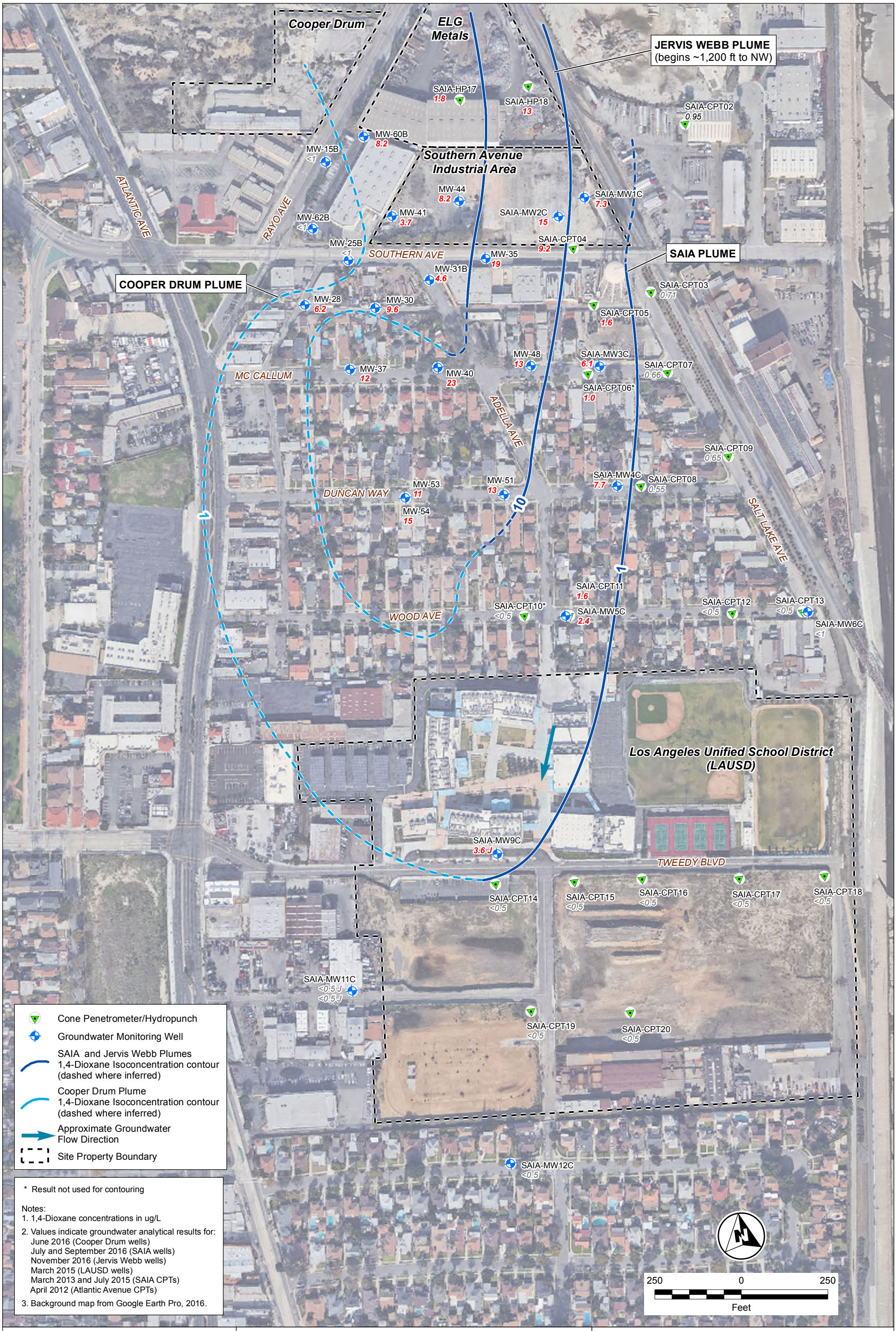

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Figure 4-15
1,4-Dioxane in Groundwater
Lower Gaspur Aquifer
July/September 2016

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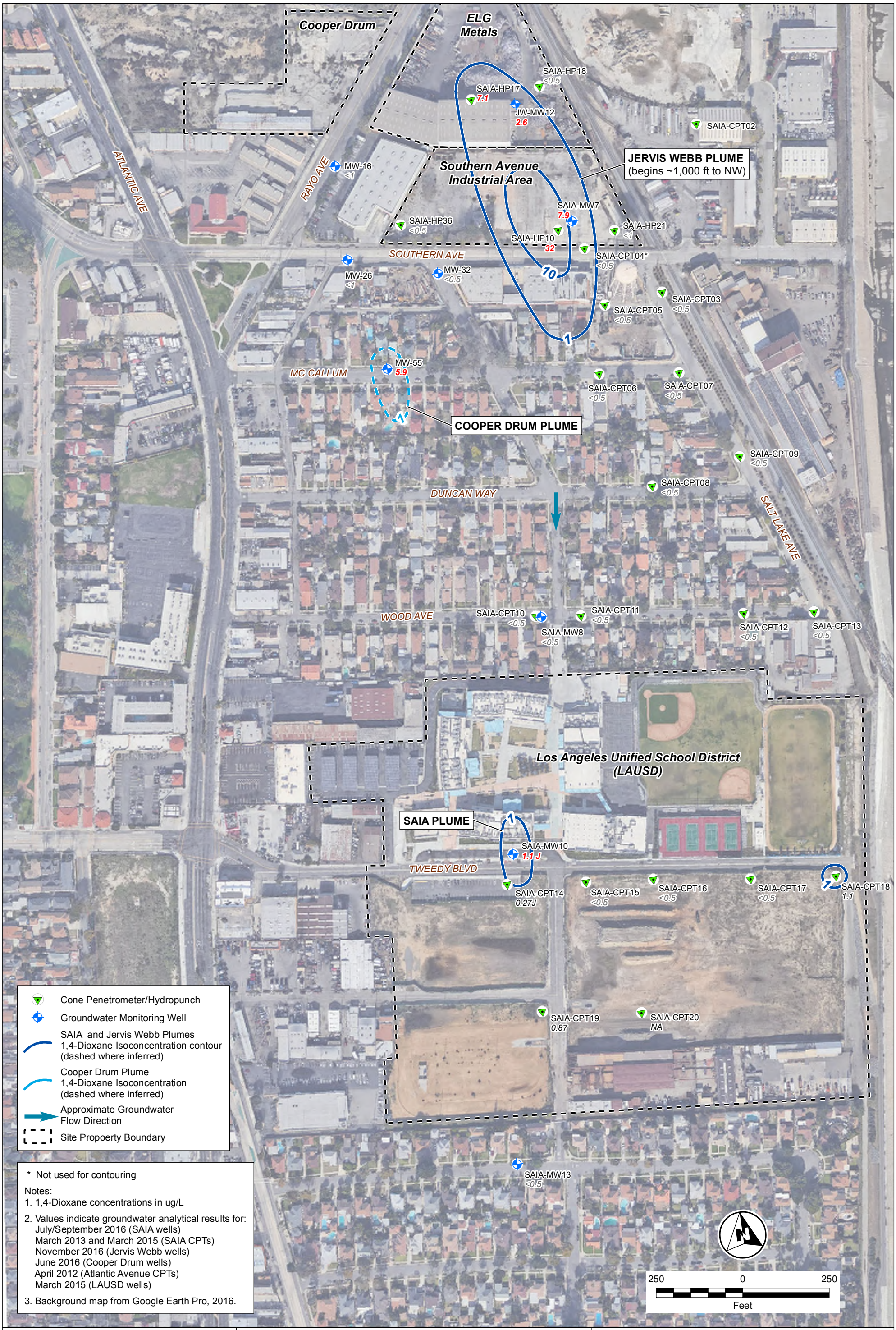

* Not used for contouring

Notes:

1. 1,4-Dioxane concentrations in ug/L
2. Values indicate groundwater analytical results for:
   July/September 2016 (SAIA wells)
   March 2013 and March 2015 (SAIA CPTs)
   November 2016 (Jervis Webb wells)
   June 2016 (Cooper Drum wells)
   April 2012 (Atlantic Avenue CPTs)
   March 2015 (LAUSD wells)
3. Background map from Google Earth Pro, 2016.

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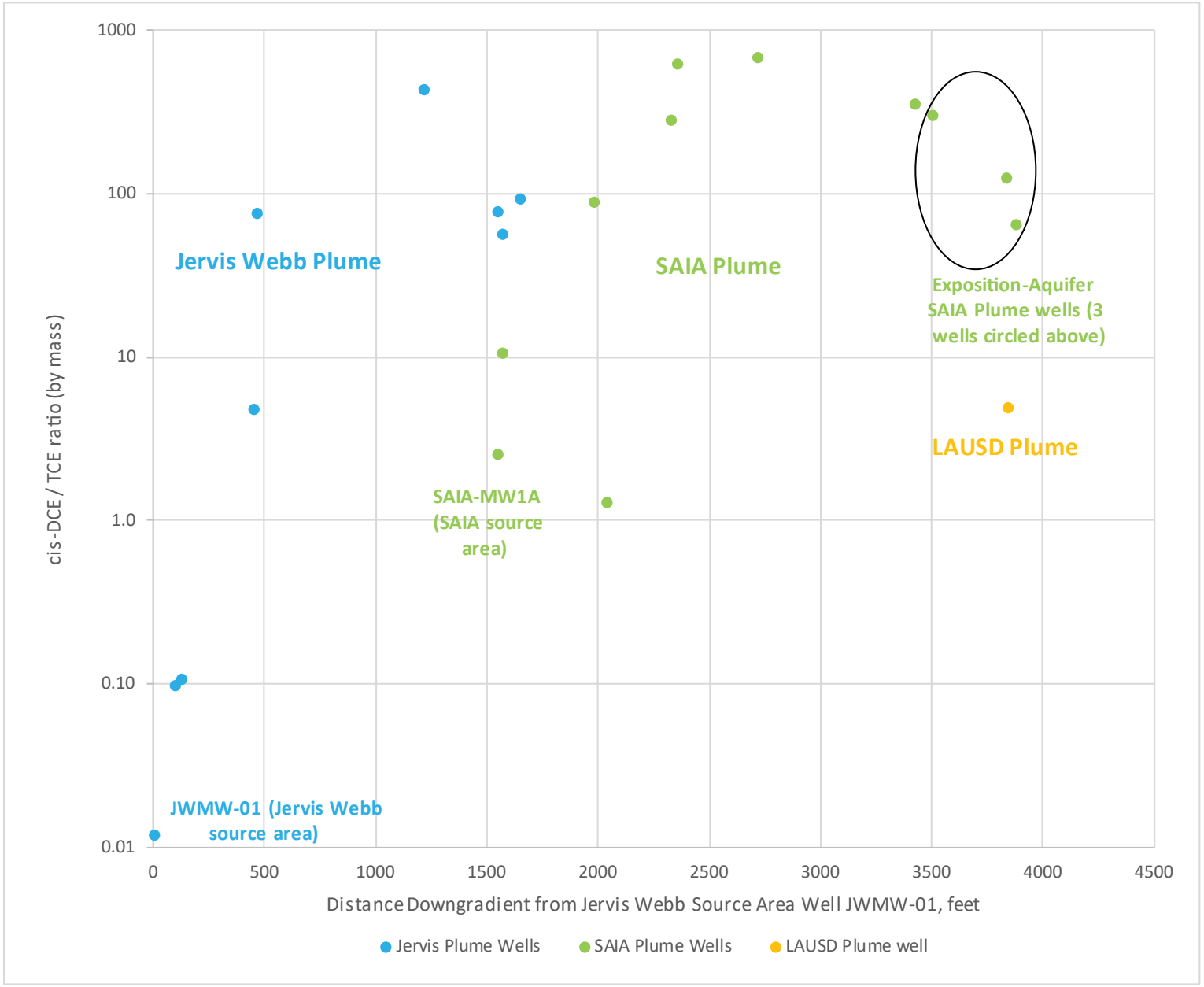
Figure 4-16
1,4-Dioxane in Groundwater
Exposition Aquifer
July/September 2016

G:\ArcGIS\EPA\SAIA\PROJECTS\RI_Report_2018\14Dioxane_Isoconcentrations_Exposition_GA_Jul_Sep_2016.mxd 3/21/2019 eanderson, Gilbane



P:\EPAR9\0064 TO 063-RICO-09WS, So. Ave Indstl Area\13.0 Graphics\VOC Plume Ratios 2018 SAIA.ai 03/22/2019

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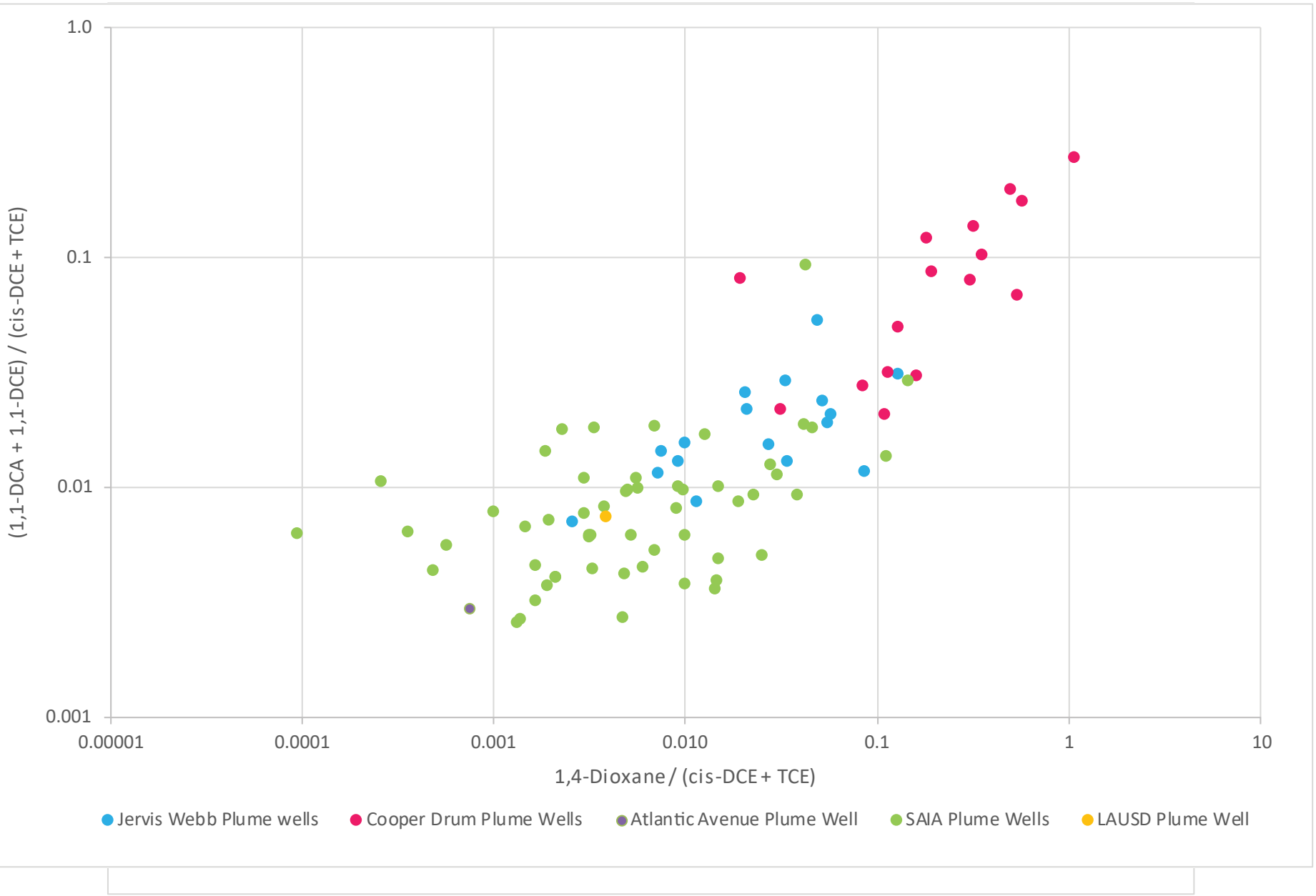
Figure 4-17
cis-DCE to TCE Ratios
in SAIA and Jervis Webb
Groundwater VOC Plumes



P:\EPAR9\0064 TO 063-RICO-09WS, So. Ave Indstl Area\13.0 Graphics\Contaminant Ratios in GW VOC near SAIA.ai 03/22/2019

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Figure 4-18
Contaminant Ratios in Groundwater VOC Plumes in and near SAIA

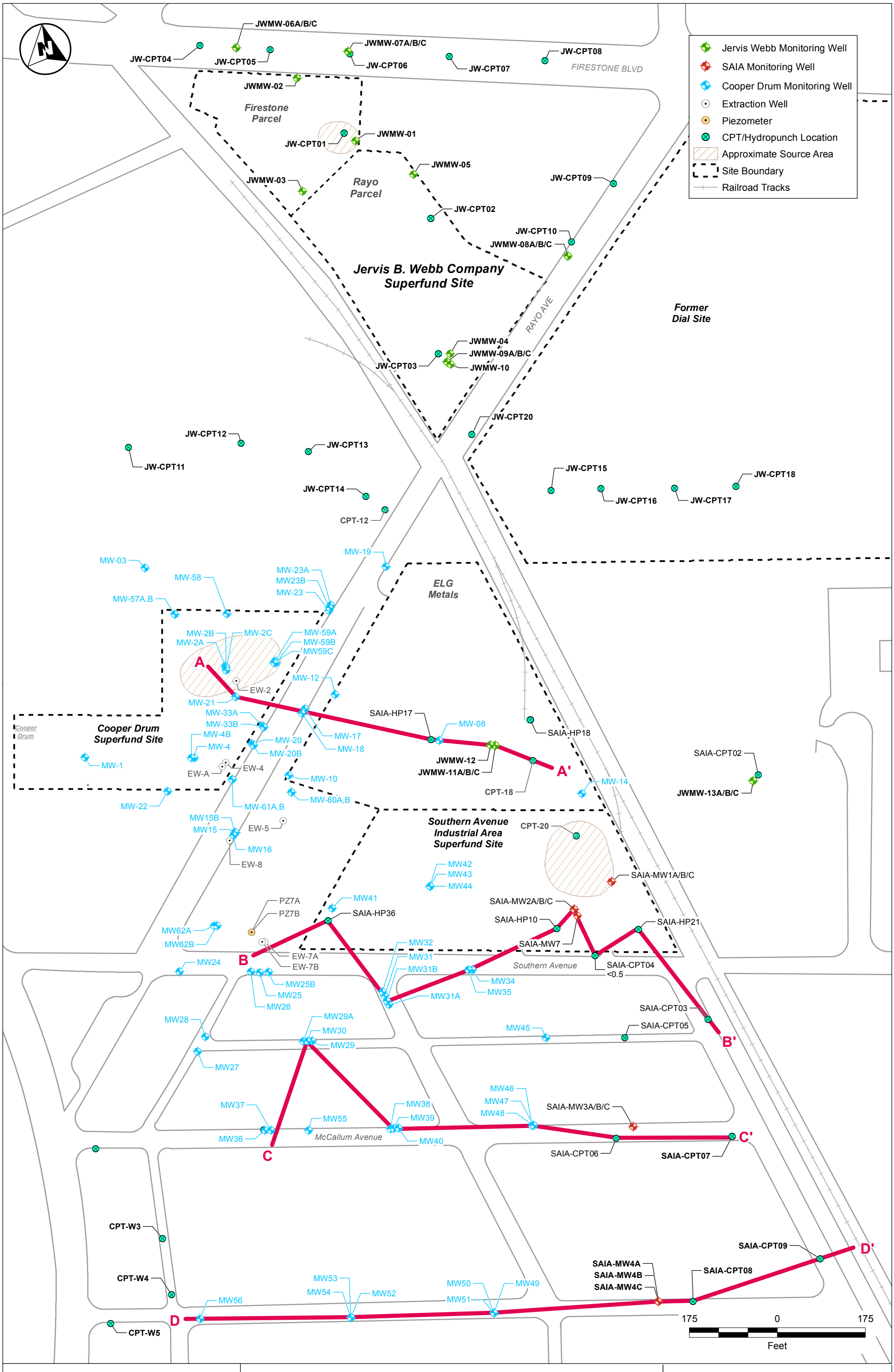

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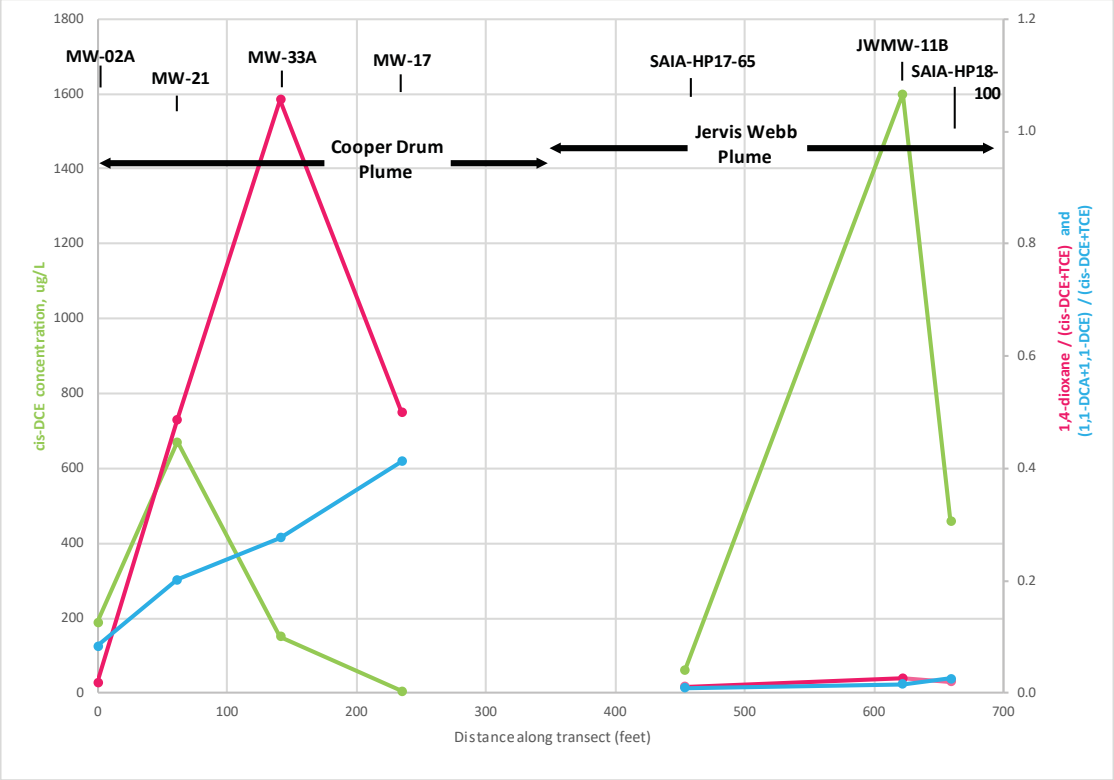
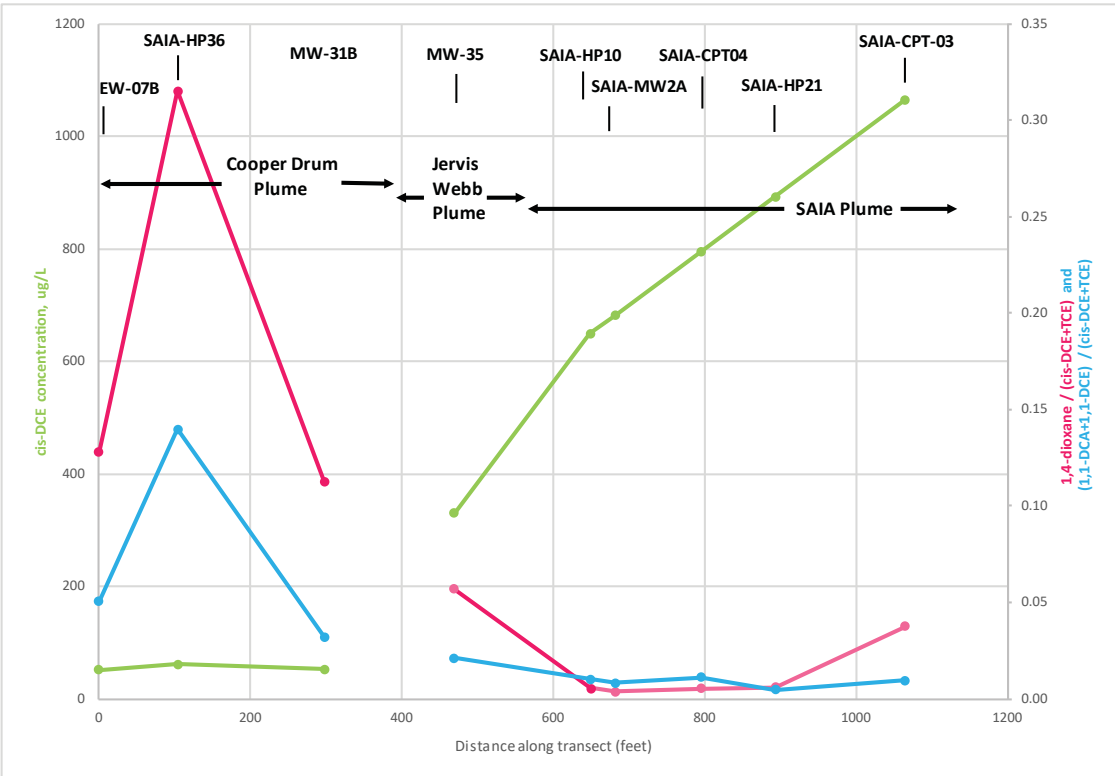
Figure 4-19
Transects for Commingling Plots

G:\ArcGIS\EPA\SAIA\PROJECTS\RI_Report_2018\CommingledPlumes_Xsection_Lines_SAIA.mxd 3/25/2019 eanderson, Gilbane



Transect A-A', proceeding West to East



Transect B-B', proceeding West to East

P:\EPAR9\0064 TO 063-RICO-09WS, So. Ave Indstl Area\13.0 Graphics\cis_DCE EW A-A_B-B_SAIA 2018.ai 03/22/2019

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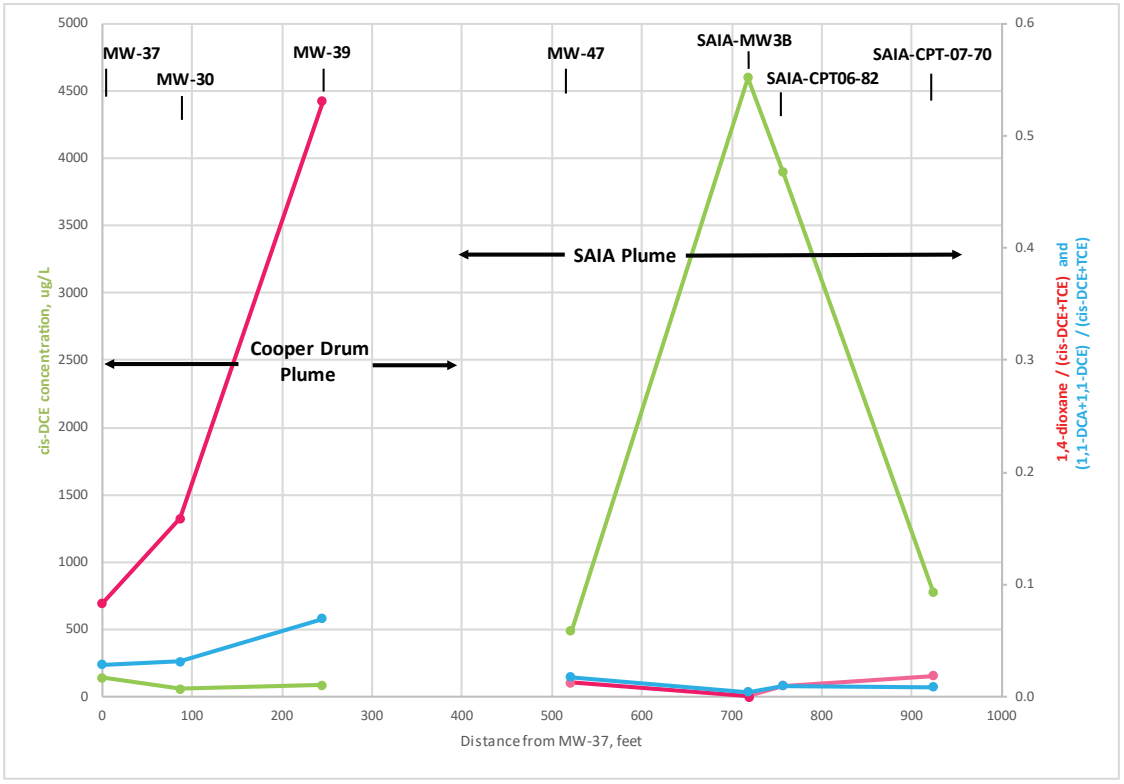
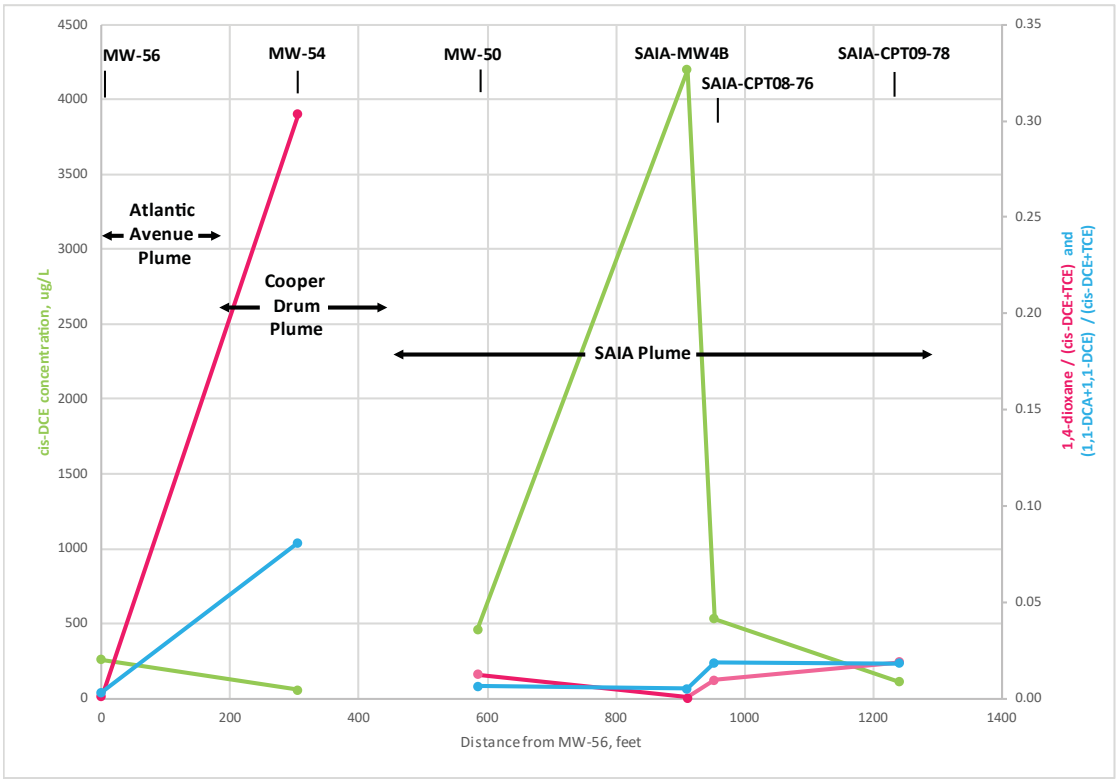
Figure 4-20
cis-DCE Concentrations and Contaminant Ratios in East-West Transects of Cooper Drum and Jervis Webb/SAIA VOC Contaminant Plumes



Transect C-C', proceeding West to East



Transect D-D', proceeding West to East

P:\EPAR9\0064 TO 063-RICO-09WS, So. Ave Indstl Area\13.0 Graphics\cis_DCE EW C-C_D-D_SAIA 2018.ai 03/22/2019

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Figure 4-21
cis-DCE Concentrations and Contaminant Ratios in East-West Transects of Cooper Drum, Atlantic Avenue, and SAIA Groundwater VOC Contaminant Plumes

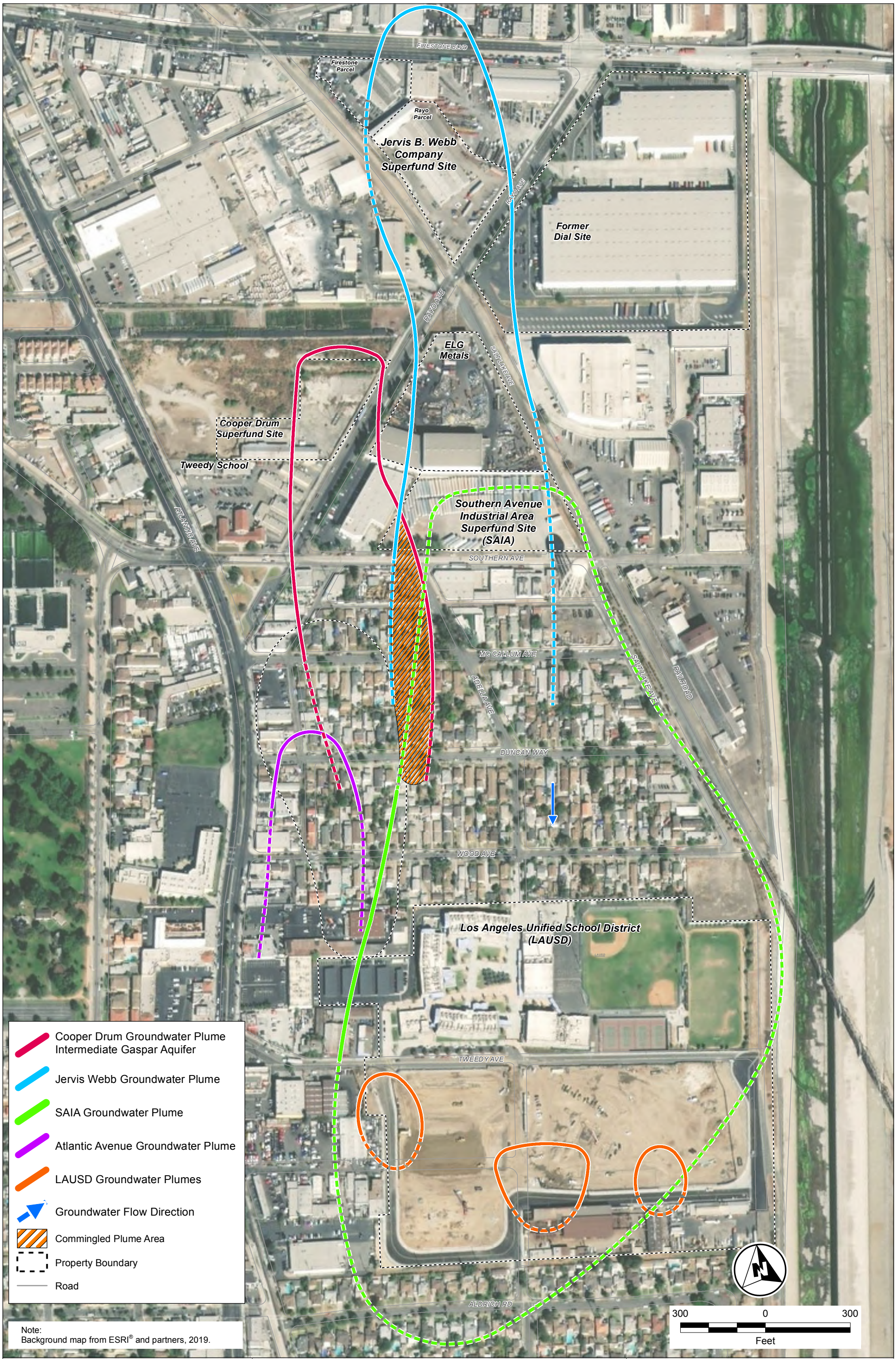

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Figure 4-22
Estimated VOC Plume Outlines and Commingling Areas

G:\ArcGIS\EPA\SAIA\PROJECTS\RI_Report_2018\VOCs_Comingled_Plumes_SAIA.mxd 3/21/2019 eanderson, Gilbane

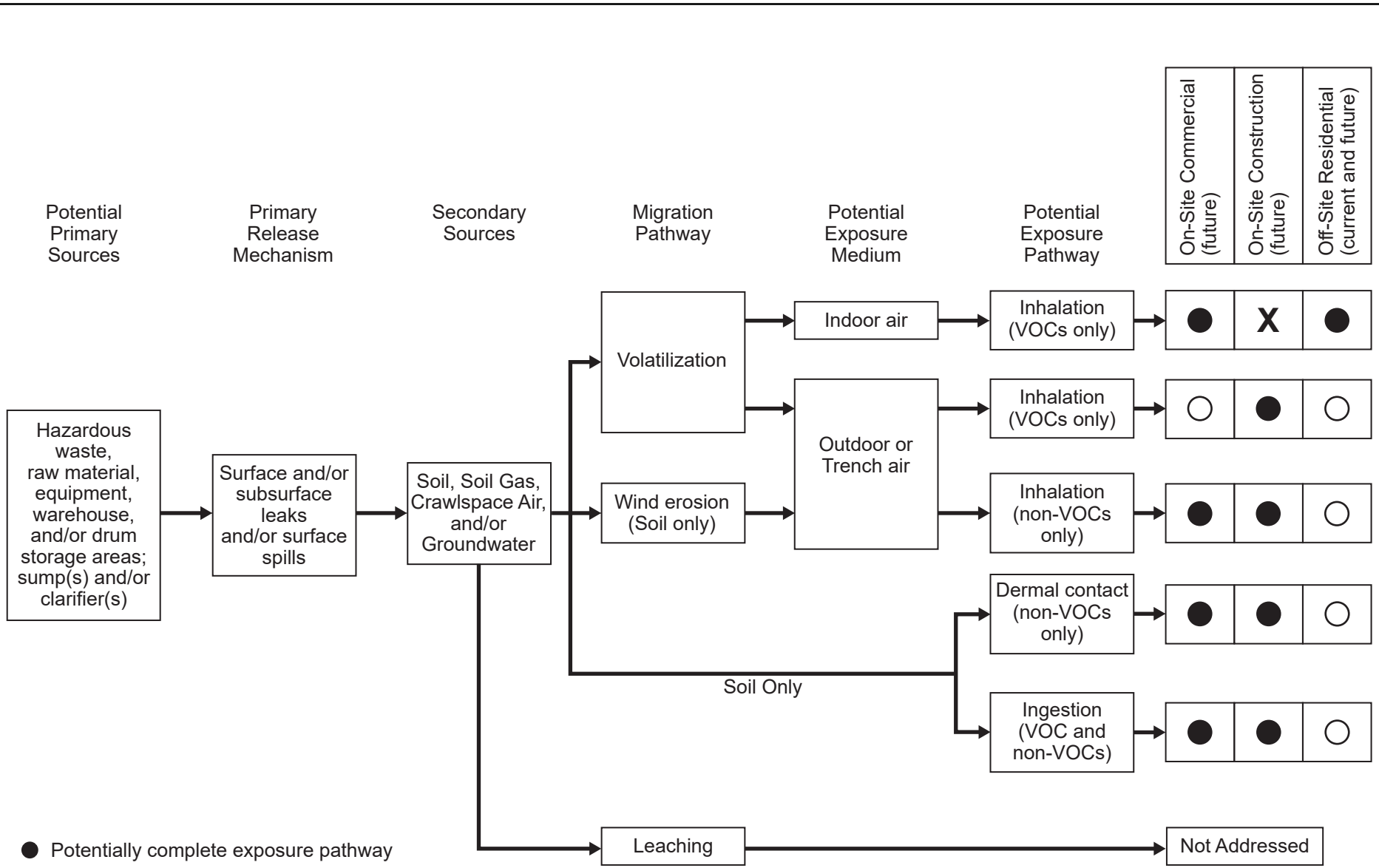

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Figure 6-1
Conceptual Site Exposure Model

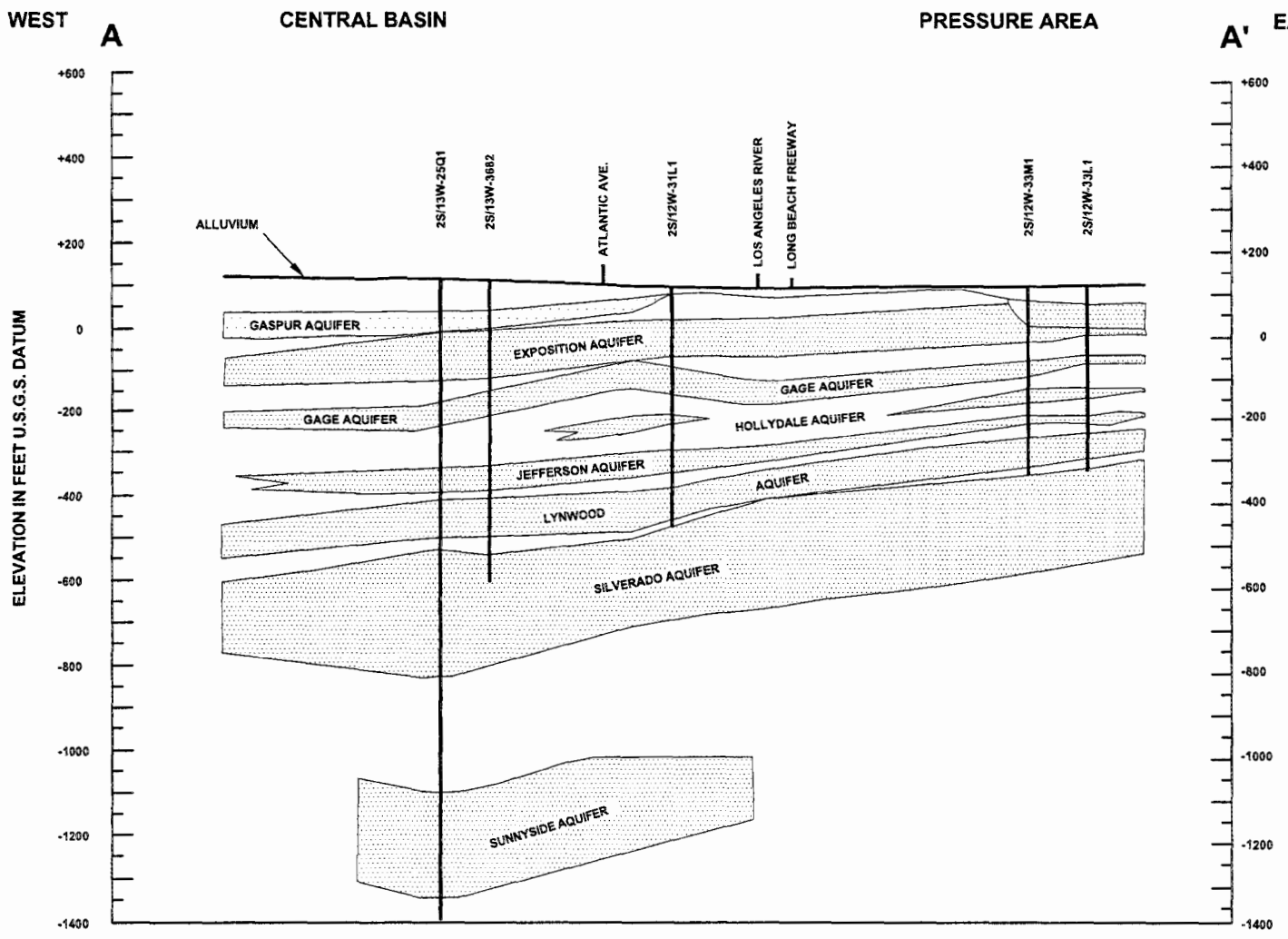
APPENDIX A

HISTORICAL REFERENCES MAPS AND FIGURES

Appendix A-1	**Generalized Hydrogeologic Cross-Section through South Gate, CA (URS, 2002)**
Appendix A-2	**Jervis Webb Groundwater Elevation Maps and TCE Groundwater Plume Map (Gilbane, 2018)**
Appendix A-3	**Cooper Drum Site Groundwater Contour Maps, 2000 and 2007 (URS, 2002, 2007) and Pre-RI Soil Analytical Results Summary Table (Bechtel, 1997)**
Appendix A-4	**Cooper Drum Site Monitoring Well Groundwater Analytical Results, 1998-2017 (Haley and Aldrich, 2017)**
Appendix A-5	**Cooper Drum Site Vicinity, Estimated Plume Boundaries (ITSI, 2010)**

Appendix A-1

Generalized Hydrogeologic Cross-Section through South Gate, CA (URS, 2002)



Taken from DWR Bulletin 104 Appendix A

Line of section shown on Figure 1-4

020314F01-03.DWG
DRA May 08, 2002
Cooper

URS
2520 VENTURE OAKS WAY, SUITE 250
SACRAMENTO, CA 95833-3200

Cooper Drum Company
South Gate, California

Figure A-1
Idealized Geologic Cross-section A-A'
Through South Gate, CA

G0003000269059

Appendix A-2

Jervis Webb Groundwater Elevation Maps and TCE Groundwater Plume Map (Gilbane, 2018)

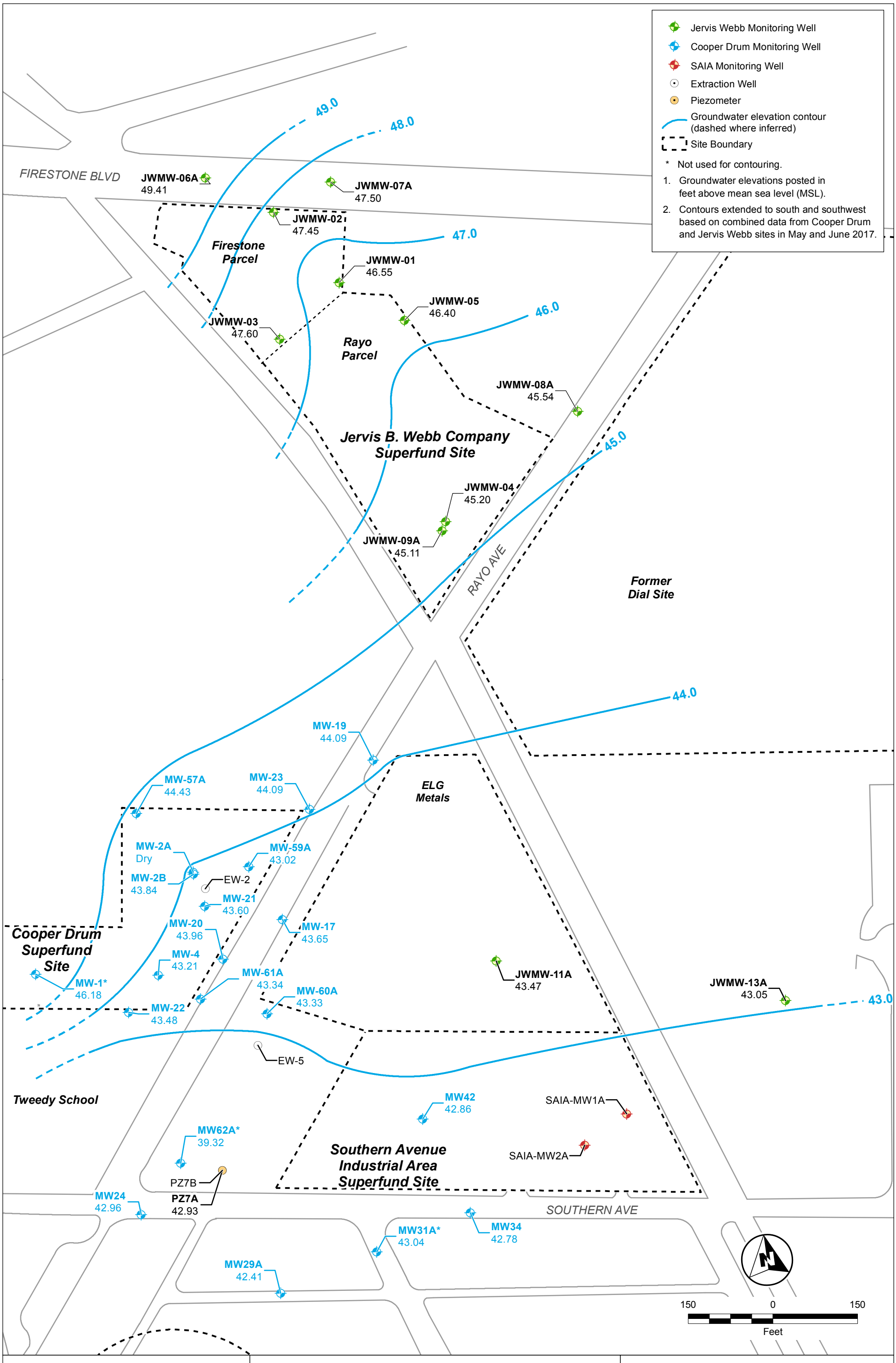


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Figure A2-1
Groundwater Elevation Map
Shallow Gaspur Aquifer
May/June 2017

G:\ArcGIS\EPA\Jervis_Webb\PROJECTS\RI_Report_2018\GW_Contours_Shallow_Gaspur_05_06_2017.mxd 10/23/2018 [15:36 PM] EANDERSON, Gilbane

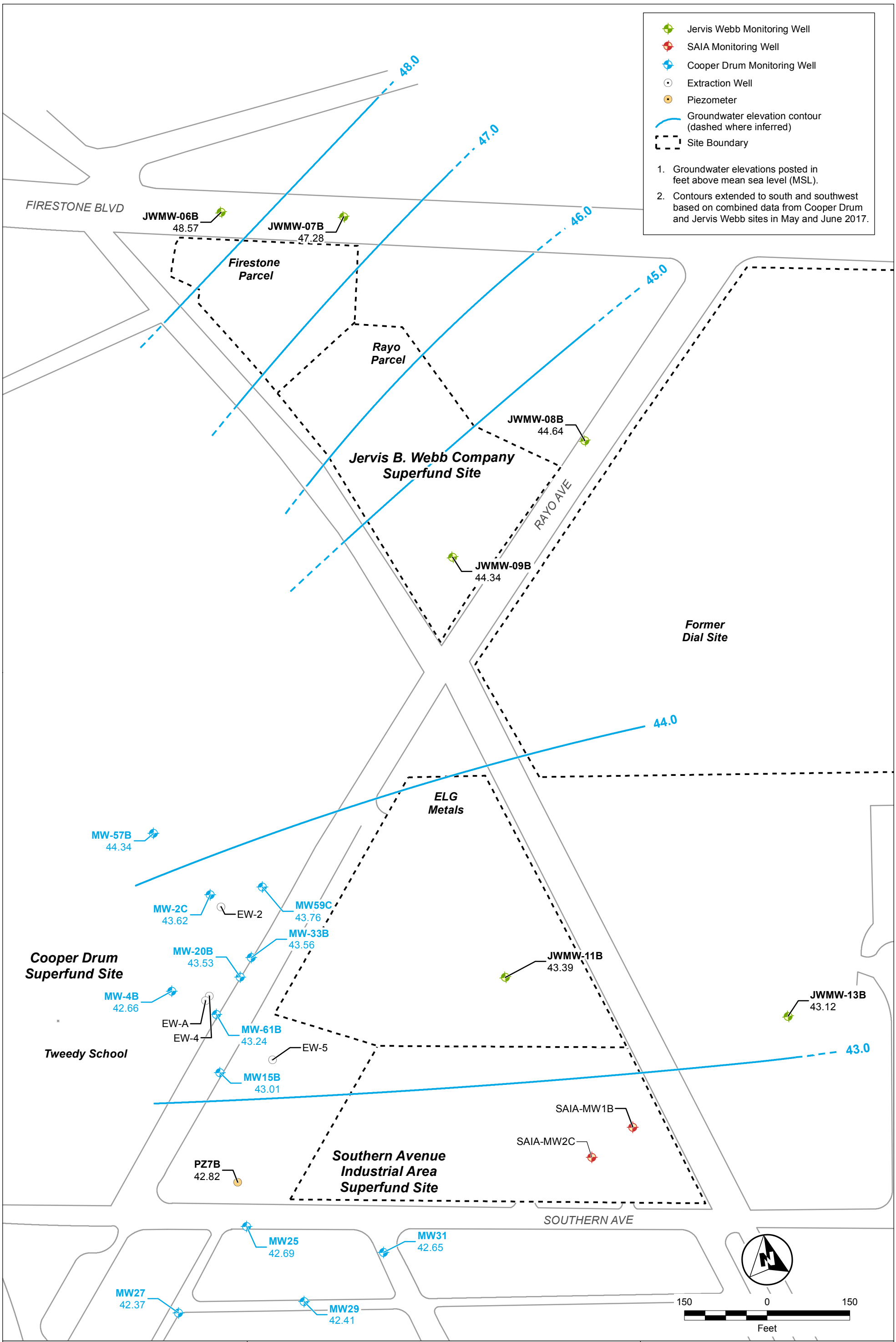

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Figure A2-2
Groundwater Elevation Map
Intermediate Gaspur Aquifer
May/June 2017

G:\ArcGIS\EPA\Jervis_Webb\PROJECTS\RI_Report_2018\GW_Contours_Intermediate_Gaspur_05_06_2017.mxd 8/17/2018 [14:26 PM] EANDERSON, Gilbane

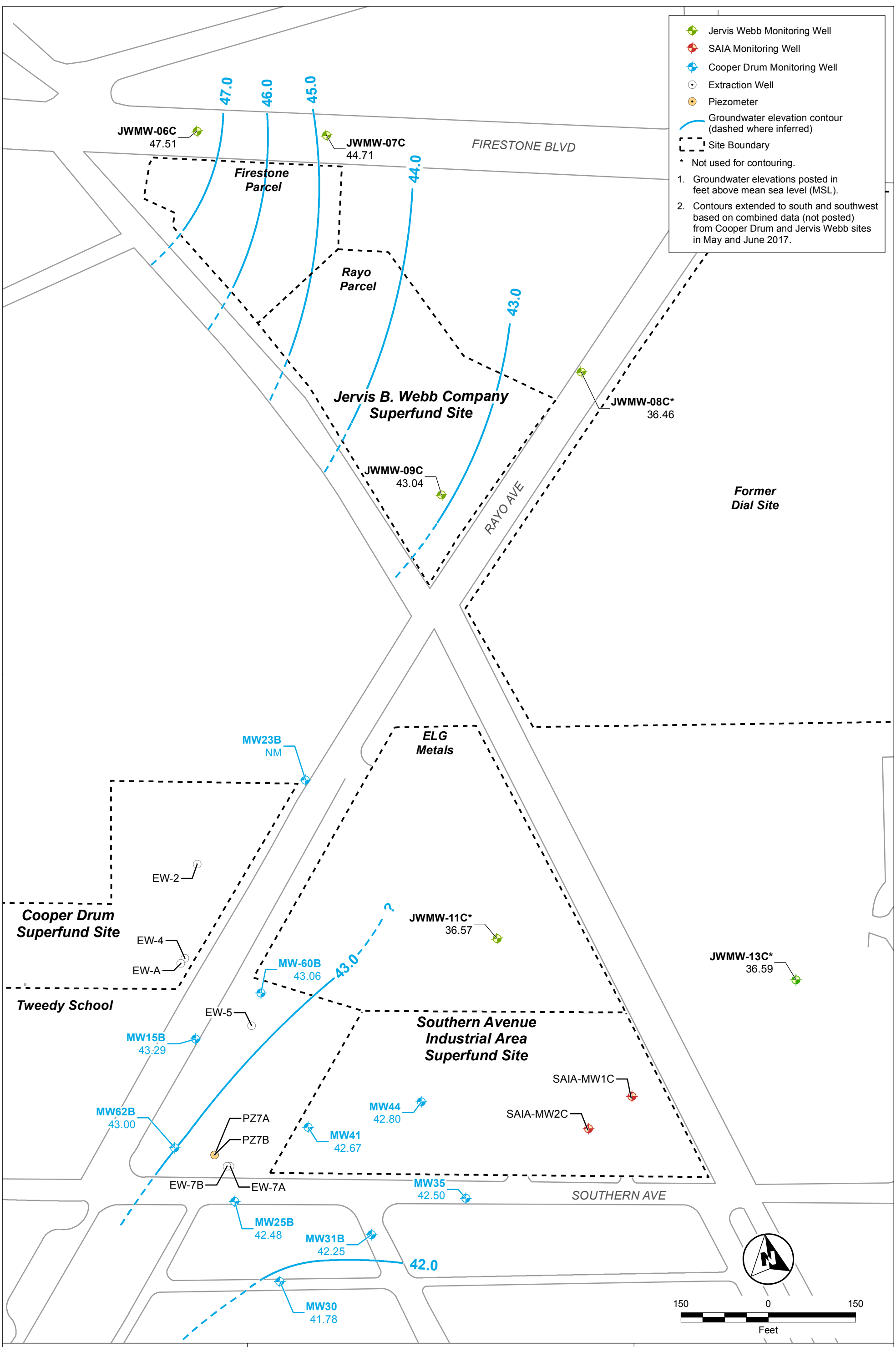

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Figure A2-3
Groundwater Elevation Map
Lower Gaspur Aquifer
May/June 2017

G:\ArcGIS\EPA\Jervis_Webb\PROJECTS\RI_Report_2018\GW_Contours_Lower_Gaspur_05_06_2017.mxd 3/1/2019 [17:59 PM] EANDERSON, Gilbane

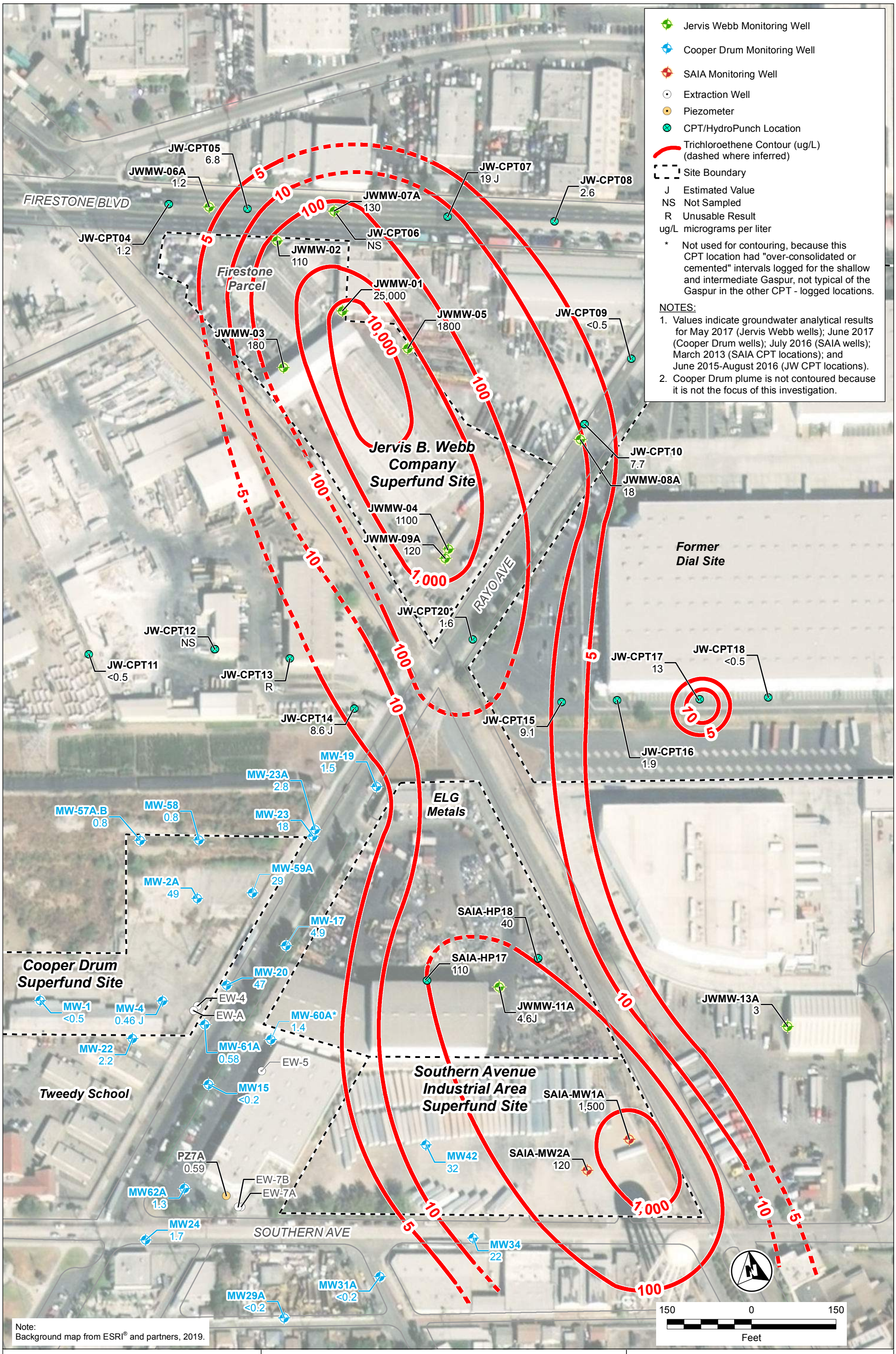

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Figure A2-4
Trichloroethene in Groundwater
Shallow Gaspur Aquifer
May 2017

G:\ArcGIS\EPA\Jervis_Webb\PROJECTS\RI_Report_2018\TCE_Contours_Shallow_Gaspur.mxd 3/4/2019 EANDERSON, Gilbane

Appendix A-3

Cooper Drum Site Groundwater Contour Maps, 2000 and 2007 (URS, 2002, 2007) and Pre-RI Soil Analytical Results Summary Table (Bechtel, 1997)

N
W E
S

0' 50' 100'

SCALE IN FEET

LEGEND

- ON-SITE GROUNDWATER MONITORING WELL LOCATION (MW-1 through MW-5).
- GROUNDWATER EXTRACTION WELL LOCATION.
- OFF-SITE GROUNDWATER MONITORING WELL LOCATION (MW-8, MW-10, MW-12, MW-14 and MW-15 THROUGH MW-19)
- • WELLS MW16 AND MW-18 COMPLETED IN DEEPER EXPOSITION AQUIFER WERE NOT USED FOR CONTOURING.
- •• WELL MW-5 COMPLETED IN PERCHED ZONE AND SHALLOW AQUIFER WAS NOT USED FOR CONTOURING
- NM NOT MEASURED
- ESTIMATED GROUNDWATER FLOW DIRECTION
- 58.0 GROUNDWATER SURFACE ELEVATION CONTOUR. DASHED AND QUERIED WHERE INFERRED.

MW-3 59.58

MW-19 58.14

MW-2 57.64

EW-2 57.77

MW-5** 68.67

EW-1 57.59

MW-17 57.62

MW-12 NM

MW-1 59.86

MW-18* 53.06

MW-4 57.59

MW-8 57.91

MW-10 57.46

MW-15 57.17

MW-16* 54.26

MW-14 NM

59.5

59.0

58.5

58.0

57.5

57.0

? ? ?

2 STY. WOOD STORAGE BUILDING

ROOF COVERED AREA

SHED

SHED

PP

PP

STORAGE/SHIPPING

MACHINE ROOM

BOILER PAD

ROOF OVERHANG

HARD WASH AREA

DOCK

DRUM PROCESSING BLDG.

FENCE

BLOCKWALL

PP

FORMER TWEEDY SCHOOL

BLDG 6

BLDG 7

PATIO

OVERHANG

PATIO

BLDG 5

PATIO

BLDG 4

OVERHANG

PATIO

BLDG 3

OVERHANG

BLDG 2

OVERHANG

BLDG 1

ELECT. TRANS.

SOUTHERN AVENUE

CURB LINE

PT "A"

FENCE

ELG METALS BLDG
9400 RAYO AVENUE

CEE SPORTSWEAR BLDG
9430 RAYO AVE.

SEAM MASTER INDUSTRIES
CAMPUS
5221 SOUTHERN AVENUE

URS
2520 VENTURE OAKS WAY, SUITE 250
SACRAMENTO, CA 95833-3200

Cooper Drum Company
South Gate, California

FIGURE 3-2
Groundwater Elevations
December 14, 2000

Cooper les 020314F03-02_GWAR-20001214.DWG May 09, 2002

PLOT BY: DAVID_LARSON - Sep 18, 2007 - 10:51:09am

XREFS: ..\2007\0404\NEW-BACKGRD2.dwg IMAGES: cooper drum.jpg

DRAWING: Don-071607-FIG-8-GWGRAD.dwg

DRAWING: J:\Cooper Drum\CADD\From Others\URS-Chico\09182007\

CORVAL STREET (ALLEY WAY)

ATLANTIC AVENUE

SOUTHERN AVENUE

FORMER TWEEDY SCHOOL

DRUM PROCESSING BLDG.

STORAGE/SHIPPING

OFFICE

WAREHOUSE

HARD WASH AREA

FORMER HARD WASH AREA

2 STY WOOD STORAGE BUILDING

SHED

ROOF OVERHANG

BLOCKWALL

FENCE

CHAIN LINK FENCE

CURB LINE

CENTERLINE

DOCK

MACHINE ROOM

BOILER PAD

TANK

SUMP

PUMP

PP

BLDG 1

BLDG 2

BLDG 3

BLDG4

BLDG 5

BLDG 6

PATIO

OVERHANG

CATCH BASIN

ELECT. TRANS.

ELG METALS BLDG

BIMBO BAKERY

SEAM MASTER INDUSTRIES CAMPUS
5221 SOUTHERN AVENUE

RAYO AVE.

ADELA AVE.

ALLEY

SOUTHERN AVE.

(58.03) MW-3

MW-19 (56.39)

MW-23 (56.33)

MW-2 (56.07)

EW-2 (56.47)

MW-21 (56.09)

MW-5 (68.05)*

EW-1 (55.96)

MW-17 (56.10)

(NM) MW-12

MW-18 (51.14)*

MW-1 (NM)

MW-4 (NM)

MW-33A (55.86)

MW-20 (55.92)

MW-8 (56.25)

MW-10 (55.88)

MW-22 (55.81)

(55.71) MW-15

MW-16 (52.42)*

(NM)* MW-14

MW-24 (55.41)

MW-25 (55.34)

MW-26 (51.06)*

(50.91)* MW-32

MW-31 (55.22)

(54.80)* MW-28

MW-30 (54.48)*

MW-29 (55.12)

MW-27 (55.10)

[58.00] [57.80] [57.60] [57.40] [57.20] [57.00] [56.80] [56.60] [56.40] [56.20] [56.00] [55.80] [55.60] [55.40] [55.20]

LEGEND

- ON-SITE GROUNDWATER MONITORING WELL LOCATION (MW-1 through MW-5, and MW-21)
- OFF-SITE GROUNDWATER MONITORING WELL LOCATION COMPLETED IN SHALLOW AQUIFER (MW-8, MW-10, MW-12, MW-14, MW-15, MW-17, MW-19, MW-20, MW-22 THROUGH MW-25, and MW-27 THROUGH MW-31 AND MW-33A)
- OFF-SITE GROUNDWATER MONITORING WELL LOCATION COMPLETED IN DEEPER AQUIFER (MW-16, MW-18, MW-26, and MW-32)
- GROUNDWATER EXTRACTION WELL LOCATION
- (55.41) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- [57.00] GROUNDWATER ELEVATION CONTOUR
- NM NOT MEASURED
- * NOT USED IN CONTOURING
- GROUNDWATER FLOW DIRECTION

N W E S

120 60 0 120 240

SCALE IN FEET

URS
2870 Gateway Oaks Dr., Ste. 150
Sacramento, CA 95833-3200
TEL: (916) 679-2090
FAX: (916) 679-2900

Cooper Drum Company
South Gate, California

FIGURE 8
Groundwater Elevations
FEBRUARY, 2007

Table 2-1

PREVIOUS ONSITE SOIL DATA SUMMARY

COMPOUND	MIN. CONC. (mg/kg)	MAX. CONC. (mg/kg)	# SAMPLES ANALYZED	# SAMPLES IN WHICH DETECTED	FREQUENCY DETECTED (%)	ACTION LEVELS RESIDENTIAL PRG (mg/kg)	ACTION LEVELS INDUSTRIAL PRG (mg/kg)	MAXIMUM CONCENTRATION > RESIDENTIAL PRG	MAXIMUM CONCENTRATION > INDUSTRIAL PRG
Volatile Organic Compounds									
1,1,1-Trichloroethane	0.002	13.4	98	9	9	3,000	3,000	No	No
1,1,2-Trichloroethane	0.012	0.072	97	2	2	1.4	3.3	No	No
1,1-Dichloroethane	0.003	0.042	97	9	9	842	3,000	No	No
1,1-Dichloroethene	0.007	1.81	97	3	3	0.038	0.082	**Yes**	**Yes**
1,2-Dichloroethane	0.007	0.071	97	4	4	0.44	0.98	No	No
cis-1,2-Dichloroethene	0.0013	0.19	14	3	21	59	200	No	No
1,2-Dichloroethene (Total)	0.019	0.019	6	1	17	75	270	No	No
1,2-Dichloropropane	0.005	0.026	97	2	2	0.68	1.5	No	No
2-Butanone (MEK)	0.003	23.38	97	53	55	8,700	34,000	No	No
2-Hexanone (MIBK)	1.1	5.295	97	3	3	5,200	54,000	No	No
2-Propanol	0.899	10.1	24	7	29	NL	NL	NL	NL
4-Methyl-2-pentanone	0.002	8.9	98	29	30	NL	NL	NL	NL
Acetone	0.021	76.6	98	60	61	2,000	8,400	No	No
Benzene	0.024	1.28	97	2	2	1.4	3.2	No	No
Carbon Disulfide	4.875	4.875	97	1	1	16	52	No	No
Chlorobenzene	0.3	0.955	98	3	3	160	570	No	No
Chloroform	0.003	0.8	97	3	3	0.53	1.1	**Yes**	No
Ethanol	0.83	1.633	2	2	100	NL	NL	NL	NL
Ethylbenzene	0.008	9.1	98	8	8	690	690	No	No
Hexane	5.81	5.81	1	1	100	290	340	No	No
Methyl Cyclopentane	3.26	3.26	1	1	100	NL	NL	NL	NL
Methylene Chloride	0.015	6.8	98	8	8	11	25	No	No
o-Xylene	0.006	2.05	5	5	100	990	990	No	No
Pentane	0.01	2.64	4	4	100	NL	NL	NL	NL
Styrene	2.035	3.126	97	2	2	2,200	2,200	No	No
Tetrachloroethene	0.007	1,586.5	112	53	47	7	25	**Yes**	**Yes**

Table 2-1

PREVIOUS ONSITE SOIL DATA SUMMARY

COMPOUND	MIN. CONC. (mg/kg)	MAX. CONC. (mg/kg)	# SAMPLES ANALYZED	# SAMPLES IN WHICH DETECTED	FREQUENCY DETECTED (%)	ACTION LEVELS RESIDENTIAL PRG (mg/kg)	ACTION LEVELS INDUSTRIAL PRG (mg/kg)	MAXIMUM CONCENTRATION > RESIDENTIAL PRG	MAXIMUM CONCENTRATION > INDUSTRIAL PRG
Volatile Organic Compounds (cont'd)									
Toluene	0.003	2.94	99	17	17	1,900	2,800	No	No
Trichloroethane (total)	0.059	18	16	3	19	1.4	3.3	**Yes**	**Yes**
Trichloroethene	0.0012	36.4	112	21	19	7.1	17	**Yes**	**Yes**
Vinyl Acetate	5.69	5.69	97	1	1	65,000	100,000	No	No
Semi-Volatile Organic Compounds									
2,4-Dimethylphenol	1.45	1.45	53	1	2	1,300	14,000	No	No
2-Methylnaphthalene	9.77	9.77	53	1	2	NL	NL	NL	NL
2-Methylphenol	0.467	14.09	53	17	32	3,300	34,000	No	No
4-Methylphenol	0.384	4.59	53	15	28	330	3,400	No	No
Benzoic acid	2.26	5.45	53	2	4	100,000	100,000	No	No
bis (2-Chloroethyl) ether	5.31	5.31	50	1	2	0.074	0.17	**Yes**	**Yes**
bis(2-Ethylhexyl)phthalate	19.8	19.8	3	1	33	32	140	No	No
Dibutyl phthalate	30	30	1	1	100	6,500	68,000	No	No
Diethyl phthalate	1.8	1.8	54	1	2	52,000	100,000	No	No
Naphthalene	0.447	3.33	54	3	6	NL	NL	NL	NL
Phenol	0.35	18.25	53	19	36	39,000	100,000	No	No
Total Xylenes	0.16	28	98	17	17	990	990	No	No
Pesticides and PCBs									
4,4'-DDE	0.0009	0.0009	16	1	6	1.3	5.6	No	No
4,4'-DDT	0.002	0.002	16	1	6	1.3	5.6	No	No
PCB-1260	0.024	31.3	29	10	34	0.066	0.34	**Yes**	**Yes**

Table 2-1

PREVIOUS ONSITE SOIL DATA SUMMARY

COMPOUND	MIN. CONC. (mg/kg)	MAX. CONC. (mg/kg)	# SAMPLES ANALYZED	# SAMPLES IN WHICH DETECTED	FREQUENCY DETECTED (%)	ACTION LEVELS RESIDENTIAL PRG (mg/kg)	ACTION LEVELS INDUSTRIAL PRG (mg/kg)	MAXIMUM CONCENTRATION > RESIDENTIAL PRG	MAXIMUM CONCENTRATION > INDUSTRIAL PRG
Metals									
Antimony	12.9	13.3	2	2	100	31	680	No	No
Arsenic	0.59	12.5	28	15	54	0.38 (ca)	2.4	**Yes**	**Yes**
Barium	85.7	190	13	13	100	5,300	100,000	No	No
Beryllium	0.46	0.98	15	15	100	0.14	1.1	**Yes**	No
Cadmium	0.46	0.84	28	3	11	38	850	No	No
Total Chromium	9.4	30	28	28	100	210	450	No	No
Copper	13.5	84.3	28	28	100	2,800	63,000	No	No
Lead	2.28	163	28	19	68	130 (CA)	1,000	**Yes**	No
Mercury	0.014	0.167	28	24	86	23 (1)	510 (1)	No	No
Nickel	7.1	166	28	28	100	150 (CA)	34,000	**Yes**	No
Silver	8.26	18	15	15	100	380	8,500	No	No
Thallium	0.11	0.16	2	2	100	5.4 (2)	120 (2)	No	No
Zinc	43.5	2,494	28	28	100	23,000	100,000	No	No
TPH									
Total Petroleum Hydrocarbons	0.045	36,000	57	21	37	NL	NL	NL	NL

Notes:

NG = Chemical listed in source, but no PRG given
NL = Chemical not listed in source
PRGs = Preliminary Remediation Goals
(ca) = Cancer endpoint
(CA) = CAL-Modified PRG
(1) = No value is listed for elemental mercury. The value for mercuric chloride is shown.
(2) = No value is listed for elemental thallium. The value for thallic oxide is shown.
Table contains analytical results from soil samples taken on Tweedy property.
Source (PRGs): USEPA, 8/1/96. Region IX Preliminary Remediation Goals (PRGs) 1996.

Appendix A-4

Cooper Drum Site Monitoring Well Groundwater Analytical Results, 1998-2017 (Haley and Aldrich, 2017)

TABLE V
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-1	11/01/1998	Shallow/Intermediate	Primary	< 1	< 1	< 1	< 1	< 1	< 0.5	< 1	**0.4 J**	< 1	< 1	NA	NA
MW-1	10/01/2000	Shallow/Intermediate	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.7**	< 0.5	< 0.5	NA	NA
MW-1	01/01/2004	Shallow/Intermediate	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.3**	< 0.5	< 0.5	NA	NA
MW-1	04/01/2004	Shallow/Intermediate	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.2 J**	< 0.5	< 0.5	< 0.5	NA	NA
MW-1	11/01/2004	Shallow/Intermediate	Primary	< 0.5	**0.27 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.8**	< 0.5	< 0.5	**1.7**	NA
MW-1	08/01/2006	Shallow/Intermediate	Primary	< 0.5	**0.39 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.6**	< 0.5	< 0.5	**1.7**	NA
MW-1	03/01/2008	Shallow/Intermediate	Primary	< 0.5	**0.55**	**0.28 J**	< 0.5	< 0.5	< 0.5	**0.22 J**	**2.4**	< 0.5	< 0.5	**1.8 J**	NA
MW-1	05/13/2009	Shallow/Intermediate	Primary	< 0.5	**0.92**	**0.5 J**	< 0.5	< 0.5	< 0.5	**0.33 J**	**3.9 J**	< 0.5	< 0.5	< 2	NA
MW-1	06/14/2011	Shallow/Intermediate	Primary	< 0.5	**1.5**	**2.2**	< 0.5	< 0.5	< 0.5	< 0.5	**2.1**	< 0.5	< 0.5	**7.9**	< 0.5
MW-1	12/08/2011	Shallow/Intermediate	Primary	< 0.5	**2.9**	**2.5**	< 0.5	< 0.5	< 0.5	< 0.5	**2.6**	< 0.5	< 0.5	**17 J**	< 0.5
MW-1	06/08/2012	Shallow/Intermediate	Primary	< 0.5	**2.5**	**2.1**	< 0.5	< 0.5	< 0.5	< 0.5	**1.8**	< 0.5	< 0.5	**13 J**	< 0.5
MW-1	12/12/2012	Shallow/Intermediate	Primary	< 0.5	**3.5**	**2.4**	< 0.5	< 0.5	< 0.5	< 0.5	**1.6**	< 0.5	< 0.5	**9**	< 0.5
MW-1	06/18/2013	Shallow/Intermediate	Primary	< 0.5	**5.6**	**3.2**	**0.59**	**0.7**	< 0.5	**0.3 J**	**1.6**	< 0.2	< 0.5	**9.2**	< 0.3
MW-1	12/12/2013	Shallow/Intermediate	Primary	< 0.5	**11**	**4.3**	**0.74**	**0.98**	< 0.5	**0.36 J**	**2**	< 0.2	< 0.5	**12**	< 0.3
MW-1	06/12/2014	Shallow/Intermediate	Primary	< 0.5	**9.2**	**3.5**	**0.58**	**0.64**	< 0.5	< 0.2	**1.2**	< 0.2	< 0.5	**12**	< 0.3
MW-1	12/16/2014	Shallow/Intermediate	Primary	< 0.5	**6.3**	**2.6**	< 0.3	< 0.4	< 0.5	< 0.2	**0.96**	< 0.2	< 0.5	**11**	< 0.3
MW-1	12/16/2014	Shallow/Intermediate	Duplicate	< 0.5	**6.2**	**2.5**	< 0.3	< 0.4	< 0.5	< 0.2	**1**	< 0.2	< 0.5	**11**	< 0.3
MW-1	06/10/2015	Shallow/Intermediate	Primary	< 0.5	**11**	**3.6**	**0.51**	**0.57**	< 0.5	< 0.2	**1.8**	< 0.2	< 0.5	**12**	< 0.3
MW-1	12/10/2015	Shallow/Intermediate	Primary	< 0.5	**8**	**2.2**	< 0.3	< 0.4	< 0.5	< 0.2	**0.86**	< 0.2	< 0.5	**8.2**	< 0.3
MW-1	06/07/2016	Shallow/Intermediate	Primary	< 0.5	**8.2**	**3.5**	**0.75**	**0.4 J**	< 0.5	< 0.2	**0.93**	< 0.2	< 0.5	**10**	< 0.3
MW-1	12/02/2016	Shallow/Intermediate	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**6.7**	< 0.3
MW-1	06/06/2017	Shallow/Intermediate	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**8.4**	< 0.3
MW-2A	06/13/2011	Shallow Gaspur	Primary	< 2	**170**	**350**	**7.3**	**14**	**4.6**	**41**	**6.4**	**2.8**	**5**	**32**	< 2
MW-2A	09/26/2011	Shallow Gaspur	Primary	< 0.5	**150**	**260**	**6**	**14 J**	**29 J**	**35**	**9.2**	**3.2**	< 0.5	**13 J**	< 0.5
MW-2A	09/26/2011	Shallow Gaspur	Duplicate	< 2.5	**120**	**240**	**4.3**	**10 J**	**18 J**	**28**	**7.1**	< 2.5	< 2.5	**44 J**	< 2.5
MW-2A	12/07/2011	Shallow Gaspur	Primary	< 2	**84**	**260**	**3.8**	**14**	**39**	**53**	**11**	**3.5**	**5.4**	**42 J**	< 2
MW-2A	03/28/2012	Shallow Gaspur	Primary	< 0.5	**100**	**240**	**3.9**	**17**	**63**	**57**	**14**	**4.5**	< 0.5	**49**	< 0.5
MW-2A	06/13/2012	Shallow Gaspur	Primary	< 2	**93**	**240**	**2.8**	**16**	**65**	**59**	**16**	**5.4**	**5.4**	**83**	< 2
MW-2A	12/14/2012	Shallow Gaspur	Primary	< 0.5	**56**	**230**	**3.8**	**13**	**61**	**46**	**9.9**	**4.2**	< 0.5	**52 J**	< 0.5
MW-2A	06/20/2013	Shallow Gaspur	Primary	< 0.5	**52**	**380**	**5.6**	**15**	**30**	**37**	**5.5**	**2.6**	**3.7**	**20**	< 0.3
MW-2A	12/13/2013	Shallow Gaspur	Primary	< 5	**46**	**320**	< 3	**15**	**37**	**29**	**7.3**	< 2	< 5	**16**	< 3
MW-2A	06/12/2014	Shallow Gaspur	Primary	< 1	**38**	**230**	**4.4**	**9.4**	**11**	**15**	**2**	**1.8**	< 1	**11**	< 0.6
MW-2A	12/18/2014	Shallow Gaspur	Primary	< 1	**29**	**190**	**4.3**	**8.8**	**8.9**	**12**	**1.1**	**1.6**	< 1	**9.1**	< 0.6
MW-2A	06/08/2015	Shallow Gaspur	Primary	< 0.5	**35**	**150**	**4**	**8.4**	**6.4**	**11**	**1.2**	**1.9**	**2.9**	**6.3**	< 0.3
MW-2A	12/11/2015	Shallow Gaspur	Primary	< 0.5	**29**	**310**	**6.3**	**14**	**12**	**18**	**1.7**	**2.9**	**3.4**	**6.6**	< 0.3
MW-2A	06/08/2016	Shallow Gaspur	Primary	< 0.5	**49**	**190**	**7.9**	**11**	**4.3**	**12**	**1.2**	**4**	< 0.5	**4.6**	< 0.3
MW-2B	06/13/2011	Shallow Gaspur	Primary	< 0.5	**12**	**20**	**2.9**	**0.99**	**1.2**	**2.5**	**0.68**	**2.1**	< 0.5	**13**	< 0.5
MW-2B	09/26/2011	Shallow Gaspur	Primary	< 0.5	**11**	**27**	**1.6**	**0.89**	**1.4**	**3.3**	**1**	**1.3**	< 0.5	**14**	< 0.5
MW-2B	12/08/2011	Shallow Gaspur	Primary	< 0.5	**17**	**27**	**1.6**	**1.2**	**2.9**	**3.5**	**1.3**	**1.7**	< 0.5	**15 J**	< 0.5
MW-2B	03/27/2012	Shallow Gaspur	Primary	< 0.5	**12**	**35**	**2.1**	**1.6**	**4.1**	**4.1**	**1.5**	**1.7**	< 0.5	**16 J**	< 0.5
MW-2B	06/13/2012	Shallow Gaspur	Primary	< 0.5	**1.5**	**33**	**2.2**	**1**	**4.2**	**3.5**	**1.5**	**1.8**	< 0.5	**19**	< 0.5
MW-2B	12/14/2012	Shallow Gaspur	Primary	< 0.5	**4.9**	**26**	**2.3**	**0.95**	**1.8**	**2.9**	**0.91**	**2.4**	< 0.5	**17**	< 0.5
MW-2B	06/20/2013	Shallow Gaspur	Primary	< 0.5	**1.1**	**6.8**	**2.5**	**0.4 J**	**0.78**	**0.7**	< 0.3	**4.2**	< 0.5	**11**	< 0.3
MW-2B	12/13/2013	Shallow Gaspur	Primary	< 0.5	**0.93**	**5.3**	**2.7**	< 0.4	< 0.5	< 0.2	< 0.3	**2.1**	< 0.5	**15**	< 0.3
MW-2B	12/13/2013	Shallow Gaspur	Duplicate	< 0.5	**0.84**	**4.4**	**2.5**	< 0.4	< 0.5	< 0.2	< 0.3	**2.3**	< 0.5	**15**	< 0.3
MW-2B	06/12/2014	Shallow Gaspur	Primary	< 0.5	**0.42 J**	**3.1**	**2.7**	< 0.4	< 0.5	**0.34 J**	< 0.3	**2.3**	< 0.5	**15**	< 0.3
MW-2B	12/18/2014	Shallow Gaspur	Primary	< 0.5	**1.1**	**19**	**2.9**	**0.8**	**0.66**	**1.3**	< 0.3	**2.4**	< 0.5	**15**	< 0.3
MW-2B	06/09/2015	Shallow Gaspur	Primary	< 0.5	**0.61 J**	**11**	**4.6**	**0.52**	**2.2**	**1.2**	**0.53**	**3.2**	< 0.5	**18**	< 0.3

TABLE V
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-2B	06/09/2015	Shallow Gaspur	Duplicate	< 0.5	**0.93 J**	**9.3**	**3.8**	**0.42 J**	**1.8**	**1**	**0.43 J**	**2.6**	< 0.5	**18**	< 0.3
MW-2B	12/11/2015	Shallow Gaspur	Primary	< 0.5	**0.57**	**16**	**3.9**	**0.58**	**1.6**	**1.2**	< 0.3	**4.5**	< 0.5	**13**	< 0.3
MW-2B	06/09/2016	Shallow Gaspur	Primary	< 0.5	**0.58**	**9.7**	**5**	**0.49 J**	**2.1**	**0.92**	**0.41 J**	**5.4**	< 0.5	**9.4**	< 0.3
MW-2B	12/01/2016	Shallow Gaspur	Primary	< 0.5	**0.44 J**	**7.7**	**2.8**	< 0.4	**2**	**0.66**	< 0.3	**4.5**	< 0.5	**12**	< 0.3
MW-2B	12/01/2016	Shallow Gaspur	Duplicate	< 0.5	**0.39 J**	**8.1**	**3.1**	**0.55**	**2.2**	**0.78**	< 0.3	**4.8**	< 0.5	**11**	< 0.3
MW-2B	06/06/2017	Shallow Gaspur	Primary	< 0.5	< 0.2	**0.88**	**1**	< 0.4	< 0.5	< 0.2	< 0.3	**0.93**	< 0.5	**1.2 J**	< 0.3
MW-2C	06/13/2011	Intermediate Gaspur	Primary	< 0.5	**1.1**	**2.6**	< 0.5	< 0.5	< 0.5	< 0.5	**2.7**	< 0.5	< 0.5	< 4	< 0.5
MW-2C	09/27/2011	Intermediate Gaspur	Primary	< 0.5	**4.7**	**4.1**	< 0.5	< 0.5	< 0.5	< 0.5	**2.8**	< 0.5	< 0.5	< 1.1 J	< 0.5
MW-2C	12/08/2011	Intermediate Gaspur	Primary	< 0.5	**0.75**	**1.5**	< 0.5	< 0.5	< 0.5	< 0.5	**2.8**	< 0.5	< 0.5	< 0.95	< 0.5
MW-2C	03/26/2012	Intermediate Gaspur	Primary	< 0.5	**0.89**	**1.7**	< 0.5	< 0.5	< 0.5	< 0.5	**2.8**	< 0.5	< 0.5	< 0.94 J	< 0.5
MW-2C	06/13/2012	Intermediate Gaspur	Primary	< 0.5	**0.81**	**1.6**	< 0.5	< 0.5	< 0.5	< 0.5	**2.7**	< 0.5	< 0.5	< 1	< 0.5
MW-2C	12/13/2012	Intermediate Gaspur	Primary	< 0.5	< 0.5	**1.9**	< 0.5	< 0.5	< 0.5	< 0.5	**1.9**	< 0.5	< 0.5	< 0.95	< 0.5
MW-2C	06/20/2013	Intermediate Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**1.6**	< 0.2	< 0.5	< 1	< 0.3
MW-2C	12/13/2013	Intermediate Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**2.4**	< 0.2	< 0.5	< 1	< 0.3
MW-2C	06/12/2014	Intermediate Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**1.7**	< 0.2	< 0.5	**1.1 J**	< 0.3
MW-2C	12/18/2014	Intermediate Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**1.4**	< 0.2	< 0.5	< 1	< 0.3
MW-2C	06/09/2015	Intermediate Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**2.5**	< 0.2	< 0.5	< 1	< 0.3
MW-2C	12/11/2015	Intermediate Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**1.7**	< 0.2	< 0.5	< 1	< 0.3
MW-2C	12/11/2015	Intermediate Gaspur	Duplicate	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**1.8**	< 0.2	< 0.5	< 1	< 0.3
MW-2C	06/09/2016	Intermediate Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**2**	< 0.2	< 0.5	< 1	< 0.3
MW-2C	12/01/2016	Intermediate Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**1.8**	< 0.2	< 0.5	**1 J**	< 0.3
MW-2C	06/06/2017	Intermediate Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-4	11/01/1998	Shallow/Intermediate	Primary	< 1	**8**	**14**	**2**	**0.9 J**	**0.9**	**1**	**0.5**	< 1	< 1	NA	NA
MW-4	10/01/2000	Shallow/Intermediate	Primary	< 0.5	**6**	**15**	**2**	**1**	**1**	**4**	**1**	< 0.5	**0.3 J**	NA	NA
MW-4	03/01/2003	Shallow/Intermediate	Primary	< 1	**12**	**38**	**7**	**2**	**2**	**8**	**3**	< 1	< 1	NA	NA
MW-4	01/01/2004	Shallow/Intermediate	Primary	< 0.5	**6.8**	**23**	**2.6**	**0.93**	**0.86**	**3.7**	**1.3**	**0.23 J**	< 0.5	NA	NA
MW-4	11/01/2004	Shallow/Intermediate	Primary	< 0.5	**15**	**30 D**	**6.8**	**3**	**5**	**8.4**	< 0.5	**0.42 J**	< 0.5	**12**	NA
MW-4	08/01/2006	Shallow/Intermediate	Primary	< 0.5	**11**	**24 D**	**3.7**	**2**	**1.3**	**8.8**	**2.8**	< 0.5	**0.67**	**15**	NA
MW-4	03/01/2008	Shallow/Intermediate	Primary	< 0.5	**8.4**	**19 D**	**2.8**	**1.8**	**1.5**	**8.5**	**3.6**	**0.33 J**	< 0.5	**15**	NA
MW-4	05/13/2009	Shallow/Intermediate	Primary	< 0.5	**9.5**	**20**	**2.6**	**1.4**	< 0.5	**9.4**	**4.5**	**0.31 J**	**0.41 J**	**13**	NA
MW-4	06/15/2011	Shallow/Intermediate	Primary	< 0.5	**6.7**	**17**	**1.9**	**1.4**	**1**	**17**	**6.2**	< 0.5	< 0.5	**35**	< 0.5
MW-4	12/08/2011	Shallow/Intermediate	Primary	< 0.5	**8.3**	**14**	**1.5**	**1.2**	**1**	**17**	**6**	< 0.5	< 0.5	**26**	< 0.5
MW-4	06/07/2012	Shallow/Intermediate	Primary	< 0.5	**7.9**	**13**	**1.8**	**1.2**	**0.93**	**17**	**5.1**	< 0.5	< 0.5	**19 J**	< 0.5
MW-4	12/11/2012	Shallow/Intermediate	Primary	< 0.5	**5.3**	**10**	**0.78**	**0.82**	< 0.5	**14**	**5.4**	< 0.5	< 0.5	**40 J**	< 0.5
MW-4	06/17/2013	Shallow/Intermediate	Primary	< 0.5	**1.6**	**7.4**	**0.42 J**	**0.53**	< 0.5	**11**	**2.4**	< 0.2	< 0.5	**29**	< 0.3
MW-4	12/12/2013	Shallow/Intermediate	Primary	< 0.5	**0.4 J**	**2.5**	< 0.3	< 0.4	< 0.5	**1**	< 0.3	< 0.2	< 0.5	**29**	< 0.3
MW-4	06/12/2014	Shallow/Intermediate	Primary	< 0.5	**0.31 J**	**2.2**	< 0.3	< 0.4	< 0.5	**1.2**	**0.57**	< 0.2	< 0.5	**31**	< 0.3
MW-4	12/19/2014	Shallow/Intermediate	Primary	< 0.5	**0.38 J**	**2.6**	< 0.3	< 0.4	< 0.5	**2**	**0.6**	< 0.2	< 0.5	**29**	< 0.3
MW-4	06/11/2015	Shallow/Intermediate	Primary	< 0.5	**0.52**	**2.3**	< 0.3	< 0.4	< 0.5	**2.4**	**1 J**	< 0.2	< 0.5	**31**	< 0.3
MW-4	12/07/2015	Shallow/Intermediate	Primary	< 0.5	**0.39 J**	**5.5**	**0.55**	< 0.4	< 0.5	**3.1**	**0.77**	< 0.2	< 0.5	**16**	< 0.3
MW-4	06/10/2016	Shallow/Intermediate	Primary	< 0.5	< 0.2	**5.6**	< 0.3	< 0.4	< 0.5	**3.5**	**0.84**	< 0.2	< 0.5	**15**	< 0.3
MW-4	12/02/2016	Shallow/Intermediate	Primary	< 0.5	**0.46 J**	**10**	**0.72**	**0.91**	**0.56**	**6.8**	**1.9**	< 0.2	< 0.5	**23**	< 0.3
MW-4	06/06/2017	Shallow/Intermediate	Primary	< 0.5	**0.4 J**	**8.9**	**1**	**0.7**	**0.91**	**6.5**	**1.4**	< 0.2	< 0.5	**23**	< 0.3
MW-4	06/06/2017	Shallow/Intermediate	Duplicate	< 0.5	**0.36 J**	**9.4**	**0.96**	**0.64**	**1.1**	**6.5**	**1.4**	< 0.2	< 0.5	**23**	< 0.3
MW-4B	06/14/2011	Intermediate Gaspur	Primary	< 0.5	**1.9**	**4.2**	< 0.5	**1**	< 0.5	< 0.5	**3.9**	< 0.5	< 0.5	< 3.6	< 0.5
MW-4B	09/26/2011	Intermediate Gaspur	Primary	< 0.5	**2.6**	**6.3**	< 0.5	**2**	< 0.5	< 0.5	**4.8**	**0.84**	< 0.5	< 0.94 J	< 0.5
MW-4B	12/06/2011	Intermediate Gaspur	Primary	< 0.5	**1.8**	**5.5**	< 0.5	**1.4**	< 0.5	< 0.5	**4.7**	< 0.5	< 0.5	< 0.95	< 0.5
MW-4B	12/06/2011	Intermediate Gaspur	Duplicate	< 0.5	**2**	**5.7**	< 0.5	**1.5**	< 0.5	< 0.5	**5.4**	< 0.5	< 0.5	< 0.95	< 0.5

TABLE V
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-4B	03/26/2012	Intermediate Gaspur	Primary	< 0.5	**1.2**	**8.4**	< 0.5	**2.3**	< 0.5	< 0.5	**5.7**	**0.66**	< 0.5	< 0.94 J	< 0.5
MW-4B	06/07/2012	Intermediate Gaspur	Primary	< 0.5	**0.84**	**5.5**	< 0.5	**1.2**	< 0.5	< 0.5	**4.3**	< 0.5	< 0.5	< 0.94	< 0.5
MW-4B	12/12/2012	Intermediate Gaspur	Primary	< 0.5	**0.56**	**9.4**	< 0.5	**2.6**	< 0.5	< 0.5	**4.5**	**0.73**	< 0.5	< 0.95	< 0.5
MW-4B	06/20/2013	Intermediate Gaspur	Primary	< 0.5	< 0.2	**12**	< 0.3	**4**	< 0.5	< 0.2	**4.1**	**1.1**	< 0.5	**1 J**	< 0.3
MW-4B	12/12/2013	Intermediate Gaspur	Primary	< 0.5	**0.38 J**	**28**	< 0.3	**7.9**	< 0.5	< 0.2	**3.3**	**4.2**	< 0.5	< 1	< 0.3
MW-4B	06/12/2014	Intermediate Gaspur	Primary	< 0.5	**1.4**	**33**	< 0.3	**9**	< 0.5	< 0.2	**2.6**	**5.6**	< 0.5	**1.1 J**	< 0.3
MW-4B	12/19/2014	Intermediate Gaspur	Primary	< 0.5	**1.4**	**26**	< 0.3	**7**	< 0.5	< 0.2	**1.4**	**5.2**	< 0.5	< 1	< 0.3
MW-4B	06/11/2015	Intermediate Gaspur	Primary	< 0.5	**1.6**	**31**	< 0.3	**9.1**	**0.87**	< 0.2	**3.1 J**	**7.8**	< 0.5	< 1	< 0.3
MW-4B	12/07/2015	Intermediate Gaspur	Primary	< 0.5	**1.2**	**32**	< 0.3	**9.7**	**2.3**	< 0.2	**2.2**	**7.1**	< 0.5	< 1	< 0.3
MW-4B	06/10/2016	Intermediate Gaspur	Primary	< 0.5	**1.2**	**36**	< 0.3	**11**	**1.6**	< 0.2	**2.7**	**6.2**	< 0.5	< 1	< 0.3
MW-4B	06/10/2016	Intermediate Gaspur	Duplicate	< 0.5	**1.1**	**39**	< 0.3	**12**	**1.6**	< 0.2	**3.6**	**6.8**	< 0.5	< 1	< 0.3
MW-4B	12/02/2016	Intermediate Gaspur	Primary	< 0.5	**1.3**	**45**	< 0.3	**14**	**2.3**	< 0.2	**3.7**	**5.7**	< 0.5	< 1	< 0.3
MW-4B	06/08/2017	Intermediate Gaspur	Primary	< 0.5	**0.52**	**8.8**	< 0.3	**2.8**	**0.91**	< 0.2	**1.8**	**1.6**	< 0.5	< 1	< 0.3
MW-15	12/01/2000	Intermediate Gaspur	Primary	**1**	**590**	**150**	**10**	**7**	**2.2**	**22**	**4.1**	**1**	**2**	NA	NA
MW-15	02/01/2001	Intermediate Gaspur	Primary	**2**	**700**	**170**	**10**	**6**	**2**	**20**	**3.7**	**1**	**2**	NA	NA
MW-15	05/01/2003	Intermediate Gaspur	Primary	< 10 *	**250**	**98**	**9 J**	**3 J**	< 10 *	**10 J**	**11**	< 10 *	< 10 *	NA	NA
MW-15	01/01/2004	Intermediate Gaspur	Primary	**0.3 J**	**360 D**	**160 D**	**6.7**	**6.5**	**1.2**	**14**	**14**	**0.85**	**4.1**	NA	NA
MW-15	07/01/2004	Intermediate Gaspur	Primary	< 0.5	**87 D**	**70 D**	**3.9**	**3.5**	**1.1**	**7.3**	**3.9**	**0.43 J**	**1.3**	**54**	NA
MW-15	08/01/2006	Intermediate Gaspur	Primary	< 0.5	**17**	**82 D**	**1.1**	**2.3**	< 0.5	**1.6**	**2.5**	**0.36 J**	< 0.5	**12**	NA
MW-15	03/01/2008	Intermediate Gaspur	Primary	< 0.5	**37 D**	**57 D**	**1.6**	**2.6**	**1.3**	**3.6**	**3.6**	**0.31 J**	< 0.5	**7.5**	NA
MW-15	05/13/2009	Intermediate Gaspur	Primary	< 0.5	**27 D**	**55 D**	**1.8**	**2**	**1.7 J**	**3.9**	**3.6**	**0.4 J**	< 0.5	**6**	NA
MW-15	07/15/2010	Intermediate Gaspur	Primary	< 0.5	**18**	**50**	**1.8**	**2.2**	**1.5 J**	**3.4 J**	**2.9**	**0.62**	**0.58**	**7.4 J**	< 0.5
MW-15	06/17/2013	Intermediate Gaspur	Primary	< 0.5	**0.36 J**	**30**	**0.59**	**3**	**0.9**	**1.1**	**1.8**	**3.8**	< 0.5	**6**	< 0.3
MW-15	12/11/2013	Intermediate Gaspur	Primary	< 0.5	< 0.2	**34**	**0.47 J**	**2.2**	< 0.5	**0.8**	**2.2**	**6.7**	< 0.5	**4.3**	< 0.3
MW-15	06/11/2014	Intermediate Gaspur	Primary	< 0.5	**0.38 J**	**28**	< 0.3	**1.7**	< 0.5	< 0.2	**1.6**	**3.4**	< 0.5	**3.6**	< 0.3
MW-15	12/19/2014	Intermediate Gaspur	Primary	< 0.5	**0.47 J**	**32**	< 0.3	**7.8**	< 0.5	< 0.2	**2**	**4.6**	< 0.5	**1 J**	< 0.3
MW-15	06/08/2015	Intermediate Gaspur	Primary	< 0.5	**0.5**	**30**	< 0.3	**9.8**	**0.75**	< 0.2	**4.4**	**5.1**	< 0.5	< 1	< 0.3
MW-15	12/07/2015	Intermediate Gaspur	Primary	< 0.5	**0.84**	**35**	< 0.3	**8.1**	**0.66**	**0.37 J**	**3.3**	**4.7**	< 0.5	< 1	< 0.3
MW-15	06/07/2016	Intermediate Gaspur	Primary	< 0.5	**2.6**	**52**	**0.82**	**3.7**	**0.81**	**0.87**	**2.1**	**2**	< 0.5	**1.7 J**	< 0.3
MW-15	06/07/2016	Intermediate Gaspur	Re-analyzed	< 0.5	**2.6**	**53**	**0.95**	**3.4**	**0.72**	**0.81**	**2.1**	**1.7**	< 0.5	NA	< 0.3
MW-15	11/30/2016	Intermediate Gaspur	Primary	< 0.5	< 0.2	**25**	< 0.3	**6.4**	**0.55**	< 0.2	**3.6**	**2.4**	< 0.5	**1.1 J**	< 0.3
MW-15	06/07/2017	Intermediate Gaspur	Primary	< 0.5	< 0.2	**27**	**0.35 J**	**2.9**	< 0.5	**0.54**	**2.6**	**2.8**	< 0.5	**2.7**	< 0.3
MW-15B	05/01/2009	Lower Gaspur	Primary	< 0.5	**32 D**	**120 D**	**1.7**	**4.1**	**8.2**	**13**	**4.5**	**0.64**	< 0.5	**17**	NA
MW-15B	07/14/2010	Lower Gaspur	Primary	< 0.5	**13**	**100**	**2.1**	**4.9**	**8.3**	**6.5**	**5.9**	< 0.5	**0.73**	**9.4 J**	< 0.5
MW-15B	07/14/2010	Lower Gaspur	Duplicate	< 0.5	**13**	**100**	**2**	**4.7**	**7.7**	**6.3**	**6**	< 0.5	**0.72**	**9 J**	< 0.5
MW-15B	06/15/2011	Lower Gaspur	Primary	< 0.5	**13**	**120**	**2.9**	**5.9**	**5.6**	**7.2**	**7**	**0.9**	**0.84**	**14**	< 0.5
MW-15B	12/07/2011	Lower Gaspur	Primary	< 1	**7.3**	**100**	**1.8**	**4.7**	**2.5**	**4.5**	**5.3**	**1.2**	< 1	**14**	< 1
MW-15B	06/08/2012	Lower Gaspur	Primary	< 0.5	**7**	**92**	**1.7**	**4.9**	**2.9**	**4**	**5.1**	**1.9**	**0.71**	**12 J**	< 0.5
MW-15B	12/12/2012	Lower Gaspur	Primary	< 0.5	**4.8**	**72**	**1.3**	**4**	**2.2**	**2.8**	**4.1**	**2.7**	**0.56**	**12**	< 0.5
MW-15B	06/18/2013	Lower Gaspur	Primary	< 0.5	< 0.2	**67**	**1.6**	**4.5**	**5.1**	**4.6**	**4.4**	**2.6**	< 0.5	**11**	< 0.3
MW-15B	06/18/2013	Lower Gaspur	Duplicate	< 0.5	< 0.2	**69**	**1.6**	**4.6**	**5.2**	**4.6**	**4.4**	**2.6**	< 0.5	**12**	< 0.3
MW-15B	12/12/2013	Lower Gaspur	Primary	< 0.5	**0.25 J**	**69**	**1.6**	**4**	**4.3**	**3.2**	**3.6**	**2.2**	< 0.5	**12**	< 0.3
MW-15B	06/11/2014	Lower Gaspur	Primary	< 0.5	< 0.2	**67**	**1.5**	**4**	**3.6**	**3.7**	**3.5**	**1.7**	< 0.5	**14**	< 0.3
MW-15B	06/11/2014	Lower Gaspur	Duplicate	< 0.5	< 0.2	**64**	**1.5**	**3.7**	**3.4**	**3.5**	**3.4**	**1.8**	< 0.5	**13**	< 0.3
MW-15B	12/18/2014	Lower Gaspur	Primary	< 0.5	**1.6**	**55**	**0.9**	**3.8**	**1.2**	**1.1**	**2.2**	**1.9**	< 0.5	**5**	< 0.3
MW-15B	06/09/2015	Lower Gaspur	Primary	< 0.5	**1.2**	**42**	**0.6**	**5**	**0.97**	**1.2**	**4.2**	**2.6**	< 0.5	**2.8**	< 0.3
MW-15B	12/08/2015	Lower Gaspur	Primary	< 0.5	**3.2**	**82**	**1.2**	**5.7**	**1.1**	**1.6**	**3.9**	**1.9**	< 0.5	< 1	< 0.3
MW-15B	06/07/2016	Lower Gaspur	Primary	< 0.5	< 0.2	**20**	**0.42 J**	**4**	< 0.5	**0.31 J**	**2.2**	**1.6**	< 0.5	< 1	< 0.3

TABLE V
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-15B	06/07/2016	Lower Gaspur	Re-analyzed	< 0.5	< 0.2	**21**	< 0.3	**4**	< 0.5	< 0.2	**2.6**	**1.9**	< 0.5	NA	< 0.3
MW-15B	11/30/2016	Lower Gaspur	Primary	< 0.5	**2.2**	**41**	**0.63**	**3.3**	**0.7**	**0.72**	**1.6**	**1.2**	< 0.5	< 1	< 0.3
MW-15B	11/30/2016	Lower Gaspur	Duplicate	< 0.5	**2**	**38**	**0.68**	**3.3**	**0.57**	**0.58**	**1.5**	**1**	< 0.5	< 1	< 0.3
MW-15B	06/06/2017	Lower Gaspur	Primary	< 0.5	**0.71**	**34**	**0.42 J**	**2.7**	**1.5**	**0.7**	**1.8**	**1.6**	< 0.5	**2.9**	< 0.3
MW-16	12/01/2000	Exposition	Primary	< 1	< 1	< 1	< 1	< 1	< 0.5	< 1	< 0.5	< 1	< 1	NA	NA
MW-16	02/01/2001	Exposition	Primary	< 1	< 1	< 1	< 1	< 1	< 0.5	< 1	< 0.5	< 1	< 1	NA	NA
MW-16	03/01/2003	Exposition	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.2 J**	< 0.5	< 0.5	NA	NA
MW-16	01/01/2004	Exposition	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA
MW-16	11/01/2004	Exposition	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	NA
MW-16	08/01/2006	Exposition	Primary	< 0.5	< 0.5	**0.25 J**	< 0.5	< 0.5	< 0.5	< 0.5	**0.58**	< 0.5	< 0.5	< 1	NA
MW-16	03/01/2008	Exposition	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.79**	< 0.5	< 0.5	< 2	NA
MW-16	05/13/2009	Exposition	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA
MW-16	06/14/2011	Exposition	Primary	< 0.5	< 0.5	**0.59**	< 0.5	< 0.5	< 0.5	< 0.5	**1.1**	< 0.5	< 0.5	< 3.6	< 0.5
MW-16	06/14/2011	Exposition	Duplicate	< 0.5	< 0.5	**0.58**	< 0.5	< 0.5	< 0.5	< 0.5	**1**	< 0.5	< 0.5	< 3.6	< 0.5
MW-16	12/05/2011	Exposition	Primary	< 0.5	< 0.5	**0.61**	< 0.5	< 0.5	< 0.5	< 0.5	**1.2**	< 0.5	< 0.5	< 0.94	< 0.5
MW-16	12/13/2012	Exposition	Primary	< 0.5	< 0.5	**1.2**	< 0.5	< 0.5	< 0.5	< 0.5	**1.1**	< 0.5	< 0.5	**1.1**	< 0.5
MW-16	12/13/2012	Exposition	Duplicate	< 0.5	< 0.5	**1.1**	< 0.5	< 0.5	< 0.5	< 0.5	**1.1**	< 0.5	< 0.5	**1.9**	< 0.5
MW-16	12/11/2013	Exposition	Primary	< 0.5	< 0.2	**2**	< 0.3	< 0.4	< 0.5	< 0.2	**1.1**	< 0.2	< 0.5	< 1	< 0.3
MW-16	12/19/2014	Exposition	Primary	< 0.5	< 0.2	**2**	< 0.3	< 0.4	< 0.5	< 0.2	**0.72**	< 0.2	< 0.5	< 1	< 0.3
MW-16	12/07/2015	Exposition	Primary	< 0.5	< 0.2	**2.4**	< 0.3	< 0.4	< 0.5	< 0.2	**1.1**	< 0.2	< 0.5	< 1	< 0.3
MW-16	06/07/2016	Exposition	Primary	< 0.5	< 0.2	**2.4**	< 0.3	< 0.4	< 0.5	< 0.2	**1.1**	< 0.2	< 0.5	< 1	< 0.3
MW-16	11/30/2016	Exposition	Primary	< 0.5	< 0.2	**2.7**	< 0.3	< 0.4	< 0.5	< 0.2	**0.96**	< 0.2	< 0.5	**1.3 J**	< 0.3
MW-16	06/06/2017	Exposition	Primary	< 0.5	< 0.2	**3.2**	< 0.3	< 0.4	< 0.5	< 0.2	**0.8**	< 0.2	< 0.5	**2.2**	< 0.3
MW-17	12/01/2000	Shallow Gaspur	Primary	< 1	**3**	**0.5 J**	< 1	< 1	< 0.5	**0.3 J**	< 1	< 1	< 1	NA	NA
MW-17	02/01/2001	Shallow Gaspur	Primary	< 1	< 1	< 1	< 1	< 1	< 0.5	< 0.5	< 1	< 1	< 1	NA	NA
MW-17	03/01/2003	Shallow Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.2 J**	< 0.5	< 0.5	NA	NA
MW-17	01/01/2004	Shallow Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA
MW-17	11/01/2004	Shallow Gaspur	Primary	< 0.5	**0.58**	**0.52**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.9**	NA
MW-17	08/01/2006	Shallow Gaspur	Primary	< 0.5	**1.7**	**2.1**	**0.34 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.7 J**	NA
MW-17	03/01/2008	Shallow Gaspur	Primary	< 0.5	< 0.5	**0.79**	< 0.5	< 0.5	< 0.5	**0.41 J**	**0.39 J**	< 0.5	< 0.5	< 1	NA
MW-17	05/12/2009	Shallow Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.2 J**	< 0.5	< 0.5	**1.5 J**	NA
MW-17	06/14/2011	Shallow Gaspur	Primary	< 0.5	**2.6**	**4.1**	**1.4**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 3.6	< 0.5
MW-17	12/06/2011	Shallow Gaspur	Primary	< 0.5	**2.3**	**3.9**	**1.9**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**9.6 J**	< 0.5
MW-17	06/07/2012	Shallow Gaspur	Primary	< 0.5	**1.4**	**2.1**	**1.4**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**9.5**	< 0.5
MW-17	12/12/2012	Shallow Gaspur	Primary	< 0.5	**1.9**	**3.6**	**1.1**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**9.1**	< 0.5
MW-17	12/12/2012	Shallow Gaspur	Duplicate	< 0.5	**1.8**	**3**	**0.97**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**10**	< 0.5
MW-17	06/18/2013	Shallow Gaspur	Primary	< 0.5	< 0.2	**1.4**	**0.53**	< 0.4	< 0.5	**0.93**	< 0.3	< 0.2	< 0.5	**4.3**	< 0.3
MW-17	12/12/2013	Shallow Gaspur	Primary	< 0.5	< 0.2	**2.6**	**0.7**	< 0.4	< 0.5	**0.83**	**0.77**	< 0.2	< 0.5	**5**	< 0.3
MW-17	06/11/2014	Shallow Gaspur	Primary	< 0.5	< 0.2	**2.4**	**0.35 J**	< 0.4	< 0.5	**0.31 J**	**0.57**	< 0.2	< 0.5	**4.3**	< 0.3
MW-17	12/16/2014	Shallow Gaspur	Primary	< 0.5	< 0.2	**3.6**	**0.55**	< 0.4	< 0.5	**0.5**	**0.64**	< 0.2	< 0.5	**4.8**	< 0.3
MW-17	06/09/2015	Shallow Gaspur	Primary	< 0.5	< 0.2	**3.1**	**0.57**	< 0.4	< 0.5	**0.49 J**	**1.3**	< 0.2	< 0.5	**3.4**	< 0.3
MW-17	12/09/2015	Shallow Gaspur	Primary	< 0.5	< 0.2	**2.6**	**0.48 J**	< 0.4	< 0.5	**0.36 J**	**0.76**	< 0.2	< 0.5	**1.9 J**	< 0.3
MW-17	06/09/2016	Shallow Gaspur	Primary	< 0.5	**2.4**	**5.6**	**2.2**	< 0.4	< 0.5	**1.1**	**0.86**	< 0.2	< 0.5	**4**	< 0.3
MW-17	06/09/2016	Shallow Gaspur	Duplicate	< 0.5	**2.3**	**5.6**	**2.3**	< 0.4	< 0.5	**1.2**	**0.93**	< 0.2	< 0.5	**4.3**	< 0.3
MW-17	12/01/2016	Shallow Gaspur	Primary	< 0.5	**3**	**4.2**	**1.8**	< 0.4	< 0.5	**1.2**	**0.56**	< 0.2	< 0.5	**8.1**	< 0.3
MW-17	06/06/2017	Shallow Gaspur	Primary	< 0.5	**4.9**	**3.3**	**2.4**	< 0.4	< 0.5	**0.8**	< 0.3	< 0.2	< 0.5	**8.7**	< 0.3
MW-18	12/01/2000	Exposition	Primary	< 1	< 1	**0.6 J**	< 1	< 1	< 0.5	< 1	**0.4 J**	< 1	< 1	NA	NA
MW-18	02/01/2001	Exposition	Primary	< 1	< 1	**0.5 J**	< 1	< 1	< 0.5	< 1	**0.3 J**	< 1	< 1	NA	NA

TABLE V
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-18	03/01/2003	Exposition	Primary	< 0.5	**0.2 J**	**0.8 J**	< 0.5	< 0.5	< 0.5	< 0.5	**0.2 J**	< 0.5	< 0.5	NA	NA
MW-18	01/01/2004	Exposition	Primary	< 0.5	**0.24 J**	**0.72**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA
MW-18	08/01/2006	Exposition	Primary	< 0.5	**0.57**	**0.96**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.9	NA
MW-18	03/01/2008	Exposition	Primary	< 0.5	**0.33 J**	**0.67**	< 0.5	< 0.5	< 0.5	< 0.5	**0.33 J**	< 0.5	< 0.5	< 2	NA
MW-18	05/12/2009	Exposition	Primary	< 0.5	**1.1**	**1.6**	**0.39 J**	< 0.5	< 0.5	**0.6**	**0.48 J**	< 0.5	< 0.5	< 2	NA
MW-18	06/14/2011	Exposition	Primary	< 0.5	< 0.5	**0.83**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 3.6	< 0.5
MW-18	12/05/2011	Exposition	Primary	< 0.5	< 0.5	**0.89**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.94	< 0.5
MW-18	12/11/2012	Exposition	Primary	< 0.5	< 0.5	**0.99**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.94 J	< 0.5
MW-18	12/12/2013	Exposition	Primary	< 0.5	< 0.2	**1.3**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-18	12/16/2014	Exposition	Primary	< 0.5	< 0.2	**1.4**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-18	12/09/2015	Exposition	Primary	< 0.5	< 0.2	**1.6**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-18	12/09/2015	Exposition	Duplicate	< 0.5	< 0.2	**1.8**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-18	12/01/2016	Exposition	Primary	< 0.5	< 0.2	**1.8**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-18	06/07/2017	Exposition	Primary	< 0.5	< 0.2	**2.1**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**1.8 J**	< 0.3
MW-19	12/01/2000	Shallow Gaspur	Primary	< 1	**6700**	**45**	**18**	**9**	**1.2**	**31**	**12**	**1**	< 1	NA	NA
MW-19	02/01/2001	Shallow Gaspur	Primary	< 1	**5700**	**33**	**16**	**8**	**1**	**29**	**9.7**	**1**	< 1	NA	NA
MW-19	05/01/2003	Shallow Gaspur	Primary	< 50 *	**1000**	< 50 *	< 50 *	< 50 *	< 50 *	< 50 *	**39 J**	< 50 *	< 50 *	NA	NA
MW-19	01/01/2004	Shallow Gaspur	Primary	< 0.5	**450 D**	**11**	**2.8 J**	**1.5**	**0.19 J**	**3**	**34 D**	< 0.5	< 0.5	NA	NA
MW-19	07/01/2004	Shallow Gaspur	Primary	< 0.5	**99 D**	**4.5**	**1.6 J**	**0.65**	**0.25 J**	**0.77**	**33 D**	< 0.5	< 0.5	**17**	NA
MW-19	08/01/2006	Shallow Gaspur	Primary	< 0.5	**94 D**	**13**	**1.1**	**1.6**	< 0.5	**0.96**	**23**	< 0.5	< 0.5	**3.7**	NA
MW-19	03/01/2008	Shallow Gaspur	Primary	< 0.5	**42 D**	**15**	**0.73**	**1.6**	**0.31 J**	**0.56**	**14**	< 0.5	< 0.5	**3.3**	NA
MW-19	05/19/2009	Shallow Gaspur	Primary	< 0.5	**36 D**	**21 D**	< 0.5 J	**1.3 J**	< 0.5	**0.38 J**	**8.2**	< 0.5	< 0.5	**2.8**	NA
MW-19	06/15/2011	Shallow Gaspur	Primary	< 0.5	**11**	**29**	< 0.5	**0.89**	< 0.5	< 0.5	**5.5**	< 0.5	< 0.5	**4.2**	< 0.5
MW-19	12/07/2011	Shallow Gaspur	Primary	< 0.5	**6.2**	**26**	< 0.5	**1.8**	< 0.5	< 0.5	**7.1**	< 0.5	< 0.5	**2.9**	< 0.5
MW-19	12/07/2011	Shallow Gaspur	Duplicate	< 0.5	**7.1**	**23**	< 0.5	**1.5**	< 0.5	< 0.5	**7.4**	< 0.5	< 0.5	**2.9**	< 0.5
MW-19	06/07/2012	Shallow Gaspur	Primary	< 0.5	**4.5**	**15**	< 0.5	< 0.5	< 0.5	< 0.5	**6**	< 0.5	< 0.5	**3.4 J**	< 0.5
MW-19	12/12/2012	Shallow Gaspur	Primary	< 0.5	**6.5**	**38**	< 0.5	**3.4**	**0.87**	< 0.5	**2.6**	< 0.5	< 0.5	**4.5**	< 0.5
MW-19	06/18/2013	Shallow Gaspur	Primary	< 0.5	**8**	**11**	**1.2**	**0.73**	**8.5**	**0.55**	**20**	< 0.2	< 0.5	**7.3**	< 0.3
MW-19	12/11/2013	Shallow Gaspur	Primary	< 0.5	**4.7**	**4.3**	**2.4**	**0.43 J**	**7**	**0.7**	**41**	< 0.2	< 0.5	**5.1**	< 0.3
MW-19	06/11/2014	Shallow Gaspur	Primary	< 0.5	**9.8**	**13**	**3.8**	**1.1**	**4.3**	**1.2**	**74**	**0.45 J**	< 0.5	**4.2**	< 0.3
MW-19	12/15/2014	Shallow Gaspur	Primary	< 0.5	**7.3**	**7.9**	**3.3**	**0.98**	**2.5**	**1.1**	**34**	< 0.2	< 0.5	**3.3**	< 0.3
MW-19	06/09/2015	Shallow Gaspur	Primary	< 0.5	**9.5**	**19**	**3.3**	**2.3**	**2.7**	**1.3**	**28**	< 0.2	< 0.5	**3.2**	< 0.3
MW-19	12/09/2015	Shallow Gaspur	Primary	< 0.5	**9.8**	**19**	**3.9**	**1.7**	**3**	**1.4**	**26**	< 0.2	< 0.5	**3.4**	< 0.3
MW-19	06/07/2016	Shallow Gaspur	Primary	< 0.5	**8**	**6.5**	**7**	**0.68**	**3.2**	**1.5**	**19**	< 0.2	< 0.5	**5.5**	< 0.3
MW-19	12/01/2016	Shallow Gaspur	Primary	< 0.5	**7.1**	**15**	**5.6**	**1.9**	**1**	**1.1**	**12**	< 0.2	< 0.5	**4.8**	< 0.3
MW-19	06/08/2017	Shallow Gaspur	Primary	< 0.5	**1.5**	**7**	**1.6**	**0.56**	**7.1**	**0.91**	**8.3**	< 0.2	< 0.5	**9.8**	< 0.3
MW-19	06/08/2017	Shallow Gaspur	Duplicate	< 0.5	**2.2**	**6.1**	**2**	**0.63**	**4.9**	**0.87**	**6.8**	< 0.2	< 0.5	**12**	< 0.3
MW-20	02/01/2003	Shallow Gaspur	Primary	**5.6**	**300**	**110**	**7.6**	**5.4**	< 5	**32**	**6.4**	NA	NA	NA	NA
MW-20	05/01/2003	Shallow Gaspur	Primary	< 13	**520**	**140**	< 13	< 13	< 13	**41**	< 13	< 13 *	< 13 *	NA	NA
MW-20	12/01/2003	Shallow Gaspur	Primary	**5.2**	**570**	**150**	**16**	**7.8**	**3.6**	**44**	**7.6**	**1.1**	**4.2**	NA	NA
MW-20	02/01/2004	Shallow Gaspur	Primary	**4.1**	**490**	**140**	**14**	**7.3**	**2.8**	**39**	**7.8**	**0.97**	**4.1**	NA	NA
MW-20	04/04/2004	Shallow Gaspur	Primary	**5.1**	**670**	**180**	**15**	**8.9**	< 0.5	**48**	**8**	< 0.5	**4.9**	**120**	NA
MW-20	07/01/2004	Shallow Gaspur	Primary	**4**	**470 D**	**140 D**	**16**	**7.6**	**3**	**45**	**7.3**	**1.1**	**4.3**	NA	NA
MW-20	11/01/2004	Shallow Gaspur	Primary	**5.1**	**770 D**	**200 E**	**24**	**11**	**8.3**	**58 D**	**12**	**1.2**	**5.9 J**	NA	NA
MW-20	04/01/2005	Shallow Gaspur	Primary	**2.4**	**120 D**	**45 D**	**7.2**	**4.6**	**1.9**	**13 D**	**7.9**	**0.68**	**3.7**	**180**	NA
MW-20	07/01/2005	Shallow Gaspur	Primary	**3.2**	**520 D**	**200 D**	**18**	**8.2**	**4.7**	**54 D**	**10**	**0.85**	**4.4**	**140**	NA
MW-20	07/01/2005	Shallow Gaspur	Primary	**1.2**	**210 D**	**98 D**	**3.8**	**3.5**	**0.69**	**22**	**8.4**	**0.45 J**	**3**	**150**	NA
MW-20	08/01/2005	Shallow Gaspur	Primary	**2.7**	**230**	**81**	**11**	**5.5**	**2.3**	**30**	**11**	**0.5**	**4.3**	**160**	NA

TABLE V
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-20	09/01/2005	Shallow Gaspur	Primary	**2**	**160**	**60**	**6.3**	**2.6**	**1.1**	**24**	**6.8**	**0.3**	**2.6**	**140**	NA
MW-20	09/01/2005	Shallow Gaspur	Primary	**1.7**	**150**	**50**	**5.5**	**2.7**	**0.8**	**21**	**6.3**	**0.3**	**2.6**	**120**	NA
MW-20	10/01/2005	Shallow Gaspur	Primary	**2.4**	**220**	**71**	**6.5**	**3**	**1**	**34**	**6.5**	**0.4**	**3.6**	**120**	NA
MW-20	11/01/2005	Shallow Gaspur	Primary	**1.1**	**130**	**39**	**5.4**	**1.8**	**0.7**	**22**	**3.7**	**0.3**	**1.8**	**98**	NA
MW-20	01/01/2006	Shallow Gaspur	Primary	**2.8**	**240**	**64**	**10**	**4.2**	**1**	**34**	**6.7**	**0.5**	**3.5**	**110**	NA
MW-20	03/01/2006	Shallow Gaspur	Primary	**0.75**	**110 D**	**31 D**	**2**	**1**	**0.62**	**16**	**2.7**	< 0.5	< 0.5	**79**	NA
MW-20	06/01/2006	Shallow Gaspur	Primary	**1.8**	**340**	**77**	**15**	**6**	**3.1**	**34**	**6.3**	**0.6**	**3.6**	**160**	NA
MW-20	08/01/2006	Shallow Gaspur	Primary	**0.99**	**140 D**	**26**	**5**	**2**	< 0.5	**14**	**3.9**	**0.4 J**	**2**	**71**	NA
MW-20	03/01/2008	Shallow Gaspur	Primary	**2.4**	**200 D**	**120 D**	**9.1**	**4.6**	**2.7**	**42 D**	**5.8**	**0.57**	**2.8**	**66**	NA
MW-20	05/12/2009	Shallow Gaspur	Primary	**1.3 J**	**100 D**	**130 D**	**9.2**	**4.6**	< 2.5	**32**	**5.3**	< 2.5	< 2.5	**39**	NA
MW-20	06/16/2011	Shallow Gaspur	Primary	< 2	**81**	**230**	**12**	**6.7**	**19**	**43**	**5.9**	< 2	**3.5**	**240**	< 2
MW-20	12/09/2011	Shallow Gaspur	Primary	< 1	**72**	**200**	**9**	**5.8**	**9.9**	**33**	**6.3**	< 1	**2.9**	**140 J**	**1.6**
MW-20	06/13/2012	Shallow Gaspur	Primary	< 2	**56**	**250**	**13**	**7.3**	**15**	**34**	**6.4**	< 2	< 2	**190**	< 2
MW-20	12/14/2012	Shallow Gaspur	Primary	< 0.5	**24**	**92**	**6.6**	**5.1**	**27**	**15**	**3.1**	**0.51**	< 0.5	**170**	**0.68**
MW-20	06/18/2013	Shallow Gaspur	Primary	< 0.5	**12**	**140**	**9.1**	**6.9**	**23**	**20**	**4**	**0.41 J**	**1.1**	**60**	< 0.3
MW-20	12/13/2013	Shallow Gaspur	Primary	< 1	**32**	**130**	**8.2**	**5.4**	**36**	**17**	**2.8**	< 0.4	< 1	**100**	< 0.6
MW-20	06/10/2014	Shallow Gaspur	Primary	< 0.5	**6.8**	**110**	**4.6**	**4**	**28**	**11**	**1.6**	**0.31 J**	< 0.5	**91**	< 0.3
MW-20	12/19/2014	Shallow Gaspur	Primary	< 0.5	**29**	**56**	**3.2**	**2.4**	**18**	**6**	**0.66**	< 0.2	< 0.5	**69**	< 0.3
MW-20	06/11/2015	Shallow Gaspur	Primary	< 0.5	**21**	**110**	**6.5**	**5.1**	**28**	**13**	**2.7 J**	**0.35 J**	**0.83**	**140**	< 0.3
MW-20	06/11/2015	Shallow Gaspur	Duplicate	< 0.5	**19**	**100**	**6.5**	**5.2**	**28**	**12**	**2.3 J**	**0.29 J**	**0.72**	**150**	< 0.3
MW-20	12/09/2015	Shallow Gaspur	Primary	< 0.5	**50**	**280**	**15**	**8**	**11**	**36**	**4.9**	**0.68**	**2.2**	**220**	**1.1**
MW-20	06/07/2016	Shallow Gaspur	Primary	**0.82**	**250**	**170**	**26**	**9.4**	**5.2**	**49**	**7**	**1**	< 0.5	**240**	**2.1**
MW-20	12/02/2016	Shallow Gaspur	Primary	**0.64**	**190**	**340**	**24**	**13**	**6.6**	**73**	**7.8**	**0.96**	< 0.5	**280**	**2.8**
MW-20	06/08/2017	Shallow Gaspur	Primary	< 0.5	**47**	**160**	**4.6**	**5.6**	**1.5**	**29**	**3.1**	**0.44 J**	**2.4**	**240**	**3.1**
MW-20B	07/01/2005	Intermediate Gaspur	Primary	< 0.5	**0.3 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.5**	NA
MW-20B	07/01/2005	Intermediate Gaspur	Primary	< 0.5	**16**	**13**	< 0.5	**1.1**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA
MW-20B	08/01/2005	Intermediate Gaspur	Primary	< 0.5	**19**	**17**	**0.2 J**	**1.4**	< 0.5	**0.3 J**	< 0.5	< 0.5	< 0.5	**0.6**	NA
MW-20B	09/01/2005	Intermediate Gaspur	Primary	< 0.5	**18**	**13**	**0.2 J**	**1**	< 0.5	**0.4 J**	< 0.5	< 0.5	< 0.5	**0.5**	NA
MW-20B	09/01/2005	Intermediate Gaspur	Primary	< 0.5	**6.2**	**8.4**	< 0.5	**0.6**	< 0.5	**0.2 J**	< 0.5	< 0.5	< 0.5	< 1	NA
MW-20B	10/01/2005	Intermediate Gaspur	Primary	< 0.5	**6**	**6.9**	< 0.5	**0.5**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	NA
MW-20B	11/01/2005	Intermediate Gaspur	Primary	< 0.5	**6.1**	**14**	**0.2 J**	**1**	**0.2 J**	**0.4 J**	< 0.5	< 0.5	< 0.5	**0.8 J**	NA
MW-20B	01/01/2006	Intermediate Gaspur	Primary	< 0.5	**10**	**17**	**0.4**	**1.2**	**0.3**	**0.7**	**0.2**	< 0.5	< 0.5	**1.8**	NA
MW-20B	03/01/2006	Intermediate Gaspur	Primary	< 0.5	**6.3**	**16**	< 0.5	**0.87**	< 0.5	**0.8**	< 0.5	< 0.5	< 0.5	**2.2**	NA
MW-20B	05/01/2006	Intermediate Gaspur	Primary	NA	**11**	**19**	**0.4 J**	**1.4**	**0.4 J**	**0.6**	NA	NA	NA	**1.9**	NA
MW-20B	08/01/2006	Intermediate Gaspur	Primary	< 0.5	**17**	**27 D**	**0.68**	**2**	< 0.5	**1.7**	< 0.5	< 0.5	< 0.5	**3.7**	NA
MW-20B	03/01/2008	Intermediate Gaspur	Primary	< 0.5	**19**	**27 D**	**0.62**	**2.2**	**0.71**	**1.9**	< 0.5	< 0.5	< 0.5	**3**	NA
MW-20B	05/12/2009	Intermediate Gaspur	Primary	< 0.5	**7.7**	**17 D**	**0.84**	**1.6**	< 0.5	**2.2**	< 0.5	< 0.5	< 0.5	**80 D**	NA
MW-20B	07/14/2010	Intermediate Gaspur	Primary	< 0.5	**15**	**120**	**4.4**	**6**	**13**	**18**	**2.4**	< 0.5	**0.82**	**61 J**	< 0.5
MW-20B	06/16/2011	Intermediate Gaspur	Primary	< 0.5	**2.9**	**160**	**4.7**	**8.7**	**28**	**26**	**5**	**0.71**	**1.3**	**140**	< 0.5
MW-20B	12/09/2011	Intermediate Gaspur	Primary	< 1	< 1	**140**	**3.1**	**8.7**	**34**	**27**	**7.1**	< 1	**1.4**	**110 J**	< 1
MW-20B	06/12/2012	Intermediate Gaspur	Primary	< 1	< 1	**180**	**4.4**	**12**	**30**	**30**	**7.9**	**1.2**	**1.7**	**120**	< 1
MW-20B	06/12/2012	Intermediate Gaspur	Split	< 0.5	**0.41 J**	**120 D**	**4.2**	**14**	**31 D**	**23 D**	**7.1**	**1.2**	**1.7**	**61**	NA
MW-20B	12/12/2012	Intermediate Gaspur	Primary	< 0.5	< 0.5	**140**	**3.7**	**9.1**	**44**	**26**	**6.5**	**0.89**	**1.7**	**140**	< 0.5
MW-20B	12/12/2012	Intermediate Gaspur	Primary	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**200**	NA
MW-20B	06/18/2013	Intermediate Gaspur	Primary	< 0.5	**0.76**	**140**	**4.2**	**9.5**	**31**	**28**	**4.7**	**0.6**	**1.2**	**78**	< 0.3
MW-20B	12/12/2013	Intermediate Gaspur	Primary	< 0.5	**2.1**	**100**	**3.5**	**7.5**	**22**	**14**	**2.3**	**0.38 J**	< 0.5	**53**	< 0.3
MW-20B	06/10/2014	Intermediate Gaspur	Primary	< 0.5	**2.8**	**74**	**3**	**5.8**	**11**	**8.2**	**1.4**	**0.25 J**	< 0.5	**39**	< 0.3
MW-20B	12/19/2014	Intermediate Gaspur	Primary	< 0.5	**0.82**	**10**	**0.76**	**1.7**	**6.6**	**1.4**	**0.3 J**	< 0.2	< 0.5	**9.1**	< 0.3

TABLE V
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-20B	12/19/2014	Intermediate Gaspur	Duplicate	< 0.5	**0.84**	**10**	**0.77**	**1.8**	**7.3**	**2**	**0.31 J**	< 0.2	< 0.5	**9.2**	< 0.3
MW-20B	06/11/2015	Intermediate Gaspur	Primary	< 0.5	**2.1**	**13**	**1.2**	**1.3**	**5.4**	**2.1**	**0.66 J**	< 0.2	< 0.5	**7.2**	< 0.3
MW-20B	12/09/2015	Intermediate Gaspur	Primary	< 0.5	**2**	**19**	**1.3**	**1.1**	**2.7**	**2**	**0.61**	< 0.2	< 0.5	**3.8**	< 0.3
MW-20B	06/07/2016	Intermediate Gaspur	Primary	< 0.5	**1.3**	**9.6**	**1.5**	**0.83**	**1.9**	**1.7**	**0.5**	< 0.2	< 0.5	**6.5**	< 0.3
MW-20B	12/01/2016	Intermediate Gaspur	Primary	< 0.5	**1.7**	**20**	**1.4**	**1.2**	**3.7**	**3**	**0.79**	< 0.2	< 0.5	**9.3**	< 0.3
MW-20B	06/06/2017	Intermediate Gaspur	Primary	< 0.5	**2**	**22**	**2**	**1.3**	**9.8**	**3.5**	**0.58**	< 0.2	< 0.5	**14**	< 0.3
MW-21	12/01/2003	Shallow Gaspur	Primary	**2.3**	**870**	**370**	**25**	**14**	**5.2**	**61**	**17**	**2.7**	**9.7**	NA	NA
MW-21	02/01/2004	Shallow Gaspur	Primary	**2.2**	**680**	**330**	**27**	**16 J**	**4.9**	**51**	**17**	**2.6**	**9.3**	NA	NA
MW-21	03/01/2004	Shallow Gaspur	Primary	**3**	**980**	**490**	**50 J**	**20**	**5**	**80**	**20**	< 0.5	**11**	**280**	NA
MW-21	07/01/2004	Shallow Gaspur	Primary	**2.8**	**640 D**	**340 D**	**29**	**15**	**5.8**	**69**	**17**	**2.6**	**8.3**	NA	NA
MW-21	11/01/2004	Shallow Gaspur	Primary	**2.1**	**720 D**	**430 D**	**24**	**11**	**64 D**	**59 D**	**21**	**3**	**8.2 J**	NA	NA
MW-21	03/01/2005	Shallow Gaspur	Primary	**0.43 J**	**180 D**	**120 D**	**13 J**	**11**	**20**	**18 D**	**5.8 D**	**1.5**	**3.3**	**170**	NA
MW-21	11/01/2005	Shallow Gaspur	Primary	< 0.5	**220**	**120**	**28**	**12**	**18**	**35**	**6**	**1.6**	**2.6**	**240**	NA
MW-21	03/01/2006	Shallow Gaspur	Primary	< 0.5	**390 D**	**280 D**	**19**	**17**	**23**	**50**	**12**	**2.7**	< 0.5	**360**	NA
MW-21	08/01/2006	Shallow Gaspur	Primary	< 0.5	**260 D**	**260 D**	**20**	**19**	**30 D**	**55 D**	**16**	**3.5**	**5.5**	**280**	NA
MW-21	03/01/2008	Shallow Gaspur	Primary	< 0.5	**320 D**	**340 D**	**19**	**23 D**	**41 D**	**66 D**	**16**	**3.4**	**6.4**	**330 D**	NA
MW-21	05/13/2009	Shallow Gaspur	Primary	< 5	**340 D**	**500 D**	**15**	**16**	**14**	**53**	**14**	**3.2 J**	**6.3**	< 2	NA
MW-21	07/15/2010	Shallow Gaspur	Primary	< 1.2	**270**	**400**	**19**	**21**	**18 J**	**76 J**	**18**	**3.6**	**8.7**	**220 J**	**6**
MW-21	06/16/2011	Shallow Gaspur	Primary	< 5	**310**	**580**	**20**	**28**	**20**	**89**	**23**	< 5	< 5	**190 J**	**7.2**
MW-21	12/09/2011	Shallow Gaspur	Primary	< 5	**210**	**420**	**11**	**17**	**14**	**66**	**22**	< 5	**6.5**	**200 J**	< 5
MW-21	06/12/2012	Shallow Gaspur	Primary	< 5	**150**	**480**	**12**	**21**	**24**	**64**	**21**	< 5	< 5	**320**	< 5
MW-21	06/12/2012	Shallow Gaspur	Split	< 2	**120 D**	**340 D**	**11**	**19**	**26**	**54**	**18**	**2.8**	**6.8**	**120**	NA
MW-21	12/12/2012	Shallow Gaspur	Primary	< 2.5	**290**	**630**	**26**	**30**	**26**	**100**	**29**	**3.3**	< 2.5	**390**	**26**
MW-21	12/12/2012	Shallow Gaspur	Primary	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**600 J**	NA
MW-21	06/18/2013	Shallow Gaspur	Primary	< 0.5	**210**	**490**	**25**	**24**	**18**	**100**	**18**	**1.5**	**6.9**	**140**	**1.8**
MW-21	06/18/2013	Shallow Gaspur	Duplicate	< 0.5	**200**	**460**	**23**	**22**	**17**	**93**	**17**	**1.4**	**6.3**	**140**	**1.8**
MW-21	12/13/2013	Shallow Gaspur	Primary	< 5	**170**	**510**	**26**	**25**	**19**	**91**	**19**	< 2	< 5	**180**	< 3
MW-21	12/13/2013	Shallow Gaspur	Duplicate	< 5	**170**	**570**	**26**	**26**	**15**	**81**	**15**	< 2	< 5	**180**	< 3
MW-21	06/10/2014	Shallow Gaspur	Primary	< 2.5	**160**	**530**	**22**	**23**	**9**	**83**	**16**	**1.6 J**	< 2.5	**200**	< 1.5
MW-21	06/10/2014	Shallow Gaspur	Duplicate	< 2.5	**160**	**540**	**23**	**23**	**9**	**85**	**16**	**1.8 J**	< 2.5	**200**	< 1.5
MW-21	12/18/2014	Shallow Gaspur	Primary	< 2.5	**86**	**600**	**24**	**27**	**11**	**98**	**15**	**2 J**	< 2.5	**230**	< 1.5
MW-21	06/09/2015	Shallow Gaspur	Primary	< 2.5	**59**	**690**	**32**	**39**	**30**	**140**	**35**	**2.4 J**	**8.6**	**300**	**19**
MW-21	12/10/2015	Shallow Gaspur	Primary	< 2.5	**20**	**700**	**24**	**35**	**22**	**110**	**22**	**2.6**	**10**	**450**	< 1.5
MW-21	06/08/2016	Shallow Gaspur	Primary	< 2.5	**7.7**	**670**	**27**	**31**	**30**	**110**	**26**	**3.7**	< 2.5	**330**	< 1.5
MW-21	12/02/2016	Shallow Gaspur	Primary	< 2.5	**16**	**660**	**15**	**26**	**36**	**76**	**18**	**3.4**	**8.6**	**250**	< 1.5
MW-21	06/08/2017	Shallow Gaspur	Primary	< 2.5	**5**	**430**	**7.6**	**18**	**8.8**	**33**	**10**	**2.7**	**7.4**	**160**	< 1.5
MW-22	01/01/2004	Shallow Gaspur	Primary	< 0.5	**7.2**	**2.9**	< 0.5	**0.21 J**	< 0.5	< 0.5	< 0.5	**1.8**	< 0.5	NA	NA
MW-22	11/01/2004	Shallow Gaspur	Primary	< 0.5	**9.6**	**9.7**	< 0.5	**0.53**	**0.56**	**0.38 J**	< 0.5	**3.7**	< 0.5	**1.1**	NA
MW-22	08/01/2006	Shallow Gaspur	Primary	< 0.5	**3.2**	**6.3**	< 0.5	< 0.24 J	< 0.5	**1.2**	< 0.5	**4.1**	< 0.5	**0.9**	NA
MW-22	03/01/2008	Shallow Gaspur	Primary	< 0.5	**3.6**	**4.9**	< 0.5	**0.28 L**	**0.28 J**	**0.91**	< 0.5	< 0.5	< 0.5	**0.73 J**	NA
MW-22	05/18/2009	Shallow Gaspur	Primary	< 0.5	**2.8**	**6.3 J**	< 0.5 J	**0.28 J**	< 0.5	**1.7**	< 0.5	**3.8**	< 0.5	**2.1**	NA
MW-22	12/06/2011	Shallow Gaspur	Primary	< 0.5	**1.7**	**6.3**	< 0.5	< 0.5	< 0.5	**4**	< 0.5	**1.1**	< 0.5	**3.8 J**	< 0.5
MW-22	06/13/2012	Shallow Gaspur	Primary	< 0.5	**2.2**	**6.9**	< 0.5	< 0.5	< 0.5	**3.7**	< 0.5	**0.96**	< 0.5	**4**	< 0.5
MW-22	12/11/2012	Shallow Gaspur	Primary	< 0.5	**1.5**	**4.9**	< 0.5	< 0.5	< 0.5	**2.6**	< 0.5	< 0.5	< 0.5	**3.9 J**	< 0.5
MW-22	06/19/2013	Shallow Gaspur	Primary	< 0.5	**1.3**	**4.8**	< 0.3	< 0.4	< 0.5	**4.3**	< 0.3	< 0.2	< 0.5	**5 J**	< 0.3
MW-22	12/11/2013	Shallow Gaspur	Primary	< 0.5	**3.6**	**12**	< 0.3	**3.2**	< 0.5	**5.1**	< 0.3	**1.3**	< 0.5	**5.6**	< 0.3
MW-22	06/10/2014	Shallow Gaspur	Primary	< 0.5	**5.8**	**16**	< 0.3	**5.8**	< 0.5	**3.3**	**1.2**	**2.3**	< 0.5	**4.8**	< 0.3
MW-22	12/15/2014	Shallow Gaspur	Primary	< 0.5	**2.6**	**12**	< 0.3	**1.9**	< 0.5	**7.8**	**0.57**	**0.7**	< 0.5	**10**	< 0.3

TABLE V
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-22	12/15/2014	Shallow Gaspur	Duplicate	< 0.5	**2.6**	**13**	< 0.3	**2**	< 0.5	**8.7**	**0.78**	**0.81**	< 0.5	**10**	< 0.3
MW-22	06/11/2015	Shallow Gaspur	Primary	< 0.5	**2**	**13**	< 0.3	**0.77**	< 0.5	**13**	**0.93 J**	< 0.2	< 0.5	**14**	< 0.3
MW-22	12/09/2015	Shallow Gaspur	Primary	< 0.5	**3.4**	**20**	**0.42 J**	< 0.4	< 0.5	**17**	**0.65**	< 0.2	< 0.5	**19**	< 0.3
MW-22	06/08/2016	Shallow Gaspur	Primary	< 0.5	**2.8**	**14**	**0.61**	**0.54**	< 0.5	**9.2**	**0.63**	< 0.2	< 0.5	**12**	< 0.3
MW-22	12/01/2016	Shallow Gaspur	Primary	< 0.5	**2.2**	**13**	**0.53**	**0.7**	< 0.5	**5**	**0.58**	**1.1**	< 0.5	**11**	< 0.3
MW-22	06/07/2017	Shallow Gaspur	Primary	< 0.5	**1.8**	**9.7**	< 0.3	**0.77**	< 0.5	**2.7**	**0.39 J**	**0.73**	< 0.5	**13**	< 0.3
MW-23	01/01/2004	Shallow Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA
MW-23	11/01/2004	Shallow Gaspur	Primary	< 0.5	< 0.5	**0.69**	< 0.5	< 0.5	< 0.5	**0.21 J**	< 0.5	< 0.5	< 0.5	**2.7**	NA
MW-23	08/01/2006	Shallow Gaspur	Primary	< 0.5	< 0.5	**0.95**	< 0.5	< 0.5	< 0.5	**0.6**	< 0.5	< 0.5	< 0.5	< 0.9	NA
MW-23	03/01/2008	Shallow Gaspur	Primary	< 0.5	< 0.5	**0.76**	< 0.5	< 0.5	< 0.5	**0.54**	**0.43 J**	< 0.5 J	< 0.5	**0.64 J**	NA
MW-23	05/19/2009	Shallow Gaspur	Primary	< 0.5	< 0.5	**1**	< 0.5	< 0.5	< 0.5	**0.93 J**	**0.6 J**	< 0.5	< 0.5	< 2	NA
MW-23	07/14/2010	Shallow Gaspur	Primary	< 0.5	< 0.5	**1**	< 0.5	< 0.5	< 0.5	**0.99**	< 0.5	< 0.5	< 0.5	< 0.8	< 0.5
MW-23	06/14/2011	Shallow Gaspur	Primary	< 0.5	< 0.5	**1.2**	< 0.5	< 0.5	< 0.5	**1.1**	< 0.5	< 0.5	< 0.5	**12**	< 0.5
MW-23	12/06/2011	Shallow Gaspur	Primary	< 0.5	**0.52**	**1.3**	**0.76**	< 0.5	< 0.5	**1.3**	**0.58**	< 0.5	< 0.5	**3.6 J**	< 0.5
MW-23	06/08/2012	Shallow Gaspur	Primary	< 0.5	**0.64**	**1.6**	**0.9**	< 0.5	< 0.5	**1.4**	**0.68**	< 0.5	< 0.5	**3.7 J**	< 0.5
MW-23	12/11/2012	Shallow Gaspur	Primary	< 0.5	**0.53**	**0.98**	**0.63**	< 0.5	< 0.5	**0.94**	**0.56**	< 0.5	< 0.5	**4.5**	< 0.5
MW-23	06/18/2013	Shallow Gaspur	Primary	< 0.5	**0.65**	**1.2**	**1.1**	< 0.4	< 0.5	**1.2**	< 0.3	< 0.2	< 0.5	**4.8**	< 0.3
MW-23	12/12/2013	Shallow Gaspur	Primary	< 0.5	**2.3**	**2.3**	**1.3**	< 0.4	< 0.5	**1.3**	< 0.3	< 0.2	< 0.5	**5**	< 0.3
MW-23	12/18/2014	Shallow Gaspur	Primary	< 0.5	**1.4**	**1.9**	**0.56**	< 0.4	< 0.5	**0.3 J**	**0.42 J**	< 0.2	< 0.5	**1.3 J**	< 0.3
MW-23	12/08/2015	Shallow Gaspur	Primary	< 0.5	**4.8**	**5.2**	**1.8**	< 0.4	< 0.5	**1.6**	**0.74**	< 0.2	< 0.5	**4.1**	< 0.3
MW-23	06/09/2016	Shallow Gaspur	Primary	< 0.5	**9.3**	**5.1**	**2.9**	< 0.4	< 0.5	**1.6**	**0.8**	< 0.2	< 0.5	**5**	< 0.3
MW-23	12/01/2016	Shallow Gaspur	Primary	< 0.5	**16**	**5.8**	**3.4**	**0.41 J**	< 0.5	**1.8**	**0.71**	< 0.2	< 0.5	**8.4**	< 0.3
MW-23	06/06/2017	Shallow Gaspur	Primary	< 0.5	**18**	**4.7**	**2.8**	< 0.4	**0.58**	**1.3**	< 0.3	< 0.2	< 0.5	**11**	< 0.3
MW-23A	07/27/2011	Shallow Gaspur	Primary	< 0.5	**35**	**5.9**	**1.3**	< 0.5	< 0.5	**0.57**	**10**	< 0.5	< 0.5	**2.9**	< 0.5
MW-23A	09/27/2011	Shallow Gaspur	Primary	< 0.5	**19**	**4.7**	**0.93**	< 0.5	< 0.5	< 0.5	**4.6**	< 0.5	< 0.5	< 3.4	< 0.5
MW-23A	12/06/2011	Shallow Gaspur	Primary	< 0.5	**17**	**4.1**	**1.1**	< 0.5	< 0.5	< 0.5	**3.6**	< 0.5	< 0.5	**3 J**	< 0.5
MW-23A	03/26/2012	Shallow Gaspur	Primary	< 0.5	**14**	**4.7**	**0.92**	< 0.5	< 0.5	< 0.5	**3.2**	< 0.5	< 0.5	**3 J**	< 0.5
MW-23A	06/08/2012	Shallow Gaspur	Primary	< 0.5	**6.4**	**8.3**	**1**	< 0.5	< 0.5	**0.53**	**2.8**	< 0.5	< 0.5	**2.9 J**	< 0.5
MW-23A	12/12/2012	Shallow Gaspur	Primary	< 0.5	**1.8**	**4.3**	**0.53**	< 0.5	< 0.5	< 0.5	**0.76**	< 0.5	< 0.5	**3.5**	< 0.5
MW-23A	06/18/2013	Shallow Gaspur	Primary	< 0.5	**5.6**	**6.7**	**0.89**	< 0.4	< 0.5	**1.1**	**1.8**	< 0.2	< 0.5	**2.7**	< 0.3
MW-23A	12/11/2013	Shallow Gaspur	Primary	< 0.5	**8.5**	**12**	**1.2**	< 0.4	< 0.5	**0.86**	**2.4**	< 0.2	< 0.5	**3**	< 0.3
MW-23A	06/10/2014	Shallow Gaspur	Primary	< 0.5	**7.8**	**7.5**	< 0.3	< 0.4	< 0.5	< 0.2	**1.9**	< 0.2	< 0.5	**3.2**	< 0.3
MW-23A	12/16/2014	Shallow Gaspur	Primary	< 0.5	**4.9**	**10**	< 0.3	< 0.4	< 0.5	< 0.2	**1.4**	< 0.2	< 0.5	**2.4**	< 0.3
MW-23A	06/11/2015	Shallow Gaspur	Primary	< 0.5	**4.3**	**6.1**	**0.48 J**	< 0.4	< 0.5	< 0.2	**1.2 J**	< 0.2	< 0.5	**4.5**	< 0.3
MW-23A	12/08/2015	Shallow Gaspur	Primary	< 0.5	**7.8**	**4.3**	**0.42 J**	< 0.4	< 0.5	< 0.2	**1.3**	< 0.2	< 0.5	**3.2**	< 0.3
MW-23A	06/09/2016	Shallow Gaspur	Primary	< 0.5	**3.6**	**2.6**	**0.56**	< 0.4	< 0.5	< 0.2	**1**	< 0.2	< 0.5	**1.8 J**	< 0.3
MW-23A	12/01/2016	Shallow Gaspur	Primary	< 0.5	**2.8**	**2.6**	**0.35 J**	< 0.4	< 0.5	< 0.2	**1.2**	< 0.2	< 0.5	**2.9**	< 0.3
MW-23A	06/06/2017	Shallow Gaspur	Primary	< 0.5	**2.4**	**1.9**	**0.57**	< 0.4	< 0.5	< 0.2	**0.74**	< 0.2	< 0.5	**3.2**	< 0.3
MW-23A	06/06/2017	Shallow Gaspur	Duplicate	< 0.5	**1.9**	**1.8**	**0.6**	< 0.4	< 0.5	< 0.2	**0.68**	< 0.2	< 0.5	**3.4**	< 0.3
MW-23B	05/19/2009	Lower Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.39 J**	< 0.5	< 0.5	< 2	NA
MW-23B	07/14/2010	Lower Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.8 J	< 0.5
MW-23B	06/14/2011	Lower Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 3.6	< 0.5
MW-23B	12/05/2011	Lower Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.94	< 0.5
MW-23B	06/12/2012	Lower Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.62**	< 0.5	< 0.5	< 0.95	< 0.5
MW-23B	12/11/2012	Lower Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.61**	< 0.5	< 0.5	< 0.95 J	< 0.5
MW-23B	12/11/2012	Lower Gaspur	Duplicate	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.55**	< 0.5	< 0.5	< 0.95 J	< 0.5
MW-23B	12/11/2013	Lower Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-23B	12/16/2014	Lower Gaspur	Primary	< 0.5	**0.27 J**	**0.67**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3

TABLE V
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-23B	12/08/2015	Lower Gaspur	Primary	< 0.5	**0.4 J**	**0.57**	< 0.3	< 0.4	< 0.5	< 0.2	**0.38 J**	< 0.2	< 0.5	< 1	< 0.3
MW-23B	12/01/2016	Lower Gaspur	Primary	< 0.5	**0.34 J**	**0.5**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-24	01/01/2004	Shallow Gaspur	Primary	< 0.5	**3.1**	**1.6**	< 0.5	< 0.5	< 0.5	< 0.5	**1.6**	< 0.5	< 0.5	NA	NA
MW-24	11/01/2004	Shallow Gaspur	Primary	< 0.5	**3.1**	**2.3**	< 0.5	< 0.5	< 0.5	< 0.5	**2.3**	< 0.5	< 0.5	< 1	NA
MW-24	08/01/2006	Shallow Gaspur	Primary	< 0.5	**2.1**	**1.3**	< 0.5	< 0.5	< 0.5	< 0.5	**2.8**	< 0.5	< 0.5	< 1	NA
MW-24	03/01/2008	Shallow Gaspur	Primary	< 0.5	**11**	**6.5**	**0.21 J**	**1.6**	**0.26 J**	< 0.5	**2.7**	< 0.5	< 0.5	< 2	NA
MW-24	05/17/2009	Shallow Gaspur	Primary	< 0.5	**19**	**12**	< 0.5	**3.3**	< 0.5	< 0.5 J	**2.8 J**	**1.2**	< 0.5	< 2	NA
MW-24	06/15/2011	Shallow Gaspur	Primary	< 0.5	**8.3**	**7.8**	< 0.5	**2.5**	< 0.5	< 0.5	**1.4**	< 0.5	< 0.5	< 4.2	< 0.5
MW-24	12/06/2011	Shallow Gaspur	Primary	< 0.5	**3.5**	**2.4**	< 0.5	< 0.5	< 0.5	< 0.5	**0.57**	< 0.5	< 0.5	< 0.94	< 0.5
MW-24	06/08/2012	Shallow Gaspur	Primary	< 0.5	**3.9**	**2.9**	< 0.5	**0.92**	< 0.5	< 0.5	**0.56**	< 0.5	< 0.5	< 0.94	< 0.5
MW-24	12/11/2012	Shallow Gaspur	Primary	< 0.5	**3.9**	**2.6**	< 0.5	**0.7**	< 0.5	< 0.5	**0.71**	< 0.5	< 0.5	< 0.95	< 0.5
MW-24	06/18/2013	Shallow Gaspur	Primary	< 0.5	**1.5**	**1**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	**0.35 J**	< 0.5	< 1	< 0.3
MW-24	12/12/2013	Shallow Gaspur	Primary	< 0.5	**0.89**	**0.61**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	**0.22 J**	< 0.5	< 1	< 0.3
MW-24	12/12/2013	Shallow Gaspur	Duplicate	< 0.5	**1.1**	**0.73**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	**0.25 J**	< 0.5	< 1	< 0.3
MW-24	12/18/2014	Shallow Gaspur	Primary	< 0.5	**1.7**	**2.6**	< 0.3	**0.54**	< 0.5	< 0.2	**0.33 J**	**0.29 J**	< 0.5	< 1	< 0.3
MW-24	12/08/2015	Shallow Gaspur	Primary	< 0.5	**2.6**	**5.5**	< 0.3	**0.72**	< 0.5	< 0.2	**0.84**	**0.58**	< 0.5	< 1	< 0.3
MW-24	06/07/2016	Shallow Gaspur	Primary	< 0.5	**1.7**	**3.6**	< 0.3	**0.66**	< 0.5	< 0.2	**0.66**	**0.43 J**	< 0.5	< 1	< 0.3
MW-24	11/28/2016	Shallow Gaspur	Primary	< 0.5	**1.6**	**4.1**	< 0.3	**0.59**	< 0.5	< 0.2	**0.6**	**0.29 J**	< 0.5	< 1	< 0.3
MW-24	11/28/2016	Shallow Gaspur	Duplicate	< 0.5	**1.7**	**4.2**	< 0.3	**0.56**	< 0.5	< 0.2	**0.58**	**0.32 J**	< 0.5	< 1	< 0.3
MW-24	06/06/2017	Shallow Gaspur	Primary	< 0.5	**0.6**	**0.48 J**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-25	01/01/2004	Intermediate Gaspur	Primary	**0.33 J**	**50 D**	**40 D**	**1.7**	**2.9**	**0.75**	**4.7 J**	**3.3**	**0.35 J**	< 0.5	NA	NA
MW-25	07/01/2004	Intermediate Gaspur	Primary	< 0.5	**62 D**	**64 D**	**1.2**	**3.3**	**0.7**	**2.2**	**3**	**0.36 J**	**0.83**	**9.6**	NA
MW-25	08/01/2006	Intermediate Gaspur	Primary	< 0.5	**20**	**44 D**	**0.79**	**2.3**	< 0.5	**1.1**	**2.5**	**0.32 J**	< 0.5	**4.3**	NA
MW-25	03/01/2008	Intermediate Gaspur	Primary	< 0.5	**12**	**22 D**	**0.27 J**	**1.7**	**0.32 J**	**0.4 J**	**1.7**	**0.47 J**	< 0.5	**1.7 J**	NA
MW-25	05/17/2009	Intermediate Gaspur	Primary	< 0.5	**9.2**	**22 D**	< 0.5	**2**	< 0.5	**0.37 J**	< 0.5	**0.83**	< 0.5	< 2	NA
MW-25	06/15/2011	Intermediate Gaspur	Primary	< 0.5	**3.8**	**21**	< 0.5	**3.1**	< 0.5	< 0.5	**1.7**	**1.1**	< 0.5	**2.2 J**	< 0.5
MW-25	12/06/2011	Intermediate Gaspur	Primary	< 0.5	**3.6**	**21**	< 0.5	**4**	< 0.5	< 0.5	**2**	**1.1**	< 0.5	**1.4**	< 0.5
MW-25	06/12/2012	Intermediate Gaspur	Primary	< 0.5	**3.4**	**21**	< 0.5	**3.9**	< 0.5	< 0.5	**2.1**	**1.4**	< 0.5	**1.4**	< 0.5
MW-25	12/10/2012	Intermediate Gaspur	Primary	< 0.5	**2.8**	**27**	< 0.5	**4.8**	< 0.5	< 0.5	**1.9**	**1.6**	< 0.5	**1.8**	< 0.5
MW-25	12/10/2012	Intermediate Gaspur	Duplicate	< 0.5	**2.8**	**26**	< 0.5	**4.8**	< 0.5	< 0.5	**1.8**	**1.5**	< 0.5	**2.5**	< 0.5
MW-25	06/19/2013	Intermediate Gaspur	Primary	< 0.5	**2**	**19**	< 0.3	**4.2**	< 0.5	< 0.2	**1.4**	**0.96**	< 0.5	**1.7 J**	< 0.3
MW-25	12/09/2013	Intermediate Gaspur	Primary	< 0.5	**1.9**	**25**	< 0.3	**5.9**	< 0.5	**0.38 J**	**1.4**	**1.3**	< 0.5	**1.5 J**	< 0.3
MW-25	06/10/2014	Intermediate Gaspur	Primary	< 0.5	**1.8**	**21**	< 0.3	**4.7**	< 0.5	< 0.2	**1.2**	**0.94**	< 0.5	**2**	< 0.3
MW-25	12/19/2014	Intermediate Gaspur	Primary	< 0.5	**1.2**	**21**	< 0.3	**4.2**	< 0.5	< 0.2	**1.1**	**0.76**	< 0.5	**1.1 J**	< 0.3
MW-25	06/08/2015	Intermediate Gaspur	Primary	< 0.5	**1.8**	**24**	< 0.3	**7.2**	< 0.5	**0.38 J**	**2.1**	**1.5**	< 0.5	**1.4 J**	< 0.3
MW-25	12/10/2015	Intermediate Gaspur	Primary	< 0.5	**3**	**23**	< 0.3	**7.7**	< 0.5	< 0.2	**1.7**	**0.4 J**	< 0.5	< 1	< 0.3
MW-25	06/08/2016	Intermediate Gaspur	Primary	< 0.5	**3.4**	**27**	**0.39 J**	**7.8**	< 0.5	< 0.2	**2.2**	**1.6**	< 0.5	< 1	< 0.3
MW-25	11/28/2016	Intermediate Gaspur	Primary	< 0.5	**2.2**	**26**	< 0.3	**8.1**	< 0.5	< 0.2	**1.8**	**0.48 J**	< 0.5	< 1	< 0.3
MW-25	06/07/2017	Intermediate Gaspur	Primary	< 0.5	**1.4**	**21**	< 0.3	**7.8**	< 0.5	**0.61**	**1.5**	< 0.2	< 0.5	**2.1**	< 0.3
MW-25B	03/01/2008	Lower Gaspur	Primary	< 0.5	**36 D**	**72 D**	**1.3**	**4.5**	**0.91**	**2.7**	**3.1**	**0.31 J**	< 0.5	**11**	NA
MW-25B	05/17/2009	Lower Gaspur	Primary	< 0.5	**22 D**	**51 D**	**0.59**	**2.5**	< 0.5	**1.1 J**	**2.1 J**	**0.66**	**0.33 J**	< 2	NA
MW-25B	06/15/2011	Lower Gaspur	Primary	< 0.5	**3.7**	**32**	< 0.5	**2.7**	< 0.5	< 0.5	**2.3**	**1.4**	< 0.5	**2 J**	< 0.5
MW-25B	12/07/2011	Lower Gaspur	Primary	< 0.5	**3.6**	**35**	< 0.5	**3.4**	< 0.5	< 0.5	**2.4**	**1.8**	< 0.5	**2.9**	< 0.5
MW-25B	06/12/2012	Lower Gaspur	Primary	< 0.5	**2.9**	**33**	< 0.5	**3.2**	< 0.5	< 0.5	**2.9**	**2.8**	< 0.5	**2.3**	< 0.5
MW-25B	06/12/2012	Lower Gaspur	Split	< 0.5	**2.1**	**27 D**	**0.31 J**	**3**	**0.37 J**	**0.31 J**	**2.1**	**2**	**0.1 J**	**3.6**	NA
MW-25B	12/10/2012	Lower Gaspur	Primary	< 0.5	**1.3**	**48**	< 0.5	**4.7**	< 0.5	< 0.5	**2.4**	**3.2**	< 0.5	**3.2**	< 0.5
MW-25B	06/19/2013	Lower Gaspur	Primary	< 0.5	**0.61**	**40**	**0.44 J**	**5**	< 0.5	**0.58**	**2.4**	**2.6**	< 0.5	**2.7 J**	< 0.3
MW-25B	12/09/2013	Lower Gaspur	Primary	< 0.5	**0.55**	**40**	< 0.3	**5**	< 0.5	< 0.2	**2.3**	**2.8**	< 0.5	**2.8**	< 0.3

TABLE V
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-25B	06/10/2014	Lower Gaspur	Primary	< 0.5	**0.6**	**38**	< 0.3	**5**	< 0.5	< 0.2	**1.8**	**2.9**	< 0.5	**2.6**	< 0.3
MW-25B	12/19/2014	Lower Gaspur	Primary	< 0.5	**0.49 J**	**30**	< 0.3	**4.4**	**0.77**	< 0.2	**1.1**	**2.5**	< 0.5	**1.6 J**	< 0.3
MW-25B	06/08/2015	Lower Gaspur	Primary	< 0.5	**0.65**	**29**	< 0.3	**5.6**	**1.1**	**0.39 J**	**2.2**	**2.4**	< 0.5	**2.2**	< 0.3
MW-25B	12/11/2015	Lower Gaspur	Primary	< 0.5	**0.84**	**37**	< 0.3	**9.3**	**0.77**	**0.32 J**	**2**	**3.4**	< 0.5	< 1	< 0.3
MW-25B	12/11/2015	Lower Gaspur	Duplicate	< 0.5	**0.83**	**37**	< 0.3	**9.4**	**0.75**	**0.29 J**	**1.9**	**3.4**	< 0.5	< 1	< 0.3
MW-25B	06/08/2016	Lower Gaspur	Primary	< 0.5	**1.2**	**40**	**0.46 J**	**7.9**	**1.1**	**0.4 J**	**2.8**	**3.8**	< 0.5	< 1	< 0.3
MW-25B	11/28/2016	Lower Gaspur	Primary	< 0.5	**0.91**	**24**	< 0.3	**5.2**	**2.4**	< 0.2	**1.5**	**2.4**	< 0.5	**2 J**	< 0.3
MW-25B	06/07/2017	Lower Gaspur	Primary	< 0.5	**0.79**	**16**	< 0.3	**3.4**	**1.1**	< 0.2	**1**	**0.86**	< 0.5	< 1 J	< 0.3
MW-26	01/01/2004	Exposition	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA
MW-26	11/01/2004	Exposition	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	NA
MW-26	08/01/2006	Exposition	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.9	NA
MW-26	03/01/2008	Exposition	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA
MW-26	05/17/2009	Exposition	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA
MW-26	03/28/2012	Exposition	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.2 J**	< 0.5
MW-26	06/19/2013	Exposition	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1 J	< 0.3
MW-26	06/19/2013	Exposition	Duplicate	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1 J	< 0.3
MW-26	06/10/2014	Exposition	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-26	08/08/2016	Exposition	Primary	< 0.5	< 0.2	**0.4 J**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-26	11/28/2016	Exposition	Primary	< 0.5	< 0.2	**0.52**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-26	06/09/2017	Exposition	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-27	01/01/2004	Intermediate Gaspur	Primary	< 0.5	**4.9**	**2.4**	< 0.5	**0.17 J**	< 0.5	< 0.5	**1.8**	< 0.5	< 0.5	NA	NA
MW-27	07/01/2004	Intermediate Gaspur	Primary	< 0.5	**3.4**	**2.3**	< 0.5	**0.2 J**	< 0.5	< 0.5	**1.7**	< 0.5	< 0.5	**0.5 J**	NA
MW-27	08/01/2006	Intermediate Gaspur	Primary	< 0.5	**1.4**	**0.87**	< 0.5	< 0.5	< 0.5	< 0.5	**0.72**	< 0.5	< 0.5	< 1	NA
MW-27	03/01/2008	Intermediate Gaspur	Primary	< 0.5	**1.6**	**1.1**	< 0.5	< 0.5	< 0.5	< 0.5	**1.2**	< 0.5	< 0.5	< 2	NA
MW-27	05/19/2009	Intermediate Gaspur	Primary	< 0.5	**12**	**8.6**	< 0.5	**1.9**	< 0.5	< 0.5	**3**	< 0.5	< 0.5	< 2	NA
MW-27	06/15/2011	Intermediate Gaspur	Primary	< 0.5	**1.6**	**4.9**	< 0.5	**0.58**	< 0.5	< 0.5	**0.87**	**0.87**	< 0.5	< 3.7	< 0.5
MW-27	06/15/2011	Intermediate Gaspur	Duplicate	< 0.5	**1.6**	**5.5**	< 0.5	**0.56**	< 0.5	< 0.5	**0.96**	**0.91**	< 0.5	< 3.7	< 0.5
MW-27	12/06/2011	Intermediate Gaspur	Primary	< 0.5	**2.9**	**18**	< 0.5	**2**	< 0.5	< 0.5	**1.6**	**3.2**	< 0.5	< 0.94	< 0.5
MW-27	06/08/2012	Intermediate Gaspur	Primary	< 0.5	**1.9**	**11**	< 0.5	**1.1**	< 0.5	< 0.5	**1.1**	**1.8**	< 0.5	< 0.94	< 0.5
MW-27	12/11/2012	Intermediate Gaspur	Primary	< 0.5	**1.4**	**6.5**	< 0.5	**0.55**	< 0.5	< 0.5	**1.1**	**0.97**	< 0.5	< 0.95	< 0.5
MW-27	06/18/2013	Intermediate Gaspur	Primary	< 0.5	**1.3**	**10**	< 0.3	**1.1**	< 0.5	< 0.2	**0.84**	**1.2**	< 0.5	< 1	< 0.3
MW-27	12/10/2013	Intermediate Gaspur	Primary	< 0.5	**1**	**6.1**	< 0.3	**0.82**	< 0.5	< 0.2	< 0.3	**0.52**	< 0.5	< 1	< 0.3
MW-27	06/10/2014	Intermediate Gaspur	Primary	< 0.5	**1**	**5.2**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-27	12/17/2014	Intermediate Gaspur	Primary	< 0.5	**0.7**	**2.2**	< 0.3	< 0.4	< 0.5	< 0.2	**0.3 J**	< 0.2	< 0.5	< 1	< 0.3
MW-27	06/08/2015	Intermediate Gaspur	Primary	< 0.5	**0.95**	**1.6**	< 0.3	< 0.4	< 0.5	< 0.2	**0.44 J**	< 0.2	< 0.5	< 1	< 0.3
MW-27	12/10/2015	Intermediate Gaspur	Primary	< 0.5	**1.5**	**2.4**	< 0.3	< 0.4	< 0.5	< 0.2	**0.65**	< 0.2	< 0.5	< 1	< 0.3
MW-27	06/09/2016	Intermediate Gaspur	Primary	< 0.5	**1.4**	**2.1**	< 0.3	**0.53**	< 0.5	< 0.2	**0.77**	< 0.2	< 0.5	< 1	< 0.3
MW-27	06/09/2016	Intermediate Gaspur	Duplicate	< 0.5	**1.3**	**1.9**	< 0.3	< 0.4	< 0.5	< 0.2	**0.52**	< 0.2	< 0.5	< 1	< 0.3
MW-27	11/29/2016	Intermediate Gaspur	Primary	< 0.5	**1.3**	**2.1**	< 0.3	**0.53**	< 0.5	< 0.2	**0.66**	< 0.2	< 0.5	< 1	< 0.3
MW-27	06/09/2017	Intermediate Gaspur	Primary	< 0.5	< 0.2	**0.53**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-28	01/01/2004	Lower Gaspur	Primary	< 0.5	**11**	**10**	< 0.5	**0.48 J**	< 0.5	< 0.5	**1.8 J**	< 0.5	< 0.5	NA	NA
MW-28	11/01/2004	Lower Gaspur	Primary	< 0.5	**18**	**21**	< 0.5	**1.1**	**0.73**	< 0.5	**2.4**	< 0.5	< 0.5	< 1	NA
MW-28	08/01/2006	Lower Gaspur	Primary	< 0.5	**13**	**15**	**0.44 J**	**0.77**	< 0.5	**0.74**	**1.4**	< 0.5	< 0.5	**5**	NA
MW-28	03/01/2008	Lower Gaspur	Primary	< 0.5	**20**	**29 D**	**0.73**	**1.7**	**0.63**	**0.73**	**1.8**	< 0.5	< 0.5	**15**	NA
MW-28	05/19/2009	Lower Gaspur	Primary	< 0.5	**15 D**	**26 D**	**0.73 J**	**1.3 J**	**0.41 J**	**2.3 J**	**1.6 J**	< 0.5	< 0.5	**7.6**	NA
MW-28	06/15/2011	Lower Gaspur	Primary	< 0.5	**23**	**36**	**0.72**	**2.1**	**0.56**	**2.2**	**2.9**	< 0.5	< 0.5	**13**	**0.58**
MW-28	12/07/2011	Lower Gaspur	Primary	< 0.5	**18**	**37**	**0.7**	**2.4**	**0.65**	**2.2**	**2.6**	< 0.5	< 0.5	**14**	**0.55**
MW-28	06/12/2012	Lower Gaspur	Primary	< 0.5	**5 J**	**14 J**	< 0.5	**0.69 J**	< 0.5	< 0.5	**1.2 J**	< 0.5	< 0.5	**11 J**	< 0.5

TABLE V
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-28	06/12/2012	Lower Gaspur	Duplicate	< 0.5	**4.1 J**	**12 J**	< 0.5	**0.6 J**	< 0.5	< 0.5	**1.1 J**	< 0.5	< 0.5	**11 J**	< 0.5
MW-28	12/12/2012	Lower Gaspur	Primary	< 0.5	**12**	**39**	**0.69**	**2.3**	**0.76**	**1.8**	**2.6**	**0.54**	< 0.5	**8.2**	**0.51**
MW-28	06/18/2013	Lower Gaspur	Primary	< 0.5	**0.96**	**59**	**1.1**	**3.8**	**0.81**	**2.4**	**2.6**	**0.27 J**	< 0.5	**13**	< 0.3
MW-28	12/10/2013	Lower Gaspur	Primary	< 0.5	**2.1**	**73**	**1.2**	**3.7**	**0.99**	**2.6**	**2.2**	**0.22 J**	< 0.5	**13**	< 0.3
MW-28	06/10/2014	Lower Gaspur	Primary	< 0.5	**1.9**	**63**	**0.98**	**3.2**	**0.75**	**1.7**	**1.9**	< 0.2	< 0.5	**14**	< 0.3
MW-28	12/19/2014	Lower Gaspur	Primary	< 0.5	**0.82**	**19**	< 0.3	**1**	< 0.5	**0.61**	**0.55**	< 0.2	< 0.5	**5**	< 0.3
MW-28	06/08/2015	Lower Gaspur	Primary	< 0.5	**3.7**	**50**	**0.67**	**3.1**	**1.6**	**1.8**	**2.7**	< 0.2	< 0.5	**10**	**0.56**
MW-28	06/08/2015	Lower Gaspur	Duplicate	< 0.5	**4**	**51**	**0.73**	**4**	**1.8**	**1.9**	**2.9**	< 0.2	< 0.5	**11**	**0.54**
MW-28	12/10/2015	Lower Gaspur	Primary	< 0.5	**3.5**	**50**	**0.72**	**3.4**	**2.4**	**1.6**	**2.2**	**0.41 J**	< 0.5	**9**	< 0.3
MW-28	06/08/2016	Lower Gaspur	Primary	< 0.5	**3.1**	**31**	**0.52**	**3.6**	**3.3**	**0.96**	**3.1**	**1.8**	< 0.5	**6.2**	< 0.3
MW-28	11/30/2016	Lower Gaspur	Primary	< 0.5	**2.2**	**20**	**0.4 J**	**1.8**	**1.9**	**0.51**	**1.5**	**0.82**	< 0.5	**5**	< 0.3
MW-28	06/08/2017	Lower Gaspur	Primary	< 0.5	**2.4**	**18**	< 0.3	**2.4**	**5.2**	**0.39 J**	**2.4**	**0.8**	< 0.5	**3.7**	< 0.3
MW-29	01/01/2004	Intermediate Gaspur	Primary	< 0.5	**16**	**4.7**	< 0.5	**0.63**	< 0.5	< 0.5	**1.5**	< 0.5	< 0.5	NA	NA
MW-29	11/01/2004	Intermediate Gaspur	Primary	< 0.5	**21**	**5.7**	**0.38 J**	**0.96**	**0.38 J**	< 0.5	< 0.5	< 0.5	< 0.5	**2.2**	NA
MW-29	08/01/2006	Intermediate Gaspur	Primary	**0.21 J**	**59 D**	**45 D**	**2.3**	**2.4**	**0.84**	**7.9**	**3.9**	**0.33 J**	< 0.5	NA	NA
MW-29	03/01/2008	Intermediate Gaspur	Primary	**0.25 J**	**74 D**	**61 D**	**2.1**	**4.2**	**1**	**5**	**2.8**	**0.34 J**	< 0.5	**14**	NA
MW-29	05/18/2009	Intermediate Gaspur	Primary	< 0.5	**40 D**	**82 D**	**2.1**	**3.3**	**0.72**	**5.9 J**	**3.1 J**	**0.42 J**	**0.8**	**11**	NA
MW-29	06/16/2011	Intermediate Gaspur	Primary	< 0.5	**5.8**	**73**	**0.89**	**6.3**	**0.52**	**2**	**2.3**	**0.77**	< 0.5	**11**	< 0.5
MW-29	06/16/2011	Intermediate Gaspur	Duplicate	< 0.5	**6.1**	**72**	**0.89**	**6.4**	< 0.5	**2**	**2.3**	**0.79**	< 0.5	**11**	< 0.5
MW-29	12/08/2011	Intermediate Gaspur	Primary	< 0.5	**4.7**	**51**	**0.51**	**4.2**	< 0.5	**1.1**	**2.4**	**1.6**	< 0.5	**9.2 J**	< 0.5
MW-29	06/08/2012	Intermediate Gaspur	Primary	< 0.5	**3.6**	**49**	< 0.5	**4.1**	< 0.5	**1.1**	**2.3**	**2.1**	< 0.5	**6.5**	< 0.5
MW-29	12/13/2012	Intermediate Gaspur	Primary	< 0.5	**2.5**	**49**	< 0.5	**4**	< 0.5	**0.96**	**2.9**	**2.2**	< 0.5	< 6.5	< 0.5
MW-29	06/18/2013	Intermediate Gaspur	Primary	< 0.5	**1.4**	**40**	**0.59**	**3.4**	**0.76**	**1**	**2**	**1.9**	< 0.5	**5.7**	< 0.3
MW-29	12/10/2013	Intermediate Gaspur	Primary	< 0.5	**1**	**50**	**0.74**	**5.6**	< 0.5	**0.81**	**2.2**	**3.5**	< 0.5	**6.1**	< 0.3
MW-29	06/10/2014	Intermediate Gaspur	Primary	< 0.5	**1**	**49**	**0.72**	**4.1**	**0.69**	**1.1**	**2.1**	**2.6**	< 0.5	**7.5**	< 0.3
MW-29	12/16/2014	Intermediate Gaspur	Primary	< 0.5	**0.8**	**41**	**0.64**	**3.8**	**0.72**	**0.87**	**1.4**	**3.3**	< 0.5	**6.5**	< 0.3
MW-29	06/08/2015	Intermediate Gaspur	Primary	< 0.5	**2.1**	**38**	**0.53**	**4.4**	**0.75**	**0.83**	**2**	**3.3**	< 0.5	**4.2**	< 0.3
MW-29	12/08/2015	Intermediate Gaspur	Primary	< 0.5	**0.81**	**62**	**1**	**5.8**	**1.8**	**1.5**	**2.6**	**1.9**	< 0.5	**5.2**	< 0.3
MW-29	06/08/2016	Intermediate Gaspur	Primary	< 0.5	**0.74**	**43**	**0.78**	**5.8**	**0.82**	**0.76**	**2.3**	**1.9**	< 0.5	**2.1**	< 0.3
MW-29	11/30/2016	Intermediate Gaspur	Primary	< 0.5	**0.53**	**41**	**0.45 J**	**6.6**	< 0.5	**0.5**	**2**	**2.5**	< 0.5	**2.6**	< 0.3
MW-29	06/08/2017	Intermediate Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-29A	03/01/2008	Shallow Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.28 J**	NA
MW-29A	05/18/2009	Shallow Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA
MW-29A	06/14/2011	Shallow Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 3.7	< 0.5
MW-29A	12/06/2011	Shallow Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.94	< 0.5
MW-29A	12/06/2011	Shallow Gaspur	Duplicate	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.95	< 0.5
MW-29A	06/07/2012	Shallow Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.94 J	< 0.5
MW-29A	12/11/2012	Shallow Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-29A	06/18/2013	Shallow Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-29A	12/10/2013	Shallow Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-29A	12/10/2013	Shallow Gaspur	Duplicate	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-29A	12/16/2014	Shallow Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-29A	12/08/2015	Shallow Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-29A	11/30/2016	Shallow Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-30	01/01/2004	Lower Gaspur	Primary	< 0.5	**110 D**	**5.1**	**0.43 J**	**0.84**	< 0.5	< 0.5	**2.7**	< 0.5	< 0.5	NA	NA
MW-30	07/01/2004	Lower Gaspur	Primary	< 0.5	**110 D**	**6.1**	**0.77**	**1.4**	**0.2 J**	**0.42 J**	**3.7**	< 0.5	< 0.5	**8.5**	NA
MW-30	08/01/2006	Lower Gaspur	Primary	< 0.5	**180 D**	**9.4**	**1.1**	**1.5**	< 0.5	**1.5**	**5.3**	< 0.5	< 0.5	**8.1**	NA
MW-30	03/01/2008	Lower Gaspur	Primary	< 0.5	**180 D**	**16**	**1.1**	**2.5**	**0.44 J**	**1.7**	**5.4**	**0.26 J**	< 0.5	**8.1**	NA

TABLE V
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-30	05/19/2009	Lower Gaspur	Primary	< 0.5	**100 D**	**37 D**	**1.4**	**2.6**	< 0.5	**2 J**	**4.9 J**	**0.33 J**	< 0.5	**5.4**	NA
MW-30	06/16/2011	Lower Gaspur	Primary	< 0.5	**72**	**52**	**0.93**	**2.2**	< 0.5	**1.4**	**3**	< 0.5	< 0.5	**11**	< 0.5
MW-30	12/08/2011	Lower Gaspur	Primary	< 0.5	**44**	**54**	**0.66**	**1.9**	< 0.5	**1.2**	**2.6**	< 0.5	< 0.5	**11 J**	< 0.5
MW-30	06/12/2012	Lower Gaspur	Primary	< 0.5	**29**	**66**	**0.78**	**2.1**	**5.3**	**1.2**	**2.8**	< 0.5	< 0.5	**10**	< 0.5
MW-30	12/13/2012	Lower Gaspur	Primary	< 0.5	**33**	**70**	**0.88**	**2.6**	**2.3**	**1.3**	**2.9**	< 0.5	< 0.5	< 12	< 0.5
MW-30	12/10/2013	Lower Gaspur	Primary	< 0.5	**13**	**74**	**0.95**	**3.9**	**3.1**	**1.1**	**1.6**	< 0.2	< 0.5	**10**	< 0.3
MW-30	12/16/2014	Lower Gaspur	Primary	< 0.5	**6.7**	**63**	**0.71**	**4.6**	**1.6**	**0.76**	**1.1**	< 0.2	< 0.5	**11**	< 0.3
MW-30	12/08/2015	Lower Gaspur	Primary	< 0.5	**4.8**	**71**	**0.79**	**3.9**	**3**	**1.1**	**1.7**	< 0.2	< 0.5	**10**	< 0.3
MW-30	06/08/2016	Lower Gaspur	Primary	< 0.5	**3.4**	**57**	**0.93**	**5.6**	**0.58**	**0.96**	**1.2**	< 0.2	< 0.5	**9.6**	< 0.3
MW-30	11/30/2016	Lower Gaspur	Primary	< 0.5	**1.8**	**61**	**0.71**	**5.8**	**1.4**	**0.83**	**1.3**	< 0.2	< 0.5	**9.7**	< 0.3
MW-30	06/08/2017	Lower Gaspur	Primary	< 0.5	**2.5**	**68**	**0.75**	**6.1**	**5.3**	**1.1**	**1.4**	< 0.2	< 0.5	**13**	< 0.3
MW-31	01/01/2004	Intermediate Gaspur	Primary	< 0.5	**79 D**	**22 D**	**1.4**	**2**	< 0.5	< 0.5	**8**	**0.42 J**	< 0.5	NA	NA
MW-31	07/01/2004	Intermediate Gaspur	Primary	< 0.5	**63 D**	**17**	**1.3**	**1.6**	**0.26 J**	**0.36 J**	**5.5**	**0.31 J**	< 0.5	**17**	NA
MW-31	08/01/2006	Intermediate Gaspur	Primary	< 0.5	**11**	**4.4**	**0.49 J**	< 0.5	< 0.5	**0.49 J**	< 0.5	< 0.5	< 0.5	**2.6**	NA
MW-31	03/01/2008	Intermediate Gaspur	Primary	< 0.5	**5.6**	**3.5**	**0.32 J**	**0.73**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.7 J**	NA
MW-31	05/17/2009	Intermediate Gaspur	Primary	< 0.5	**10**	**5.4**	**0.4 J**	**0.73**	< 0.5	< 0.5	**0.29 J**	< 0.5	< 0.5	< 2	NA
MW-31	06/14/2011	Intermediate Gaspur	Primary	< 0.5	**24**	**13**	**0.81**	**1.1**	< 0.5	**0.53**	< 0.5	< 0.5	< 0.5	**15**	**2.4**
MW-31	12/07/2011	Intermediate Gaspur	Primary	< 0.5	**41**	**22**	**1.4**	**1.9**	< 0.5	**0.99**	< 0.5	< 0.5	< 0.5	**12 J**	**4**
MW-31	06/07/2012	Intermediate Gaspur	Primary	< 0.5	**35**	**24**	**1.2**	**1.6**	< 0.5 J	**1.2**	< 0.5	< 0.5	< 0.5	**16 J**	**3.1**
MW-31	12/12/2012	Intermediate Gaspur	Primary	< 0.5	**53**	**33**	**1.9**	**2.2**	< 0.5	**1.8**	< 0.5	< 0.5	< 0.5	**45**	**3.9**
MW-31	12/10/2013	Intermediate Gaspur	Primary	< 0.5	**30**	**25**	**1.4**	**1.9**	< 0.5	**1.1**	< 0.3	< 0.2	< 0.5	**21**	**3.5**
MW-31	12/17/2014	Intermediate Gaspur	Primary	< 0.5	**18**	**15**	**1.4**	**1.2**	< 0.5	**0.56**	< 0.3	< 0.2	< 0.5	**19**	< 0.3
MW-31	12/08/2015	Intermediate Gaspur	Primary	< 0.5	**16**	**15**	**1.6**	**1.3**	< 0.5	**0.86**	< 0.3	< 0.2	< 0.5	**14**	**0.94**
MW-31	11/29/2016	Intermediate Gaspur	Primary	< 0.5	**9.5**	**14**	**1.5**	**1.2**	< 0.5	**0.61**	**0.43 J**	< 0.2	< 0.5	**11**	< 0.3
MW-31	06/09/2017	Intermediate Gaspur	Primary	< 0.5	**0.8**	**3.5**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**3.6**	< 0.3
MW-31A	03/01/2008	Shallow Gaspur	Primary	< 0.5	**0.44 J**	**12**	< 0.5	**0.4 J**	**0.38 J**	< 0.5	< 0.5	< 0.5	< 0.5	**1.4 J**	NA
MW-31A	05/17/2009	Shallow Gaspur	Primary	< 0.5	**0.34 J**	**14**	< 0.5	**0.43 J**	**0.36 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA
MW-31A	06/14/2011	Shallow Gaspur	Primary	< 0.5	< 0.5	**13**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**3 J**	< 0.5
MW-31A	12/06/2011	Shallow Gaspur	Primary	< 0.5	< 0.5	**12**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**3.3**	< 0.5
MW-31A	06/07/2012	Shallow Gaspur	Primary	< 0.5	< 0.5	**12**	< 0.5	< 0.5	< 0.5 J	< 0.5	< 0.5	< 0.5	< 0.5	**1.8 J**	< 0.5
MW-31A	12/11/2012	Shallow Gaspur	Primary	< 0.5	< 0.5	**14**	< 0.5	**0.59**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5
MW-31A	12/11/2012	Shallow Gaspur	Duplicate	< 0.5	< 0.5	**14**	< 0.5	**0.59**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.7**	< 0.5
MW-31A	12/10/2013	Shallow Gaspur	Primary	< 0.5	< 0.2	**17**	< 0.3	**0.77**	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-31A	12/17/2014	Shallow Gaspur	Primary	< 0.5	< 0.2	**9.8**	< 0.3	**0.42 J**	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-31A	12/08/2015	Shallow Gaspur	Primary	< 0.5	< 0.2	**14**	< 0.3	**0.57**	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-31A	12/08/2015	Shallow Gaspur	Duplicate	< 0.5	**0.28 J**	**13**	< 0.3	**0.55**	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-31A	11/29/2016	Shallow Gaspur	Primary	< 0.5	< 0.2	**6.6**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-31A	06/07/2017	Shallow Gaspur	Primary	< 0.5	< 0.2	**4.4**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-31B	03/01/2008	Lower Gaspur	Primary	< 0.5	**250 D**	**13**	**1.7**	**4**	**0.34 J**	**2**	**4.9**	**0.2 J**	< 0.5	**9.7**	NA
MW-31B	05/17/2009	Lower Gaspur	Primary	< 0.5 J	**180 DJ**	**13 J**	**0.9 J**	**3.2 J**	< 0.5 J	**1.1 J**	**2.5 J**	< 0.5 J	< 0.5 J	< 2	NA
MW-31B	06/16/2011	Lower Gaspur	Primary	< 0.5	**63**	**29**	**0.53**	**3.3**	< 0.5	< 0.5	**1.4**	< 0.5	< 0.5	**3.6 J**	< 0.5
MW-31B	12/07/2011	Lower Gaspur	Primary	< 0.5	**41**	**28**	**0.55**	**3**	< 0.5	< 0.5	**0.99**	< 0.5	< 0.5	**2.5**	< 0.5
MW-31B	06/12/2012	Lower Gaspur	Primary	< 0.5	**7.6**	**63**	**0.5**	**1.4**	< 0.5	**0.71**	**3.1**	< 0.5	< 0.5	**2.2**	< 0.5
MW-31B	12/13/2012	Lower Gaspur	Primary	< 0.5	**14**	**52**	**0.54**	**3.8**	< 0.5	< 0.5	**1.5**	< 0.5	< 0.5	< 3.5	< 0.5
MW-31B	12/10/2013	Lower Gaspur	Primary	< 0.5	**5**	**87**	**1**	**9.5**	< 0.5	< 0.2	**2**	< 0.2	< 0.5	**4.8**	< 0.3
MW-31B	12/17/2014	Lower Gaspur	Primary	< 0.5	**2.5**	**71**	**0.72**	**9.5**	< 0.5	**0.56**	**1.8**	< 0.2	< 0.5	**5.8**	< 0.3
MW-31B	12/08/2015	Lower Gaspur	Primary	< 0.5	**3**	**64**	**0.86**	**9.4**	< 0.5	**0.68**	**2.2**	< 0.2	< 0.5	**4.6**	< 0.3
MW-31B	11/29/2016	Lower Gaspur	Primary	< 0.5	**2**	**53**	**1**	**7.1**	< 0.5	**0.79**	**2**	< 0.2	< 0.5	**6.2**	< 0.3

TABLE V
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-31B	06/07/2017	Lower Gaspur	Primary	< 0.5	**1.6**	**47**	**0.84**	**3.4**	< 0.5	**0.67**	**2.9**	< 0.2	< 0.5	**8.5**	< 0.3
MW-31B	06/07/2017	Lower Gaspur	Duplicate	< 0.5	**1.7**	**49**	**0.97**	**3.4**	< 0.5	**0.62**	**2.9**	< 0.2	< 0.5	**8.3**	< 0.3
MW-32	01/01/2004	Exposition	Primary	< 0.5	**1.3**	**0.17 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA
MW-32	01/01/2004	Exposition	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA
MW-32	11/01/2004	Exposition	Primary	< 0.5	**0.46 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	NA
MW-32	08/01/2006	Exposition	Primary	< 0.5	**0.24 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.9	NA
MW-32	03/01/2008	Exposition	Primary	< 0.5	**0.47 J**	< 0.5	< 0.5	< 0.5	**0.73**	< 0.5	**0.32 J**	< 0.5	< 0.5	< 2	NA
MW-32	05/15/2009	Exposition	Primary	< 0.5	**0.33 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA
MW-32	12/05/2011	Exposition	Primary	< 0.5	**1.1**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.94	< 0.5
MW-32	06/07/2012	Exposition	Primary	< 0.5	**0.83**	**1**	< 0.5	< 0.5	< 0.5 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.94	< 0.5
MW-32	12/11/2012	Exposition	Primary	< 0.5	**0.9**	**1**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.95	< 0.5
MW-32	06/11/2014	Exposition	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-32	07/13/2016	Exposition	Primary	< 0.5	< 0.5	**0.67**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-32	07/13/2016	Exposition	Duplicate	< 0.5	< 0.5	**0.63**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-32	08/08/2016	Exposition	Primary	< 0.5	< 0.2	**1.2**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-32	11/29/2016	Exposition	Primary	< 0.5	< 0.2	**1.3**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-32	06/09/2017	Exposition	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-33A	07/01/2005	Shallow Gaspur	Primary	< 0.5	**2.3**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**540**	NA
MW-33A	07/01/2005	Shallow Gaspur	Primary	**5.6**	**940 D**	**190 D**	**29 E**	**12**	**4.6**	**50 D**	**8.1**	**2.5**	**4.9**	**630**	NA
MW-33A	08/01/2005	Shallow Gaspur	Primary	**4.6**	**1200**	**190**	**27**	**15**	**7.2**	**49**	**7.3**	**2.2**	**3.9**	**470**	NA
MW-33A	09/01/2005	Shallow Gaspur	Primary	**4.9**	**1200**	**210**	**33**	**11**	**5.5**	**52**	**6.1**	**2**	**3.3**	**500**	NA
MW-33A	09/01/2005	Shallow Gaspur	Primary	**1.6**	**990**	**100**	**9.9**	**4.3**	**1.6**	**19**	**4.2**	**0.9**	**1.9**	**350**	NA
MW-33A	10/01/2005	Shallow Gaspur	Primary	**2.9**	**450**	**100**	**16**	**6**	**2.4**	**26**	**4.4**	**1.2**	**2.7**	**440**	NA
MW-33A	11/01/2005	Shallow Gaspur	Primary	**4.4**	**680**	**140**	**20**	**7.8**	**3.2**	**42**	**5**	**1**	**3.4**	**300**	NA
MW-33A	01/01/2006	Shallow Gaspur	Primary	**1.6**	**670**	**74**	**10**	**3.7**	**0.9**	**18**	**3.2**	**0.7**	**1.4**	**270**	NA
MW-33A	03/01/2006	Shallow Gaspur	Primary	< 2.5	**280 D**	**33**	**4.2**	< 2.5	< 2.5	**10**	< 2.5	< 2.5	< 2.5	**170**	NA
MW-33A	04/01/2006	Shallow Gaspur	Primary	**0.6**	**160**	**25**	**2.3**	**1.1**	**0.3**	**9.4**	**1.7**	**0.3**	**0.9**	**140**	NA
MW-33A	04/01/2006	Shallow Gaspur	Primary	**1.1**	**260**	**29**	**5**	**1.9**	**0.7**	**12**	**1.9**	**0.3**	**1**	**120**	NA
MW-33A	05/01/2006	Shallow Gaspur	Primary	**0.4**	**120**	**14**	**1.7**	**0.7**	**0.2**	**5.3**	**0.8**	< 0.5	**0.4**	**220**	NA
MW-33A	06/01/2006	Shallow Gaspur	Primary	**1.6**	**180**	**62**	**3.5**	**2.1**	**0.6**	**22**	**2.3**	**0.3**	**2.4**	**99**	NA
MW-33A	08/01/2006	Shallow Gaspur	Primary	< 0.5	**130 D**	**41 D**	**2.9**	**1.6**	< 0.5	**21**	< 0.5	**0.33 J**	**1.5**	**74**	NA
MW-33A	03/01/2008	Shallow Gaspur	Primary	**2.2**	**490 D**	**140 D**	**17**	**6.3**	**2.4**	**28 D**	**3.5**	**1**	**2.4**	**450 D**	NA
MW-33A	05/12/2009	Shallow Gaspur	Primary	**1.8 J**	**480 D**	**81 D**	**12 J**	**4 J**	**1.6 J**	**26 J**	< 2.5	< 2.5	< 2.5	**110 D**	NA
MW-33A	06/16/2011	Shallow Gaspur	Primary	< 1	**140**	**130**	**7.9**	**3.6**	**1.4**	**23**	**2.1**	< 1	**1.7**	**300**	< 1
MW-33A	06/16/2011	Shallow Gaspur	Duplicate	< 1	**140**	**130**	**7.8**	**3.5**	**1.4**	**23**	**2**	< 1	< 1	**280**	< 1
MW-33A	12/09/2011	Shallow Gaspur	Primary	< 1	**130**	**160**	**7.3**	**4.3**	**2.1**	**28**	**3.2**	< 1	**2**	**170 J**	< 1
MW-33A	06/08/2012	Shallow Gaspur	Primary	**0.75**	**130**	**170**	**10**	**4.9**	**2.5**	**34**	**3.2**	**0.54**	< 0.5	**280 J**	**1.2**
MW-33A	12/14/2012	Shallow Gaspur	Primary	< 0.5	**53**	**190**	**9.2**	**4.5**	**3**	**35**	**2.9**	< 0.5	**1.7**	**170 J**	**0.86**
MW-33A	06/19/2013	Shallow Gaspur	Primary	< 0.5	**46**	**270**	**16**	**9.2**	**6.7**	**54**	**4.2**	**0.65**	**2.1**	**180 J**	**0.92**
MW-33A	12/12/2013	Shallow Gaspur	Primary	< 0.5	**78**	**150**	**11**	**4.7**	**3.4**	**33**	**2.4**	**0.46 J**	< 0.5	**160**	< 0.3
MW-33A	06/09/2014	Shallow Gaspur	Primary	< 0.5	**32**	**200**	**11**	**6.7**	**4.9**	**29**	**2.4**	**0.49 J**	< 0.5	**180**	< 0.3
MW-33A	12/16/2014	Shallow Gaspur	Primary	< 0.5	**56**	**140**	**10**	**5.6**	**3.3**	**37**	**2.3**	**0.4 J**	< 0.5	**150**	< 0.3
MW-33A	12/16/2014	Shallow Gaspur	Duplicate	< 0.5	**66**	**130**	**11**	**5.4**	**3.2**	**34**	**2.1**	**0.38 J**	< 0.5	**160**	< 0.3
MW-33A	06/10/2015	Shallow Gaspur	Primary	< 0.5	**63**	**89**	**9.2**	**4.9**	**3.3**	**36**	**3.9**	**0.41 J**	**1.3**	**180**	< 0.3
MW-33A	12/09/2015	Shallow Gaspur	Primary	< 0.5	**97**	**120**	**14**	**7**	**4.6**	**46**	**3.9**	**0.6**	**1.8**	**260**	< 0.3
MW-33A	06/10/2016	Shallow Gaspur	Primary	< 0.5	**96**	**150**	**19**	**7.9**	**3.4**	**49**	**3.8**	< 0.2	< 0.5	**260**	< 0.3
MW-33A	12/01/2016	Shallow Gaspur	Primary	< 0.5	**130**	**190**	**19**	**10**	**4.2**	**59**	**4.3**	**1**	< 0.5	**230**	< 0.3
MW-33A	06/08/2017	Shallow Gaspur	Primary	< 0.5	**110**	**200**	**12**	**7.7**	**2.3**	**45**	**3.2**	**0.85**	**2.5**	**260**	< 0.3

TABLE V
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-33B	07/01/2005	Intermediate Gaspur	Primary	< 0.5	**39 D**	**41 D**	**1.1**	**0.5 JB**	**1.9 B**	**1.3**	< 0.5	< 0.5	< 0.5	**1.4**	NA
MW-33B	07/01/2005	Intermediate Gaspur	Primary	< 0.5	**26 D**	**30 D**	< 0.5	**2.5**	< 0.5	**1.9**	< 0.5	**0.15 J**	< 0.5	**2.1**	NA
MW-33B	08/01/2005	Intermediate Gaspur	Primary	< 0.5	**30**	**36**	**2.3**	**3.8**	**0.6**	**2.9**	**0.5**	< 0.5	< 0.5	**2.5**	NA
MW-33B	09/01/2005	Intermediate Gaspur	Primary	< 0.5	**38**	**42**	**2.4**	**3.3**	**0.6**	**2.4**	< 0.5	< 0.5	< 0.5	**2**	NA
MW-33B	09/01/2005	Intermediate Gaspur	Primary	< 0.5	**34**	**32**	**1.5**	**2.7**	< 0.5	**1.7**	< 0.5	< 0.5	< 0.5	< 1	NA
MW-33B	10/01/2005	Intermediate Gaspur	Primary	< 0.5	**35**	**28**	**1**	**2.1**	**0.2 J**	**1.2**	**0.3**	< 0.5	< 0.5	**0.6**	NA
MW-33B	11/01/2005	Intermediate Gaspur	Primary	< 0.5	**34**	**28**	**1.3**	**2.9**	**0.3**	**1.3**	**0.3**	< 0.5	< 0.5	**0.6 J**	NA
MW-33B	01/01/2006	Intermediate Gaspur	Primary	< 0.5	**41**	**28**	**1.5**	**3.1**	**0.3**	**1.4**	**0.4**	< 0.5	< 0.5	**0.7**	NA
MW-33B	03/01/2006	Intermediate Gaspur	Primary	< 0.5	**26 D**	**25 D**	**0.97**	**1.9**	< 0.5	**1.2**	< 0.5	< 0.5	< 0.5	**0.8**	NA
MW-33B	04/01/2006	Intermediate Gaspur	Primary	< 0.5	**30**	**26**	**0.9**	**1.9**	**0.3**	**1.2**	< 0.5	**0.3 J**	< 0.5	**0.8**	NA
MW-33B	05/01/2006	Intermediate Gaspur	Primary	< 0.5	**24**	**24**	**1**	**1.9**	**0.2 J**	**1.1**	< 0.5	< 0.5	< 0.5	**0.8**	NA
MW-33B	06/01/2006	Intermediate Gaspur	Primary	< 0.5	**25**	**28**	**0.9**	**2.1**	**0.2**	**1**	**0.2 J**	< 0.5	< 0.5	**1**	NA
MW-33B	08/01/2006	Intermediate Gaspur	Primary	< 0.5	**21**	**27 D**	**0.95**	**1.7**	< 0.5	**1.4**	< 0.5	< 0.5	< 0.5	**0.7 J**	NA
MW-33B	03/01/2008	Intermediate Gaspur	Primary	< 0.5	**31 D**	**140 D**	**4.9**	**6.5**	**1.3**	**8.4**	**0.68**	**0.25 J**	**0.77**	**16**	NA
MW-33B	05/12/2009	Intermediate Gaspur	Primary	< 2.5	**28**	**160 D**	**7**	**5.4**	**1.8 J**	**12**	< 2.5	< 2.5	< 2.5	< 2	NA
MW-33B	07/14/2010	Intermediate Gaspur	Primary	< 0.5	**19**	**160**	**10**	**7.1**	**1.8**	**14**	**0.88**	< 0.5	**0.79**	**22 J**	< 0.5
MW-33B	06/16/2011	Intermediate Gaspur	Primary	< 0.5	**9.2**	**120**	**7.8**	**5.5**	**2.9**	**8.5**	**0.51**	< 0.5	< 0.5	**40**	< 0.5
MW-33B	12/08/2011	Intermediate Gaspur	Primary	< 0.5	**9.9**	**100**	**6**	**4.5**	**1.6**	**8.1**	**0.59**	< 0.5	**0.66**	**18**	< 0.5
MW-33B	06/08/2012	Intermediate Gaspur	Primary	< 0.5	**8**	**140**	**8.9**	**6.4**	**2**	**9.9**	**0.81**	< 0.5	**1.1**	**16 J**	< 0.5
MW-33B	12/14/2012	Intermediate Gaspur	Primary	< 0.5	**6.1**	**130**	**7.1**	**5.2**	**1.2**	**7.6**	**0.56**	< 0.5	**0.78**	**14 J**	< 0.5
MW-33B	06/20/2013	Intermediate Gaspur	Primary	< 0.5	**5.2**	**120**	**7.4**	**4.1**	**1.5**	**12**	**0.61**	< 0.2	< 0.5	**25**	< 0.3
MW-33B	12/12/2013	Intermediate Gaspur	Primary	< 0.5	**3**	**39**	**3.8**	**2**	**0.68**	**2.4**	< 0.3	< 0.2	< 0.5	**12**	< 0.3
MW-33B	06/09/2014	Intermediate Gaspur	Primary	< 0.5	**2.2**	**22**	**1.6**	**1.1**	< 0.5	**1.4**	**0.41 J**	< 0.2	< 0.5	**4.6**	< 0.3
MW-33B	12/16/2014	Intermediate Gaspur	Primary	< 0.5	**2.2**	**43**	**2.9**	**2**	< 0.5	**2.6**	**0.37 J**	< 0.2	< 0.5	**5**	< 0.3
MW-33B	06/10/2015	Intermediate Gaspur	Primary	< 0.5	**2.5**	**42**	**2.9**	**2.5**	< 0.5	**2.5**	**0.86**	< 0.2	< 0.5	**4**	< 0.3
MW-33B	12/09/2015	Intermediate Gaspur	Primary	< 0.5	**2.1**	**44**	**2.4**	**2**	< 0.5	**2.6**	**0.87**	< 0.2	< 0.5	**3.1**	< 0.3
MW-33B	06/10/2016	Intermediate Gaspur	Primary	< 0.5	**2.1 J**	**29**	**2.4**	**1.3**	< 0.5	**1.3**	**0.59**	< 0.2	< 0.5	**4.8**	< 0.3
MW-33B	06/10/2016	Intermediate Gaspur	Duplicate	< 0.5	**3.7 J**	**30**	**2.5**	**1.5**	< 0.5	**1.6**	**0.64**	< 0.2	< 0.5	**4.7**	< 0.3
MW-33B	12/01/2016	Intermediate Gaspur	Primary	< 0.5	**2.3**	**35**	**3.3**	**2.1**	< 0.5	**1.2**	**0.6**	< 0.2	< 0.5	**8.3**	< 0.3
MW-33B	06/09/2017	Intermediate Gaspur	Primary	< 0.5	**0.71**	**1.6**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-34	03/01/2008	Shallow Gaspur	Primary	< 0.5	**6.1**	**180 D**	**1.4**	**8.1**	**1.1**	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA
MW-34	05/16/2009	Shallow Gaspur	Primary	< 0.5	**46 E**	**420 E**	**1.8**	**24 E**	**0.71**	**0.5**	< 0.5	< 0.5	< 0.5	< 2	NA
MW-34	12/09/2011	Shallow Gaspur	Primary	< 2.5	**46**	**540**	< 2.5	**20**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**5.6**	< 2.5
MW-34	12/09/2011	Shallow Gaspur	Duplicate	< 5	**41**	**500**	< 5	**18**	< 5	< 5	< 5	< 5	< 5	**5.3**	< 5
MW-34	06/12/2012	Shallow Gaspur	Primary	< 2.5	**56**	**620**	< 2.5	**25**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**5.3**	< 2.5
MW-34	06/12/2012	Shallow Gaspur	Split	< 2	**52**	**600 D**	**2.1**	**26**	**1.4 J**	**2.2**	< 2	< 2	< 2	**2.5**	NA
MW-34	06/12/2012	Shallow Gaspur	Duplicate	< 5	**64**	**730**	< 5	**28**	< 5	< 5	< 5	< 5	< 5	**5.2**	< 5
MW-34	12/12/2012	Shallow Gaspur	Primary	< 5	**63**	**610**	< 5	**26**	< 5	< 5	< 5	< 5	< 5	**4.8**	< 5
MW-34	12/12/2012	Shallow Gaspur	Duplicate	< 5	**64**	**630**	< 5	**28**	< 5	< 5	< 5	< 5	< 5	**5.3**	< 5
MW-34	03/26/2014	Shallow Gaspur	Primary	< 2.5	**45**	**470**	< 2.5	**25**	< 2.5	**1.6 J**	< 2.5	< 2.5	< 2.5	**1.3**	< 2.5
MW-34	03/26/2014	Shallow Gaspur	Duplicate	< 2	**38**	**450**	< 2	**20**	< 2	**1.3 J**	< 2	< 2	< 2	**1.5**	< 2
MW-34	07/12/2016	Shallow Gaspur	Primary	< 0.5	**4.5**	**170**	**0.94**	**9.9**	**0.81**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-34	11/30/2016	Shallow Gaspur	Primary	< 1	**22**	**390**	**1.6**	**17**	< 1	**0.82 J**	< 0.6	< 0.4	< 1	**1.6 J**	< 0.6
MW-34	06/06/2017	Shallow Gaspur	Primary	< 0.5	**14**	**290**	**1.4**	**18**	**1.1**	**0.48 J**	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-35	03/01/2008	Lower Gaspur	Primary	< 0.5	**120 D**	**78 D**	**2**	**12**	**0.43 J**	**0.92**	**10**	**0.41 J**	< 0.5	**7.8**	NA
MW-35	05/15/2009	Lower Gaspur	Primary	< 0.5	**120 D**	**19 D**	**1.1**	**8.1**	< 0.5	**0.44 J**	**9.2 J**	**0.31 J**	< 0.5	< 2	NA
MW-35	12/07/2011	Lower Gaspur	Primary	< 0.5	**17**	**45**	**0.67**	**4.2**	< 0.5	< 0.5	**6.5**	< 0.5	< 0.5	**6.3**	< 0.5
MW-35	06/08/2012	Lower Gaspur	Primary	< 0.5	**16**	**37**	**0.64**	**3.3**	< 0.5	< 0.5	**5.6**	< 0.5	< 0.5	**7.8**	< 0.5

TABLE V
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-35	12/12/2012	Lower Gaspur	Primary	< 0.5	**4.6**	**26**	< 0.5	**3.5**	**20**	< 0.5	**8.6**	< 0.5	< 0.5	**7.4**	< 0.5
MW-35	03/26/2014	Lower Gaspur	Primary	< 0.5	**6.9**	**58**	< 0.5	**5.5**	< 0.5	**0.33 J**	**5.8**	< 0.5	< 0.5	**2.3**	< 0.5
MW-35	07/12/2016	Lower Gaspur	Primary	< 0.5	**3.5**	**330**	**4**	**15**	< 0.5	**3**	**6.8**	**0.7**	< 0.5	**19**	< 0.5
MW-35	11/30/2016	Lower Gaspur	Primary	< 2.5	**1.9 J**	**420**	**4.4**	**15**	< 2.5	**3.2**	**5.2**	< 1	< 2.5	**23**	< 1.5
MW-35	06/06/2017	Lower Gaspur	Primary	< 0.5	< 0.2	**0.61**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-36	03/01/2008	Intermediate Gaspur	Primary	< 0.5	**7.6**	**4.9**	< 0.5	**0.61**	< 0.5	**0.24 J**	**1.6**	< 0.5	< 0.5	**0.82 J**	NA
MW-36	05/15/2009	Intermediate Gaspur	Primary	< 0.5	**7**	**6.7**	< 0.5	**1.4**	< 0.5	< 0.5 J	**2.4**	< 0.5	< 0.5	**2.2**	NA
MW-36	06/15/2011	Intermediate Gaspur	Primary	< 0.5	**7.8**	**12**	< 0.5	**2.4**	< 0.5	< 0.5	**3**	**0.61**	< 0.5	< 4	< 0.5
MW-36	06/15/2011	Intermediate Gaspur	Duplicate	< 0.5	**8.1**	**13**	< 0.5	**2.5**	< 0.5	< 0.5	**3.2**	**0.61**	< 0.5	< 4	< 0.5
MW-36	12/08/2011	Intermediate Gaspur	Primary	< 0.5	**9.8**	**13**	< 0.5	**2.7**	< 0.5	< 0.5	**2.9**	< 0.5	< 0.5	< 0.96	< 0.5
MW-36	06/08/2012	Intermediate Gaspur	Primary	< 0.5	**9.9**	**13**	< 0.5	**3.4**	< 0.5	< 0.5	**2.3**	< 0.5	< 0.5	< 0.94	< 0.5
MW-36	12/11/2012	Intermediate Gaspur	Primary	< 0.5	**4.4**	**5.3**	< 0.5	**0.75**	< 0.5	< 0.5	**2.7**	< 0.5	< 0.5	**0.98**	< 0.5
MW-36	06/20/2013	Intermediate Gaspur	Primary	< 0.5	**8.2**	**11**	< 0.3	**4.4**	< 0.5	< 0.2	**1.8**	< 0.2	< 0.5	< 1	< 0.3
MW-36	12/10/2013	Intermediate Gaspur	Primary	< 0.5	**8.2**	**11**	< 0.3	**3.2**	< 0.5	< 0.2	**1.4**	< 0.2	< 0.5	< 1	< 0.3
MW-36	06/10/2014	Intermediate Gaspur	Primary	< 0.5	**5.9**	**8.8**	< 0.3	**2.7**	< 0.5	< 0.2	**0.97**	< 0.2	< 0.5	< 1	< 0.3
MW-36	12/18/2014	Intermediate Gaspur	Primary	< 0.5	**5.2**	**11**	< 0.3	**2.9**	< 0.5	< 0.2	**1.1**	< 0.2	< 0.5	< 1	< 0.3
MW-36	06/08/2015	Intermediate Gaspur	Primary	< 0.5	**5.6**	**9**	< 0.3	**2.6**	< 0.5	< 0.2	**1.6**	< 0.2	< 0.5	< 1	< 0.3
MW-36	12/10/2015	Intermediate Gaspur	Primary	< 0.5	**3.6**	**9.1**	< 0.3	**2.6**	< 0.5	< 0.2	**0.88**	< 0.2	< 0.5	< 1	< 0.3
MW-36	06/07/2016	Intermediate Gaspur	Primary	< 0.5	**3.7**	**7.3**	< 0.3	**2.1**	< 0.5	< 0.2	**0.85**	< 0.2	< 0.5	< 1	< 0.3
MW-36	11/29/2016	Intermediate Gaspur	Primary	< 0.5	**1.7**	**9**	< 0.3	**2.1**	< 0.5	< 0.2	**0.94**	< 0.2	< 0.5	< 1	< 0.3
MW-36	06/08/2017	Intermediate Gaspur	Primary	< 0.5	**0.53**	**2.8**	< 0.3	< 0.4	< 0.5	< 0.2	**0.38 J**	< 0.2	< 0.5	< 1	< 0.3
MW-37	03/01/2008	Lower Gaspur	Primary	< 0.5	**66 DJ**	**32 D**	**1.1**	**2.8**	**0.98**	**3**	**2.9**	**0.3 J**	< 0.5	**5.8**	NA
MW-37	05/15/2009	Lower Gaspur	Primary	< 0.5 J	**92 DJ**	**39 DJ**	**0.75 J**	**2.5 J**	< 0.5 J	**1.3 J**	**2 J**	< 0.5 J	< 0.5 J	< 2	NA
MW-37	06/15/2011	Lower Gaspur	Primary	< 0.5	**1.9**	**150**	**1.4**	**7.2**	< 0.5	**1.6**	**5.5**	< 0.5	< 0.5	**13**	< 0.5
MW-37	12/08/2011	Lower Gaspur	Primary	< 0.5	**1.2**	**94**	**0.74**	**4.2**	< 0.5	**1**	**4.9**	< 0.5	< 0.5	**9.5**	< 0.5
MW-37	06/12/2012	Lower Gaspur	Primary	< 0.5	**4.1**	**58**	**0.51**	**3.6**	< 0.5	**0.85**	**7**	**2**	< 0.5	**2.5**	< 0.5
MW-37	12/13/2012	Lower Gaspur	Primary	< 0.5	**5.8**	**53**	**0.52**	**3.9**	**0.5**	**0.63**	**7.4**	**3.1**	< 0.5	< 2	< 0.5
MW-37	06/20/2013	Lower Gaspur	Primary	< 0.5	**1.8**	**110**	**1.3**	**6.2**	< 0.5	**1.1**	**3.6**	**0.56**	< 0.5	**12**	< 0.3
MW-37	12/10/2013	Lower Gaspur	Primary	< 0.5	**2.4**	**100**	**0.9**	**5.7**	**0.51**	**0.81**	**4.9**	**2.1**	< 0.5	**9.1**	< 0.3
MW-37	06/10/2014	Lower Gaspur	Primary	< 0.5	**2.8**	**160**	**1.5**	**8.2**	< 0.5	**1**	**4.4**	**1.4**	< 0.5	**12**	< 0.3
MW-37	12/18/2014	Lower Gaspur	Primary	< 0.5	**2.6**	**84**	**0.85**	**5.9**	**0.73**	**0.7**	**2.6**	**1.5**	< 0.5	**10**	< 0.3
MW-37	12/18/2014	Lower Gaspur	Duplicate	< 0.5	**2.6**	**83**	**0.83**	**5.7**	**0.7**	**0.65**	**2.8**	**1.5**	< 0.5	**10**	< 0.3
MW-37	06/08/2015	Lower Gaspur	Primary	< 0.5	**3**	**81**	**0.81**	**9.5**	**2.3**	**0.77**	**5.3**	**5.7**	< 0.5	**7.8**	< 0.3
MW-37	12/10/2015	Lower Gaspur	Primary	< 0.5	**4.4**	**130**	**1.4**	**10**	**0.79**	**1.5**	**3.2**	**1**	< 0.5	**11**	< 0.3
MW-37	12/10/2015	Lower Gaspur	Duplicate	< 0.5	**4.9**	**130**	**1.5**	**11**	**0.68**	**1.4**	**3.4**	**1.2**	< 0.5	**11**	< 0.3
MW-37	06/08/2016	Lower Gaspur	Primary	< 0.5	**4.5**	**140**	**2.4**	**12**	**0.78**	**1.7**	**4.3**	**1.2**	< 0.5	**12**	< 0.3
MW-37	11/29/2016	Lower Gaspur	Primary	< 0.5	**2.5**	**100**	**1.2**	**13**	**1.2**	**0.97**	**4**	**6.4**	< 0.5	**10**	< 0.3
MW-37	06/08/2017	Lower Gaspur	Primary	< 0.5	**3.3**	**140**	**1.6**	**10**	< 0.5	**1.6**	**2.3**	**0.99**	< 0.5	**15**	< 0.3
MW-38	03/01/2008	Shallow Gaspur	Primary	< 0.5	**1.1**	**1.2**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA
MW-38	05/16/2009	Shallow Gaspur	Primary	< 0.5	**0.94**	**1.5**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA
MW-38	06/14/2011	Shallow Gaspur	Primary	< 0.5	**0.67**	**1.2**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 3.7	< 0.5
MW-38	12/06/2011	Shallow Gaspur	Primary	< 0.5	**0.68**	**1.1**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.94	< 0.5
MW-38	06/08/2012	Shallow Gaspur	Primary	< 0.5	**0.61**	**1.1**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.94	< 0.5
MW-38	12/13/2012	Shallow Gaspur	Primary	< 0.5	< 0.5	**0.59**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 25 J	< 0.5
MW-38	12/10/2013	Shallow Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-38	12/16/2014	Shallow Gaspur	Primary	< 0.5	< 0.2	**0.25 J**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-38	12/08/2015	Shallow Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-38	08/08/2016	Shallow Gaspur	Primary	< 0.5	< 0.2	**0.38 J**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3

TABLE V
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-38	11/28/2016	Shallow Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-38	06/09/2017	Shallow Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-39	03/01/2008	Intermediate Gaspur	Primary	< 0.5	**16**	**6.6**	**0.23 J**	**1.1**	< 0.5	< 0.5	**1.3**	< 0.5	< 0.5	**2.6**	NA
MW-39	05/16/2009	Intermediate Gaspur	Primary	< 0.5	**17**	**7.2**	**0.44 J**	**0.99**	< 0.5	< 0.5	**1.1**	< 0.5	< 0.5	**1.9 J**	NA
MW-39	06/15/2011	Intermediate Gaspur	Primary	< 0.5	**57**	**28**	**1.5**	**2.4**	< 0.5	**1.3**	**0.79**	< 0.5	< 0.5	**36**	**4.3**
MW-39	12/08/2011	Intermediate Gaspur	Primary	< 0.5	**25**	**68**	**1.5**	**2.7**	< 0.5	**2.3**	**0.86**	< 0.5	< 0.5	**76**	**6.2**
MW-39	06/12/2012	Intermediate Gaspur	Primary	< 0.5	**9.6**	**47**	**1.1**	**1.2**	< 0.5	**2.5**	< 0.5	< 0.5	< 0.5	**47**	**1.5**
MW-39	06/12/2012	Intermediate Gaspur	Split	< 0.5	**8**	**40 D**	**1**	**1.4**	**0.29 J**	**2**	< 0.5	< 0.5	**0.15 J**	**23**	NA
MW-39	12/11/2012	Intermediate Gaspur	Primary	< 0.5	**3.8**	**29**	**0.66**	**0.89**	< 0.5	**1.3**	< 0.5	< 0.5	< 0.5	**19**	**0.61**
MW-39	12/10/2013	Intermediate Gaspur	Primary	< 0.5	**14**	**68**	**2.4**	**3.7**	< 0.5	**6.5**	< 0.3	< 0.2	< 0.5	**47**	< 0.3
MW-39	12/16/2014	Intermediate Gaspur	Primary	< 0.5	**7.4**	**54**	**1.9**	**2.8**	< 0.5	**4.7**	**0.42 J**	< 0.2	< 0.5	**35**	< 0.3
MW-39	12/07/2015	Intermediate Gaspur	Primary	< 0.5	**10**	**76**	**3.1**	**3.7**	**0.77**	**6.4**	**0.74**	< 0.2	< 0.5	**47**	< 0.3
MW-39	08/08/2016	Intermediate Gaspur	Primary	< 0.5	**4.8**	**42**	**1.8**	**2.3**	< 0.5	**1.7**	< 0.3	< 0.2	< 0.5	**23**	**0.75**
MW-39	11/28/2016	Intermediate Gaspur	Primary	< 0.5	**5.4**	**85**	**3.3**	**5.2**	< 0.5	**3**	**0.44 J**	< 0.2	< 0.5	**48**	**1.8**
MW-39	06/09/2017	Intermediate Gaspur	Primary	< 0.5	**0.82**	**6.6**	< 0.3	< 0.4	< 0.5	**0.32 J**	< 0.3	< 0.2	< 0.5	**10**	< 0.3
MW-39	06/09/2017	Intermediate Gaspur	Duplicate	< 0.5	**0.87**	**7.1**	< 0.3	< 0.4	< 0.5	**0.34 J**	< 0.3	< 0.2	< 0.5	**10**	< 0.3
MW-40	03/01/2008	Lower Gaspur	Primary	< 0.5	**44 D**	**9.8**	**0.89**	**3.5**	**0.27 J**	**0.56**	**3.6**	< 0.5	< 0.5	**5.1**	NA
MW-40	05/16/2009	Lower Gaspur	Primary	< 0.5	**54 DJ**	**9.9**	**0.76**	**2.6**	< 0.5	**0.56 J**	**2.8 J**	< 0.5	< 0.5	**2.1**	NA
MW-40	06/15/2011	Lower Gaspur	Primary	< 0.5	**22**	**65**	**0.93**	**4.5**	< 0.5	**1.1**	**2.3**	< 0.5	< 0.5	**9.9**	**0.71**
MW-40	12/07/2011	Lower Gaspur	Primary	< 0.5	**4.6**	**82**	**0.95**	**5.9**	< 0.5	**1.1**	**2.1**	< 0.5	< 0.5	**12**	**1.1**
MW-40	06/08/2012	Lower Gaspur	Primary	< 0.5	**1.2**	**60**	**0.64**	**4**	< 0.5	**0.83**	**1.7**	< 0.5	< 0.5	**10**	**0.51**
MW-40	12/12/2012	Lower Gaspur	Primary	< 0.5	**3.2**	**58**	**1**	**5.7**	< 0.5	**1.4**	**1.6**	< 0.5	< 0.5	**12 J**	**1.4**
MW-40	12/10/2013	Lower Gaspur	Primary	< 0.5	**4**	**57**	**1.3**	**6.7**	< 0.5	**1.8**	**1.5**	< 0.2	< 0.5	**19**	< 0.3
MW-40	12/16/2014	Lower Gaspur	Primary	< 0.5	**2.9**	**41**	**1.5**	**6.5**	< 0.5	**3.1**	**0.9**	< 0.2	< 0.5	**29**	< 0.3
MW-40	12/07/2015	Lower Gaspur	Primary	< 0.5	**3.3**	**49**	**1.7**	**6.9**	**0.6**	**3.1**	**1.2**	< 0.2	< 0.5	**19**	< 0.3
MW-40	08/08/2016	Lower Gaspur	Primary	< 0.5	**2**	**45**	**2.1**	**7**	**0.66**	**2.9**	**0.9**	< 0.2	< 0.5	**23**	< 0.3
MW-40	11/28/2016	Lower Gaspur	Primary	< 0.5	**2.3**	**43**	**1.6**	**7.5**	< 0.5	**2.1**	**0.96**	< 0.2	< 0.5	**20**	< 0.3
MW-40	06/09/2017	Lower Gaspur	Primary	< 0.5	**0.95**	**46**	**1.6**	**6.6**	**0.5**	**2.8**	**0.73**	< 0.2	< 0.5	**26**	< 0.3
MW-41	03/01/2008	Lower Gaspur	Primary	< 0.5	**34 D**	**2.4**	**0.22 J**	**0.47 J**	< 0.5	< 0.5	**0.55**	< 0.5	< 0.5	< 2	NA
MW-41	05/14/2009	Lower Gaspur	Primary	< 2	**310 DJ**	**5.5**	< 2	**1.3 J**	< 2	**1.1 J**	< 2	< 2	< 2	< 2	NA
MW-41	06/16/2011	Lower Gaspur	Primary	< 0.5	**8.4**	**28**	< 0.5	**1.2**	< 0.5	**1.8**	**1.8**	< 0.5	< 0.5	**14**	< 0.5
MW-41	12/07/2011	Lower Gaspur	Primary	< 0.5	**8.1**	**53**	**0.99**	**2.6**	**5.6**	**6.8**	**2.8**	< 0.5	< 0.5	**23 J**	< 0.5
MW-41	06/13/2012	Lower Gaspur	Primary	< 0.5	**28**	**72**	< 0.5	**2.2**	< 0.5	**0.58**	**0.69**	< 0.5	< 0.5	**9.2**	< 0.5
MW-41	12/11/2012	Lower Gaspur	Primary	< 0.5	**6.8**	**45**	**0.85**	**2.2**	**5.8**	**6**	**3.1**	< 0.5	< 0.5	**26 J**	< 0.5
MW-41	06/21/2013	Lower Gaspur	Primary	< 0.5	**9.3**	**23**	**0.47 J**	**1.3**	**0.79**	**1.6**	**0.95**	< 0.2	< 0.5	**10**	< 0.3
MW-41	12/12/2013	Lower Gaspur	Primary	< 0.5	**14**	**46**	**0.64**	**2.5**	**0.56**	**1**	< 0.3	< 0.2	< 0.5	**7**	< 0.3
MW-41	06/11/2014	Lower Gaspur	Primary	< 0.5	**7.9**	**25**	**0.39 J**	**1.4**	< 0.5	**0.57**	**0.65**	< 0.2	< 0.5	**5.1**	< 0.3
MW-41	06/11/2014	Lower Gaspur	Duplicate	< 0.5	**7.7**	**23**	< 0.3	**1.1**	< 0.5	**0.25 J**	**0.58**	< 0.2	< 0.5	**5.3**	< 0.3
MW-41	12/15/2014	Lower Gaspur	Primary	< 0.5	**3**	**13**	< 0.3	**0.82**	< 0.5	**0.35 J**	**0.49 J**	< 0.2	< 0.5	**2.5**	< 0.3
MW-41	06/08/2015	Lower Gaspur	Primary	< 0.5	**4.3**	**17**	**0.34 J**	**1.1**	< 0.5	**0.41 J**	**0.58**	< 0.2	< 0.5	**1.7 J**	< 0.3
MW-41	12/08/2015	Lower Gaspur	Primary	< 0.5	**4.6**	**20**	**0.38 J**	**0.85**	< 0.5	**0.56**	**0.72**	< 0.2	< 0.5	**1.8 J**	< 0.3
MW-41	06/07/2016	Lower Gaspur	Primary	< 0.5	**3.4**	**17**	**0.51**	**0.79**	< 0.5	**0.84**	**0.63**	< 0.2	< 0.5	**3.7**	< 0.3
MW-41	12/01/2016	Lower Gaspur	Primary	< 0.5	**2.8**	**9.5**	**0.39 J**	**0.64**	< 0.5	**0.67**	**0.6**	< 0.2	< 0.5	**2.4**	< 0.3
MW-41	06/07/2017	Lower Gaspur	Primary	< 0.5	**1.3**	**16**	**0.31 J**	**0.65**	< 0.5	**2.6**	**0.8**	< 0.2	< 0.5	**30**	< 0.3
MW-42	05/14/2009	Shallow Gaspur	Primary	< 0.5 J	**30 EJ**	**410 EJ**	**1.5 J**	**14 J**	**0.96 J**	**3.4 J**	< 0.5 J	< 0.5 J	< 0.5 J	**1.9 J**	NA
MW-42	03/26/2014	Shallow Gaspur	Primary	< 10	**390**	**4000**	< 10	**75**	< 10	**25**	< 10	< 10	< 10	**24**	< 10
MW-42	07/12/2016	Shallow Gaspur	Primary	< 2.5	**32**	**1100 J**	**3.7 J**	**40 J**	< 2.5	**18**	< 2.5	< 2.5	< 2.5	**47**	< 2.5
MW-43	05/15/2009	Intermediate Gaspur	Primary	< 0.5 J	**38 DJ**	**11 DJ**	**0.89 J**	**1.2 J**	< 0.5 J	< 0.5 J	**11 J**	< 0.5 J	< 0.5 J	< 2	NA

TABLE V
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-43	03/26/2014	Intermediate Gaspur	Primary	< 0.5	**8.6**	**25**	< 0.5	**1.4**	< 0.5	**0.22 J**	**7.6**	< 0.5	< 0.5	**2.8**	< 0.5
MW-43	07/12/2016	Intermediate Gaspur	Primary	< 0.5	**5.4**	**42**	**3.4**	**3**	**1**	**1**	**44**	< 0.5	< 0.5	**4**	< 0.5
MW-44	05/15/2009	Lower Gaspur	Primary	< 0.5 J	**31 DJ**	**38 DJ**	**0.61 J**	**3.8 J**	< 0.5 J	**0.32 J**	**3 J**	< 0.5 J	< 0.5 J	< 2	NA
MW-44	12/07/2011	Lower Gaspur	Primary	< 0.5	**16**	**43**	< 0.5	**5.2**	< 0.5	< 0.5	**3.7**	< 0.5	< 0.5	**4.8**	< 0.5
MW-44	03/26/2014	Lower Gaspur	Primary	< 0.5	**2.9**	**21**	< 0.5	**1.5**	< 0.5	**0.2 J**	**4**	< 0.5	< 0.5	**2.8**	< 0.5
MW-44	07/12/2016	Lower Gaspur	Primary	< 0.5	< 0.5	**0.37 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**8.2**	< 0.5
MW-45	05/15/2009	Intermediate Gaspur	Primary	< 0.5	**2.1**	**19**	< 0.5	**1.3**	< 0.5	< 0.5	**1**	< 0.5	< 0.5	< 2	NA
MW-45	03/25/2014	Intermediate Gaspur	Primary	< 0.5	**2.2**	**39**	< 0.5	**3.7**	< 0.5	**0.21**	**0.84**	< 0.5	< 0.5	**2.1**	< 0.5
MW-45	07/14/2016	Intermediate Gaspur	Primary	< 0.5	**1.6**	**76**	**0.99**	**5.8**	< 0.5	**0.45 J**	**5.4**	**0.43 J**	< 0.5	**3.5**	< 0.5
MW-46	05/15/2009	Shallow Gaspur	Primary	< 0.5 J	**56 DJ**	**95 DJ**	**0.38 J**	**5.4 J**	< 0.5 J	< 0.5 J	< 0.5 J	< 0.5 J	< 0.5 J	< 2	NA
MW-46	03/24/2014	Shallow Gaspur	Primary	< 0.5	**8.6 J**	**47 J**	< 0.5	**3.7 J**	< 0.5	**0.097 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-46	07/19/2016	Shallow Gaspur	Primary	< 1	**57**	**460**	**2.2**	**37**	< 1	**7.5**	< 1	< 1	< 1	**3.5**	< 1
MW-47	05/15/2009	Intermediate Gaspur	Primary	< 2.5 J	**99 J**	**470 DJ**	< 2.5 J	**14 J**	< 2.5 J	< 2.5 J	< 2.5 J	< 2.5 J	< 2.5 J	< 2	NA
MW-47	03/24/2014	Intermediate Gaspur	Primary	< 4	**14**	**700**	< 4	**47**	< 4	**1.3 J**	< 4	< 4	< 4	**1.8**	< 4
MW-47	07/19/2016	Intermediate Gaspur	Primary	< 5	**5.4**	**490**	< 5	**30**	< 5	**6.1**	< 5	< 5	< 5	**6.2**	< 5
MW-48	05/15/2009	Lower Gaspur	Primary	< 0.5 J	**25 DJ**	**52 DJ**	**0.3 J**	**3.8 J**	< 0.5 J	< 0.5 J	**1.2 J**	< 0.5 J	< 0.5 J	< 2	NA
MW-48	03/24/2014	Lower Gaspur	Primary	< 0.5	**29**	**82**	**2.1**	**5.5**	< 0.5	**1.6**	**6.9**	< 0.5	**0.12**	**8.7**	< 0.5
MW-48	07/19/2016	Lower Gaspur	Primary	< 0.5	**1.3**	**100**	**1.9**	**6.3**	**1.1**	**1.3**	**15**	< 0.5	< 0.5	**13**	< 0.5
MW-49	05/15/2009	Shallow Gaspur	Primary	< 0.5	**29 D**	**99 D**	< 0.5	**4.2**	< 0.5	< 0.5 J	< 0.5 J	< 0.5	< 0.5	< 2	NA
MW-49	03/26/2014	Shallow Gaspur	Primary	< 0.5	**2.9**	**41**	< 0.5	**3.4**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-49	07/15/2016	Shallow Gaspur	Primary	< 0.5	**1.6**	**49**	< 0.5	**6.3**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-49	07/15/2016	Shallow Gaspur	Duplicate	< 0.5	**1.6**	**55**	< 0.5	**5.9**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-50	05/15/2009	Intermediate Gaspur	Primary	< 5	**480 D**	**970 D**	< 5	**20**	< 5	< 5	< 5	< 5	< 5	**2.1**	NA
MW-50	06/16/2011	Intermediate Gaspur	Primary	< 5	**7.3**	**540**	< 5	**28**	< 5	< 5	< 5	< 5	< 5	**2.1 J**	< 5
MW-50	12/08/2011	Intermediate Gaspur	Primary	< 2.5	**3.4**	**590**	< 2.5	**34**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**1.5**	< 2.5
MW-50	12/12/2012	Intermediate Gaspur	Primary	< 0.5	**2.1**	**500**	**1.4**	**30**	**5.2**	< 0.5	< 0.5	< 0.5	< 0.5	**1.8**	< 0.5
MW-50	12/10/2013	Intermediate Gaspur	Primary	< 0.5	**2.7**	**590**	**1.7**	**33**	**2.2**	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-50	12/16/2014	Intermediate Gaspur	Primary	< 2.5	< 1	**390**	< 1.5	**27**	**3.8**	< 1	< 1.5	< 1	< 2.5	**1.5 J**	< 1.5
MW-50	12/10/2015	Intermediate Gaspur	Primary	< 2.5	< 1	**370**	< 1.5	**27**	**3.3**	< 1	**2.1 J**	< 1	< 2.5	**1.4 J**	< 1.5
MW-50	11/29/2016	Intermediate Gaspur	Primary	< 2.5	**1.6 J**	**460**	**2.4 J**	**32**	**5.4**	< 1	< 1.5	< 1	< 2.5	**2.4**	< 1.5
MW-51	05/15/2009	Lower Gaspur	Primary	< 0.5	**5.7**	**27 D**	< 0.5	**1.8**	< 0.5	< 0.5	**1.3**	< 0.5	< 0.5	< 2	NA
MW-51	06/15/2011	Lower Gaspur	Primary	< 0.5	**12**	**25**	< 0.5	**2.6**	< 0.5	< 0.5	**2.1**	< 0.5	< 0.5	**5.1**	< 0.5
MW-51	12/08/2011	Lower Gaspur	Primary	< 0.5	**13**	**30**	< 0.5	**3**	< 0.5	< 0.5	**2.4**	< 0.5	< 0.5	**3.7**	< 0.5
MW-51	12/12/2012	Lower Gaspur	Primary	< 0.5	**7.9**	**73**	**0.77**	**6**	< 0.5	< 0.5	**5.4**	< 0.5	< 0.5	**6.4**	< 0.5
MW-51	12/10/2013	Lower Gaspur	Primary	< 0.5	**13**	**82**	**1**	**7.8**	< 0.5	< 0.2	**5.8**	**0.6**	< 0.5	**10**	< 0.3
MW-51	12/16/2014	Lower Gaspur	Primary	< 0.5	**6.6**	**58**	**1.2**	**5.3**	**0.58**	**0.7**	**9.2**	**0.81**	< 0.5	**16**	< 0.3
MW-51	12/10/2015	Lower Gaspur	Primary	< 0.5	**3.8**	**89**	**1.8**	**7.8**	**2.3**	**1.2**	**14**	**0.81**	< 0.5	**13**	< 0.3
MW-51	11/29/2016	Lower Gaspur	Primary	< 0.5	**2.1**	**130**	**2.7**	**11**	**1.3**	**1.2**	**21**	**1.1**	< 0.5	**19**	< 0.3
MW-52	05/15/2009	Shallow Gaspur	Primary	< 0.5	**8.2**	**6.5**	< 0.5	**0.78**	< 0.5	< 0.5	**2.2**	< 0.5	< 0.5	< 2	NA
MW-52	03/25/2014	Shallow Gaspur	Primary	< 0.5	**6.1**	**18**	< 0.5	**5**	< 0.5	< 0.5	< 0.5	**2.4**	< 0.5	< 0.5	< 0.5
MW-52	03/25/2014	Shallow Gaspur	Duplicate	< 0.5	**5.6**	**16**	< 0.5	**4.2**	< 0.5	< 0.5	< 0.5	**2.1**	< 0.5	< 0.5	< 0.5
MW-52	07/19/2016	Shallow Gaspur	Primary	< 0.5	**5.6**	**15**	< 0.5	**6.2**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-53	05/15/2009	Lower Gaspur	Primary	< 0.5	**19 J**	**19**	**0.48 J**	**1.2**	< 0.5	**1.2**	**1.8**	< 0.5	< 0.5	**2.6**	NA
MW-53	06/15/2011	Lower Gaspur	Primary	< 0.5	**12**	**17**	< 0.5	**2**	**0.7**	**1**	**1.9**	< 0.5	< 0.5	**8.3**	< 0.5
MW-53	12/13/2011	Lower Gaspur	Primary	< 0.5	**17**	**23**	**0.94**	**2.1**	< 0.5	**3.1**	**2**	< 0.5	< 0.5	**18 J**	< 0.5
MW-53	12/13/2012	Lower Gaspur	Primary	< 0.5	**8.5**	**13**	< 0.5	**1.8**	< 0.5	< 0.5	**1.8**	< 0.5	< 0.5	< 9.3	< 0.5
MW-53	12/10/2013	Lower Gaspur	Primary	< 0.5	**11**	**36**	**1.4**	**3.3**	< 0.5	**4.2**	**2.1**	< 0.2	< 0.5	**18**	< 0.3
MW-53	12/15/2014	Lower Gaspur	Primary	< 0.5	**3.5**	**22**	**0.6**	**2**	< 0.5	**1.3**	**1**	< 0.2	< 0.5	**11**	< 0.3

TABLE V
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-53	12/10/2015	Lower Gaspur	Primary	< 0.5	**4.9**	**49**	**1.3**	**5.4**	**0.87**	**3**	**2.4**	< 0.2	< 0.5	**11**	< 0.3
MW-53	11/29/2016	Lower Gaspur	Primary	< 0.5	**3.7**	**38**	**0.85**	**4.8**	**0.56**	**1.3**	**1.4**	< 0.2	< 0.5	**9.1**	< 0.3
MW-53	11/29/2016	Lower Gaspur	Duplicate	< 0.5	**3.5**	**36**	**0.83**	**4.9**	**0.53**	**1.1**	**1.4**	< 0.2	< 0.5	**9.2**	< 0.3
MW-54	05/15/2009	Lower Gaspur	Primary	< 0.5	**15 D**	**10**	**0.57**	**3.5**	< 0.5	**0.45 J**	**4**	< 0.5	< 0.5	< 2	NA
MW-54	06/15/2011	Lower Gaspur	Primary	< 0.5	**24**	**15**	**0.52**	**4.4**	< 0.5	**1.1**	**2.9**	< 0.5	< 0.5	**10**	< 0.5
MW-54	12/13/2011	Lower Gaspur	Primary	< 0.5	**62**	**19**	**1**	**5.5**	< 0.5	**1.6**	**3.6**	< 0.5	< 0.5	**13**	< 0.5
MW-54	12/13/2012	Lower Gaspur	Primary	< 0.5	**6.1**	**9.4**	< 0.5	**1.3**	**0.51**	**0.55**	**2.8**	< 0.5	< 0.5	< 1.8	< 0.5
MW-54	12/10/2013	Lower Gaspur	Primary	< 0.5	**3.8**	**58**	**1.5**	**8.2**	< 0.5	**2**	**1.8**	< 0.2	< 0.5	**10**	< 0.3
MW-54	12/15/2014	Lower Gaspur	Primary	< 0.5	**3**	**44**	**1.3**	**6**	< 0.5	**2**	**1.1**	< 0.2	< 0.5	**16**	< 0.3
MW-54	12/10/2015	Lower Gaspur	Primary	< 0.5	**3.2**	**46**	**1.9**	**9.8**	**1.1**	**3.4**	**1.6**	< 0.2	< 0.5	**15**	< 0.3
MW-54	12/01/2016	Lower Gaspur	Primary	< 0.5	**2.3**	**57**	**1.9**	**9**	**1.1**	**2.9**	**1.5**	< 0.2	< 0.5	**18**	< 0.3
MW-55	05/15/2009	Exposition	Primary	< 0.5	**2.5**	**1.2**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	NA
MW-55	06/14/2011	Exposition	Primary	< 0.5	**8.4**	**13**	< 0.5	**1**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 3.7	< 0.5
MW-55	12/06/2011	Exposition	Primary	< 0.5	**5.8**	**24**	< 0.5	**1.5**	< 0.5	< 0.5	**0.71**	< 0.5	< 0.5	**1.9**	< 0.5
MW-55	06/08/2012	Exposition	Primary	< 0.5	**5.8**	**23**	< 0.5	**1.6**	< 0.5	< 0.5	**0.88**	< 0.5	< 0.5	**1.9**	< 0.5
MW-55	11/26/2012	Exposition	Primary	< 0.5	**1**	**24**	< 0.5	**1.7**	< 0.5	< 0.5	**0.99**	< 0.5	< 0.5	**3.1**	< 0.5
MW-55	11/26/2012	Exposition	Primary	< 0.5	**1.4**	**25**	< 0.5	**1.7**	< 0.5	< 0.5	**1.1**	< 0.5	< 0.5	**2.9**	< 0.5
MW-55	11/26/2012	Exposition	Primary	< 0.5	**1.6**	**27**	< 0.5	**1.9**	< 0.5	< 0.5	**1.1**	< 0.5	< 0.5	**2.7**	< 0.5
MW-55	11/26/2012	Exposition	Primary	< 0.5	**1.5**	**26**	< 0.5	**1.8**	< 0.5	< 0.5	**1.1**	< 0.5	< 0.5	**2.9**	< 0.5
MW-55	12/11/2012	Exposition	Primary	< 0.5	**2**	**21**	< 0.5	**1.1**	< 0.5	< 0.5	**1.1**	< 0.5	< 0.5	**2.4**	< 0.5
MW-55	06/20/2013	Exposition	Primary	< 0.5	< 0.2	**6.2**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**2.4**	< 0.3
MW-55	06/20/2013	Exposition	Duplicate	< 0.5	< 0.2	**5.7**	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	**1.5 J**	< 0.3
MW-55	12/09/2013	Exposition	Primary	< 0.5	**1.6**	**52**	**0.58**	**4.4**	< 0.5	< 0.2	**1.5**	< 0.2	< 0.5	**4**	< 0.3
MW-55	12/09/2013	Exposition	Duplicate	< 0.5	**1.6**	**39**	**0.52**	**3.2**	< 0.5	< 0.2	**1.3**	< 0.2	< 0.5	**3.6**	< 0.3
MW-55	06/10/2014	Exposition	Primary	< 0.5	**1.6**	**31**	< 0.3	**2.8**	< 0.5	< 0.2	**1.2**	< 0.2	< 0.5	**4.8**	< 0.3
MW-55	06/10/2014	Exposition	Duplicate	< 0.5	**1.6**	**29**	< 0.3	**2.5**	< 0.5	< 0.2	**1.2**	< 0.2	< 0.5	**4.9**	< 0.3
MW-55	12/18/2014	Exposition	Primary	< 0.5	**2.2**	**32**	**0.34 J**	**3.2**	< 0.5	< 0.2	**1.1**	**0.21 J**	< 0.5	**4.6**	< 0.3
MW-55	06/08/2015	Exposition	Primary	< 0.5	**2**	**30**	**0.41 J**	**3.7**	**0.86**	**0.32 J**	**1.8**	< 0.2	< 0.5	**6**	< 0.3
MW-55	06/08/2015	Exposition	Duplicate	< 0.5	**2**	**31**	**0.4 J**	**3.5**	**1.1**	< 0.2	**2**	< 0.2	< 0.5	**5.4**	< 0.3
MW-55	12/10/2015	Exposition	Primary	< 0.5	**1.1**	**49**	**0.44 J**	**4.1**	< 0.5	**0.37 J**	**1.7**	**0.27 J**	< 0.5	**3.1**	< 0.3
MW-55	08/08/2016	Exposition	Primary	< 0.5	**0.98**	**54**	**0.59**	**4.5**	**5.8**	**0.58**	**1.8**	< 0.2	< 0.5	**5.9**	< 0.3
MW-55	11/28/2016	Exposition	Primary	< 0.5	**1.4**	**73**	**0.95**	**5.4**	< 0.5	**0.63**	**1.6**	**0.43 J**	< 0.5	**6.7**	< 0.3
MW-55	11/28/2016	Exposition	Duplicate	< 0.5	**1.5**	**79**	**0.94**	**5.4**	**0.51**	**0.61**	**1.9**	**0.7 J**	< 0.5	**6.1**	< 0.3
MW-55	06/09/2017	Exposition	Primary	< 0.5	**1.5**	**67**	**0.53**	**5.3**	**0.62**	**0.64**	**1.3**	**0.41 J**	< 0.5	**6.9**	< 0.3
MW-56	05/17/2009	Shallow Gaspur	Primary	< 2.5	**3900 D**	**290 D**	**2.2 J**	**11**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2	NA
MW-56	03/26/2014	Shallow Gaspur	Primary	< 2	**290**	**450**	< 2	**15**	< 2	< 2	< 2	< 2	< 2	< 0.5	< 2
MW-56	07/18/2016	Shallow Gaspur	Primary	< 1	**74**	**260**	< 1	**15**	< 1	< 1	< 1	< 1	< 1	< 0.5	< 1
MW-57A	09/27/2011	Shallow Gaspur	Primary	< 0.5	**10**	**17**	< 0.5	**0.99**	< 0.5	< 0.5	< 0.5	**9.9**	< 0.5	< 2.5	< 0.5
MW-57A	12/07/2011	Shallow Gaspur	Primary	< 0.5	**8.7**	**18**	< 0.5	**1.1**	< 0.5	< 0.5	< 0.5	**5.4**	< 0.5	**1.7**	< 0.5
MW-57A	03/27/2012	Shallow Gaspur	Primary	< 0.5	**11**	**16**	< 0.5	**0.91**	< 0.5	< 0.5	< 0.5	**7.5**	< 0.5	**1.2 J**	< 0.5
MW-57A	06/13/2012	Shallow Gaspur	Primary	< 0.5	**11**	**17**	< 0.5	**1**	< 0.5	< 0.5	< 0.5	**8.9**	< 0.5	**1.3**	< 0.5
MW-57A	12/13/2012	Shallow Gaspur	Primary	< 0.5	**4.5**	**20**	< 0.5	**1**	< 0.5	< 0.5	< 0.5	**4.4**	< 0.5	< 0.95	< 0.5
MW-57A	06/20/2013	Shallow Gaspur	Primary	< 0.5	**3.4**	**16**	**0.5**	**1.3**	< 0.5	< 0.2	< 0.3	**3.2**	< 0.5	**1.2 J**	< 0.3
MW-57A	12/12/2013	Shallow Gaspur	Primary	< 0.5	**4.4**	**24**	**0.46 J**	**1.1**	**1.1**	< 0.2	< 0.3	**35**	< 0.5	**4.6**	< 0.3
MW-57A	06/12/2014	Shallow Gaspur	Primary	< 0.5	**0.7**	**16**	< 0.3	**0.58**	**1**	< 0.2	**0.5**	**47**	< 0.5	**17**	< 0.3
MW-57A	12/16/2014	Shallow Gaspur	Primary	< 0.5	**0.65**	**12**	< 0.3	**0.77**	**0.61**	< 0.2	**0.35 J**	**27**	< 0.5	**12**	< 0.3
MW-57A	06/10/2015	Shallow Gaspur	Primary	< 0.5	**1.1**	**16**	**0.34 J**	**1.2**	< 0.5	< 0.2	< 0.3	**5.6**	< 0.5	**2.2**	< 0.3
MW-57A	12/09/2015	Shallow Gaspur	Primary	< 0.5	< 0.2	**8.6**	< 0.3	**0.53**	**1.2**	**0.34 J**	**2**	**35**	< 0.5	**9.4**	< 0.3

TABLE V
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-57A	06/09/2016	Shallow Gaspur	Primary	< 0.5	**0.4 J**	**7.6**	< 0.3	**0.48 J**	**0.5**	< 0.2	**1.2**	**21**	< 0.5	**3.9**	< 0.3
MW-57A	12/02/2016	Shallow Gaspur	Primary	< 0.5	< 0.2	**6.6**	< 0.3	**0.44 J**	**0.57**	**0.39 J**	**1.4**	**32**	< 0.5	**5.8**	< 0.3
MW-57A	06/08/2017	Shallow Gaspur	Primary	< 0.5	**0.8**	**7.4**	< 0.3	**0.63**	< 0.5	< 0.2	< 0.3	**1.5**	< 0.5	< 1	< 0.3
MW-57B	09/27/2011	Intermediate Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5 J	< 0.5	**1.8**	**1.8**	< 0.5	< 0.95	< 0.5
MW-57B	12/08/2011	Intermediate Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.4 J**	**2**	< 0.5	**2**	< 0.5
MW-57B	03/26/2012	Intermediate Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.7**	**1.5**	< 0.5	**1.7 J**	< 0.5
MW-57B	06/13/2012	Intermediate Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.2**	**1.7**	< 0.5	**2**	< 0.5
MW-57B	12/13/2012	Intermediate Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.9**	**0.98**	< 0.5	**1.8**	< 0.5
MW-57B	06/20/2013	Intermediate Gaspur	Primary	< 0.5	< 0.2	**0.32 J**	< 0.3	< 0.4	< 0.5	< 0.2	**1.7**	**0.71**	< 0.5	**1.8 J**	< 0.3
MW-57B	12/12/2013	Intermediate Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**1.7**	**0.7**	< 0.5	**2.1**	< 0.3
MW-57B	06/12/2014	Intermediate Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**2.4**	**0.25 J**	< 0.5	**1.3 J**	< 0.3
MW-57B	12/16/2014	Intermediate Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**2.2**	**0.21 J**	< 0.5	< 1	< 0.3
MW-57B	06/10/2015	Intermediate Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**3**	< 0.2	< 0.5	< 1	< 0.3
MW-57B	12/11/2015	Intermediate Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**2.4**	< 0.2	< 0.5	< 1	< 0.3
MW-57B	06/09/2016	Intermediate Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**3.5**	< 0.2	< 0.5	< 1	< 0.3
MW-57B	12/02/2016	Intermediate Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**2.5**	< 0.2	< 0.5	< 1	< 0.3
MW-57B	06/07/2017	Intermediate Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**1.7**	< 0.2	< 0.5	< 1	< 0.3
MW-58	09/28/2011	Shallow Gaspur	Primary	< 0.5	**8.2**	**13**	< 0.5	**2.3**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 3.3	< 0.5
MW-58	12/08/2011	Shallow Gaspur	Primary	< 0.5	**14**	**22**	**0.71**	**3.7**	< 0.5	< 0.5	< 0.5	< 0.5	**0.64**	**2.4**	< 0.5
MW-58	03/27/2012	Shallow Gaspur	Primary	< 0.5	**12**	**23**	**0.66**	**3.9**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.2 J**	< 0.5
MW-58	03/27/2012	Shallow Gaspur	Duplicate	< 0.5	**13**	**21**	**0.77**	**3.6**	< 0.5	< 0.5	< 0.5	< 0.5	**0.61**	**2.2 J**	< 0.5
MW-58	06/13/2012	Shallow Gaspur	Primary	< 0.5	**15**	**28**	**0.7**	**4.7**	< 0.5	< 0.5	< 0.5	< 0.5	**0.8**	**2.1**	< 0.5
MW-58	12/13/2012	Shallow Gaspur	Primary	< 0.5	**8.6**	**45**	**0.82**	**5.3**	< 0.5	< 0.5	< 0.5	< 0.5	**1.4**	**1.8**	< 0.5
MW-58	06/21/2013	Shallow Gaspur	Primary	< 0.5	**3.6**	**26**	**1.6**	**3.8**	< 0.5	**0.32 J**	< 0.3	**0.62**	**0.89**	**2.7**	< 0.3
MW-58	06/21/2013	Shallow Gaspur	Duplicate	< 0.5	**3.4**	**25**	**1.5**	**3.7**	< 0.5	**0.26 J**	< 0.3	**0.6**	**0.73**	**2.8**	< 0.3
MW-58	12/12/2013	Shallow Gaspur	Primary	< 0.5	**7.2**	**28**	**2.6**	**4**	< 0.5	< 0.2	< 0.3	**0.37 J**	< 0.5	**8.1**	< 0.3
MW-58	06/12/2014	Shallow Gaspur	Primary	< 0.5	**2.7**	**13**	**7.5**	**1.9**	**0.5**	**0.74**	< 0.3	**1**	< 0.5	**21**	< 0.3
MW-58	06/12/2014	Shallow Gaspur	Duplicate	< 0.5	**2.7**	**13**	**7.5**	**1.8**	< 0.5	**0.74**	< 0.3	**1**	< 0.5	**22**	< 0.3
MW-58	12/18/2014	Shallow Gaspur	Primary	< 0.5	**2.1**	**18**	**3**	**2.4**	< 0.5	**0.27 J**	< 0.3	**0.64**	< 0.5	**11**	< 0.3
MW-58	06/10/2015	Shallow Gaspur	Primary	< 0.5	**2.9**	**29**	**1**	**4.1**	< 0.5	< 0.2	< 0.3	< 0.2	**1.4**	**2.3**	< 0.3
MW-58	12/09/2015	Shallow Gaspur	Primary	< 0.5	**0.76**	**21**	**3.6**	**2.5**	< 0.5	**0.4 J**	< 0.3	**1.5**	**0.74**	**6.3**	< 0.3
MW-58	06/09/2016	Shallow Gaspur	Primary	< 0.5	**0.56**	**23**	**2.1**	**2.7**	< 0.5	< 0.2	< 0.3	**3**	< 0.5	**1.3 J**	< 0.3
MW-58	12/02/2016	Shallow Gaspur	Primary	< 0.5	**0.37 J**	**20**	**1.8**	**2.2**	< 0.5	< 0.2	< 0.3	**4.1**	< 0.5	**1.7 J**	< 0.3
MW-58	12/02/2016	Shallow Gaspur	Duplicate	< 0.5	**0.41 J**	**21**	**1.8**	**2.4**	< 0.5	< 0.2	< 0.3	**4.7**	< 0.5	**1.8 J**	< 0.3
MW-58	06/09/2017	Shallow Gaspur	Primary	< 0.5	**0.82**	**22**	**0.65**	**3.8**	< 0.5	< 0.2	< 0.3	**1.7**	< 0.5	< 1	< 0.3
MW-59A	06/13/2011	Shallow Gaspur	Primary	< 5	**190**	**660**	**30**	**29**	**7.7**	**58**	< 5	< 5	< 5	**30**	< 5
MW-59A	09/28/2011	Shallow Gaspur	Primary	< 5	**200**	**740**	**29**	**33**	< 5 J	**61**	< 5	< 5	< 5	**38 J**	< 5
MW-59A	09/28/2011	Shallow Gaspur	Duplicate	< 0.5	**250**	**810**	**34**	**36**	**6 J**	**69**	**1.8**	**0.94**	**2.5**	**20 J**	**2**
MW-59A	12/09/2011	Shallow Gaspur	Primary	< 5	**140**	**620**	**15**	**21**	< 5	**52**	< 5	< 5	< 5	**23 J**	< 5
MW-59A	03/28/2012	Shallow Gaspur	Primary	< 5	**140**	**620**	**18**	**24**	< 5	**48**	< 5	< 5	< 5	**17**	< 5
MW-59A	06/13/2012	Shallow Gaspur	Primary	< 5	**98**	**840**	**22**	**28**	**6.7**	**63**	< 5	< 5	< 5	**37**	< 5
MW-59A	12/14/2012	Shallow Gaspur	Primary	< 2.5	**66**	**450**	**9.9**	**18**	**9.7**	**37**	< 2.5	< 2.5	< 2.5	**21 J**	< 2.5
MW-59A	06/21/2013	Shallow Gaspur	Primary	< 2.5	**75**	**430**	**13**	**19**	**6**	**39**	< 1.5	< 1	< 2.5	**44**	< 1.5
MW-59A	12/13/2013	Shallow Gaspur	Primary	< 0.5	**92**	**220**	**8.8**	**13**	**7.5**	**23**	< 0.3	< 0.2	< 0.5	**41**	< 0.3
MW-59A	06/12/2014	Shallow Gaspur	Primary	< 1	**69**	**320**	**6.5**	**13**	**5.4**	**20**	< 0.6	**0.52 J**	< 1	**41**	< 0.6
MW-59A	12/18/2014	Shallow Gaspur	Primary	< 1	**91**	**400**	**9.5**	**16**	**5.1**	**39**	**1.4**	**0.8 J**	< 1	**62**	**3.4**
MW-59A	06/08/2015	Shallow Gaspur	Primary	< 2.5	**22**	**450**	**11**	**23**	**25**	**55**	**2.3 J**	< 1	< 2.5	**68**	< 1.5
MW-59A	12/10/2015	Shallow Gaspur	Primary	< 2.5	**26**	**330**	**6.3**	**13**	**36**	**36**	< 1.5	< 1	< 2.5	**69**	< 1.5

TABLE V
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-59A	06/07/2016	Shallow Gaspur	Primary	< 2.5	**29**	**300**	**8.7**	**14**	**11**	**32**	< 1.5	< 1	< 2.5	**59**	< 1.5
MW-59A	12/02/2016	Shallow Gaspur	Primary	< 2.5	**5.4**	**91**	**1.8 J**	**4.6**	**6**	**9.8**	< 1.5	< 1	< 2.5	**34**	< 1.5
MW-59B	06/13/2011	Intermediate Gaspur	Primary	< 0.5	**0.57**	**0.88**	**0.62**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**5.2**	< 0.5
MW-59B	09/27/2011	Intermediate Gaspur	Primary	< 0.5	**1.3**	**5.8**	**0.6**	< 0.5	**1.9**	**2.3**	< 0.5	< 0.5	< 0.5	**7.8**	< 0.5
MW-59B	12/06/2011	Intermediate Gaspur	Primary	< 0.5	**0.54**	**1.1**	**1.1**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**12**	< 0.5
MW-59B	03/27/2012	Intermediate Gaspur	Primary	< 0.5	**0.63**	**2.2**	**2.4**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**13 J**	< 0.5
MW-59B	06/13/2012	Intermediate Gaspur	Primary	< 0.5	**0.78**	**2.9**	**2.7**	< 0.5	< 0.5	**0.56**	< 0.5	< 0.5	< 0.5	**15**	< 0.5
MW-59B	12/14/2012	Intermediate Gaspur	Primary	< 0.5	< 0.5	< 0.5	**0.91**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**6.6**	< 0.5
MW-59B	06/21/2013	Intermediate Gaspur	Primary	< 0.5	**0.28 J**	**0.77**	**2.6**	< 0.4	< 0.5	**0.38 J**	< 0.3	< 0.2	< 0.5	**14**	< 0.3
MW-59B	12/13/2013	Intermediate Gaspur	Primary	< 0.5	< 0.2	**2.1**	**1.1**	< 0.4	< 0.5	**0.71**	< 0.3	< 0.2	< 0.5	**4.8**	< 0.3
MW-59B	06/12/2014	Intermediate Gaspur	Primary	< 0.5	**0.43 J**	**1.7**	**0.94**	< 0.4	< 0.5	**0.88**	**0.32 J**	< 0.2	< 0.5	**5.8**	< 0.3
MW-59B	12/18/2014	Intermediate Gaspur	Primary	< 0.5	**0.57**	**1.5**	**1.3**	< 0.4	< 0.5	**0.78**	**0.38 J**	< 0.2	< 0.5	**7.1**	< 0.3
MW-59B	06/09/2015	Intermediate Gaspur	Primary	< 0.5	**1.1**	**3**	**1.4**	< 0.4	< 0.5	**1.1**	**1.1**	< 0.2	< 0.5	**6.2**	< 0.3
MW-59B	12/09/2015	Intermediate Gaspur	Primary	< 0.5	**1**	**1.7**	**1.6**	< 0.4	< 0.5	**0.62**	**0.83**	< 0.2	< 0.5	**5.9**	< 0.3
MW-59B	06/09/2016	Intermediate Gaspur	Primary	< 0.5	< 0.2	**0.94**	**3.3**	< 0.4	< 0.5	**0.47 J**	**0.61**	< 0.2	< 0.5	**6.4**	< 0.3
MW-59B	12/02/2016	Intermediate Gaspur	Primary	< 0.5	< 0.2	**0.79**	**2.3**	< 0.4	< 0.5	< 0.2	**0.41 J**	< 0.2	< 0.5	**8.2**	< 0.3
MW-59B	06/06/2017	Intermediate Gaspur	Primary	< 0.5	< 0.2	**0.7**	**4.2**	< 0.4	< 0.5	**0.42 J**	< 0.3	< 0.2	< 0.5	**9.4**	< 0.3
MW-59C	06/13/2011	Intermediate Gaspur	Primary	< 0.5	< 0.5	**0.72**	< 0.5	< 0.5	< 0.5	< 0.5	**2.3**	< 0.5	< 0.5	< 4	< 0.5
MW-59C	09/28/2011	Intermediate Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.8**	< 0.5	< 0.5	< 0.94	< 0.5
MW-59C	12/06/2011	Intermediate Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.8**	< 0.5	< 0.5	< 0.95	< 0.5
MW-59C	03/26/2012	Intermediate Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.8**	< 0.5	< 0.5	< 0.94 J	< 0.5
MW-59C	06/13/2012	Intermediate Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.7**	< 0.5	< 0.5	< 0.94	< 0.5
MW-59C	12/11/2012	Intermediate Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**3.1**	< 0.5	< 0.5	< 0.95 J	< 0.5
MW-59C	06/21/2013	Intermediate Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**2.2**	< 0.2	< 0.5	< 1	< 0.3
MW-59C	12/13/2013	Intermediate Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-59C	06/12/2014	Intermediate Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**1.5**	< 0.2	< 0.5	< 1	< 0.3
MW-59C	12/18/2014	Intermediate Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**0.98**	< 0.2	< 0.5	< 1	< 0.3
MW-59C	06/09/2015	Intermediate Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**2.2**	< 0.2	< 0.5	< 1	< 0.3
MW-59C	12/11/2015	Intermediate Gaspur	Primary	< 0.5	< 0.2	**0.35 J**	< 0.3	< 0.4	< 0.5	< 0.2	**1.4**	< 0.2	< 0.5	< 1	< 0.3
MW-59C	06/09/2016	Intermediate Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**2**	< 0.2	< 0.5	< 1	< 0.3
MW-59C	12/02/2016	Intermediate Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**1.7**	< 0.2	< 0.5	< 1	< 0.3
MW-59C	06/06/2017	Intermediate Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**1.2**	< 0.2	< 0.5	< 1	< 0.3
MW-60A	07/27/2011	Shallow Gaspur	Primary	< 0.5	**56**	**94**	**7.5**	**5.4**	**0.68**	**10**	**0.69**	< 0.5	< 0.5	**11**	**1.7**
MW-60A	09/28/2011	Shallow Gaspur	Primary	< 0.5	**28**	**52**	**4.9**	**3.4**	< 0.5	**4.4**	< 0.5	< 0.5	< 0.5	**13**	**0.85**
MW-60A	12/08/2011	Shallow Gaspur	Primary	< 0.5	**20**	**49**	**4.7**	**3.1**	**0.63**	**5.2**	< 0.5	< 0.5	< 0.5	**13**	< 0.5
MW-60A	03/27/2012	Shallow Gaspur	Primary	< 0.5	**26**	**67**	**8.4**	**4.5**	**0.97**	**7.9**	< 0.5	< 0.5	< 0.5	**21 J**	< 0.5
MW-60A	06/12/2012	Shallow Gaspur	Primary	< 0.5	**22**	**74**	**7.8**	**4.3**	**1.3**	**8.8**	**0.6**	< 0.5	< 0.5	**32**	**0.66**
MW-60A	12/14/2012	Shallow Gaspur	Primary	< 0.5	**20**	**87**	**8.1**	**4.5**	**2**	**12**	**0.73**	< 0.5	**0.54**	**22 J**	**0.87**
MW-60A	06/19/2013	Shallow Gaspur	Primary	< 0.5	**12**	**77**	**4.6**	**4**	**0.58**	**9.6**	**0.56**	< 0.2	< 0.5	**19**	**0.95**
MW-60A	12/11/2013	Shallow Gaspur	Primary	< 0.5	**3.5**	**12**	**2.4**	**1.3**	**0.58**	**0.6**	< 0.3	< 0.2	< 0.5	**10**	< 0.3
MW-60A	06/11/2014	Shallow Gaspur	Primary	< 0.5	**1.3**	**6.6**	**1.2**	**0.77**	< 0.5	**0.44 J**	**0.34 J**	< 0.2	< 0.5	**5.4**	< 0.3
MW-60A	12/17/2014	Shallow Gaspur	Primary	< 0.5	**1.3**	**4.8**	**0.9**	**0.52**	< 0.5	**0.66**	**0.56**	< 0.2	< 0.5	**5.8**	< 0.3
MW-60A	06/10/2015	Shallow Gaspur	Primary	< 0.5	**2.6**	**6.4**	**0.65**	**0.45 J**	**0.7**	**0.62**	**2.2**	< 0.2	< 0.5	**4.8**	< 0.3
MW-60A	12/08/2015	Shallow Gaspur	Primary	< 0.5	**1.3**	**5.1**	**0.48 J**	< 0.4	< 0.5	**0.29 J**	**1.6**	< 0.2	< 0.5	**2.4**	< 0.3
MW-60A	06/07/2016	Shallow Gaspur	Primary	< 0.5	**3.3**	**3.6**	**0.59**	< 0.4	< 0.5	**0.36 J**	**0.94**	< 0.2	< 0.5	**2.6**	< 0.3
MW-60A	11/29/2016	Shallow Gaspur	Primary	< 0.5	**0.57**	**5.9**	**1.5**	< 0.4	< 0.5	**0.83**	**0.78**	< 0.2	< 0.5	**5.2**	< 0.3
MW-60A	06/07/2017	Shallow Gaspur	Primary	< 0.5	**1.4**	**4.6**	**1.3**	**0.41 J**	< 0.5	**0.53**	**0.52**	< 0.2	< 0.5	**7.4**	< 0.3
MW-60A	06/07/2017	Shallow Gaspur	Duplicate	< 0.5	**1.4**	**4.4**	**1.4**	< 0.4	< 0.5	**0.47 J**	**0.42 J**	< 0.2	< 0.5	**7.4**	< 0.3

TABLE V
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-60B	07/27/2011	Lower Gaspur	Primary	< 0.5	**7.7**	**76 J**	**3.1**	**4.6**	**1.1**	**6.2**	**0.78**	< 0.5	< 0.5	**19**	< 0.5
MW-60B	09/28/2011	Lower Gaspur	Primary	< 0.5	**5.1**	**56**	**2**	**2.9**	**1.4**	**4.6**	**0.87**	< 0.5	< 0.5	**15**	< 0.5
MW-60B	12/08/2011	Lower Gaspur	Primary	< 0.5	**5.3**	**60**	**2**	**3**	**1.9**	**5.2**	**1.1**	< 0.5	< 0.5	**31 J**	< 0.5
MW-60B	12/08/2011	Lower Gaspur	Primary	< 0.5	**5.7**	**62**	**2**	**3.1**	**1.8**	**5.4**	**1.2**	< 0.5	< 0.5	**16 J**	< 0.5
MW-60B	03/27/2012	Lower Gaspur	Primary	< 0.5	**5.7**	**68**	**2.4**	**3.6**	**1.8**	**5.3**	**1.3**	< 0.5	< 0.5	**15 J**	< 0.5
MW-60B	06/12/2012	Lower Gaspur	Primary	< 0.5	**4.9**	**64**	**2.2**	**3.2**	**2.5**	**5.3**	**1.6**	< 0.5	< 0.5	**25**	< 0.5
MW-60B	06/12/2012	Lower Gaspur	Split	< 0.5	**4.6**	**55 D**	**2.3**	**3.4**	**3.2**	**5.2**	**1.5**	< 0.5	**0.3 J**	**12**	NA
MW-60B	12/12/2012	Lower Gaspur	Primary	< 0.5	**4.6**	**59**	**2.8**	**3.5**	**2**	**4.6**	**1.2**	< 0.5	< 0.5	**25**	< 0.5
MW-60B	12/12/2012	Lower Gaspur	Primary	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**25**	NA
MW-60B	06/19/2013	Lower Gaspur	Primary	< 0.5	**2.3**	**33**	**1.6**	**2.3**	**0.96**	**3.3**	**0.79**	< 0.2	< 0.5	**15**	< 0.3
MW-60B	12/11/2013	Lower Gaspur	Primary	< 0.5	**3**	**36**	**1.9**	**2.8**	**0.93**	**3.2**	**0.98**	< 0.2	< 0.5	**15**	< 0.3
MW-60B	06/11/2014	Lower Gaspur	Primary	< 0.5	**2.8**	**23**	**1**	**1.5**	**0.5**	**1.9**	**0.69**	< 0.2	< 0.5	**12**	< 0.3
MW-60B	12/17/2014	Lower Gaspur	Primary	< 0.5	**1.7**	**22**	**1.2**	**2.1**	**1.2**	**1.6**	**1.2**	< 0.2	< 0.5	**12**	< 0.3
MW-60B	06/10/2015	Lower Gaspur	Primary	< 0.5	**2.3**	**35**	**2.3**	**3.5**	**2**	**4**	**2**	< 0.2	< 0.5	**16**	< 0.3
MW-60B	12/08/2015	Lower Gaspur	Primary	< 0.5	**3.1**	**50**	**3**	**3.8**	**1.2**	**5.2**	**1.1**	< 0.2	< 0.5	**13**	< 0.3
MW-60B	06/07/2016	Lower Gaspur	Primary	< 0.5	**2.1**	**17**	**1.4**	**1.5**	**0.59**	**1.7**	**0.6**	< 0.2	< 0.5	**8.5**	< 0.3
MW-60B	06/07/2016	Lower Gaspur	Duplicate	< 0.5	**2**	**17**	**1.6**	**1.4**	**0.53**	**1.7**	**0.54**	< 0.2	< 0.5	**8.2**	< 0.3
MW-60B	11/29/2016	Lower Gaspur	Primary	< 0.5	**1.7**	**20**	**1.5**	**1.7**	**0.5**	**1.7**	**0.41 J**	< 0.2	< 0.5	**9.7**	< 0.3
MW-60B	06/07/2017	Lower Gaspur	Primary	< 0.5	**0.32 J**	**9**	< 0.3	**0.53**	< 0.5	**1**	**1**	< 0.2	< 0.5	**8.9**	< 0.3
MW-61A	09/26/2011	Shallow Gaspur	Primary	< 0.5	**4.6**	**58**	**1.4**	**3.5**	**9**	**4.2**	**4.8**	**2.4**	< 0.5	**15 J**	< 0.5
MW-61A	12/08/2011	Shallow Gaspur	Primary	< 0.5	**1.2**	**80**	**1.5**	**3.9**	**4.2**	**4.3**	**6.6**	**3.4**	**0.57**	**15**	< 0.5
MW-61A	03/28/2012	Shallow Gaspur	Primary	< 0.5	< 0.5	**0.99**	< 0.5	< 0.5	< 0.5	< 0.5	**2.7**	< 0.5	< 0.5	**3.9 J**	< 0.5
MW-61A	06/08/2012	Shallow Gaspur	Primary	< 0.5	**0.88**	**86**	**1.6**	**4.1**	**4.1**	**4.3**	**6**	**5.4**	**0.62**	**12 J**	< 0.5
MW-61A	12/12/2012	Shallow Gaspur	Primary	< 0.5	**2.5**	**46**	**0.93**	**2.9**	**10**	**3.9**	**4**	**4.9**	**0.54**	**11**	< 0.5
MW-61A	06/21/2013	Shallow Gaspur	Primary	< 0.5	**1.2**	**38**	**1.1**	**2.2**	**3.1**	**3.3**	**2.4**	**3.4**	< 0.5	**11**	< 0.3
MW-61A	12/12/2013	Shallow Gaspur	Primary	< 0.5	**0.43 J**	**50**	**1.6**	**2.7**	**3**	**3.1**	**2.4**	**3.7**	< 0.5	**12**	< 0.3
MW-61A	12/12/2013	Shallow Gaspur	Duplicate	< 0.5	**0.34 J**	**48**	**1.5**	**2.3**	**2.8**	**2.9**	**2.4**	**3.6**	< 0.5	**13**	< 0.3
MW-61A	06/09/2014	Shallow Gaspur	Primary	< 0.5	< 0.2	**24**	< 0.3	**4.4**	**1.4**	**0.57**	**1.6**	**2.4**	< 0.5	**3.7**	< 0.3
MW-61A	12/17/2014	Shallow Gaspur	Primary	< 0.5	**1.2**	**59**	**3.5**	**3**	**2.8**	**5**	**0.96**	**0.43 J**	< 0.5	**24**	< 0.3
MW-61A	06/09/2015	Shallow Gaspur	Primary	< 0.5	**2.1**	**34**	**2**	**1.6**	**1.8**	**2.4**	**2.9**	< 0.2	< 0.5	**16**	< 0.3
MW-61A	12/10/2015	Shallow Gaspur	Primary	< 0.5	**26**	**72**	**4.4**	**3.1**	**2.2**	**8.4**	**2.2**	< 0.2	**0.57**	**46**	< 0.3
MW-61A	06/09/2016	Shallow Gaspur	Primary	< 0.5	**0.57**	**43**	**2.4**	**3.1**	**2**	**3.2**	**3.5**	**3.3**	< 0.5	**9.4**	< 0.3
MW-61A	12/01/2016	Shallow Gaspur	Primary	< 0.5	**0.53**	**73**	**2.1**	**4.9**	**2.4**	**4.4**	**4.9**	**3**	< 0.5	**14**	< 0.3
MW-61A	06/06/2017	Shallow Gaspur	Primary	< 0.5	**0.58**	**110**	**2.8**	**5.4**	**6.2**	**7.6**	**3.9**	**4.2**	< 0.5	**26**	< 0.3
MW-61B	09/26/2011	Intermediate Gaspur	Primary	< 0.5	< 0.5	**1.4**	< 0.5	< 0.5	< 0.5	< 0.5	**2.6**	< 0.5	< 0.5	< 4.5 J	< 0.5
MW-61B	12/06/2011	Intermediate Gaspur	Primary	< 0.5	< 0.5	**1.3**	< 0.5	< 0.5	< 0.5	< 0.5	**3**	< 0.5	< 0.5	**4.1**	< 0.5
MW-61B	03/26/2012	Intermediate Gaspur	Primary	< 0.5	< 0.5	**0.94**	< 0.5	< 0.5	**0.56**	< 0.5	**2.9**	< 0.5	< 0.5	**3.6 J**	< 0.5
MW-61B	03/26/2012	Intermediate Gaspur	Duplicate	< 0.5	< 0.5	**1.1**	< 0.5	< 0.5	**0.59**	< 0.5	**2.9**	< 0.5	< 0.5	**3.6 J**	< 0.5
MW-61B	06/08/2012	Intermediate Gaspur	Primary	< 0.5	< 0.5	**0.9**	< 0.5	< 0.5	**0.85**	< 0.5	**3.3**	< 0.5	< 0.5	**4 J**	< 0.5
MW-61B	12/13/2012	Intermediate Gaspur	Primary	< 0.5	< 0.5	**0.55**	< 0.5	< 0.5	**0.57**	< 0.5	**2.5**	< 0.5	< 0.5	**4**	< 0.5
MW-61B	06/21/2013	Intermediate Gaspur	Primary	< 0.5	< 0.2	**0.34 J**	< 0.3	< 0.4	< 0.5	< 0.2	**2.5**	< 0.2	< 0.5	**3.5**	< 0.3
MW-61B	12/12/2013	Intermediate Gaspur	Primary	< 0.5	< 0.2	**0.38 J**	< 0.3	< 0.4	< 0.5	< 0.2	**2.7**	< 0.2	< 0.5	**2.9**	< 0.3
MW-61B	06/09/2014	Intermediate Gaspur	Primary	< 0.5	< 0.2	< 0.2	< 0.3	< 0.4	< 0.5	< 0.2	**2.6**	< 0.2	< 0.5	**1.2 J**	< 0.3
MW-61B	12/17/2014	Intermediate Gaspur	Primary	< 0.5	< 0.2	**0.59**	< 0.3	< 0.4	< 0.5	< 0.2	**2.2**	< 0.2	< 0.5	**1.3 J**	< 0.3
MW-61B	06/08/2015	Intermediate Gaspur	Primary	< 0.5	< 0.2	**1.4**	< 0.3	< 0.4	< 0.5	< 0.2	**3.3**	< 0.2	< 0.5	**2.5**	< 0.3
MW-61B	12/09/2015	Intermediate Gaspur	Primary	< 0.5	**0.26 J**	**2.1**	< 0.3	< 0.4	< 0.5	**0.29 J**	**3.4**	< 0.2	< 0.5	< 1	< 0.3
MW-61B	06/09/2016	Intermediate Gaspur	Primary	< 0.5	< 0.2	**2**	< 0.3	< 0.4	< 0.5	< 0.2	**2.7**	< 0.2	< 0.5	< 1	< 0.3
MW-61B	12/01/2016	Intermediate Gaspur	Primary	< 0.5	< 0.2	**2.9**	< 0.3	< 0.4	< 0.5	< 0.2	**2.9**	< 0.2	< 0.5	**1.6 J**	< 0.3

TABLE V
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
MW-61B	06/06/2017	Intermediate Gaspur	Primary	< 0.5	< 0.2	**2.8**	< 0.3	< 0.4	**0.6**	< 0.2	< 0.3	< 0.2	**1.2**	**2.3**	< 0.3
MW-62A	07/26/2011	Shallow Gaspur	Primary	< 0.5	**4.7**	**32**	< 0.5	**6.4**	< 0.5	< 0.5	**2.5**	**3.2**	< 0.5	**1.1**	< 0.5
MW-62A	07/26/2011	Shallow Gaspur	Duplicate	< 0.5	**4.2**	**29**	< 0.5	**5.8**	< 0.5	< 0.5	**2.3**	**3**	< 0.5	**1**	< 0.5
MW-62A	09/27/2011	Shallow Gaspur	Primary	< 0.5	**3.4**	**33**	< 0.5	**6.2**	< 0.5	< 0.5	**2.3**	**3**	< 0.5	< 1.2	< 0.5
MW-62A	12/07/2011	Shallow Gaspur	Primary	< 0.5	**3.1**	**31**	< 0.5	**6.1**	< 0.5	< 0.5	**2.2**	**2.5**	< 0.5	**1.4**	< 0.5
MW-62A	03/27/2012	Shallow Gaspur	Primary	< 0.5	**3.1**	**26**	< 0.5	**5**	< 0.5	< 0.5	**2.2**	**2.4**	< 0.5	**1.2 J**	< 0.5
MW-62A	06/12/2012	Shallow Gaspur	Primary	< 0.5	**2.2**	**25**	< 0.5	**4.2**	< 0.5	< 0.5	**2.2**	**2.5**	< 0.5	**1.2**	< 0.5
MW-62A	12/14/2012	Shallow Gaspur	Primary	< 0.5	**2.3**	**30**	< 0.5	**6.2**	**0.52**	< 0.5	**1.6**	**2.7**	< 0.5	**1.6**	< 0.5
MW-62A	06/19/2013	Shallow Gaspur	Primary	< 0.5	**1.2**	**23**	< 0.3	**4.6**	< 0.5	**0.3 J**	**1.4**	**1.8**	< 0.5	**1.5 J**	< 0.3
MW-62A	12/11/2013	Shallow Gaspur	Primary	< 0.5	**1.1**	**23**	< 0.3	**4.4**	< 0.5	< 0.2	**1.3**	**1.3**	< 0.5	**1.5 J**	< 0.3
MW-62A	06/11/2014	Shallow Gaspur	Primary	< 0.5	**3.5**	**22**	< 0.3	**6.3**	< 0.5	< 0.2	**1.5**	**1.4**	< 0.5	**1.6 J**	< 0.3
MW-62A	12/17/2014	Shallow Gaspur	Primary	< 0.5	**3.5**	**23**	< 0.3	**8.8**	< 0.5	< 0.2	**1.7**	**1.1**	< 0.5	< 1	< 0.3
MW-62A	06/10/2015	Shallow Gaspur	Primary	< 0.5	**4**	**23**	**0.31 J**	**10**	< 0.5	< 0.2	**3.4**	**1.4**	< 0.5	< 1	< 0.3
MW-62A	12/08/2015	Shallow Gaspur	Primary	< 0.5	**3.3**	**27**	< 0.3	**11**	< 0.5	< 0.2	**2.3**	**1.1**	< 0.5	< 1	< 0.3
MW-62A	12/08/2015	Shallow Gaspur	Duplicate	< 0.5	**3.3**	**27**	< 0.3	**11**	< 0.5	< 0.2	**2.4**	**1.1**	< 0.5	< 1	< 0.3
MW-62A	06/07/2016	Shallow Gaspur	Primary	< 0.5	**1.8**	**21**	< 0.3	**8.6**	< 0.5	< 0.2	**1.9**	< 0.2	< 0.5	< 1	< 0.3
MW-62A	11/29/2016	Shallow Gaspur	Primary	< 0.5	**1.3**	**20**	< 0.3	**7.9**	< 0.5	**0.69**	**1.9**	**0.42 J**	< 0.5	**1.2 J**	< 0.3
MW-62A	06/07/2017	Shallow Gaspur	Primary	< 0.5	**0.34 J**	**2.7**	< 0.3	**0.85**	< 0.5	< 0.2	< 0.3	< 0.2	< 0.5	< 1	< 0.3
MW-62B	09/28/2011	Lower Gaspur	Primary	< 0.5	**44**	**62**	< 0.5	**27**	< 0.5	< 0.5	**7.6**	**20**	< 0.5	< 0.95	< 0.5
MW-62B	12/08/2011	Lower Gaspur	Primary	< 0.5	**44**	**61**	**0.5**	**25**	< 0.5	< 0.5	**8.3**	**20**	< 0.5	< 0.95	< 0.5
MW-62B	03/28/2012	Lower Gaspur	Primary	< 0.5	**45**	**72**	**0.52**	**28**	**0.63**	< 0.5	**7.7**	**21**	< 0.5	< 0.94 J	< 0.5
MW-62B	06/12/2012	Lower Gaspur	Primary	< 0.5	**15**	**90**	**0.57**	**25**	< 0.5	< 0.5	**7.5**	**20**	< 0.5	< 0.94	< 0.5
MW-62B	12/11/2012	Lower Gaspur	Primary	< 0.5	**0.74**	**76**	**0.52**	**19**	**1.3**	< 0.5	**6.7**	**13**	< 0.5	< 0.95	< 0.5
MW-62B	06/19/2013	Lower Gaspur	Primary	< 0.5	**11**	**41**	**0.36 J**	**13**	**1.3**	< 0.2	**3.6**	**9.7**	< 0.5	< 1 J	< 0.3
MW-62B	12/11/2013	Lower Gaspur	Primary	< 0.5	**1.5**	**46**	**0.51**	**14**	**1.7**	< 0.2	**3.4**	**10**	< 0.5	< 1	< 0.3
MW-62B	06/11/2014	Lower Gaspur	Primary	< 0.5	**6.4**	**30**	< 0.3	**7.5**	**0.75**	< 0.2	**2.1**	**5.6**	< 0.5	< 1	< 0.3
MW-62B	12/17/2014	Lower Gaspur	Primary	< 0.5	**3.1**	**20**	< 0.3	**3.8**	**0.56**	< 0.2	**2**	**2**	< 0.5	< 1	< 0.3
MW-62B	06/10/2015	Lower Gaspur	Primary	< 0.5	**6.6**	**18**	< 0.3	**4.2**	**0.82**	< 0.2	**3.7**	**1.6**	< 0.5	< 1	< 0.3
MW-62B	12/08/2015	Lower Gaspur	Primary	< 0.5	**7.3**	**13**	< 0.3	**2.7**	**0.73**	< 0.2	**2.9**	**0.51**	< 0.5	< 1	< 0.3
MW-62B	06/07/2016	Lower Gaspur	Primary	< 0.5	**6.7**	**10**	< 0.3	**2.4**	**0.76**	< 0.2	**1.9**	**0.86**	< 0.5	< 1	< 0.3
MW-62B	11/29/2016	Lower Gaspur	Primary	< 0.5	**4.9**	**8.7**	< 0.3	**2.6**	**1.3**	< 0.2	**2.5**	**0.66**	< 0.5	< 1	< 0.3
MW-62B	06/07/2017	Lower Gaspur	Primary	< 0.5	**4.2**	**9.6**	< 0.3	**1.7**	**0.89**	< 0.2	**2.5**	< 0.2	< 0.5	< 1	< 0.3
PZ-7A	08/11/2011	Shallow Gaspur	Primary	< 0.5	**7.2**	**20**	< 0.5	**1.4**	< 0.5	**0.53**	**2.8**	**1.7**	< 0.5	**2.7**	< 0.5
PZ-7A	09/27/2011	Shallow Gaspur	Primary	< 0.5	**5.6**	**25**	< 0.5	**1.7**	< 0.5	**0.64**	**2.6**	**1.5**	< 0.5	< 2.9	< 0.5
PZ-7A	12/07/2011	Shallow Gaspur	Primary	< 0.5	**4.4**	**30**	< 0.5	**2.4 J**	< 0.5	**0.63**	**3.1**	**1.6**	< 0.5	**2.2**	< 0.5
PZ-7A	12/07/2011	Shallow Gaspur	Duplicate	< 0.5	**4.6**	**23**	< 0.5	**1.7 J**	< 0.5	**0.5**	**3.2**	**1.5**	< 0.5	**2.3**	< 0.5
PZ-7A	03/27/2012	Shallow Gaspur	Primary	< 0.5	**3.1**	**27**	< 0.5	**2**	< 0.5	< 0.5	**2.7**	**1.9**	< 0.5	**2.5 J**	< 0.5
PZ-7A	06/12/2012	Shallow Gaspur	Primary	< 0.5	**2.5**	**30**	< 0.5	**2**	< 0.5	**0.54**	**3.2 J**	**2.5**	< 0.5	**2.2**	< 0.5
PZ-7A	12/13/2012	Shallow Gaspur	Primary	< 0.5	**1.4**	**26**	< 0.5	**1.6**	< 0.5	**0.53**	**3.2**	**1.6**	< 0.5	< 2.6	< 0.5
PZ-7A	06/19/2013	Shallow Gaspur	Primary	< 0.5	**1.5**	**27**	**0.48 J**	**2.5**	< 0.5	**0.57**	**2.5**	**1.5**	< 0.5	**2.3**	< 0.3
PZ-7A	12/11/2013	Shallow Gaspur	Primary	< 0.5	**2.2**	**30**	< 0.3	**2.7**	< 0.5	**0.4 J**	**2.2**	**1.4**	< 0.5	**2.4**	< 0.3
PZ-7A	06/11/2014	Shallow Gaspur	Primary	< 0.5	**2.4**	**22**	< 0.3	**2.3**	< 0.5	< 0.2	**1.6**	**1.2**	< 0.5	**2.4**	< 0.3
PZ-7A	12/17/2014	Shallow Gaspur	Primary	< 0.5	**1.9**	**22**	< 0.3	**2.3**	< 0.5	< 0.2	**1.3**	**1.2**	< 0.5	**1.7 J**	< 0.3
PZ-7A	06/10/2015	Shallow Gaspur	Primary	< 0.5	**3.7**	**27**	< 0.3	**5.5**	**0.66**	**0.35 J**	**3**	**2.2**	< 0.5	< 1	< 0.3
PZ-7A	12/09/2015	Shallow Gaspur	Primary	< 0.5	**3.1**	**30**	< 0.3	**7.2**	< 0.5	< 0.2	**3.1**	**2.7**	< 0.5	< 1	< 0.3
PZ-7A	06/07/2016	Shallow Gaspur	Primary	< 0.5	**2.6**	**26**	< 0.3	**8.2**	< 0.5	< 0.2	**2.2**	**2.4**	< 0.5	< 1	< 0.3
PZ-7A	11/29/2016	Shallow Gaspur	Primary	< 0.5	**1.9**	**20**	< 0.3	**6.1**	< 0.5	**0.5**	**1.6**	**1.1**	< 0.5	**2.1**	< 0.3
PZ-7A	06/07/2017	Shallow Gaspur	Primary	< 0.5	**0.59**	**8.4**	< 0.3	**1.6**	< 0.5	< 0.2	**0.59**	**0.38 J**	< 0.5	< 1	< 0.3

TABLE V
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
PZ-7B	08/11/2011	Intermediate Gaspur	Primary	< 0.5	**5.7**	**27 J**	< 0.5	**3.5**	< 0.5	< 0.5	**3**	**2.6**	< 0.5	**2.1**	< 0.5
PZ-7B	09/27/2011	Intermediate Gaspur	Primary	< 0.5	**5**	**39**	< 0.5	**4.3**	< 0.5	< 0.5	**2.9**	**3.2**	< 0.5	< 2.6	< 0.5
PZ-7B	12/07/2011	Intermediate Gaspur	Primary	< 0.5	**2.8**	**37**	< 0.5	**4**	< 0.5	< 0.5	**2.8**	**2.8**	< 0.5	**2.1**	< 0.5
PZ-7B	03/27/2012	Intermediate Gaspur	Primary	< 0.5	**2.4**	**33**	< 0.5	**4.5**	< 0.5	< 0.5	**2.9**	**2.8**	< 0.5	**1.9 J**	< 0.5
PZ-7B	06/13/2012	Intermediate Gaspur	Primary	< 0.5	**1.1 J**	**25**	< 0.5	**2.3**	< 0.5	< 0.5	**2.6**	**2**	< 0.5	**2.1**	< 0.5
PZ-7B	12/13/2012	Intermediate Gaspur	Primary	< 0.5	**0.98**	**32**	< 0.5	**3.8**	**0.75**	< 0.5	**3.5**	**2.4**	< 0.5	< 2	< 0.5
PZ-7B	12/13/2012	Intermediate Gaspur	Duplicate	< 0.5	**0.98**	**31**	< 0.5	**3.6**	**0.73**	< 0.5	**3.4**	**2.4**	< 0.5	< 2	< 0.5
PZ-7B	06/19/2013	Intermediate Gaspur	Primary	< 0.5	**0.52**	**34**	< 0.3	**5.5**	**0.97**	**0.36 J**	**2.4**	**3**	< 0.5	**2**	< 0.3
PZ-7B	12/11/2013	Intermediate Gaspur	Primary	< 0.5	**0.67**	**33**	**0.34 J**	**6**	**1**	< 0.2	**1.9**	**3.2**	< 0.5	**1.8 J**	< 0.3
PZ-7B	06/11/2014	Intermediate Gaspur	Primary	< 0.5	**0.81**	**38**	< 0.3	**6**	**0.76**	< 0.2	**1.5**	**3.8**	< 0.5	**2.1**	< 0.3
PZ-7B	12/17/2014	Intermediate Gaspur	Primary	< 0.5	**0.54**	**26**	< 0.3	**4.8**	**1.2**	< 0.2	**1.3**	**1.8**	< 0.5	**1.5 J**	< 0.3
PZ-7B	06/10/2015	Intermediate Gaspur	Primary	< 0.5	**1.3**	**32**	< 0.3	**9.6**	**0.89**	**0.37 J**	**3.4**	**3.6**	< 0.5	< 1	< 0.3
PZ-7B	06/10/2015	Intermediate Gaspur	Duplicate	< 0.5	**1.5**	**30**	< 0.3	**9.3**	**0.81**	< 0.2	**3.4**	**3.4**	< 0.5	< 1	< 0.3
PZ-7B	12/09/2015	Intermediate Gaspur	Primary	< 0.5	**1.2**	**38**	< 0.3	**11**	**1.2**	< 0.2	**3.2**	**4.3**	< 0.5	< 1	< 0.3
PZ-7B	06/07/2016	Intermediate Gaspur	Primary	< 0.5	**0.95**	**27**	**0.3 J**	**9.9**	**0.95**	< 0.2	**2.2**	**3.3**	< 0.5	< 1	< 0.3
PZ-7B	11/29/2016	Intermediate Gaspur	Primary	< 0.5	**1.8**	**22**	< 0.3	**7.6**	**1.6**	**0.91**	**1.8**	**1.1**	< 0.5	**1.7 J**	< 0.3
PZ-7B	11/29/2016	Intermediate Gaspur	Duplicate	< 0.5	**1.9**	**24**	< 0.3	**8.4**	**1.6**	**0.85**	**2**	**1.3**	< 0.5	**2**	< 0.3
PZ-7B	06/07/2017	Intermediate Gaspur	Primary	< 0.5	**0.49 J**	**3.7**	< 0.3	**4**	**8.1**	< 0.2	**1.1**	**1.9**	< 0.5	< 1	< 0.3
EW-2	12/01/2000	Shallow Gaspur	Primary	< 1	**150**	**170**	**9**	**10**	**1.7**	**20**	**5.4**	**2**	**3**	NA	NA
EW-2	03/01/2001	Shallow Gaspur	Primary	**0.6 J**	**130**	**110**	**10 J**	**12**	**2.4**	**20**	< 0.5	**2**	**4**	NA	NA
EW-2	05/01/2003	Shallow Gaspur	Primary	< 50	**86**	**1300 J**	**46 J**	**39 J**	**12 J**	**260**	**46 J**	**20**	< 50 *	NA	NA
EW-2	12/01/2003	Shallow Gaspur	Primary	< 1	**16**	**1200**	**72**	**55**	**13**	**320**	**36**	**15**	**11**	NA	NA
EW-2	02/01/2004	Shallow Gaspur	Primary	< 5	**140**	**1000**	**56**	**44**	**12**	**230**	**39**	**14**	**13**	NA	NA
EW-2	04/04/2004	Shallow Gaspur	Primary	< 0.5	**270**	**1200**	**54 E**	**63 J**	**84 J**	**280**	**48 E**	**20**	**15**	**710**	NA
EW-2	07/01/2004	Shallow Gaspur	Primary	< 2	**130 D**	**390 D**	**27**	**51**	**460 D**	**250 D**	**39**	**14**	**11**	NA	NA
EW-2	11/01/2004	Shallow Gaspur	Primary	< 0.5	**130 D**	**210 D**	**34 E**	**72 JD**	**1100 D**	**240 D**	**41 E**	**20**	**15 J**	**700**	NA
EW-2	04/01/2005	Shallow Gaspur	Primary	< 0.5	**59 D**	**94 D**	**12**	**48 D**	**310 D**	**220 D**	**24**	**20**	**12**	**530**	NA
EW-2	11/01/2005	Shallow Gaspur	Primary	< 0.5	**190**	**120**	**25**	**59**	**430**	**250**	**22**	**16**	**11**	**510**	NA
EW-2	03/01/2006	Shallow Gaspur	Primary	< 0.5	**42 D**	**20**	**4.1**	**42 D**	**190 D**	**200 D**	**16**	**12**	**11**	**550**	NA
EW-2	08/01/2006	Shallow Gaspur	Primary	< 0.5	**30 D**	**46 D**	**5.4**	**40 D**	**110 D**	**200 D**	**21**	**13**	**9.1**	**430**	NA
EW-2	03/01/2008	Shallow Gaspur	Primary	< 0.5	**11**	**10**	**0.69**	**32 D**	**29 D**	**130 D**	**13**	**10**	**6**	**290 D**	NA
EW-2	05/14/2009	Shallow Gaspur	Primary	< 0.5	**29 D**	**94 D**	**2.4 J**	**23 D**	**58 D**	**120 D**	**16**	**10**	**8.1**	**160 D**	NA
EW-2	07/15/2010	Shallow Gaspur	Primary	< 0.5	**20**	**140**	**2.4**	**14**	**35 J**	**73 J**	**14**	**5.8**	**5.7**	**87 J**	**2**
EW-2	07/23/2012	Shallow Gaspur	Primary	< 0.5	**12**	**25**	**2.4**	**1.5**	**3.1**	**4.5**	**1.4**	**1.5**	< 0.5	**12**	< 0.5
EW-2	08/17/2012	Shallow Gaspur	Primary	< 0.5	**9.2**	**25**	**2.9**	**1.6**	**4.6**	**4.9**	**1.4**	**1.7**	< 0.5	**12 J**	< 0.5
EW-2	08/24/2012	Shallow Gaspur	Primary	< 0.5	**9.9**	**29**	**2.4**	**1.5**	**3.7**	**5.1**	**1.3**	**1.6**	**0.5**	**9.8 J**	< 0.5
EW-2	09/07/2012	Shallow Gaspur	Primary	< 0.5	**17**	**42**	**2.9**	**2.4**	**2.6**	**6.1**	**1.2**	**1.8**	< 0.5	**15 J**	< 0.5
EW-2	09/14/2012	Shallow Gaspur	Primary	< 0.5	**16**	**42**	**2.6**	**2.3**	**3.5**	**5.9**	**1.3**	**1.8**	**0.86**	**14 J**	**0.58**
EW-2	02/28/2013	Shallow Gaspur	Primary	< 0.5	**13**	**52**	**3.5**	**2.9**	**3.8**	**6.2**	**2**	**5.8**	**0.77**	**16**	< 0.5
EW-2	03/08/2013	Shallow Gaspur	Primary	< 1	**13**	**40**	**2.4 J**	**2.5**	**2.8**	**5.1**	**1.4**	**3.8**	< 1	**24**	< 1
EW-2	03/15/2013	Shallow Gaspur	Primary	< 1	**15**	**44**	**3.6**	**3**	**3.4**	**5.4**	**1.9**	**3.8**	< 1	**21**	< 1
EW-2	03/22/2013	Shallow Gaspur	Primary	< 1	**16**	**47**	**3.1**	**2.9**	**3.8**	**6.1**	**1.9**	**4**	< 1	**21**	< 1 J
EW-2	06/21/2013	Shallow Gaspur	Primary	< 0.5	**11**	**41**	**3.2**	**2.7**	**2.8**	**6.2**	**1.7**	**2.4**	< 0.5	**17**	< 0.3
EW-2	12/13/2013	Shallow Gaspur	Primary	< 0.5	**12**	**38**	**3**	**2.3**	**2.7**	**4.4**	**2.1**	**2.5**	< 0.5	**16**	< 0.3
EW-2	06/12/2014	Shallow Gaspur	Primary	< 0.5	**3.8**	**26**	**2**	**1.8**	**1.4**	**2.7**	**1.3**	**2.4**	< 0.5	**15**	< 0.3
EW-2	12/17/2014	Shallow Gaspur	Primary	< 0.5	**4.2**	**35**	**2.5**	**2.1**	**2.9**	**3.7**	**1.3**	**2.7**	< 0.5	**16**	< 0.3
EW-2	06/11/2015	Shallow Gaspur	Primary	< 0.5	**6.3**	**32**	**3.2**	**2.5**	**4.7**	**4.7**	**2.5 J**	**3.1**	< 0.5	**17**	< 0.3
EW-2	12/11/2015	Shallow Gaspur	Primary	< 0.5	**2.5**	**27**	**3.6**	**1.7**	**3.2**	**3.2**	**0.86**	**2.5**	< 0.5	**16**	< 0.3

TABLE V
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
EW-2	06/10/2016	Shallow Gaspur	Primary	< 0.5	**2.3**	**17**	**4.9**	**1.2**	**2**	**2.1**	**0.42 J**	**2.5**	< 0.5	**17**	< 0.3
EW-2	12/01/2016	Shallow Gaspur	Primary	< 0.5	**1.9**	**19**	**4.6**	**1.3**	**2.2**	**2.1**	**0.38 J**	**2.7**	< 0.5	**18**	< 0.3
EW-2	06/07/2017	Shallow Gaspur	Primary	< 0.5	**0.48 J**	**11**	**2.8**	**0.82**	**3**	**1.7**	**0.42 J**	**2.7**	< 0.5	**17**	< 0.3
EW-4	07/26/2011	Shallow/Intermediate	Primary	< 0.5	**1**	**43**	< 0.5	**4.4**	< 0.5	**1.3**	**2.2**	**5.2**	< 0.5	**8.1**	< 0.5
EW-4	02/28/2013	Shallow/Intermediate	Primary	< 0.5	**1.9**	**45**	**0.82**	**2**	**2.2**	**2**	**3.6**	**5.2**	< 0.5	**8.8**	< 0.5
EW-4	03/08/2013	Shallow/Intermediate	Primary	< 1	**3.4**	**36**	< 1 J	**2.3**	**2**	**2.4**	**2.6**	**4**	< 1	**9.8**	< 1
EW-4	03/15/2013	Shallow/Intermediate	Primary	< 1	**3.5**	**40**	**1.2**	**2.4**	**2.4**	**2.7**	**3.3**	**3.5**	< 1	**9.9**	< 1
EW-4	03/22/2013	Shallow/Intermediate	Primary	< 1	**4.1**	**43**	**1.3**	**2.5**	**2.8**	**3**	**3.4**	**3.5**	< 1	**11**	< 1 J
EW-4	06/21/2013	Shallow/Intermediate	Primary	< 0.5	**5.4**	**43**	**2**	**2.5**	**2**	**4.2**	**2**	**2.2**	< 0.5	**15**	< 0.3
EW-4	12/13/2013	Shallow/Intermediate	Primary	< 0.5	**5.5**	**48**	**2.6**	**3.2**	**2**	**4.7**	**1.6**	**1.2**	< 0.5	**17**	< 0.3
EW-4	06/12/2014	Shallow/Intermediate	Primary	< 0.5	**1.9**	**44**	**2**	**3.4**	**1.3**	**3.1**	**1.4**	**1.2**	< 0.5	**20**	< 0.3
EW-4	12/17/2014	Shallow/Intermediate	Primary	< 0.5	**0.76**	**28**	**1.2**	**2**	**0.92**	**1.4**	**1.2**	**0.7**	< 0.5	**14**	< 0.3
EW-4	06/11/2015	Shallow/Intermediate	Primary	< 0.5	**4.4**	**40**	**2**	**4.8**	**2.1**	**3.1**	**3.2 J**	**1.5**	< 0.5	**15**	< 0.3
EW-4	12/09/2015	Shallow/Intermediate	Primary	< 0.5	**0.63**	**41**	**1.4**	**6.7**	**2.2**	**2.4**	**3.9**	**2.2**	< 0.5	**6.2**	< 0.3
EW-4	06/10/2016	Shallow/Intermediate	Primary	< 0.5	**0.61**	**41**	**1.4**	**4.9**	**2.1**	**2.1**	**3.9**	**2.7**	< 0.5	**2.9**	< 0.3
EW-4	12/01/2016	Shallow/Intermediate	Primary	< 0.5	**0.56**	**39**	**1.3**	**4.7**	**4.1**	**2**	**3.2**	**1.6**	< 0.5	**7.4**	< 0.3
EW-4	06/09/2017	Shallow/Intermediate	Primary	< 0.5	**0.4 J**	**38**	**0.91**	**3.4**	**1.6**	**2**	**2.5**	**1.4**	< 0.5	**10**	< 0.3
EW-4	06/09/2017	Shallow/Intermediate	Duplicate	< 0.5	**0.42 J**	**41**	**0.87**	**4.6**	**1.5**	**2.2**	**2.8**	**1.6**	< 0.5	**11**	< 0.3
EW-5	06/19/2013	Shallow Gaspur	Primary	< 0.5	**18**	**59**	**5.7**	**3.3**	**0.87**	**9.4**	**0.45 J**	< 0.2	< 0.5	**29**	< 0.3
EW-5	12/11/2013	Shallow Gaspur	Primary	< 0.5	**10**	**4.7**	**0.48 J**	< 0.4	< 0.5	**0.32 J**	< 0.3	< 0.2	< 0.5	< 1	< 0.3
EW-5	06/11/2014	Shallow Gaspur	Primary	< 0.5	**5.2**	**12**	**0.95**	**0.78**	< 0.5	**0.6**	< 0.3	< 0.2	< 0.5	**5.9**	< 0.3
EW-5	12/17/2014	Shallow Gaspur	Primary	< 0.5	**6.1**	**3.9**	**0.4 J**	< 0.4	< 0.5	**0.25 J**	< 0.3	< 0.2	< 0.5	**2**	< 0.3
EW-5	12/09/2015	Shallow Gaspur	Primary	< 0.5	**10**	**24**	**1.4**	**1.4**	< 0.5	**1.3**	**1.8**	< 0.2	< 0.5	**16**	< 0.3
EW-5	12/16/2015	Shallow Gaspur	Primary	< 0.5	**9.4**	**23**	**1.3**	**1.7**	< 0.5	**1.1**	**1.5**	< 0.2	< 0.5	**14**	< 0.3
EW-5	12/23/2015	Shallow Gaspur	Primary	< 0.5	**10**	**34**	**2.2**	**1.9**	< 0.5	**2.1**	**1.8**	**0.3 J**	< 0.5	**18**	< 0.3
EW-5	12/30/2015	Shallow Gaspur	Primary	< 0.5	**9.5**	**25**	**1.6**	**1.7**	**0.56**	**1.8**	< 0.3	< 0.2	< 0.5	**17**	< 0.3
EW-5	06/08/2016	Shallow Gaspur	Primary	< 0.5	**9.1**	**26**	**1.9**	**1.4**	< 0.5	**1.9**	**1.7**	< 0.2	< 0.5	**11**	< 0.3
EW-5	12/02/2016	Shallow Gaspur	Primary	< 0.5	**13**	**20**	**1.5**	**1.1**	< 0.5	**1.4**	< 0.3	< 0.2	< 0.5	**13**	< 0.3
EW-5	06/07/2017	Shallow Gaspur	Primary	< 0.5	**11**	**15**	**1.3**	**0.71**	< 0.5	**1.8**	< 0.3	< 0.2	< 0.5	**15**	< 0.3
EW-7A	06/19/2013	Shallow/Intermediate	Primary	< 0.5	**3.1**	**41**	**0.55**	**3.7**	< 0.5	**1.2**	**2**	**2.3**	< 0.5	**5.2**	< 0.3
EW-7A	12/11/2013	Shallow/Intermediate	Primary	< 0.5	**1.8**	**35**	**0.51**	**4.4**	< 0.5	**0.72**	**2.1**	**3.9**	< 0.5	**3.4**	< 0.3
EW-7A	12/11/2013	Shallow/Intermediate	Duplicate	< 0.5	**1.8**	**36**	**0.51**	**4.4**	< 0.5	**0.56**	**2.1**	**4**	< 0.5	**3.4**	< 0.3
EW-7A	06/11/2014	Shallow/Intermediate	Primary	< 0.5	**0.94**	**36**	**0.38 J**	**3.3**	< 0.5	**0.38 J**	**1.6**	**2.3**	< 0.5	**4.5**	< 0.3
EW-7A	12/17/2014	Shallow/Intermediate	Primary	< 0.5	**0.82**	**33**	< 0.3	**3.5**	< 0.5	**0.48 J**	**1.4**	**2.3**	< 0.5	**2.5**	< 0.3
EW-7A	12/17/2014	Shallow/Intermediate	Duplicate	< 0.5	**0.88**	**34**	**0.36 J**	**3.6**	< 0.5	**0.49 J**	**1.7**	**2.2**	< 0.5	**2.6**	< 0.3
EW-7A	12/09/2015	Shallow/Intermediate	Primary	< 0.5	**1.4**	**27**	< 0.3	**5.6**	< 0.5	< 0.2	**1.9**	**3.1**	< 0.5	**1 J**	< 0.3
EW-7A	12/10/2015	Shallow/Intermediate	Primary	< 0.5	**1.3**	**30**	< 0.3	**6.3**	< 0.5	**0.3 J**	**1.8**	**2.6**	< 0.5	< 1	< 0.3
EW-7A	12/10/2015	Shallow/Intermediate	Duplicate	< 0.5	**1.4**	**31**	< 0.3	**6.6**	< 0.5	**0.26 J**	**1.8**	**2.7**	< 0.5	< 1	< 0.3
EW-7A	12/16/2015	Shallow/Intermediate	Primary	< 0.5	**1.4**	**25**	< 0.3	**5.7**	< 0.5	< 0.2	**2.1**	**2.9**	< 0.5	< 1	< 0.3
EW-7A	12/23/2015	Shallow/Intermediate	Primary	< 0.5	**1.4**	**36**	**0.46 J**	**6.9**	< 0.5	**0.43 J**	**1.8**	**3.1**	< 0.5	**2**	< 0.3
EW-7A	12/30/2015	Shallow/Intermediate	Primary	< 0.5	**1.3**	**27**	< 0.3	**6.8**	**0.52**	< 0.2	< 0.3	**3**	< 0.5	**1.3 J**	< 0.3
EW-7A	06/07/2016	Shallow/Intermediate	Primary	< 0.5	**2.3**	**29**	**0.6**	**6.9**	< 0.5	**0.64**	**1.8**	**2.1**	< 0.5	**3**	< 0.3
EW-7A	11/29/2016	Shallow/Intermediate	Primary	< 0.5	**1.9**	**29**	**0.49 J**	**6.4**	< 0.5	**0.77**	**1.7**	**1.8**	< 0.5	**4.7**	< 0.3
EW-7A	06/07/2017	Shallow/Intermediate	Primary	< 0.5	**1.8**	**24**	**0.53**	**4.2**	< 0.5	**1**	**1.2**	**0.83**	< 0.5	**6.5**	< 0.3
EW-7B	06/19/2013	Lower Gaspur	Primary	< 0.5	**3**	**42**	**0.33 J**	**6.6**	**0.59**	**0.57**	**2.6**	**4.2**	< 0.5	**4.4**	< 0.3
EW-7B	12/11/2013	Lower Gaspur	Primary	< 0.5	**2.9**	**52**	**0.44 J**	**8.6**	**0.54**	**0.53**	**3.1**	**5.2**	< 0.5	**4.3**	< 0.3
EW-7B	06/11/2014	Lower Gaspur	Primary	< 0.5	**1.7**	**43**	< 0.3	**6.7**	< 0.5	< 0.2	**2.2**	**4.5**	< 0.5	**3.6**	< 0.3
EW-7B	12/17/2014	Lower Gaspur	Primary	< 0.5	**1.6**	**38**	< 0.3	**7.1**	**0.75**	**0.26 J**	**1.9**	**4.5**	< 0.5	**2.4**	< 0.3

TABLE V
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
EW-7B	12/09/2015	Lower Gaspur	Primary	< 0.5	**4**	**50**	< 0.3	**8.4**	**1.1**	**1.1**	**2.8**	**4.5**	< 0.5	**5.1**	< 0.3
EW-7B	12/10/2015	Lower Gaspur	Primary	< 0.5	**3.9**	**57**	**0.69**	**10**	**1.3**	**1.3**	**2.8**	**4.4**	< 0.5	**4.1**	< 0.3
EW-7B	12/16/2015	Lower Gaspur	Primary	< 0.5	**4.2**	**53**	< 0.3	**8.6**	**1.2**	**1**	**3.2**	**4.7**	< 0.5	**4.7**	< 0.3
EW-7B	12/23/2015	Lower Gaspur	Primary	< 0.5	**4.4**	**68**	**1.4**	**10**	**2.4**	**2**	**3.2**	**5.1**	< 0.5	**6.5**	< 0.3
EW-7B	12/30/2015	Lower Gaspur	Primary	< 0.5	**3.8**	**51**	**0.86**	**9.7**	**1.6**	**1.4**	< 0.3	**4.5**	< 0.5	**6.5**	< 0.3
EW-7B	06/07/2016	Lower Gaspur	Primary	< 0.5	**3.5**	**52**	**1.2**	**7.5**	**1.2**	**1.6**	**2.4**	**2.5**	< 0.5	**7.1**	< 0.3
EW-7B	11/29/2016	Lower Gaspur	Primary	< 0.5	**3.4**	**58**	**1.2**	**6.6**	**0.94**	**1.6**	**2.2**	**2.3**	< 0.5	**9.2**	< 0.3
EW-7B	06/07/2017	Lower Gaspur	Primary	< 0.5	**2.9**	**46**	**0.82**	**5.1**	**0.82**	**1.5**	**1.6**	**1.2**	< 0.5	**8.9**	< 0.3
EW-8	06/21/2013	Lower Gaspur	Primary	< 0.5	**1.2**	**47**	**0.8**	**3.3**	**1.3**	**2.2**	**3.2**	**2**	< 0.5	**7.9**	< 0.3
EW-8	12/11/2013	Lower Gaspur	Primary	< 0.5	**1.8**	**56**	**0.98**	**6.1**	**1.8**	**2.1**	**3.7**	**3**	< 0.5	**7.9**	< 0.3
EW-8	06/11/2014	Lower Gaspur	Primary	< 0.5	**1.7**	**55**	**0.84**	**6**	**2.1**	**2**	**3.2**	**3.4**	< 0.5	**8.7**	< 0.3
EW-8	12/18/2014	Lower Gaspur	Primary	< 0.5	**1.4**	**47**	**0.61**	**5.4**	**1.3**	**1.3**	**2.6**	**2.8**	< 0.5	**5.8**	< 0.3
EW-8	06/09/2015	Lower Gaspur	Primary	< 0.5	**1.6**	**45**	**0.54**	**8.7**	**1.6**	**1**	**4.3**	**4.4**	< 0.5	**3.9**	< 0.3
EW-8	12/08/2015	Lower Gaspur	Primary	< 0.5	**1.8**	**40**	< 0.3	**9.4**	**1.5**	**0.75**	**2.7**	**3.8**	< 0.5	**1.7 J**	< 0.3
EW-8	06/07/2016	Lower Gaspur	Primary	< 0.5	**1.2**	**30**	< 0.3	**9.3**	**3.4**	**1.2**	**2.3**	**4**	< 0.5	**2.6**	< 0.3
EW-8	11/30/2016	Lower Gaspur	Primary	< 0.5	**1.5**	**35**	< 0.3	**9.5**	**1.2**	**2.3**	**2.5**	**3**	< 0.5	**5.5**	< 0.3
EW-8	06/09/2017	Lower Gaspur	Primary	< 0.5	**1.1**	**30**	< 0.3	**10**	**0.91**	**0.58**	**2.4**	**2.4**	< 0.5	**2 J**	< 0.3
EW-A	12/09/2015	Lower Gaspur	Primary	< 0.5	**1.2**	**32**	**0.92**	**5**	**1.9**	**2**	**4**	**1.8**	< 0.5	**7.2**	< 0.3
EW-A	12/09/2015	Lower Gaspur	Primary	< 0.5	**1.1**	**25**	**0.76**	**4**	**1.2**	**1.4**	**3.3**	**1.7**	< 0.5	**8.4**	< 0.3
EW-A	12/16/2015	Lower Gaspur	Primary	< 0.5	**1.2**	**26**	< 0.3	**4.2**	**1.2**	**1.3**	**3.4**	**1.8**	< 0.5	**7.2**	< 0.3
EW-A	12/23/2015	Lower Gaspur	Primary	< 0.5	**1.4**	**35**	**1**	**4.9**	**2**	**2.1**	**3.6**	**2**	< 0.5	**9**	< 0.3
EW-A	12/30/2015	Lower Gaspur	Primary	< 0.5	**1.4**	**31**	**1.1**	**5.5**	**2**	**2**	< 0.3	**2.2**	< 0.5	**8.7**	< 0.3
EW-A	06/10/2016	Lower Gaspur	Primary	< 0.5	**1.4**	**46**	**1.5**	**5.6**	**1.2**	**2.9**	**3**	**3.6**	< 0.5	**13**	< 0.3
EW-A	12/01/2016	Lower Gaspur	Primary	< 0.5	**0.83**	**51**	**2**	**6.8**	**1.8**	**3.4**	**2.9**	**2.2**	< 0.5	**18**	< 0.3
EW-A	06/12/2017	Lower Gaspur	Primary	< 0.5	**0.59**	**44**	**1.4**	**5.2**	**1.4**	**2.7**	**2.2**	**2.3**	< 0.5	**16**	< 0.3
SAIA-MW1A	03/27/2014	Shallow Gaspur	Primary	< 100	**7400 J**	**3300**	< 100	**71 J**	< 100	**21 J**	< 100	< 100	< 100	**1.6 J**	< 100
SAIA-MW1A	08/25/2014	Shallow Gaspur	Primary	**0.42 J**	**4800**	**6900**	**16**	**96 J**	< 360	**17**	< 0.5	**0.29 J**	< 0.5	**1.4**	< 0.5
SAIA-MW1A	07/14/2016	Shallow Gaspur	Primary	< 25	**1500**	**3900**	< 25	**160**	< 25	**22 J**	< 25	< 25	< 25	< 0.5	< 25
SAIA-MW1B	03/27/2014	Intermediate Gaspur	Primary	< 0.5	**17**	**59**	< 0.5	**4.6**	< 0.5	**0.25**	**0.48 J**	< 0.5	< 0.5	**1.9**	< 0.5
SAIA-MW1B	08/25/2014	Intermediate Gaspur	Primary	< 0.5	**4.3**	**51**	< 0.5	**4.6**	< 0.5	**0.19 J**	**0.52**	< 0.5	**0.097 J**	**2.6**	< 0.5
SAIA-MW1B	07/14/2016	Intermediate Gaspur	Primary	< 0.5	**0.84**	**14**	< 0.5	**2**	< 0.5	< 0.5	**0.58**	< 0.5	< 0.5	< 0.5	< 0.5
SAIA-MW1B	07/14/2016	Intermediate Gaspur	Duplicate	< 0.5	**0.82**	**15**	< 0.5	**2.5**	< 0.5	< 0.5	**0.64**	< 0.5	< 0.5	< 0.5	< 0.5
SAIA-MW1C	03/27/2014	Lower Gaspur	Primary	< 4	**420 J**	**370**	< 4	**34**	< 4	**3.9 J**	**35**	< 4	< 4	**18**	< 4
SAIA-MW1C	08/25/2014	Lower Gaspur	Primary	< 0.5	**210**	**560**	**6.5**	**47**	**1.4**	**4.2**	**52**	**3.7**	**0.1 J**	**22**	< 0.5
SAIA-MW1C	07/14/2016	Lower Gaspur	Primary	< 0.5	**4.4**	**350**	**5.3**	**27**	**18**	**2.6**	**33**	**3.2**	< 0.5	**7.3**	< 0.5
SAIA-MW2A	03/27/2014	Shallow Gaspur	Primary	< 10	**1100 J**	**2000**	< 10	**74**	< 10	**4.8 J**	< 10	< 10	< 10	**12**	< 10
SAIA-MW2A	08/25/2014	Shallow Gaspur	Primary	< 0.5	**1300**	**2500**	**7.7**	**110 J**	**5.5**	**7.2**	**0.25 J**	**0.35 J**	< 0.5	**16**	< 0.5
SAIA-MW2A	08/25/2014	Shallow Gaspur	Duplicate	< 0.5	**1300**	**2400**	**7.7**	**120 J**	**5.3**	**7**	< 0.5	**0.35 J**	< 0.5	**15**	< 0.5
SAIA-MW2A	07/11/2016	Shallow Gaspur	Primary	< 2.5	**120**	**1300**	**6.4**	**85**	< 2.5	**5.5**	< 2.5	< 2.5	< 2.5	**5.3**	< 2.5
SAIA-MW2B	03/27/2014	Intermediate Gaspur	Primary	< 0.5	**6.8 J**	**69**	< 0.5	**7.2**	< 0.5	< 0.5	**6.6**	< 0.5	< 0.5	**1.7**	< 0.5
SAIA-MW2B	08/25/2014	Intermediate Gaspur	Primary	< 0.5	**2.8**	**51**	**0.5**	**5.9**	**0.75**	**0.11 J**	**5.1**	**0.2 J**	**0.23 J**	**1.3**	< 0.5
SAIA-MW2B	07/11/2016	Intermediate Gaspur	Primary	< 0.5	**0.57**	**10**	< 0.5	**1.5**	< 0.5	< 0.5	**0.81**	< 0.5	< 0.5	< 0.5	< 0.5
SAIA-MW2C	03/27/2014	Lower Gaspur	Primary	< 2	**260 J**	**360**	**4.7**	**28**	< 2	**3**	**32**	**6.1**	**0.19**	**14**	< 2
SAIA-MW2C	08/25/2014	Lower Gaspur	Primary	< 0.5	**200**	**370**	**5.2**	**33**	**3.3**	**2.8**	**34**	**4.7**	< 0.5	**20**	< 0.5
SAIA-MW2C	07/11/2016	Lower Gaspur	Primary	< 0.5	**4.7**	**270 J**	**3.5 J**	**19 J**	**0.87**	**1.8**	**33**	**2.2**	< 0.5	**15**	< 0.5
SAIA-MW3A	03/24/2014	Shallow Gaspur	Primary	< 0.5	**9.2**	**8.9**	< 0.5	**0.2**	< 0.5	**0.13**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SAIA-MW3A	08/26/2014	Shallow Gaspur	Primary	< 0.5	**3.6**	**5.8**	< 0.5	**0.15 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.46	< 0.5
SAIA-MW3A	07/13/2016	Shallow Gaspur	Primary	< 0.5	**0.29 J**	**1.1**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

TABLE V
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
SAIA-MW3B	03/24/2014	Intermediate Gaspur	Primary	< 25	**6700 J**	**7000**	**18 J**	**120**	< 25	**49**	< 25	< 25	< 25	**110**	< 25
SAIA-MW3B	08/26/2014	Intermediate Gaspur	Primary	< 0.5	**6600**	**9100**	**20**	**230 J**	**47**	**72**	**2.1**	**1.5**	< 0.5	**86**	< 0.5
SAIA-MW3B	07/13/2016	Intermediate Gaspur	Primary	< 25	**3500**	**4600**	< 25	**340**	< 25	**23 J**	< 25	< 25	< 25	**3.9**	< 25
SAIA-MW3C	03/24/2014	Lower Gaspur	Primary	< 0.5	**2.1**	**38**	< 0.5	**2.5**	< 0.5	**0.2**	**1.8**	< 0.5	**0.23**	**1.5**	< 0.5
SAIA-MW3C	03/24/2014	Lower Gaspur	Duplicate	< 0.5	**2**	**37**	< 0.5	**2.5**	< 0.5	**0.2**	**1.6**	< 0.5	**0.25**	**1.6**	< 0.5
SAIA-MW3C	08/26/2014	Lower Gaspur	Primary	< 0.5	**6**	**27**	< 0.5	**2.6**	**6.1**	**0.25 J**	**2.1**	**0.085 J**	**0.27 J**	< 0.46	< 0.5
SAIA-MW3C	07/13/2016	Lower Gaspur	Primary	< 0.5	**5.7**	**49**	< 0.5	**5.4**	< 0.5	**0.51**	**2.8**	< 0.5	< 0.5	**6.1**	< 0.5
SAIA-MW4A	03/25/2014	Shallow Gaspur	Primary	< 0.5	**0.53**	**4.7**	< 0.5	**0.19**	< 0.5	**0.32**	< 0.5	< 0.5	< 0.5	**1.6**	< 0.5
SAIA-MW4A	08/26/2014	Shallow Gaspur	Primary	< 0.5	**0.19 J**	**0.72**	< 0.5	< 0.5	< 0.5	**0.34 J**	< 0.5	< 0.5	< 0.5	**1.8**	< 0.5
SAIA-MW4A	07/22/2016	Shallow Gaspur	Primary	< 0.5	< 0.5	**0.16 J**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SAIA-MW4B	03/25/2014	Intermediate Gaspur	Primary	< 25	**790**	**4200**	< 25	**130**	< 25	**15 J**	< 25	< 25	< 25	**58**	< 25
SAIA-MW4B	08/26/2014	Intermediate Gaspur	Primary	< 0.5	**150 J**	**4800**	**6.6**	**180 J**	**6.5**	**18**	**0.72**	**0.55**	< 0.5	**60**	< 0.5
SAIA-MW4B	08/26/2014	Intermediate Gaspur	Duplicate	< 0.5	**150 J**	**4800**	**6.6**	**180 J**	**6.5**	**18**	**0.69**	**0.55**	< 0.5	**59**	< 0.5
SAIA-MW4B	07/22/2016	Intermediate Gaspur	Primary	< 10	**6.6 J**	**4200**	< 10	**210**	< 10	**16**	< 10	< 10	< 10	**62 J**	< 10
SAIA-MW4C	03/25/2014	Lower Gaspur	Primary	< 10	**3.9 J**	**910**	< 10	**53**	< 10	**3.6 J**	< 10	< 10	< 10	**14**	< 10
SAIA-MW4C	08/26/2014	Lower Gaspur	Primary	< 0.5	**3.4**	**910**	**1.3**	**73**	**11**	**4.1**	**2.1**	**0.19 J**	**0.3 J**	**11**	< 0.5
SAIA-MW4C	07/22/2016	Lower Gaspur	Primary	< 2.5	**2.7**	**870**	< 2.5	**120**	**45**	**5.9**	**2 J**	< 2.5	< 2.5	**7.7**	< 2.5
SAIA-MW5A	03/25/2014	Shallow Gaspur	Primary	< 5	**1.8 J**	**530**	< 5	**21**	< 5	< 5	< 5	< 5	< 5	**2.4**	< 5
SAIA-MW5A	08/27/2014	Shallow Gaspur	Primary	< 0.5	**1.9**	**520**	**0.89**	**24 J**	**0.72**	**0.42 J**	< 0.5	< 0.5	< 0.5	**2.3**	< 0.5
SAIA-MW5A	07/20/2016	Shallow Gaspur	Primary	< 0.5	**1.3**	**210**	< 0.5	**19**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1**	< 0.5
SAIA-MW5A	07/20/2016	Shallow Gaspur	Duplicate	< 0.5	**1.2**	**220**	**0.66**	**17**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.3**	< 0.5
SAIA-MW5B	03/25/2014	Intermediate Gaspur	Primary	< 25	**380**	**3100**	< 25	**98**	< 25	< 25	< 25	< 25	< 25	**16**	< 25
SAIA-MW5B	08/27/2014	Intermediate Gaspur	Primary	< 0.5	**99 J**	**3600**	**5.5**	**120 J**	**4.5**	**9.5**	**0.52**	**0.36 J**	< 0.5	**23**	< 0.5
SAIA-MW5B	07/21/2016	Intermediate Gaspur	Primary	< 2.5	**3**	**2100**	< 2.5	**79**	**20**	**6.5**	< 2.5	< 2.5	< 2.5	**30 J**	< 2.5
SAIA-MW5C	03/25/2014	Lower Gaspur	Primary	< 4	**6.5**	**300**	< 4	**21**	< 4	< 4	**2 J**	< 4	< 4	**3.4**	< 4
SAIA-MW5C	08/27/2014	Lower Gaspur	Primary	< 0.5	**4.8**	**320**	**0.8**	**25**	< 0.5	**0.64**	**1.9**	**0.18 J**	**0.26 J**	**3.2**	< 0.5
SAIA-MW5C	07/21/2016	Lower Gaspur	Primary	< 0.5	**1.6**	**95**	< 0.5	**11**	< 0.5	< 0.5	**1.6**	< 0.5	< 0.5	**2.4**	< 0.5
SAIA-MW6A	03/24/2014	Shallow Gaspur	Primary	< 0.5	**0.087**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.52**	< 0.5
SAIA-MW6A	08/27/2014	Shallow Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.53**	< 0.5
SAIA-MW6A	07/20/2016	Shallow Gaspur	Primary	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SAIA-MW6B	03/24/2014	Intermediate Gaspur	Primary	< 0.5	**3.7**	**13**	< 0.5	**3.9**	< 0.5	< 0.5	**0.12**	< 0.5	< 0.5	< 0.5	< 0.5
SAIA-MW6B	08/27/2014	Intermediate Gaspur	Primary	< 0.5	**3.6**	**14**	< 0.5	**5.1**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.26 J**	< 0.5
SAIA-MW6B	07/20/2016	Intermediate Gaspur	Primary	< 0.5	**2.7**	**14**	< 0.5	**3.7**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SAIA-MW6C	03/24/2014	Lower Gaspur	Primary	< 0.5	**2**	**17**	< 0.5	**2.3**	< 0.5	< 0.5	**0.2**	< 0.5	< 0.5	**0.52**	< 0.5
SAIA-MW6C	08/27/2014	Lower Gaspur	Primary	< 0.5	**2.4**	**21**	< 0.5	**2.8**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**0.52**	< 0.5
SAIA-MW6C	07/20/2016	Lower Gaspur	Primary	< 0.5	**2**	**17**	< 0.5	**2.9**	**1.2**	< 0.5	**0.31 J**	< 0.5	< 0.5	< 0.5	< 0.5
SAIA-MW7	03/27/2014	Exposition	Primary	< 0.5	**24 J**	**16**	< 0.5	**1.1**	< 0.5	**0.3**	**0.96**	< 0.5	< 0.5	**1.9**	< 0.5
SAIA-MW7	03/27/2014	Exposition	Duplicate	< 0.5	**22 J**	**17**	< 0.5	**1.1**	< 0.5	**0.37**	**1.1**	< 0.5	< 0.5	**2**	< 0.5
SAIA-MW7	08/25/2014	Exposition	Primary	< 0.5	**22**	**57**	**0.65**	**2.5**	**1.3**	**0.67**	**1.6**	**0.14 J**	< 0.5	**3.6**	< 0.5
SAIA-MW7	07/11/2016	Exposition	Primary	< 0.5	**19**	**73**	< 0.5	**4.8**	< 0.5	**0.84**	**2.9**	< 0.5	< 0.5	**7.9**	< 0.5

TABLE V
ANALYTICAL RESULTS FOR CHEMICALS OF CONCERN IN GROUNDWATER SAMPLES
COOPER DRUM COMPANY SUPERFUND SITE
SOUTH GATE, CALIFORNIA

Well ID	Sample Date	Aquifer	Sample Type	PCE µg/L	TCE µg/L	cDCE µg/L	1,1-DCE µg/L	tDCE µg/L	VC µg/L	1,1-DCA µg/L	1,2-DCA µg/L	Benzene µg/L	1,2-DCP µg/L	1,4-Dioxane µg/L	1,2,3-TCP µg/L
SAIA-MW8	03/24/2014	Exposition	Primary	< 0.5	**0.53**	**0.83**	< 0.5	**0.08**	< 0.5	< 0.5	**0.18**	< 0.5	< 0.5	< 0.5	< 0.5
SAIA-MW8	08/25/2014	Exposition	Primary	< 0.5	**3.9**	**1.9**	< 0.5	**0.2 J**	< 0.5	< 0.5	**0.62**	< 0.5	< 0.5	**0.16 J**	< 0.5
SAIA-MW8	07/21/2016	Exposition	Primary	< 0.5	**1.3**	**2.2**	< 0.5	**0.31 J**	< 0.5	< 0.5	**0.78**	< 0.5	< 0.5	< 0.5	< 0.5

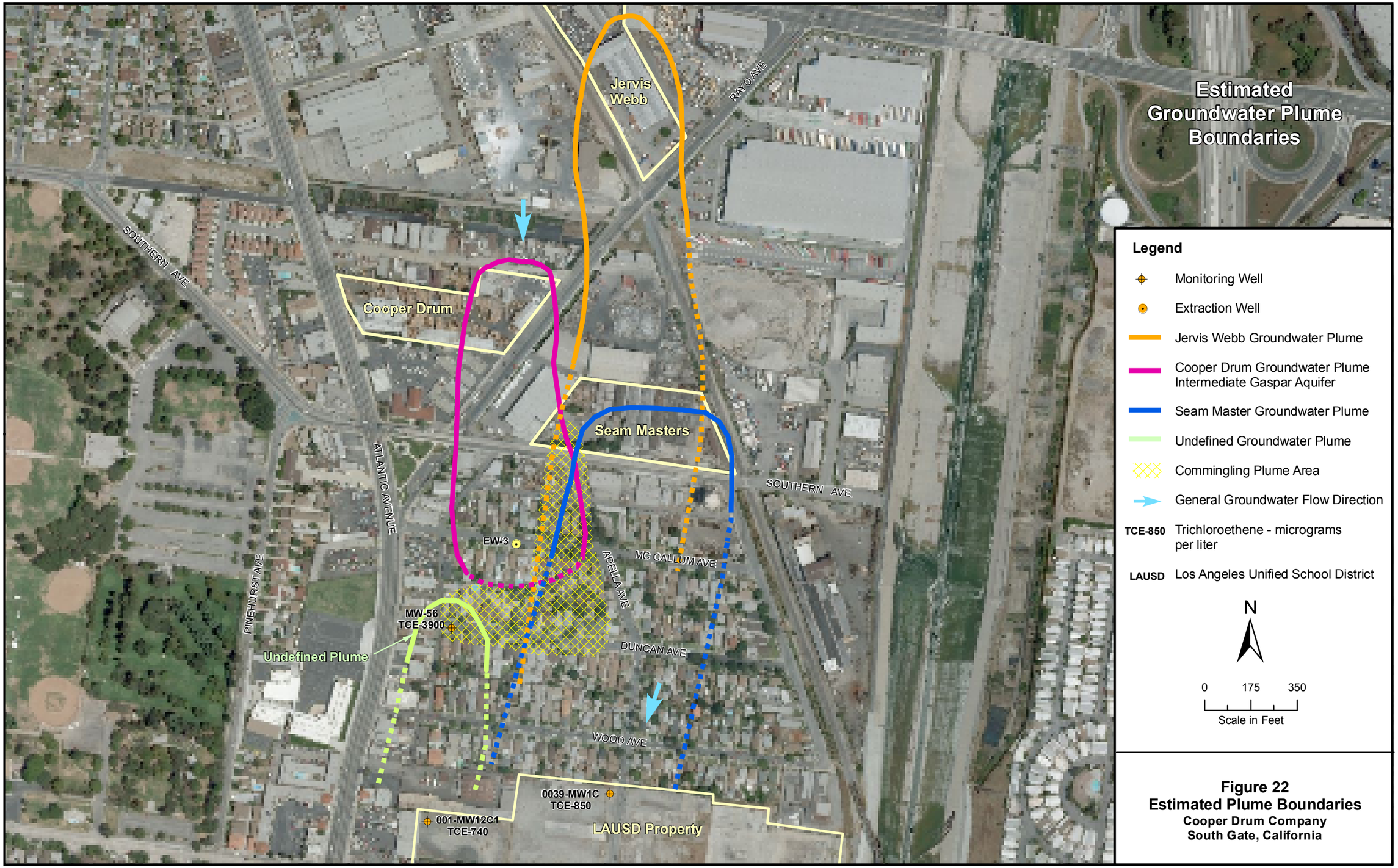
Notes:
1. Results reported in micrograms per liter (µg/L).
2. Samples collected 2010-2012 were reported by AMEC. Analytical results and associated data qualifiers for samples collected prior to 2010 were reported by others.
3. Detected concentrations are shown in **BOLD** font.
4. Estimated and dilution values are shown for April 2005 sampling results.
5. "Split" groundwater samples collected by United States Environmental Protection Agency (U.S. EPA).

Abbreviations:
< = Not detected at or above laboratory reporting limit shown
B = Analyte found in associated method blank as well as in sample
D = Detection associated with sample dilution
DJ = Estimated value; Detection associated with sample dilution
E = Concentration exceeds upper level of instrument calibration range
EJ = Estimated value; concentration exceeds upper level of instrument calibration range
J = Estimated value
NA = Not analyzed
UJ = Estimated value; value is below detection limit
R = Rejected - R qualifiers added during validation indicate a data limitation related to a quality control element that exceeds required acceptance limits.

PCE = Tetrachloroethene
TCE = Trichloroethene
cDCE = cis-1,2-Dichloroethene
1,1-DCE = 1,1-Dichloroethene
tDCE = trans-1,2-Dichloroethene
VC = Vinyl Chloride
1,1-DCA = 1,1-Dichloroethane
1,2-DCA = 1,2-Dichloroethane
1,2-DCP = 1,2-Dichloropropane
1,2,3-TCP = 1,2,3-Trichloropropane

Appendix A-5

Cooper Drum Site Vicinity, Estimated Plume Boundaries (ITSI, 2010)



L:\GIS\Projects\CooperDrumArcMaps\Plumes_all_sites_fig.mxd VRL 12/11/09 SAC

Figure 22
Estimated Plume Boundaries
Cooper Drum Company
South Gate, California

APPENDIX B

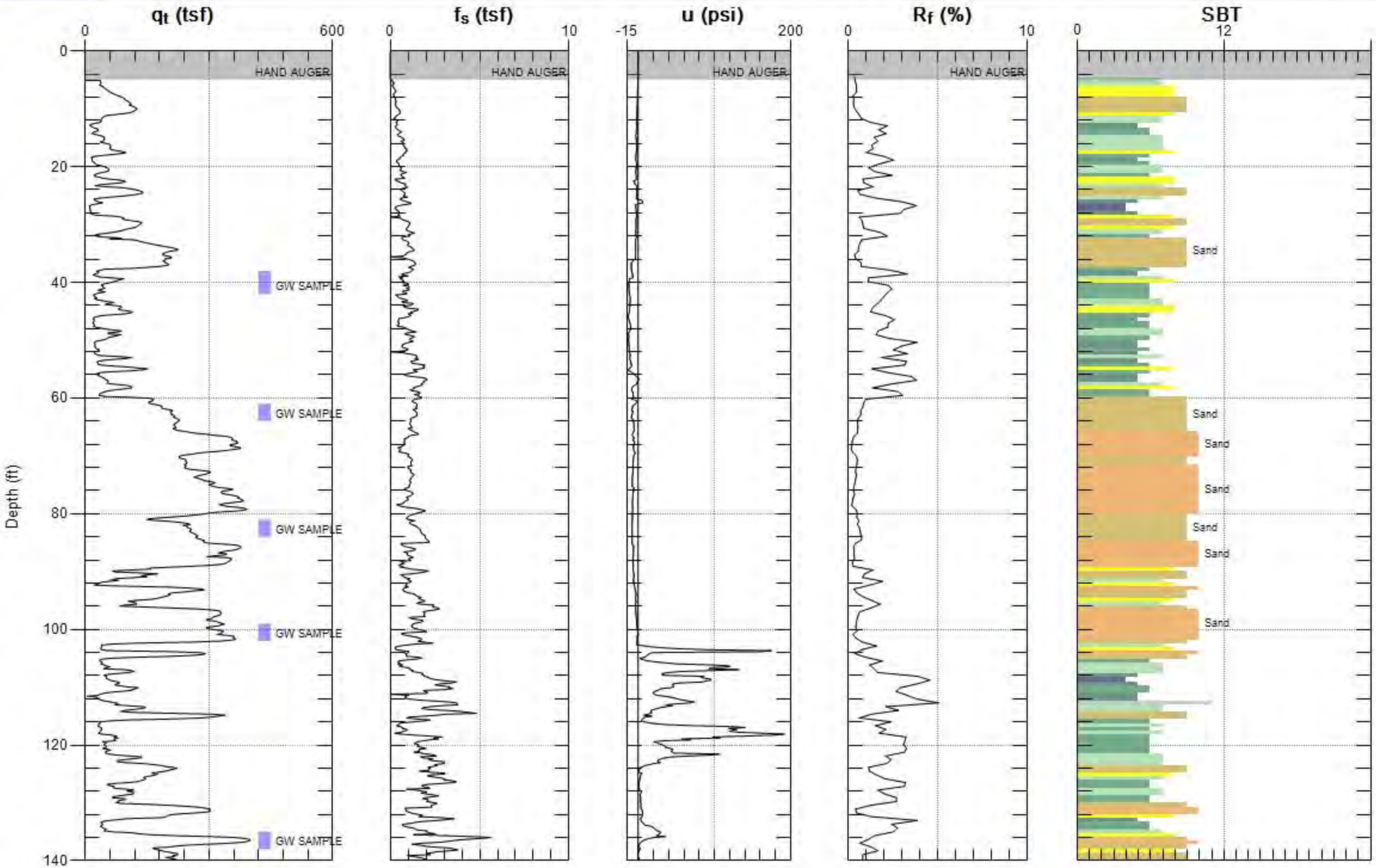
CPT, Boring, and Well Installation Logs

GREGG

ITSI

Site: SOUTHERN AVE.
Sounding: CPT-03

Engineer: D.GRUBER
Date: 3/13/2013 07:32



Max. Depth: 140.584 (ft)
Avg. Interval: 0.656 (ft)

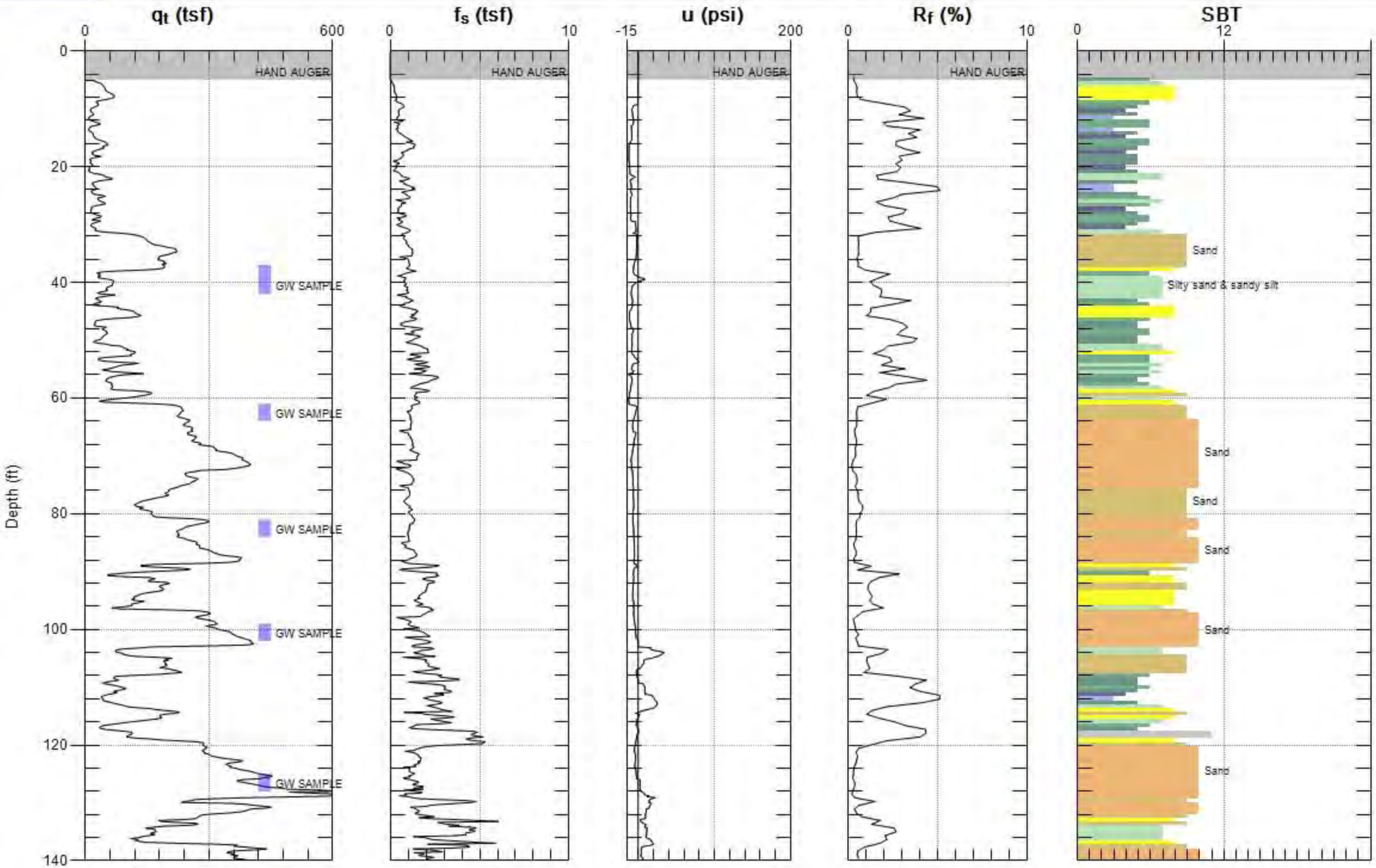
SBT: Soil Behavior Type (Robertson 1990)

GREGG

ITSI

Site: SOUTHERN AVE.
Sounding: CPT-04

Engineer: D.GRUBER
Date: 3/14/2013 07:33



Max. Depth: 140.256 (ft)
Avg. Interval: 0.656 (ft)

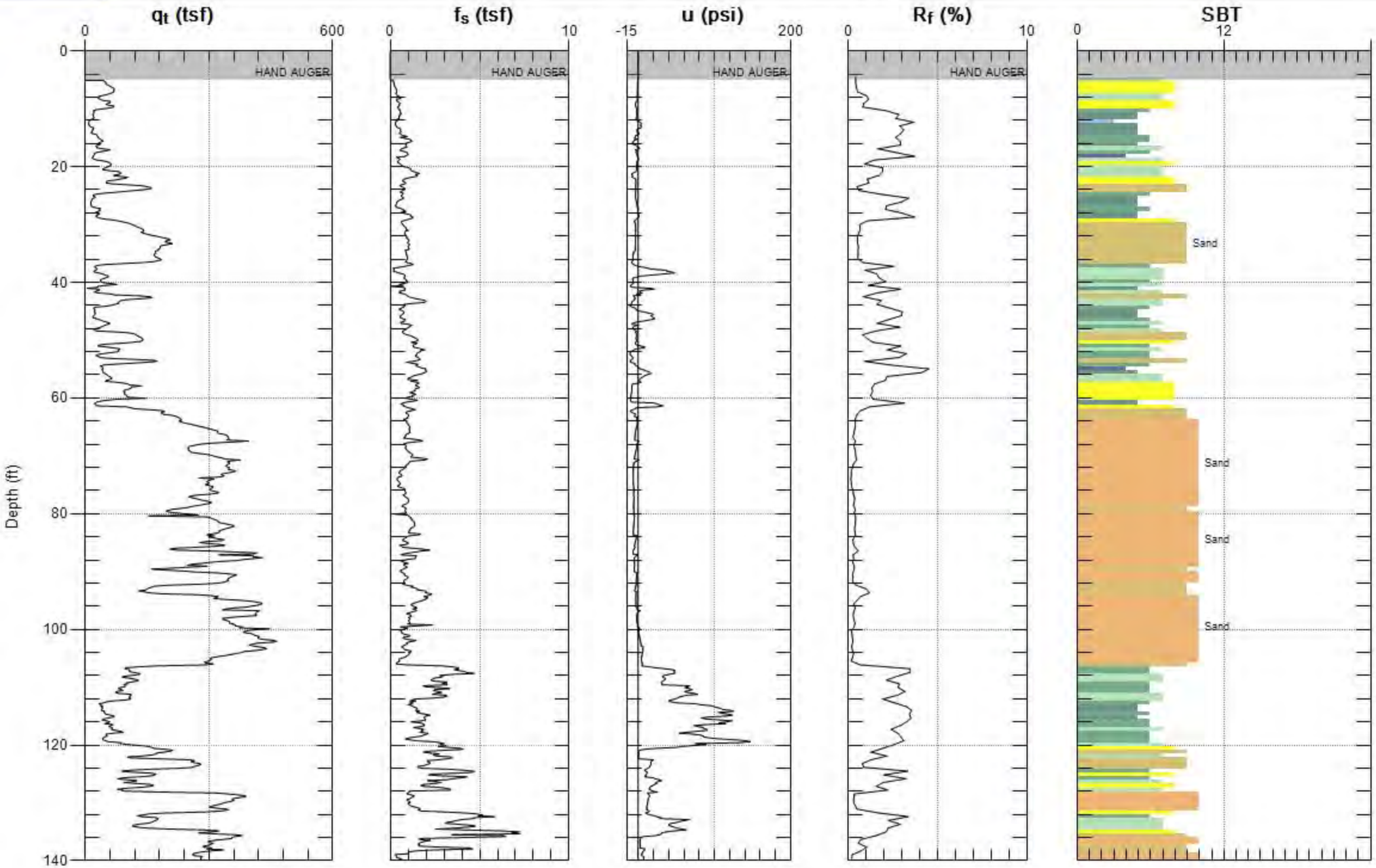
SBT: Soil Behavior Type (Robertson 1990)

GREGG

ITSI

Site: SOUTHERN AVE.
Sounding: CPT-5

Engineer: D.GRUBER
Date: 3/4/2013 10:10



Max. Depth: 140.420 (ft)
Avg. Interval: 0.656 (ft)

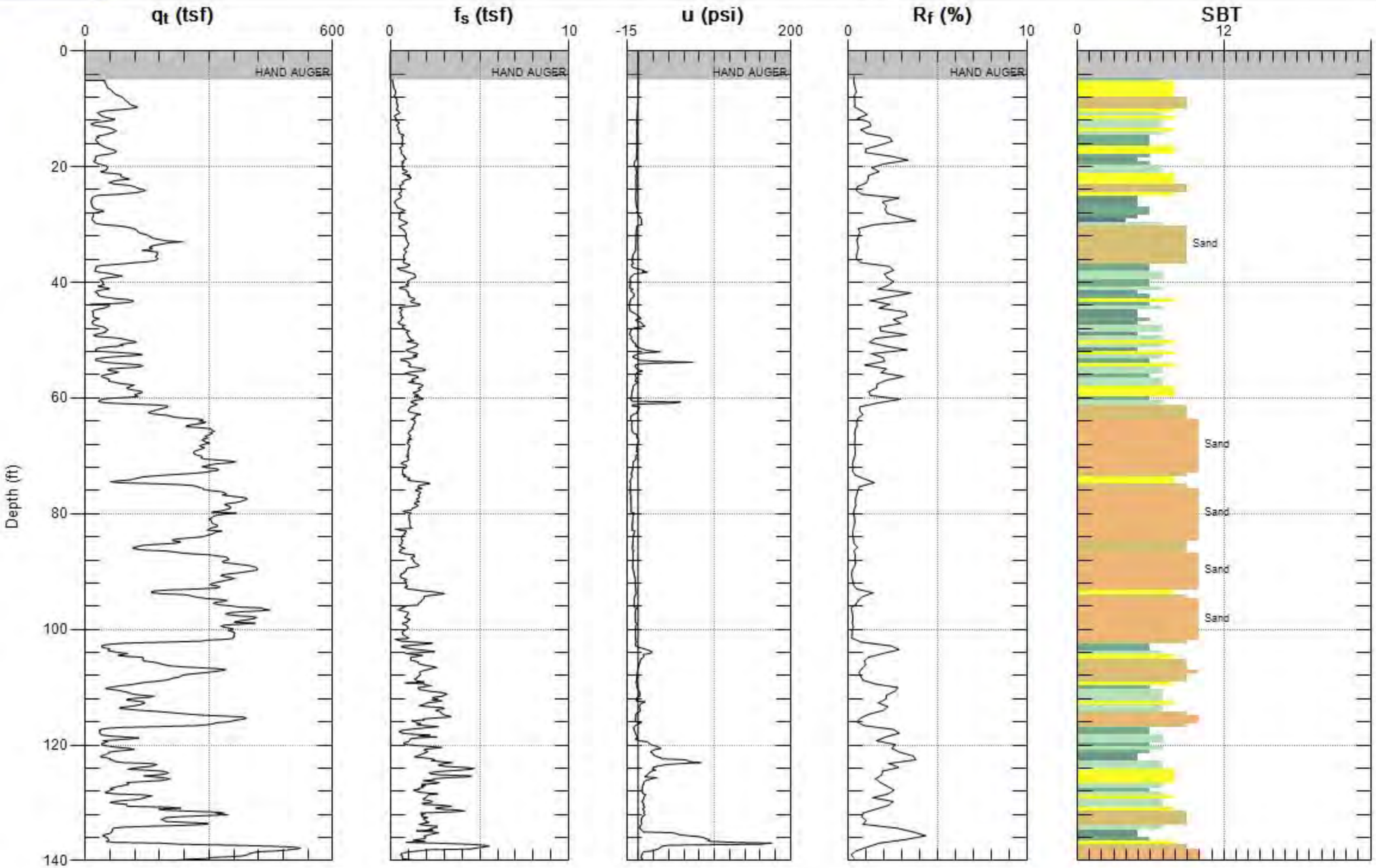
SBT: Soil Behavior Type (Robertson 1990)

GREGG

ITSI

Site: SOUTHERN AVE.
Sounding: CPT-6

Engineer: D.GRUBER
Date: 3/7/2013 01:52



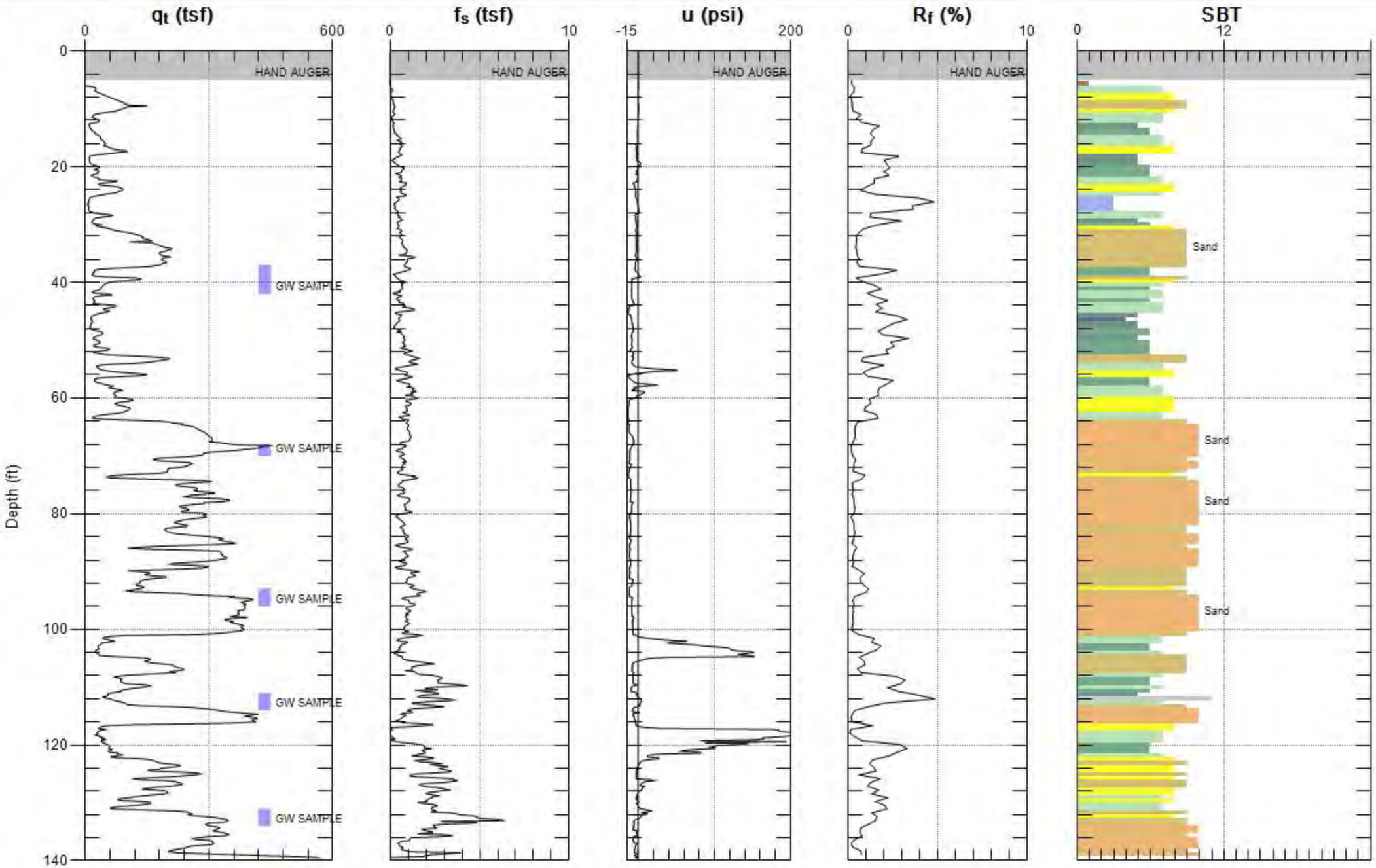
Max. Depth: 140.420 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

ITSI

Site: SOUTHERN AVE.
Sounding: CPT-7
Engineer: D.GRUBER
Date: 2/25/2013 12:06



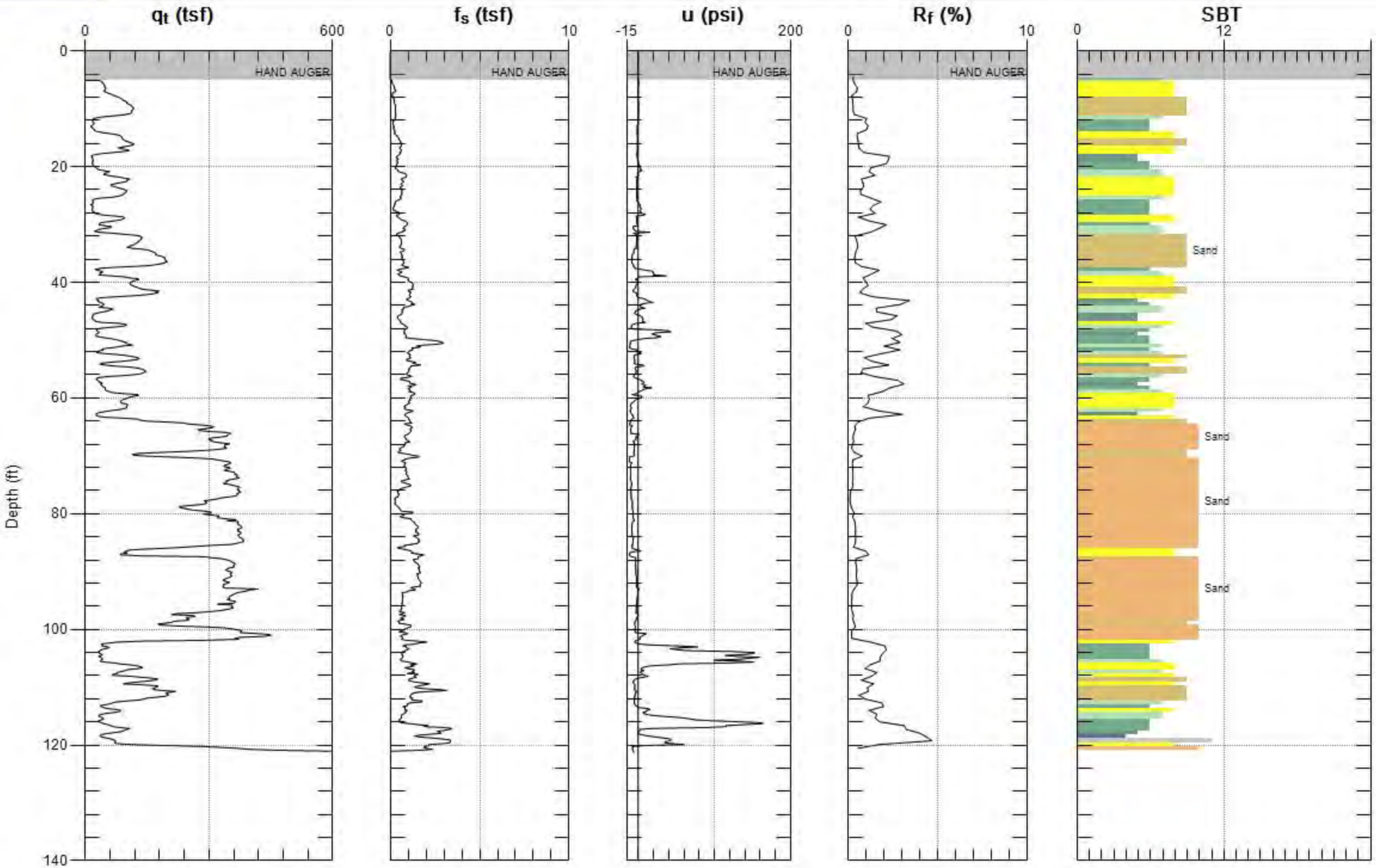
Max. Depth: 139.600 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG **ITSI**

Site: SOUTHERN AVE. **Engineer: D.GRUBER**

Sounding: CPT-8 **Date: 3/6/2013 02:34**



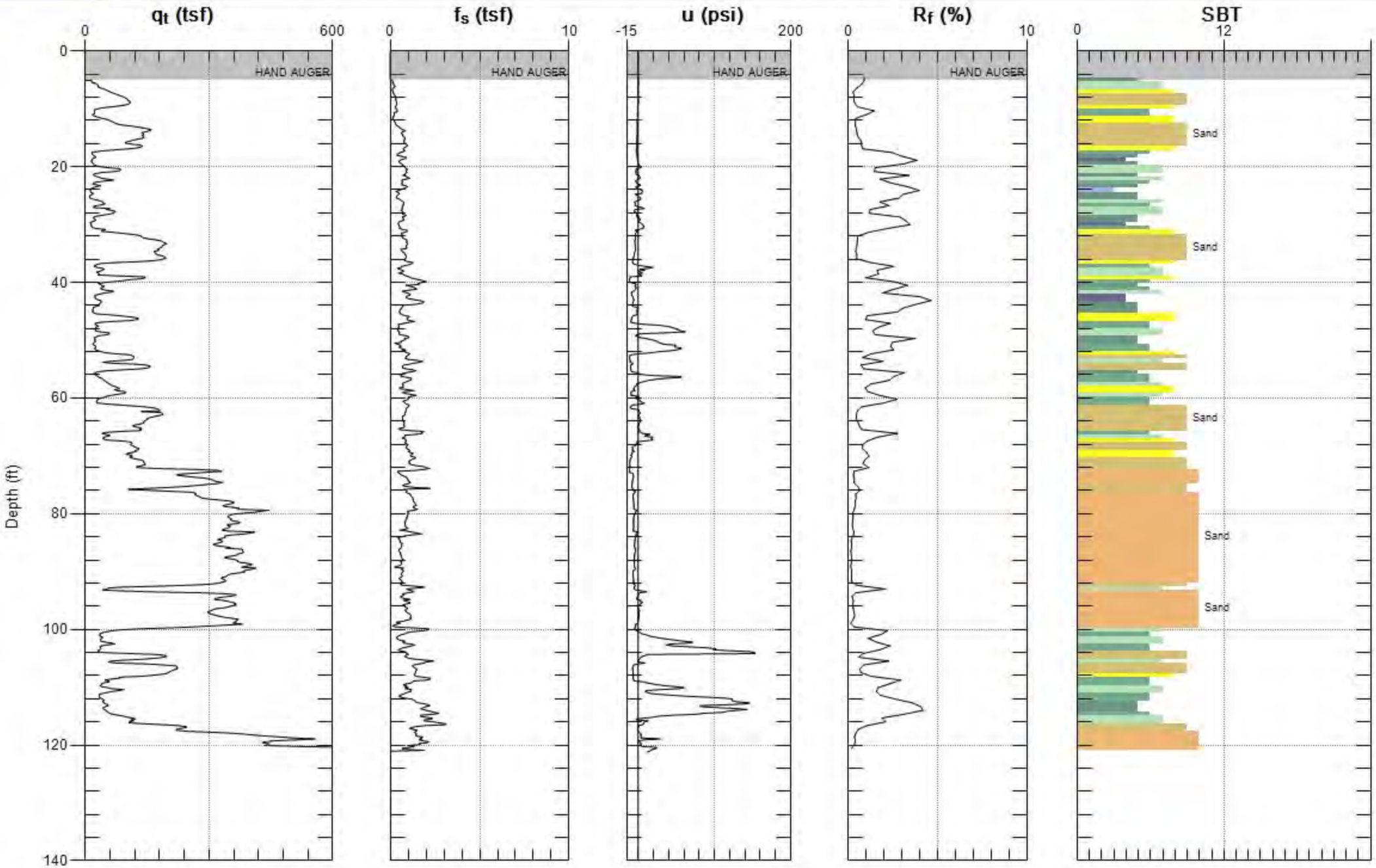
Max. Depth: 121.227 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG **ITSI**

Site: SOUTHERN AVE. **Engineer: D.GRUBER**

Sounding: CPT-9 **Date: 3/5/2013 01:52**



Max. Depth: 121.227 (ft)
Avg. Interval: 0.656 (ft)

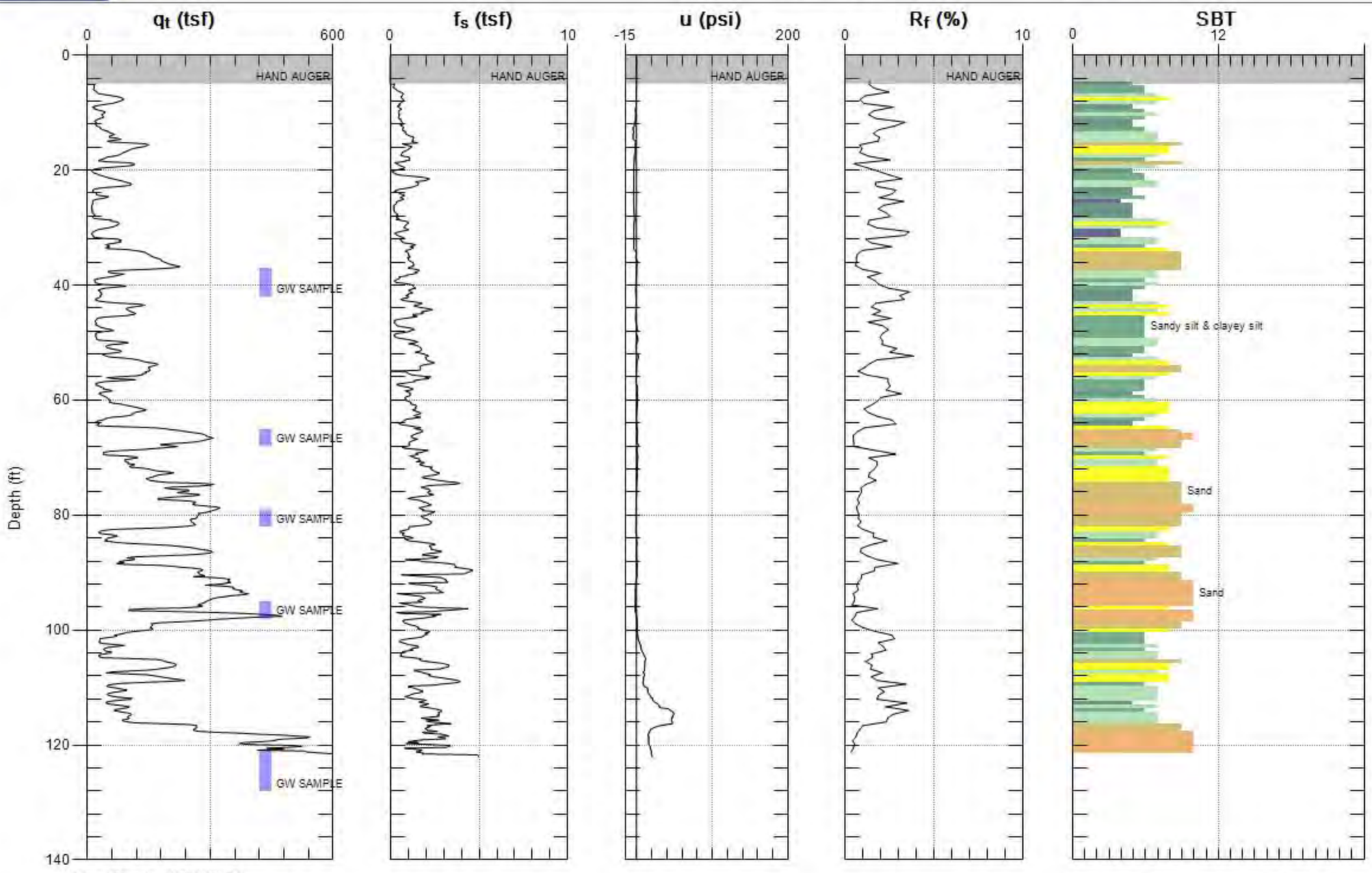
SBT: Soil Behavior Type (Robertson 1990)

GREGG

ITSI

Site: SOUTHERN AVE.
Sounding: CPT-13

Engineer: D.GRUBER
Date: 3/15/2013 07:56



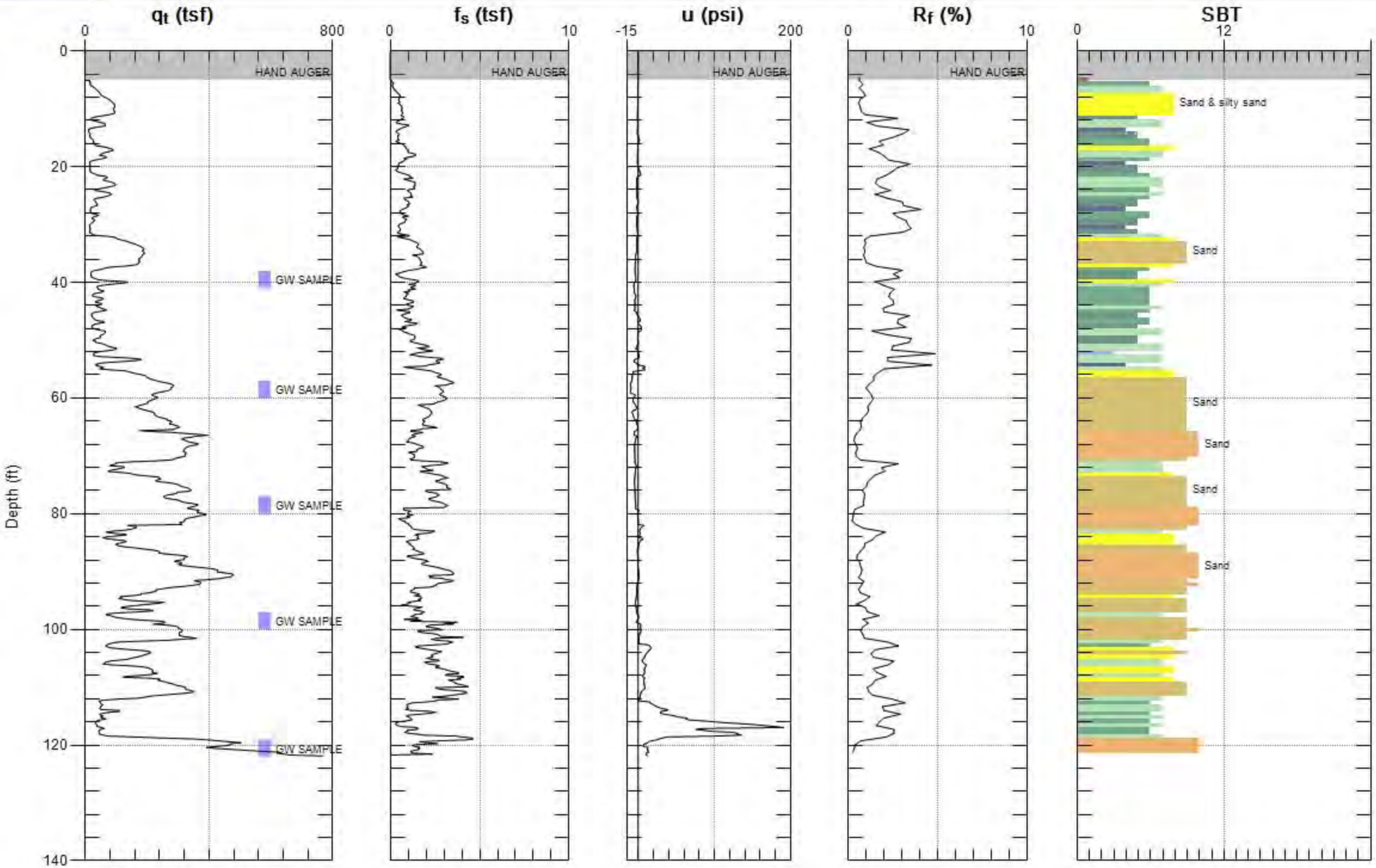
Max. Depth: 122.047 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

ITSI

Site: SOUTHERN AVE.
Sounding: CPT-10
Engineer: D.GRUBER
Date: 3/21/2013 07:43



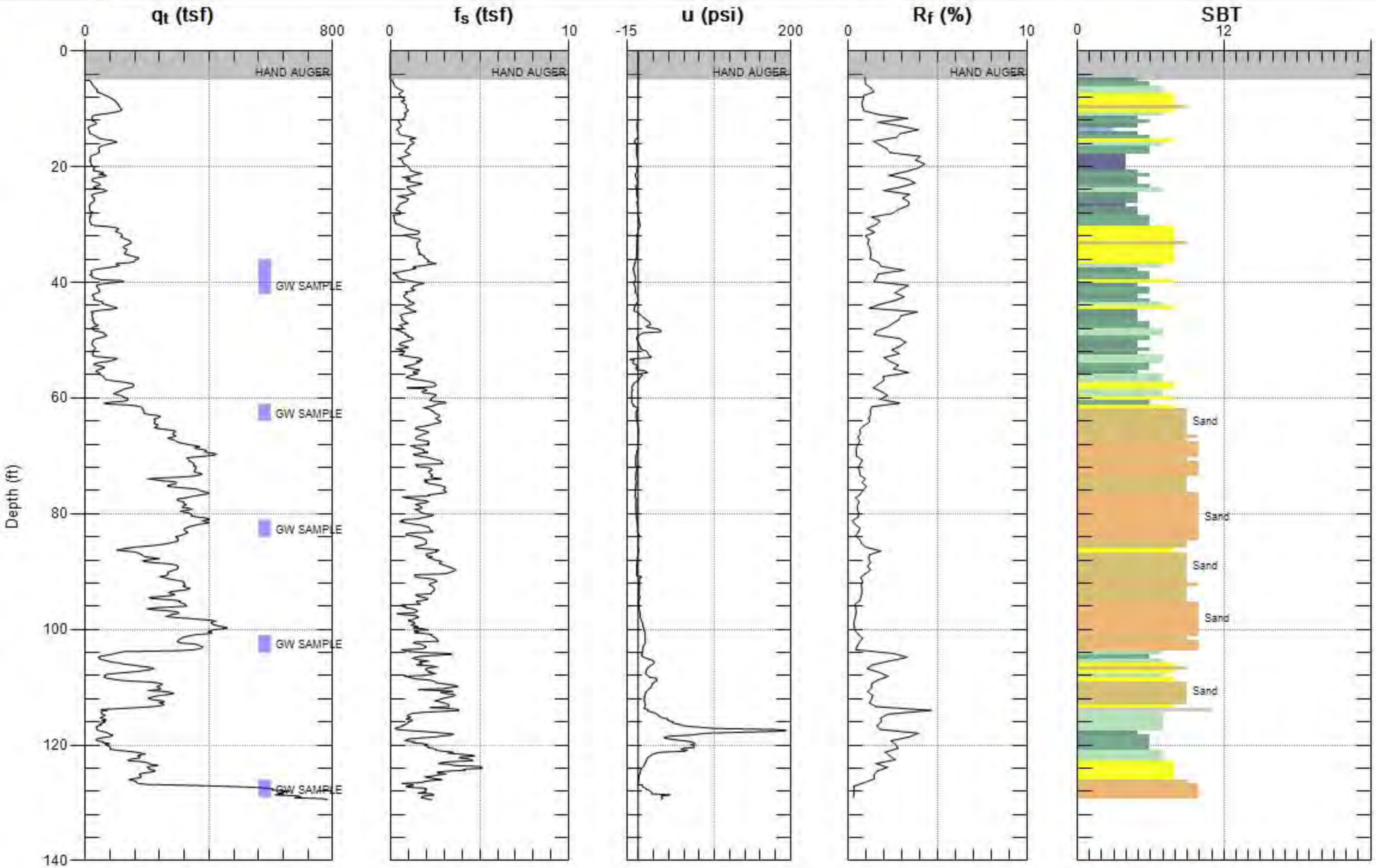
Max. Depth: 121.883 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

ITSI

Site: SOUTHERN AVE.
Engineer: D.GRUBER
Sounding: CPT-11
Date: 3/20/2013 08:21



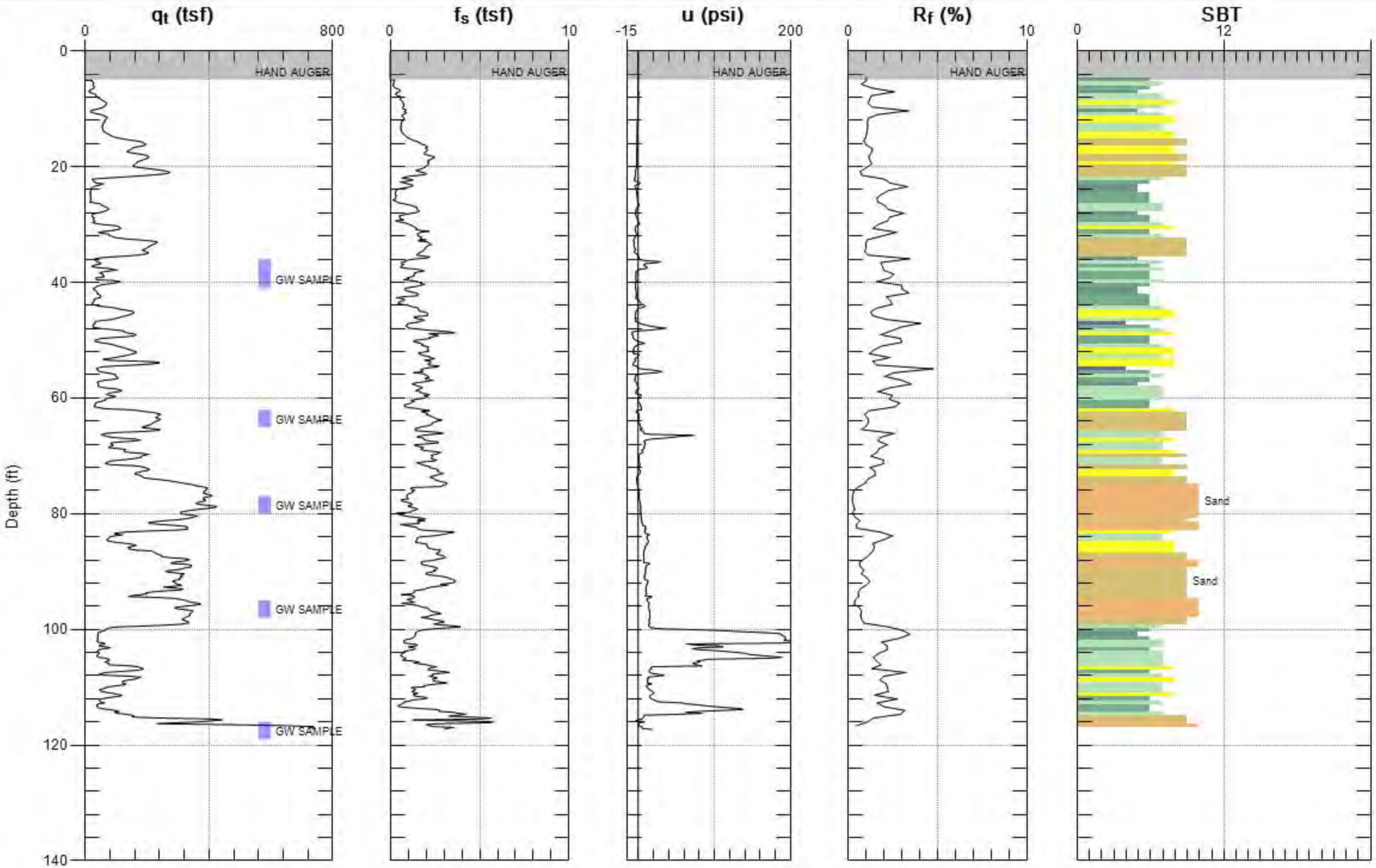
Max. Depth: 129.429 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

ITSI

Site: SOUTHERN AVE.
Engineer: D.GRUBER
Sounding: CPT-12
Date: 3/19/2013 07:49



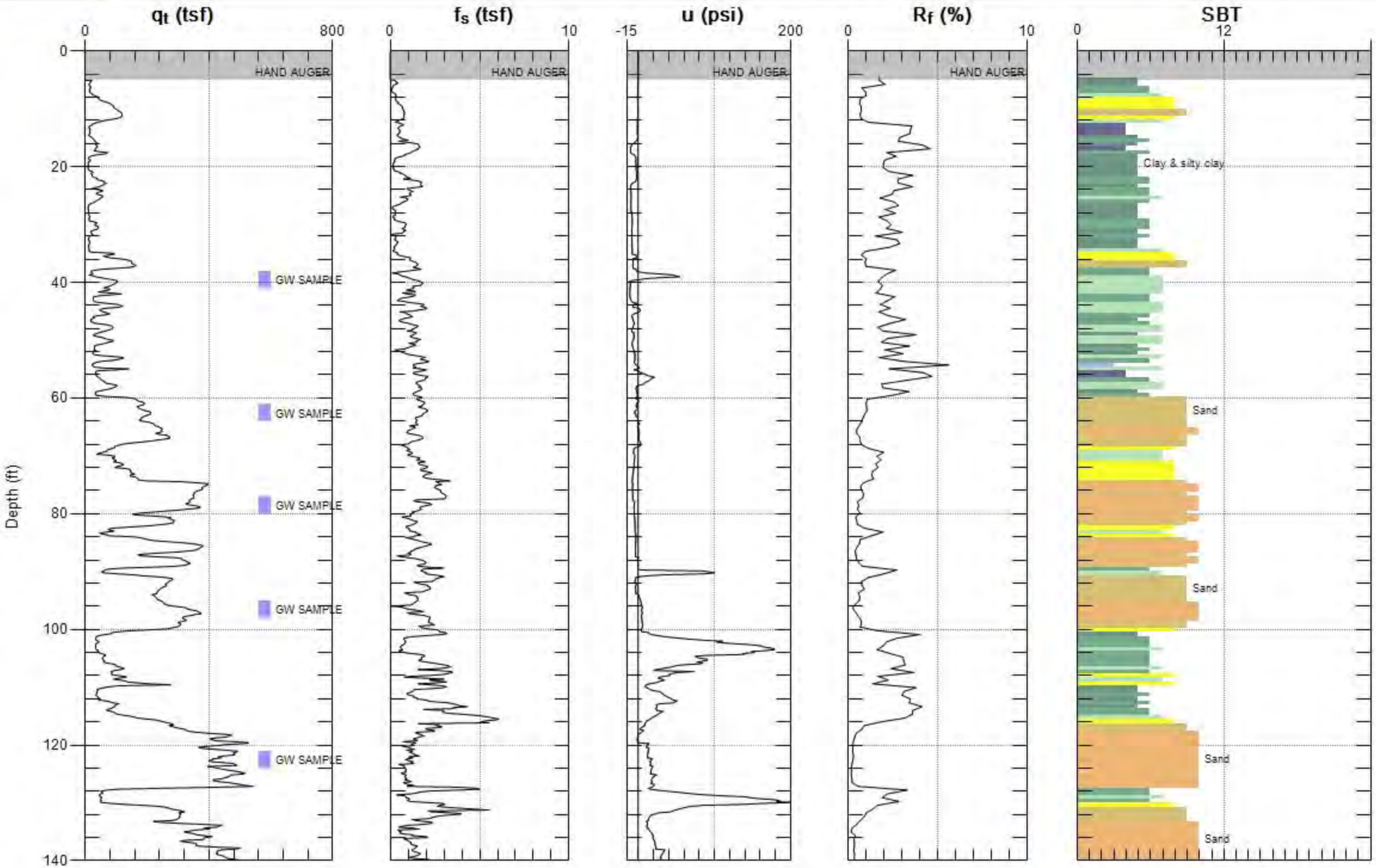
Max. Depth: 117.290 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG **ITSI**

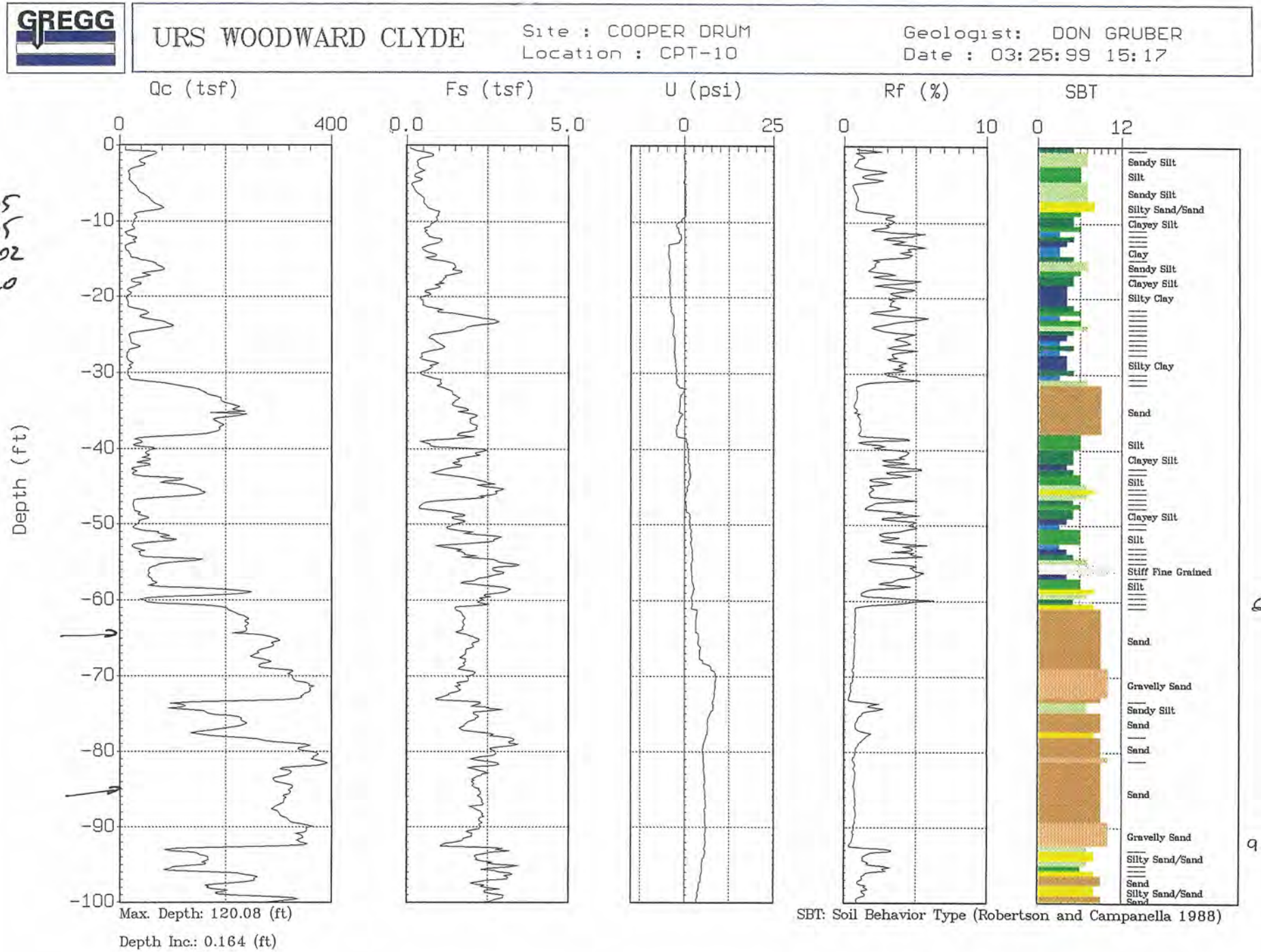
Site: SOUTHERN AVE. **Engineer: D.GRUBER**

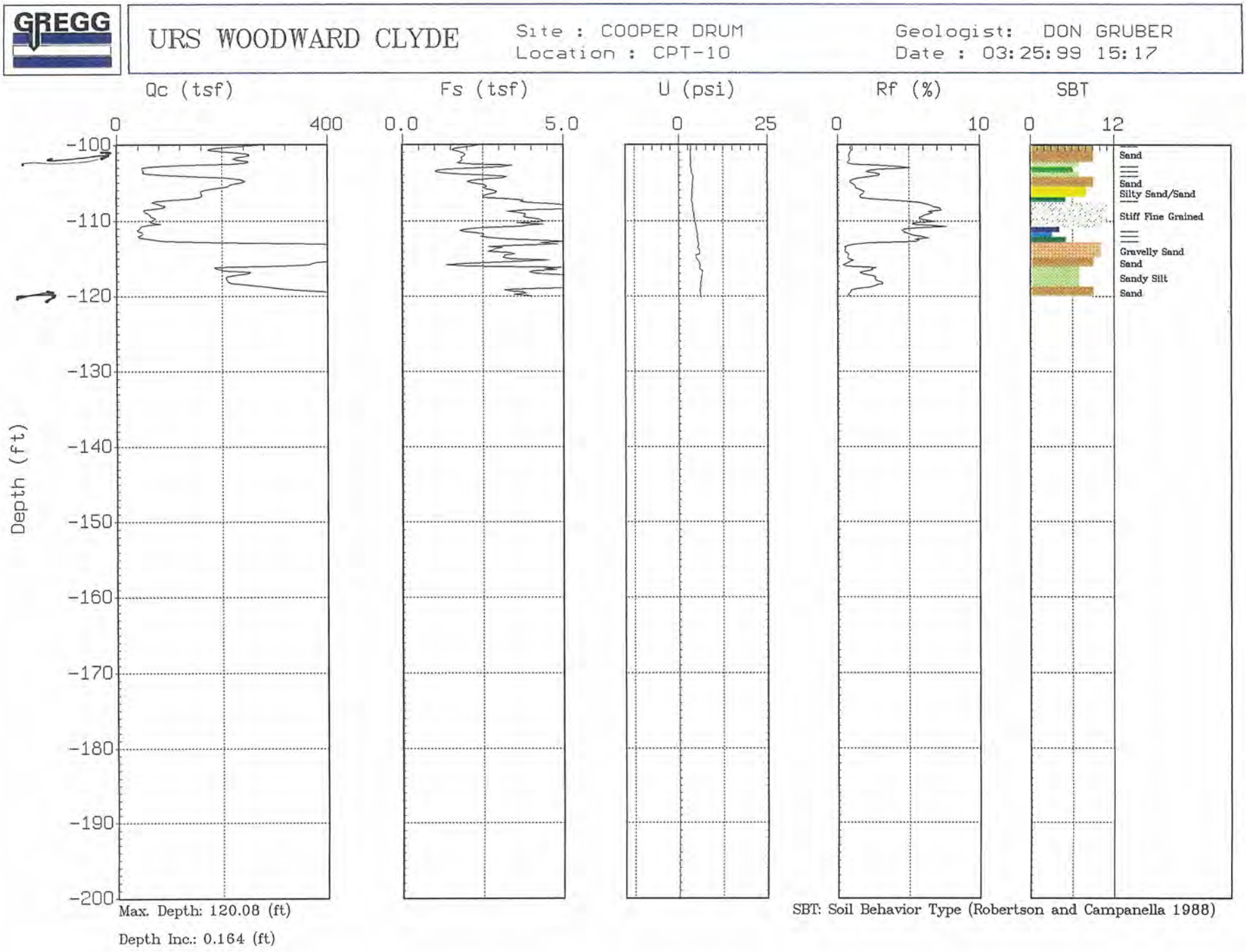
Sounding: CPT-2 **Date: 3/22/2013 08:22**



Max. Depth: 140.584 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)


GREGG
URS WOODWARD CLYDE
Site : COOPER DRUM
Location : CPT-10
Geologist: DON GRUBER
Date : 03:25:99 15:17
Qc (tsf)
Fs (tsf)
U (psi)
Rf (%)
SBT
0
400
0.0
5.0
0
25
0
10
0
12
Depth (ft)
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
65
85
102
120
61
93
Sandy Silt
Silt
Sandy Silt
Silty Sand/Sand
Clayey Silt
Clay
Sandy Silt
Clayey Silt
Silty Clay
Silty Clay
Sand
Silt
Clayey Silt
Silt
Clayey Silt
Silt
Stiff Fine Grained
Silt
Sand
Gravelly Sand
Sandy Silt
Sand
Sand
Sand
Gravelly Sand
Silty Sand/Sand
Sand
Silty Sand/Sand
Max. Depth: 120.08 (ft)
Depth Inc.: 0.164 (ft)
SBT: Soil Behavior Type (Robertson and Campanella 1988)

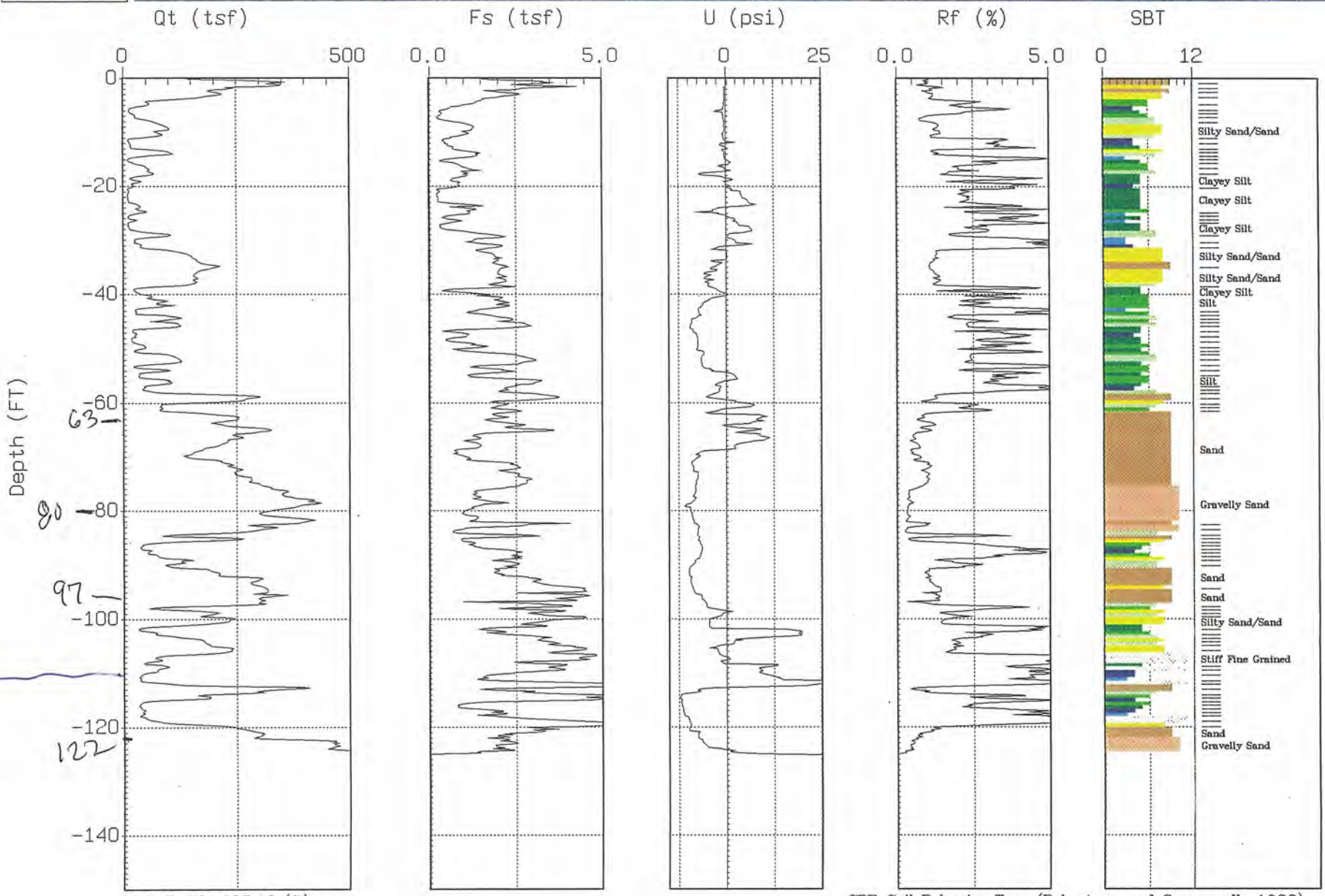

GREGG
URS WOODWARD CLYDE
Site : COOPER DRUM
Location : CPT-10
Geologist: DON GRUBER
Date : 03:25:99 15:17
Qc (tsf)
0
400
Fs (tsf)
0.0
5.0
U (psi)
0
25
Rf (%)
0
10
SBT
0
12
Depth (ft)
-100
-110
-120
-130
-140
-150
-160
-170
-180
-190
-200
Sand
Sand
Silty Sand/Sand
Stiff Fine Grained
Gravelly Sand
Sand
Sandy Silt
Sand
Max. Depth: 120.08 (ft)
Depth Inc.: 0.164 (ft)
SBT: Soil Behavior Type (Robertson and Campanella 1988)

GREGG

URS GREINER

Site : COOPER DRUM
Location : CPT-17

Geologist DON GRUBER
Date : 10:05:100 08:58



Max. Depth: 125.16 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson and Campanella 1988)

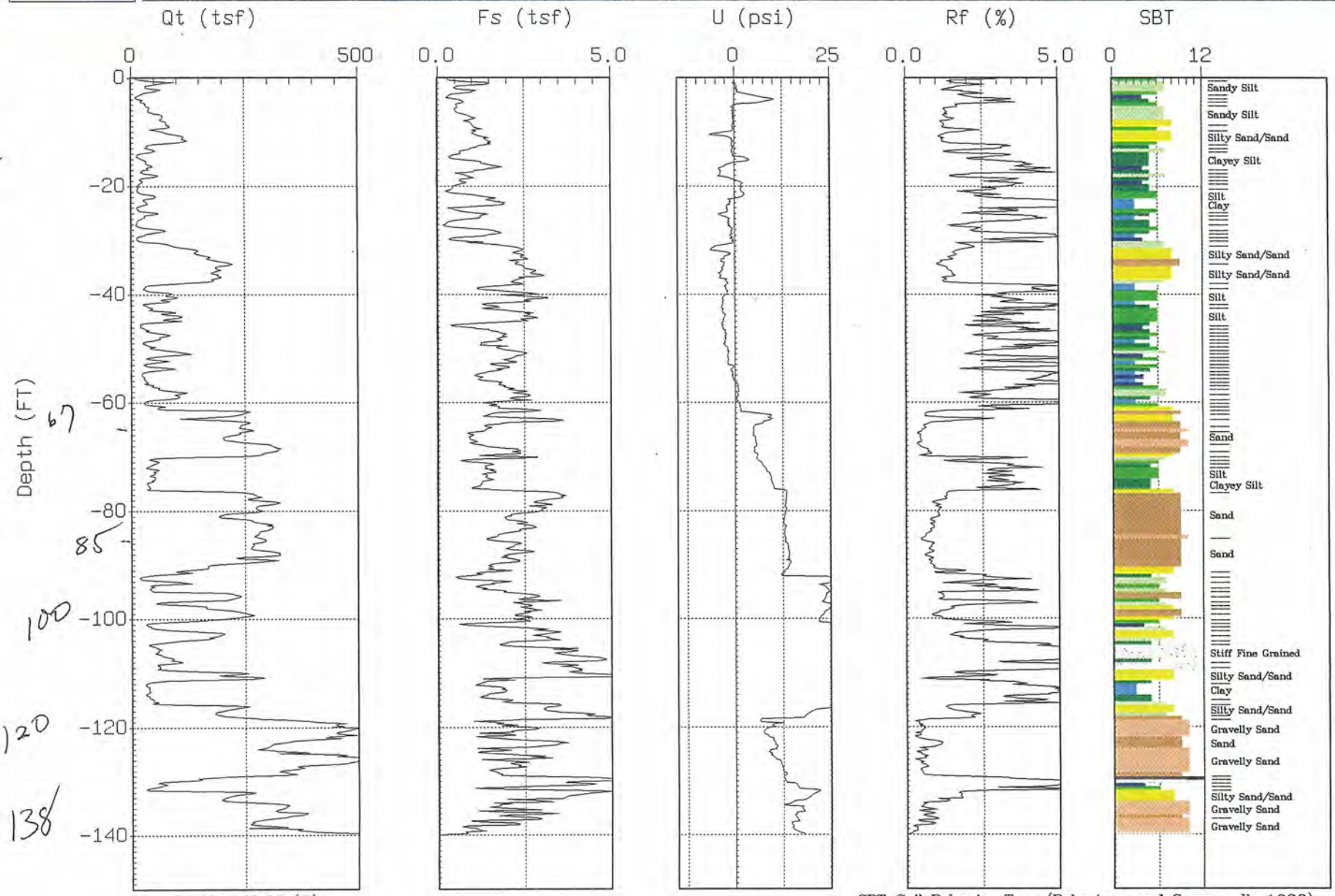
DRAFT

GREGG

URS GREINER

Site : COOPER DRUM
Location : CPT-18

Geologist DON GRUBER
Date : 10:05:100 14:15



Max. Depth: 140.09 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson and Campanella 1988)

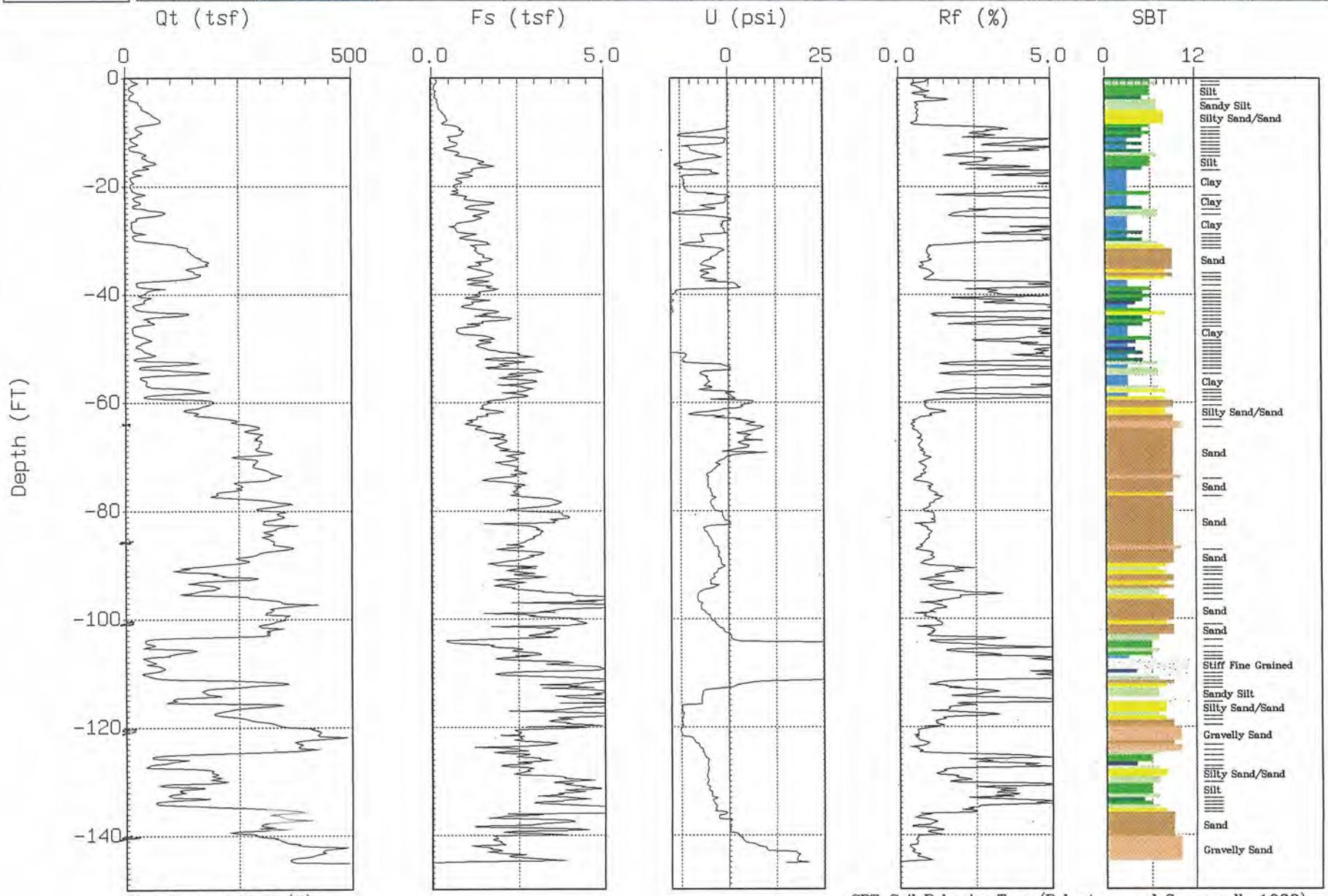
DRAFT

GREGG

URS GREINER

Site : COOPER DRUM
Location : CPT-21

Geologist DON GRUBER
Date : 10:06:100 09:48



Max. Depth: 145.18 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson and Campanella 1988)

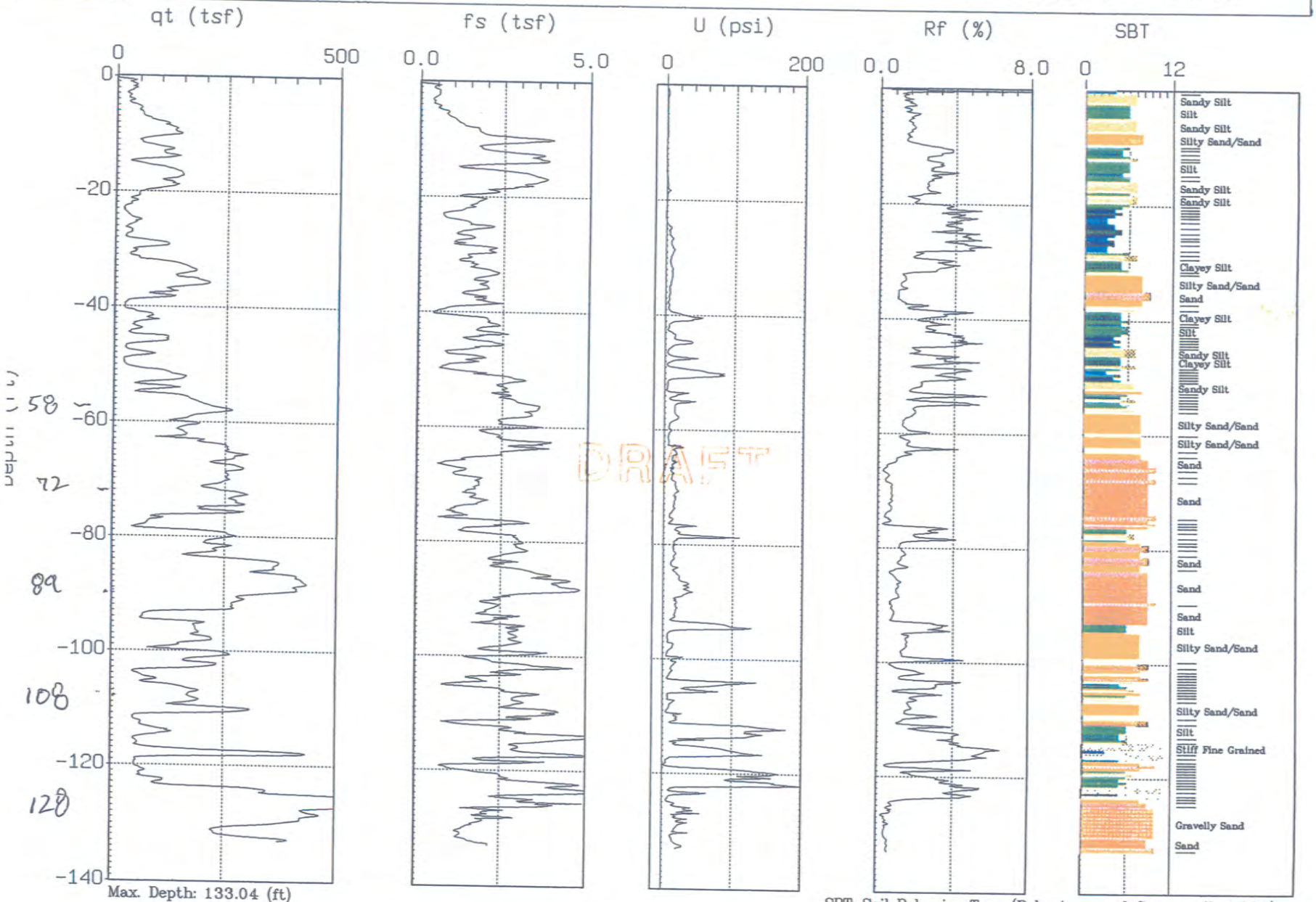
DRAFT

GREGG

URS

Site : COOPER DRUM
Location : CPT-36

Geologist : DON GRUBER
Date : 05:06:03 11:11



DRAFT

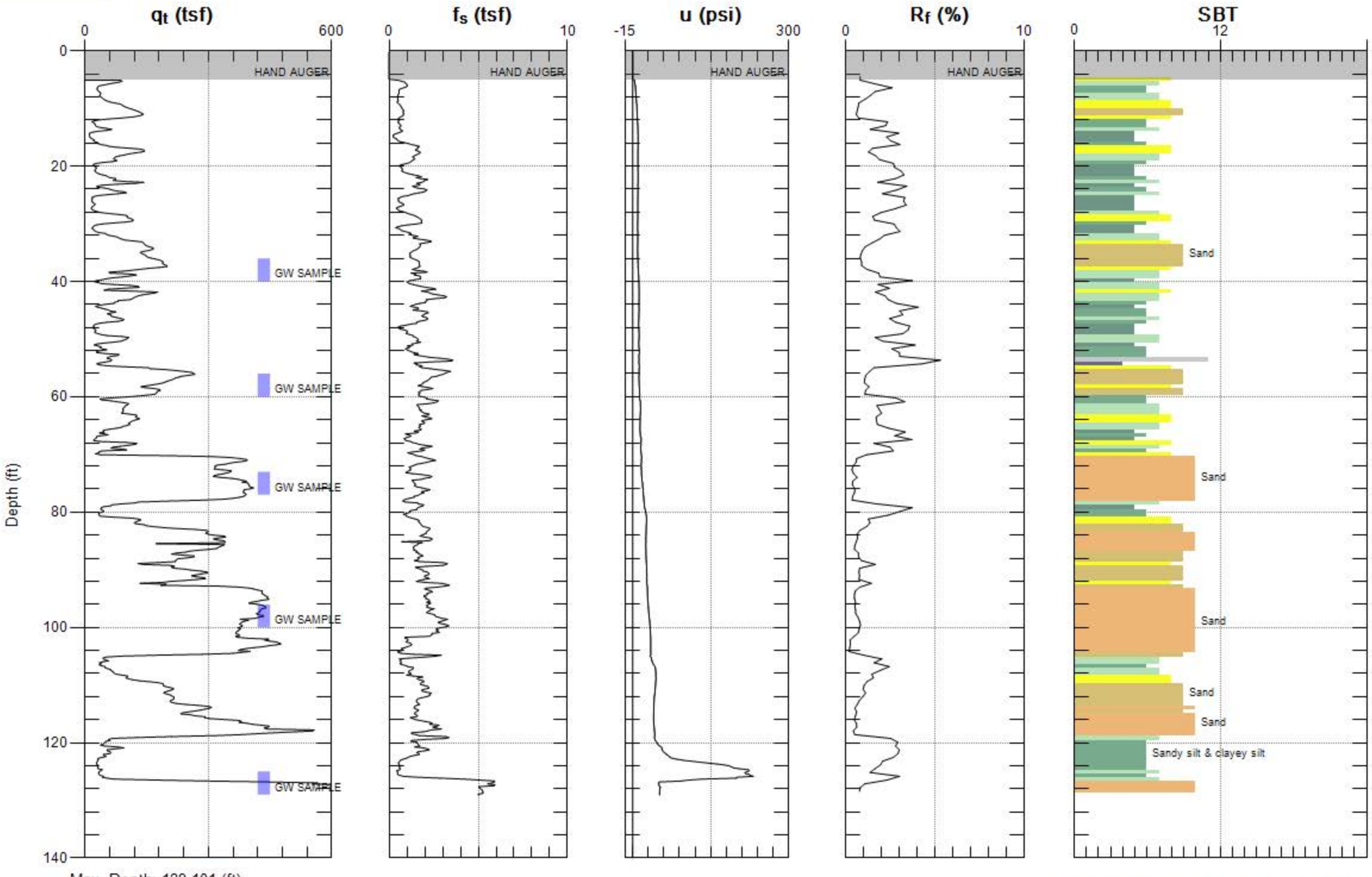
Max. Depth: 133.04 (ft)

Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson and Campanella 1988)

GILBANE FEDERAL

Site: SAIA
Sounding: CPT-14
Engineer: P.PHILLIPS
Date: 7/23/2015 08:24

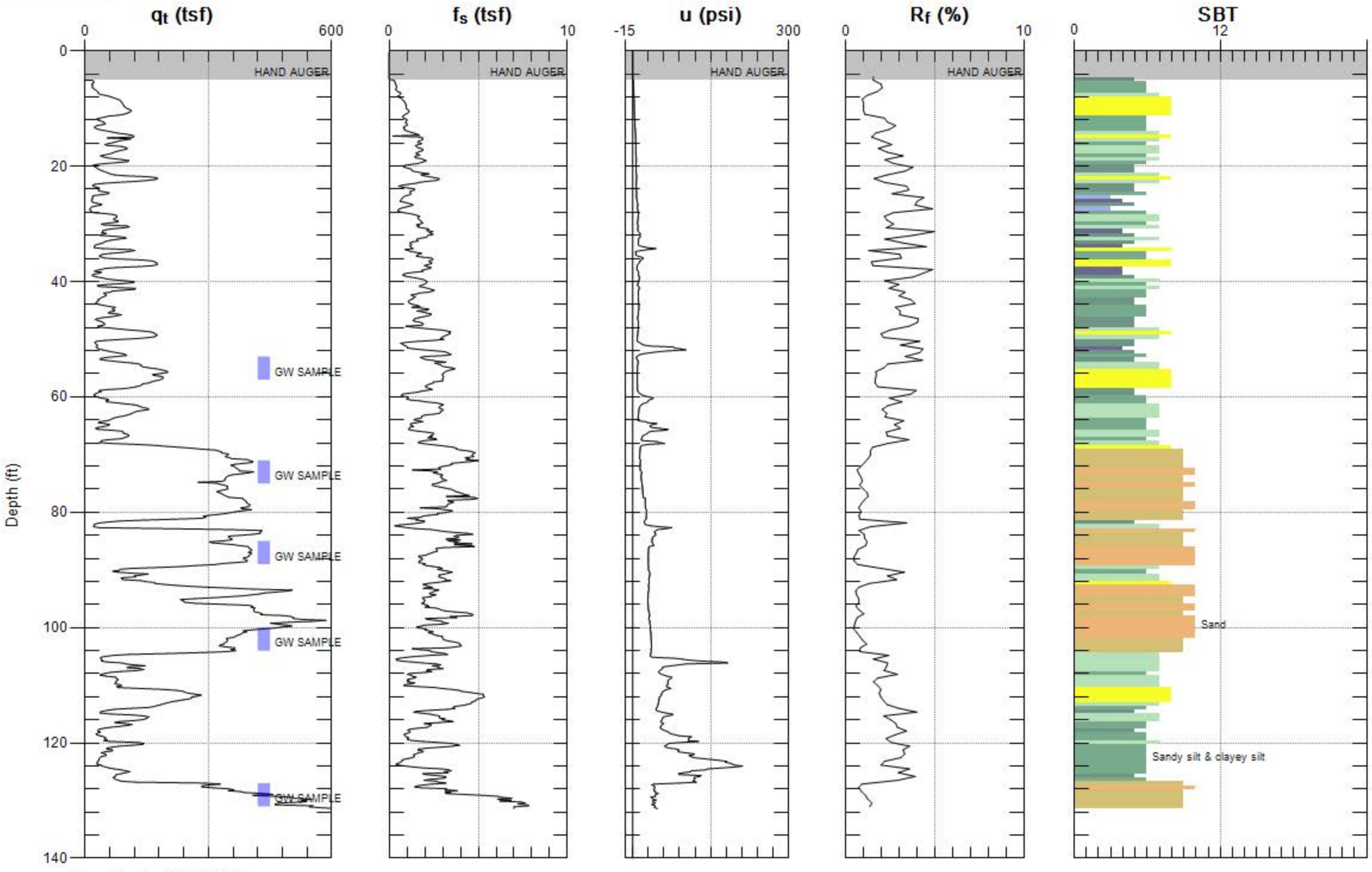


Max. Depth: 129.101 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GILBANE FEDERAL

Site: SAIA
Sounding: CPT-15
Engineer: P.PHILLIPS
Date: 7/28/2015 07:04

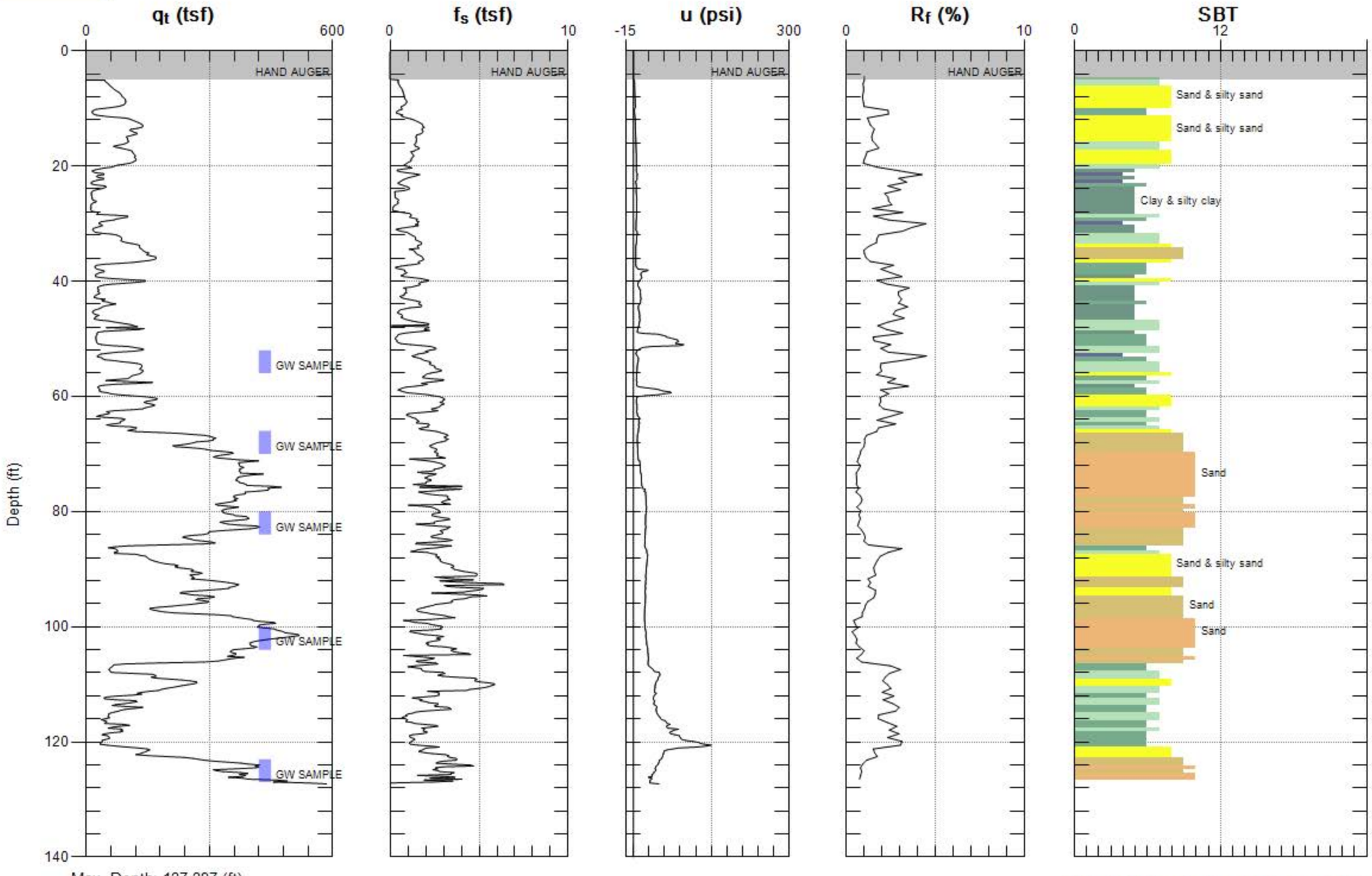


Max. Depth: 131.398 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GILBANE FEDERAL

Site: SAIA
Sounding: CPT-16
Engineer: P.PHILLIPS
Date: 7/29/2015 06:55

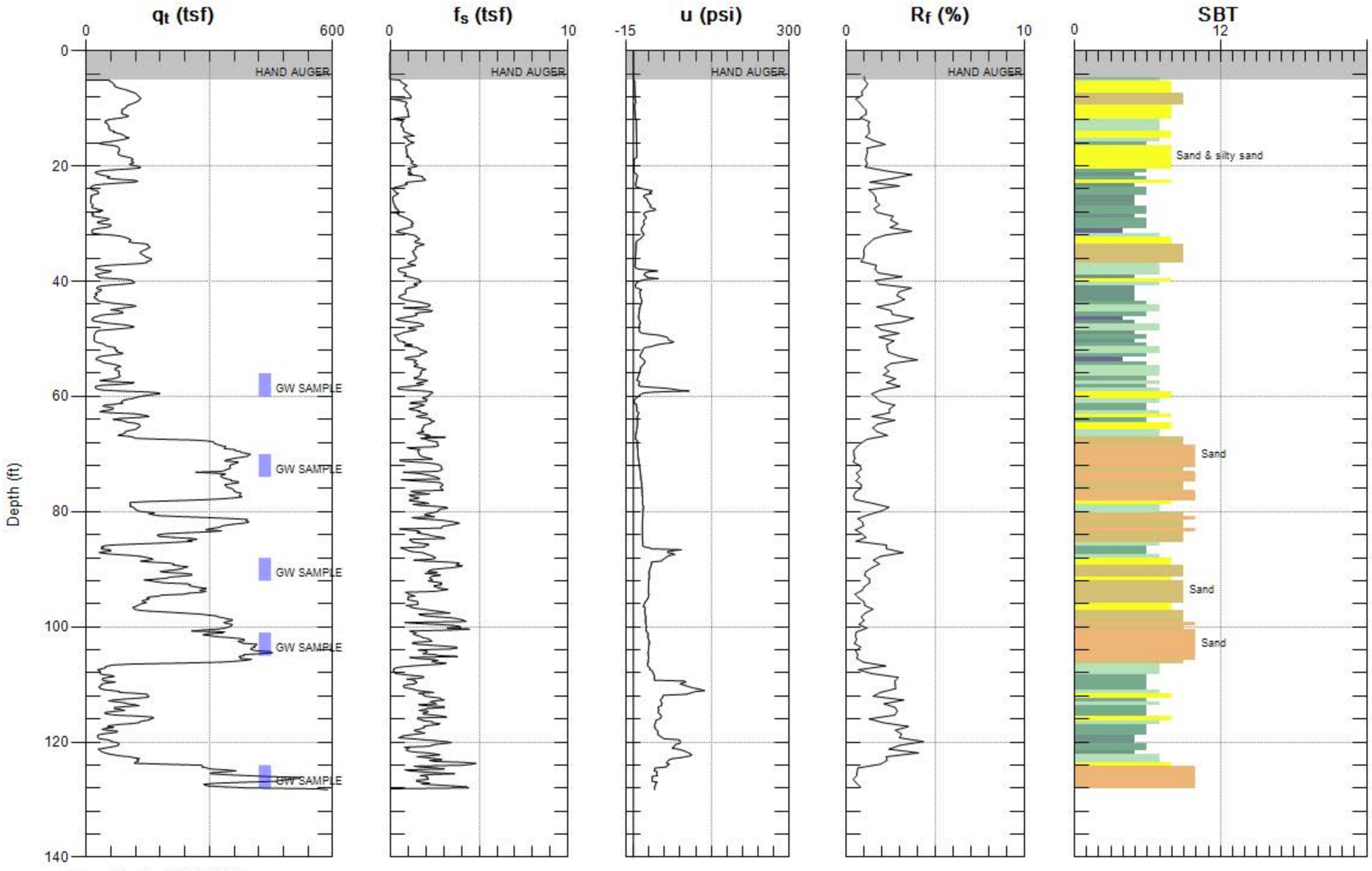


Max. Depth: 127.297 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GILBANE FEDERAL

Site: SAIA
Sounding: CPT-17
Engineer: P.PHILLIPS
Date: 7/30/2015 07:11

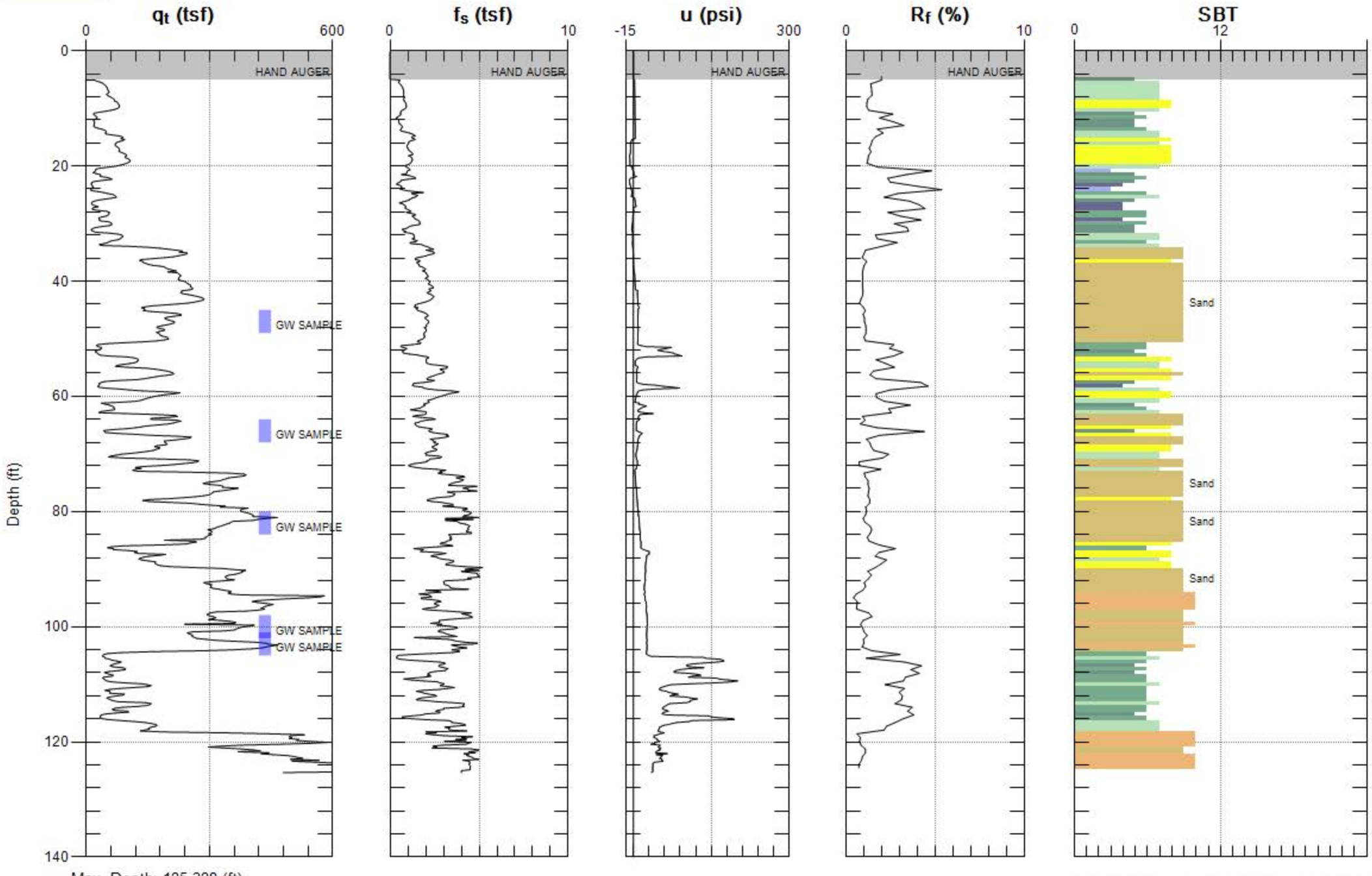


Max. Depth: 128.281 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GILBANE FEDERAL

Site: SAIA
Sounding: CPT-18
Engineer: P.PHILLIPS
Date: 7/31/2015 06:30

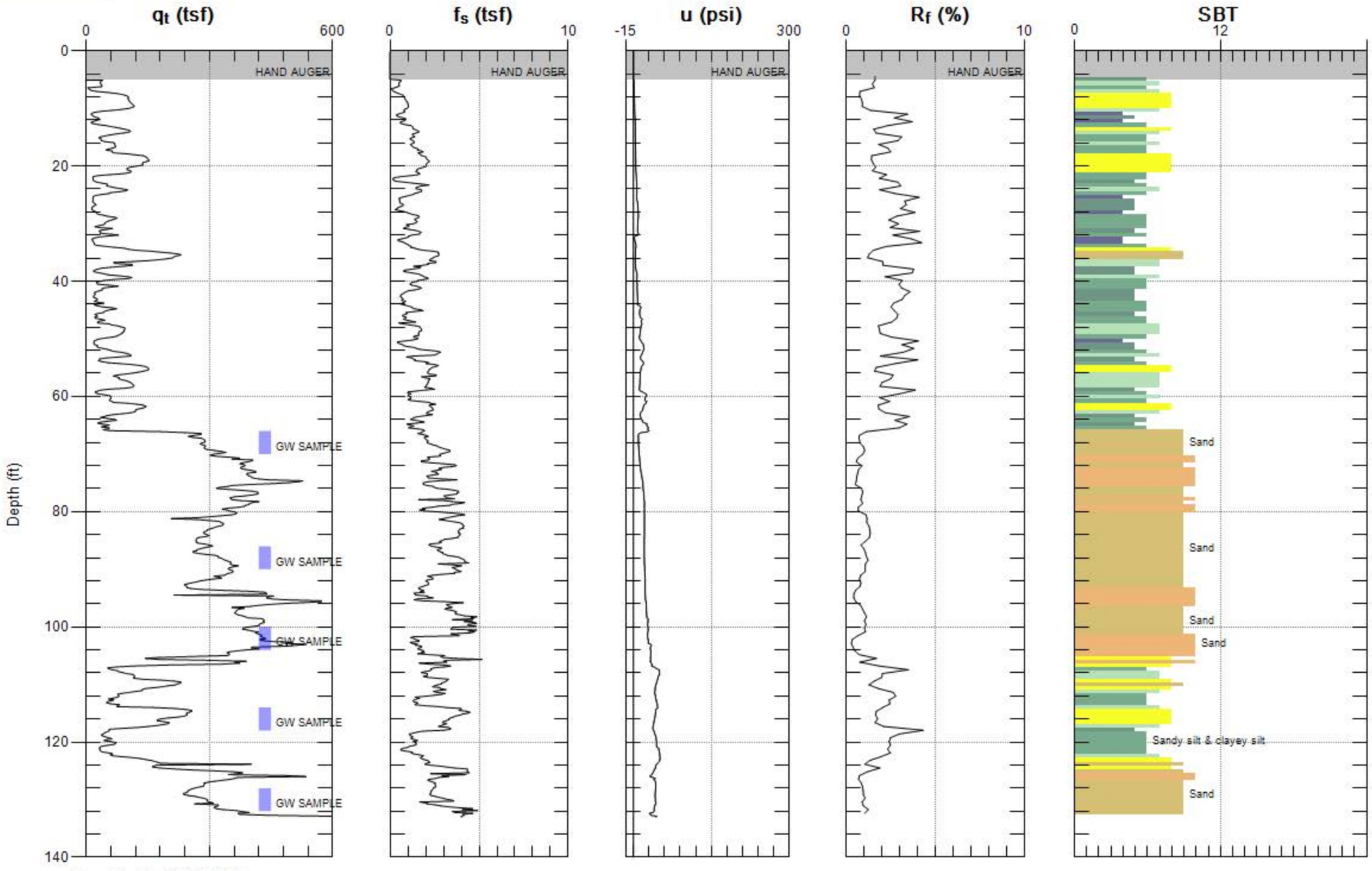


Max. Depth: 125.328 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GILBANE FEDERAL

Site: SAIA
Sounding: CPT-19
Engineer: P.PHILLIPS
Date: 7/24/2015 07:26

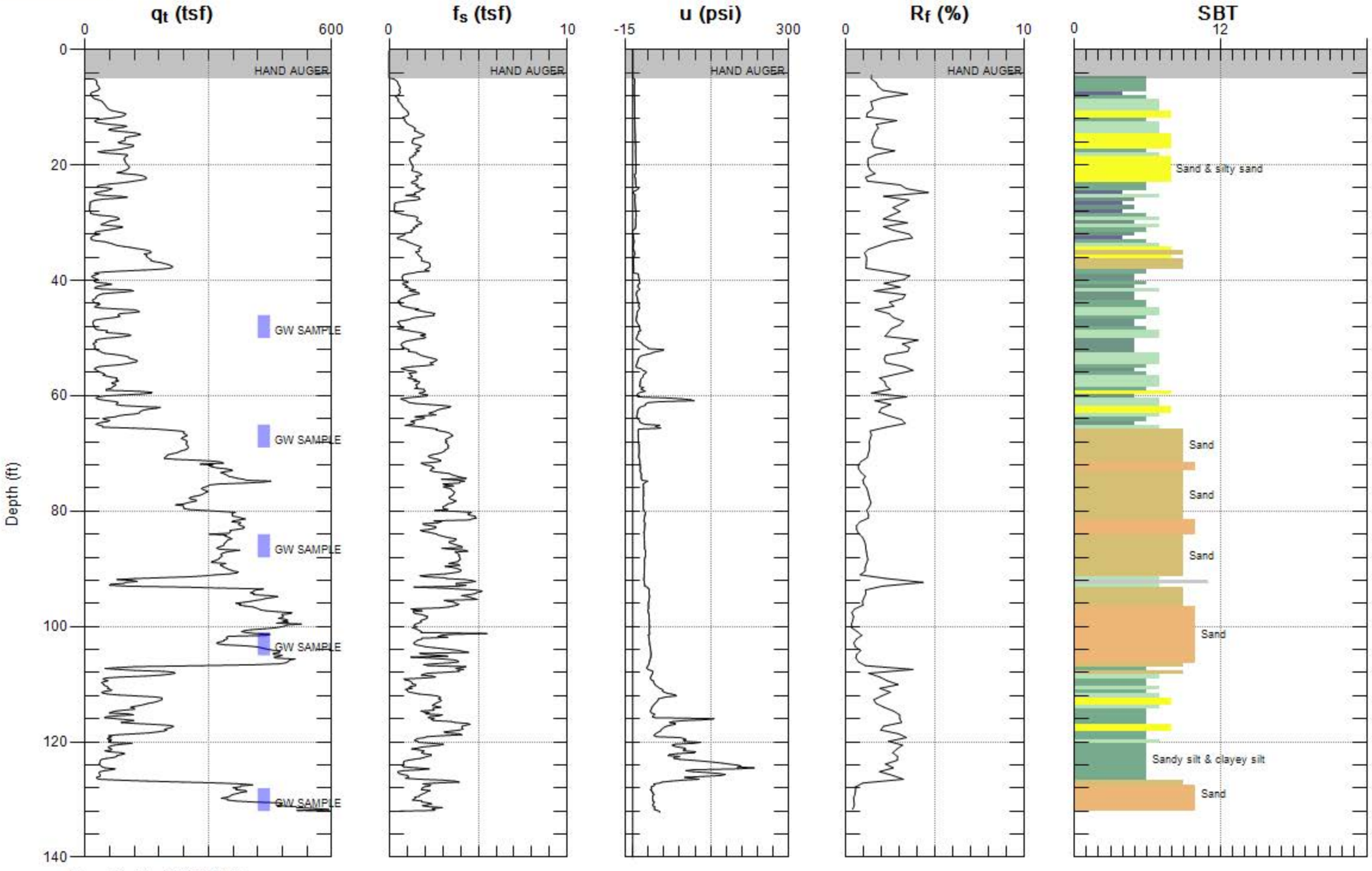


Max. Depth: 133.038 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GILBANE FEDERAL

Site: SAIA
Sounding: CPT-20
Engineer: P.PHILLIPS
Date: 7/27/2015 07:28

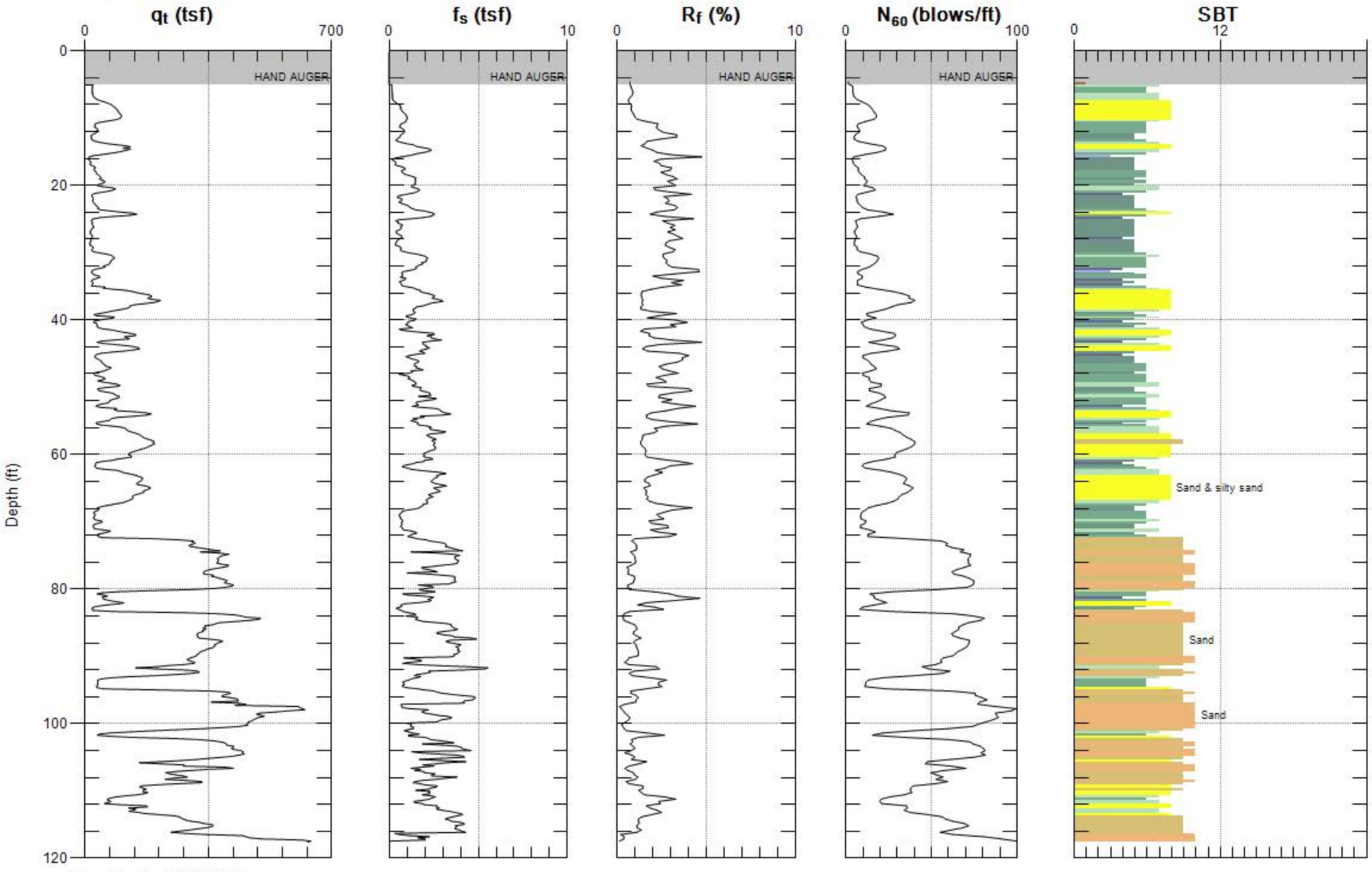


Max. Depth: 132.218 (ft)
Avg. Interval: 0.656 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GILBANE FEDERAL

Site: SAIA
Sounding: SAIA-CPT-21
Engineer: R.LEONG
Date: 6/14/2016 07:45

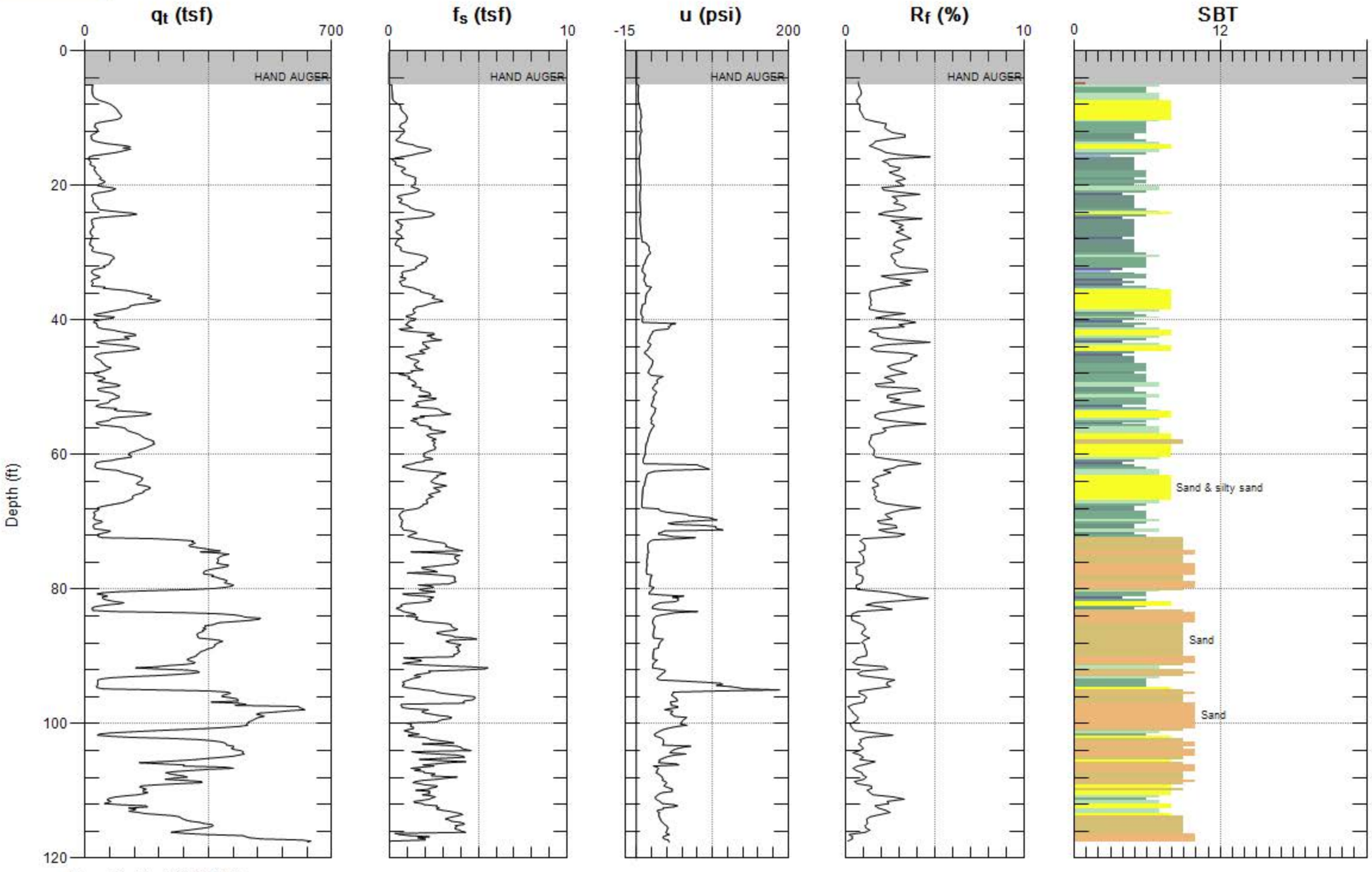


Max. Depth: 117.618 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GILBANE FEDERAL

Site: SAIA
Sounding: SAIA-CPT-21
Engineer: R.LEONG
Date: 6/14/2016 07:45

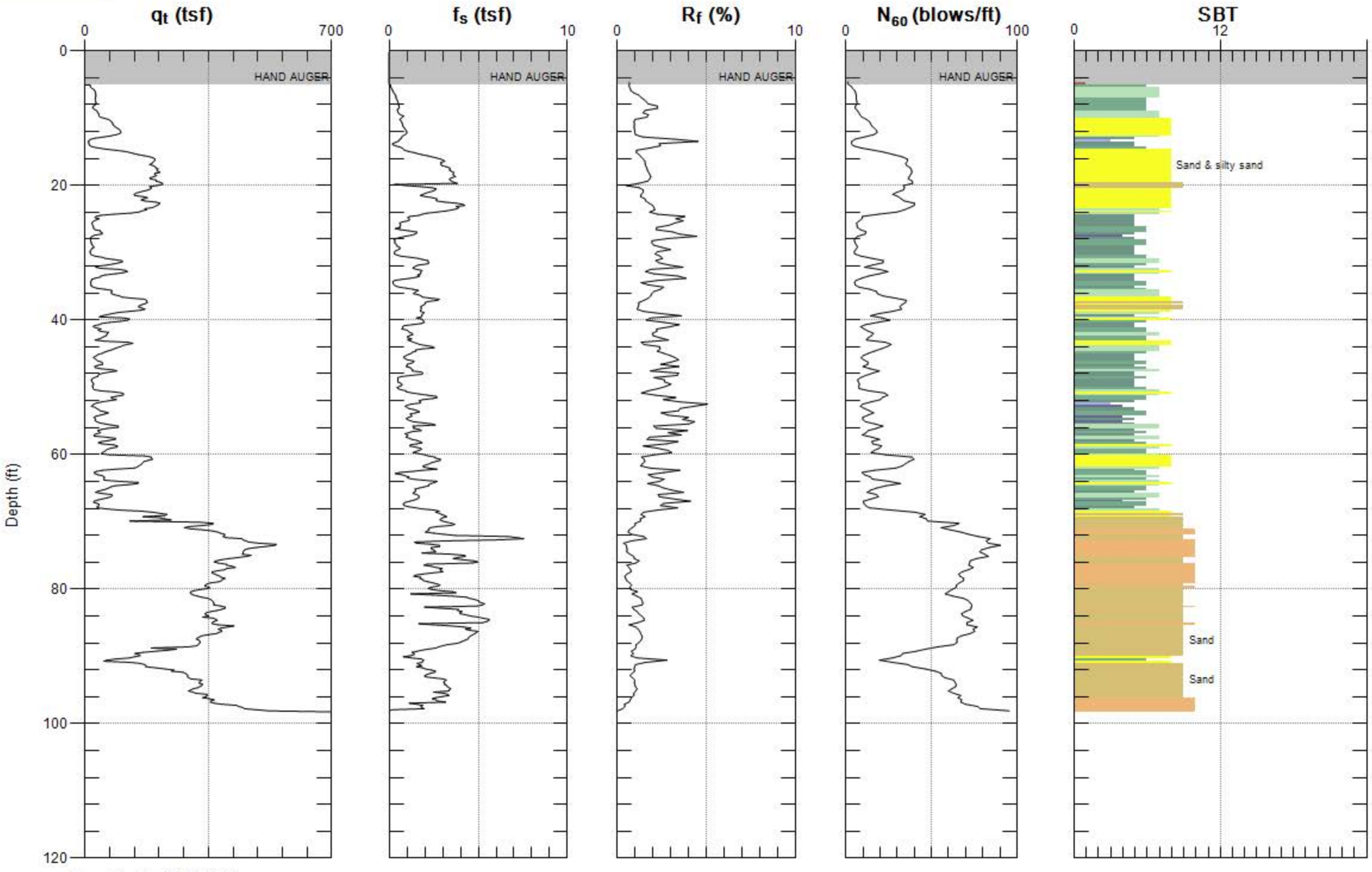


Max. Depth: 117.618 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GILBANE FEDERAL

Site: SAIA
Sounding: SAIA-CPT-22
Engineer: R.LEONG
Date: 12/31/2002 11:13

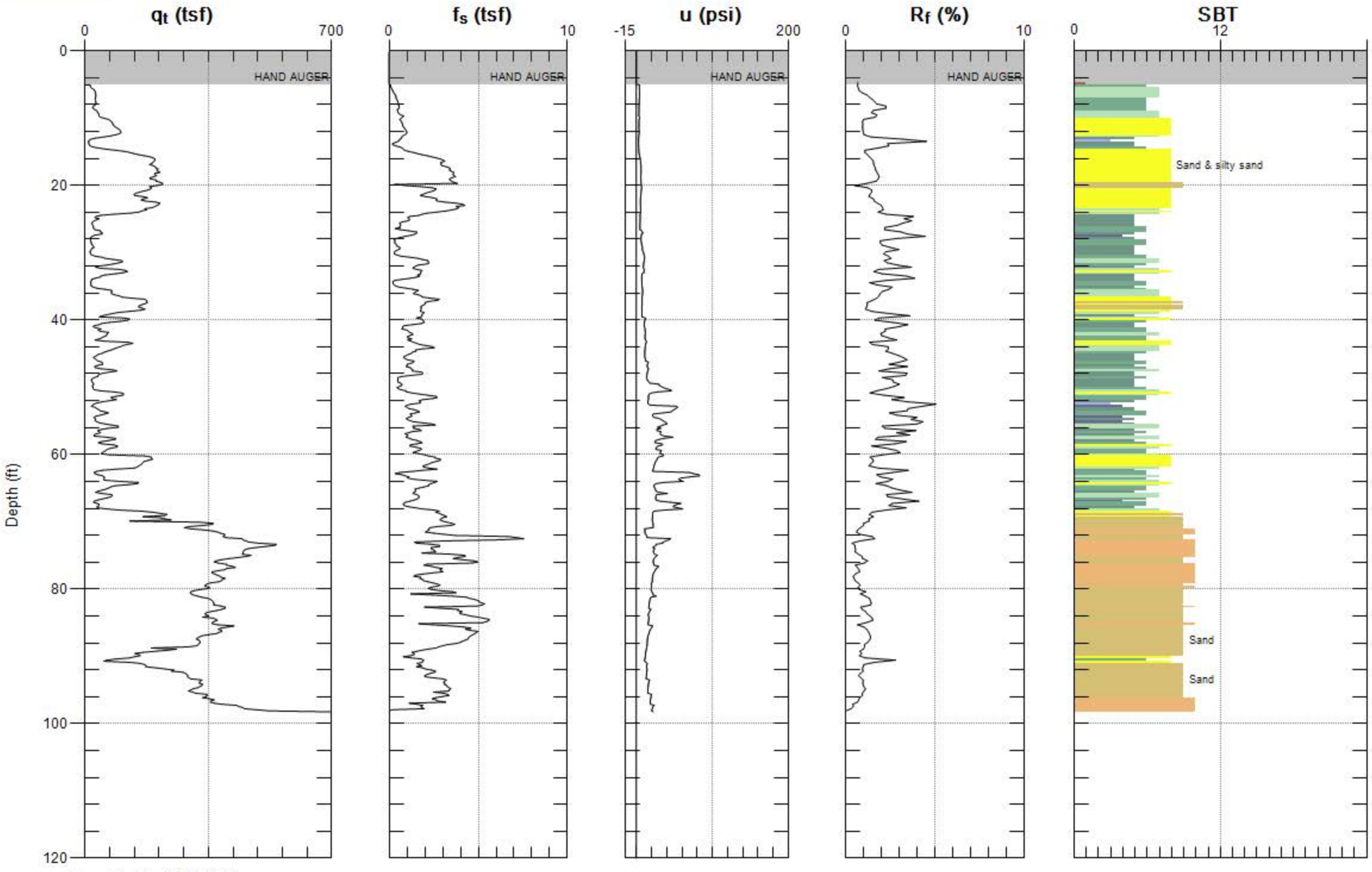


Max. Depth: 98.261 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GILBANE FEDERAL

Site: SAIA
Sounding: SAIA-CPT-22
Engineer: R.LEONG
Date: 12/31/2002 11:13



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GREGG DRILLING & TESTING, INC.
GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATION SERVICES

June 15, 2016

Gilbane Federal
Attn: Rogerio Leong

Subject: CPT Site Investigation
SAIA
South Gate, California
GREGG Project Number: 16-583SH

Dear Mr. Leong:

The following report presents the results of GREGG Drilling & Testing's Cone Penetration Test investigation for the above referenced site. The following testing services were performed:

1	Cone Penetration Tests	(CPTU)	☒
2	Pore Pressure Dissipation Tests	(PPD)	☒
3	Seismic Cone Penetration Tests	(SCPTU)	☐
4	UVOST Laser Induced Fluorescence	(UVOST)	☐
5	Groundwater Sampling	(GWS)	☐
6	Soil Sampling	(SS)	☐
7	Vapor Sampling	(VS)	☐
8	Pressuremeter Testing	(PMT)	☐
9	Vane Shear Testing	(VST)	☐
10	Dilatometer Testing	(DMT)	☐

A list of reference papers providing additional background on the specific tests conducted is provided in the bibliography following the text of the report. If you would like a copy of any of these publications or should you have any questions or comments regarding the contents of this report, please do not hesitate to contact our office at (562) 427-6899.

Sincerely,
GREGG Drilling & Testing, Inc.

Peter Robertson
Technical Director, Gregg Drilling & Testing, Inc.

Cone Penetration Testing Procedure (CPT)

Gregg Drilling carries out all Cone Penetration Tests (CPT) using an integrated electronic cone system, *Figure CPT*.

The cone takes measurements of tip resistance (q_c), sleeve resistance (f_s), and penetration pore water pressure (u_2). Measurements are taken at either 2.5 or 5 cm intervals during penetration to provide a nearly continuous profile. CPT data reduction and basic interpretation is performed in real time facilitating on-site decision making. The above mentioned parameters are stored electronically for further analysis and reference. All CPT soundings are performed in accordance with revised ASTM standards (D 5778-12).

The 5mm thick porous plastic filter element is located directly behind the cone tip in the u_2 location. A new saturated filter element is used on each sounding to measure both penetration pore pressures as well as measurements during a dissipation test (*PPDT*). Prior to each test, the filter element is fully saturated with oil under vacuum pressure to improve accuracy.

When the sounding is completed, the test hole is backfilled according to client specifications. If grouting is used, the procedure generally consists of pushing a hollow tremie pipe with a "knock out" plug to the termination depth of the CPT hole. Grout is then pumped under pressure as the tremie pipe is pulled from the hole. Disruption or further contamination to the site is therefore minimized.

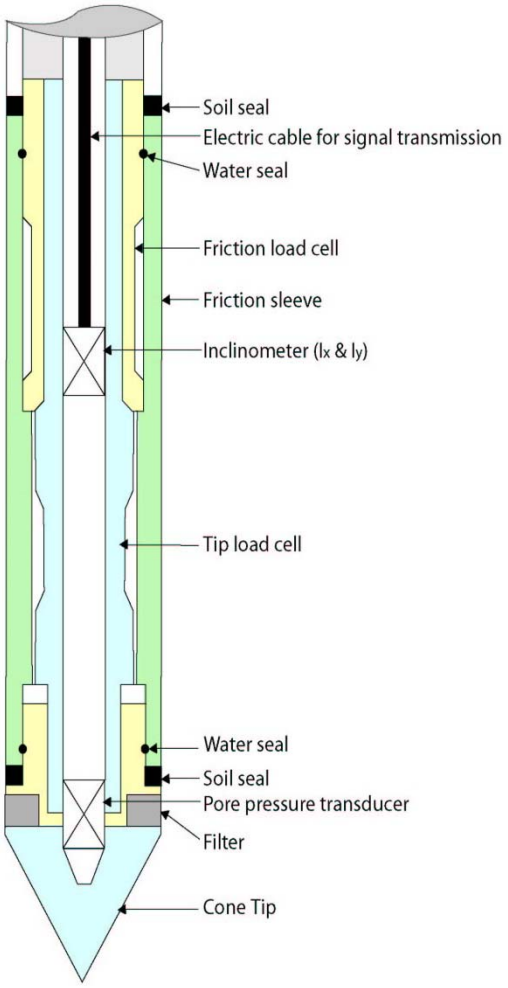


Figure CPT

Gregg 15cm^2 Standard Cone Specifications

Dimensions	
Cone base area	15 cm^2
Sleeve surface area	225 cm^2
Cone net area ratio	0.80
Specifications	
Cone load cell	
Full scale range	180 kN (20 tons)
Overload capacity	150%
Full scale tip stress	120 MPa (1,200 tsf)
Repeatability	120 kPa (1.2 tsf)
Sleeve load cell	
Full scale range	31 kN (3.5 tons)
Overload capacity	150%
Full scale sleeve stress	1,400 kPa (15 tsf)
Repeatability	1.4 kPa (0.015 tsf)
Pore pressure transducer	
Full scale range	7,000 kPa (1,000 psi)
Overload capacity	150%
Repeatability	7 kPa (1 psi)

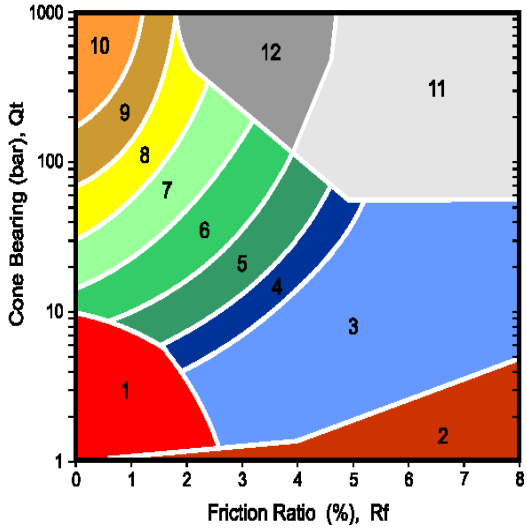
Note: The repeatability during field use will depend somewhat on ground conditions, abrasion, maintenance and zero load stability.

Cone Penetration Test Data & Interpretation

The Cone Penetration Test (CPT) data collected are presented in graphical and electronic form in the report. The plots include interpreted Soil Behavior Type (SBT) based on the charts described by Robertson (1990). Typical plots display SBT based on the non-normalized charts of Robertson et al (1986). For CPT soundings deeper than 30m, we recommend the use of the normalized charts of Robertson (1990) which can be displayed as SBTn, upon request. The report also includes spreadsheet output of computer calculations of basic interpretation in terms of SBT and SBTn and various geotechnical parameters using current published correlations based on the comprehensive review by Lunne, Robertson and Powell (1997), as well as recent updates by Professor Robertson (Guide to Cone Penetration Testing, 2015). The interpretations are presented only as a guide for geotechnical use and should be carefully reviewed. Gregg Drilling & Testing Inc. does not warranty the correctness or the applicability of any of the geotechnical parameters interpreted by the software and does not assume any liability for use of the results in any design or review. The user should be fully aware of the techniques and limitations of any method used in the software. Some interpretation methods require input of the groundwater level to calculate vertical effective stress. An estimate of the in-situ groundwater level has been made based on field observations and/or CPT results, but should be verified by the user.

A summary of locations and depths is available in Table 1. Note that all penetration depths referenced in the data are with respect to the existing ground surface.

Note that it is not always possible to clearly identify a soil type based solely on q_t, f_s, and u_2. In these situations, experience, judgment, and an assessment of the pore pressure dissipation data should be used to infer the correct soil behavior type.



ZONE		SBT
1		Sensitive, fine grained
2		Organic materials
3		Clay
4		Silty clay to clay
5		Clayey silt to silty clay
6		Sandy silt to clayey silt
7		Silty sand to sandy silt
8		Sand to silty sand
9		Sand
10		Gravely sand to sand
11		Very stiff fine grained*
12		Sand to clayey sand*

*over consolidated or cemented

Figure SBT (After Robertson et al., 1986) – Note: Colors may vary slightly compared to plots

Cone Penetration Test (CPT) Interpretation

Gregg uses a proprietary CPT interpretation and plotting software. The software takes the CPT data and performs basic interpretation in terms of soil behavior type (SBT) and various geotechnical parameters using current published empirical correlations based on the comprehensive review by Lunne, Robertson and Powell (1997). The interpretation is presented in tabular format using MS Excel. The interpretations are presented only as a guide for geotechnical use and should be carefully reviewed. Gregg does not warranty the correctness or the applicability of any of the geotechnical parameters interpreted by the software and does not assume any liability for any use of the results in any design or review. The user should be fully aware of the techniques and limitations of any method used in the software.

The following provides a summary of the methods used for the interpretation. Many of the empirical correlations to estimate geotechnical parameters have constants that have a range of values depending on soil type, geologic origin and other factors. The software uses 'default' values that have been selected to provide, in general, conservatively low estimates of the various geotechnical parameters.

Input:

1 Units for display (Imperial or metric) (atm. pressure, p_a = 0.96 tsf or 0.1 MPa)
2 Depth interval to average results (ft or m). Data are collected at either 0.02 or 0.05m and can be averaged every 1, 3 or 5 intervals.
3 Elevation of ground surface (ft or m)
4 Depth to water table, z_w (ft or m) – input required
5 Net area ratio for cone, a (default to 0.80)
6 Relative Density constant, C_{Dr} (default to 350)
7 Young's modulus number for sands, α (default to 5)
8 Small strain shear modulus number
  a. for sands, S_G (default to 180 for SBT_n 5, 6, 7)
  b. for clays, C_G (default to 50 for SBT_n 1, 2, 3 & 4)
9 Undrained shear strength cone factor for clays, N_{kt} (default to 15)
10 Over Consolidation ratio number, k_{ocr} (default to 0.3)
11 Unit weight of water, (default to γ_w = 62.4 lb/ft^3 or 9.81 kN/m^3)

Column

1 Depth, z, (m) – CPT data is collected in meters
2 Depth (ft)
3 Cone resistance, q_c (tsf or MPa)
4 Sleeve resistance, f_s (tsf or MPa)
5 Penetration pore pressure, u (psi or MPa), measured behind the cone (i.e. u_2)
6 Other – any additional data
7 Total cone resistance, q_t (tsf or MPa) $q_t = q_c + u\,(1\text{-}a)$

8	Friction Ratio, R_f (%)	$R_f = (f_s/q_t) \times 100\%$
9	Soil Behavior Type (non-normalized), SBT	see note
10	Unit weight, γ (pcf or kN/m^3)	based on SBT, see note
11	Total overburden stress, σ_v (tsf)	$\sigma_{vo} = \sigma\ z$
12	In-situ pore pressure, u_o (tsf)	$u_o = \gamma_w (z - z_w)$
13	Effective overburden stress, σ'_{vo} (tsf)	$\sigma'_{vo} = \sigma_{vo} - u_o$
14	Normalized cone resistance, Q_{t1}	$Q_{t1} = (q_t - \sigma_{vo}) / \sigma'_{vo}$
15	Normalized friction ratio, F_r (%)	$F_r = f_s / (q_t - \sigma_{vo}) \times 100\%$
16	Normalized Pore Pressure ratio, B_q	$B_q = u - u_o / (q_t - \sigma_{vo})$
17	Soil Behavior Type (normalized), SBT_n	see note
18	SBT_n Index, I_c	see note
19	Normalized Cone resistance, Q_{tn} (n varies with I_c)	see note
20	Estimated permeability, k_{SBT} (cm/sec or ft/sec)	see note
21	Equivalent SPT N_{60}, blows/ft	see note
22	Equivalent SPT $(N_1)_{60}$ blows/ft	see note
23	Estimated Relative Density, D_r, (%)	see note
24	Estimated Friction Angle, ϕ', (degrees)	see note
25	Estimated Young's modulus, E_s (tsf)	see note
26	Estimated small strain Shear modulus, Go (tsf)	see note
27	Estimated Undrained shear strength, s_u (tsf)	see note
28	Estimated Undrained strength ratio	s_u/σ_v'
29	Estimated Over Consolidation ratio, OCR	see note

Notes:

1 Soil Behavior Type (non-normalized), SBT (Lunne et al., 1997 and table below)

2 Unit weight, γ either constant at 119 pcf or based on Non-normalized SBT (Lunne et al., 1997 and table below)

3 Soil Behavior Type (Normalized), SBT_n Lunne et al. (1997)

4 SBT_n Index, I_c $I_c = ((3.47 - \log Q_{t1})^2 + (\log F_r + 1.22)^2)^{0.5}$

5 Normalized Cone resistance, Q_{tn} (n varies with Ic)

$Q_{tn} = ((q_t - \sigma_{vo})/pa)\ (pa/(\sigma'_{vo})^n$ and recalculate I_c, then iterate:

When $I_c < 1.64$, n = 0.5 (clean sand)
When $I_c > 3.30$, n = 1.0 (clays)
When $1.64 < I_c < 3.30$, $n = (I_c - 1.64)0.3 + 0.5$
Iterate until the change in n, $\Delta n < 0.01$

6 Estimated permeability, k_{SBT} based on Normalized SBT_n (Lunne et al., 1997 and table below)

7 Equivalent SPT N_{60}, blows/ft Lunne et al. (1997)

$$\frac{(q_t/p_a)}{N_{60}} = 8.5\left(1 - \frac{I_c}{4.6}\right)$$

8 Equivalent SPT $(N_1)_{60}$ blows/ft $(N_1)_{60} = N_{60}\, C_N$,
where $C_N = (pa/\sigma'_{vo})^{0.5}$

9 Relative Density, D_r, (%) $D_r^2 = Q_{tn} / C_{Dr}$
Only SBT_n 5, 6, 7 & 8 *Show 'N/A' in zones 1, 2, 3, 4 & 9*

10 Friction Angle, ϕ', (degrees) $\tan\phi' = \frac{1}{2.68}\left[\log\left(\frac{q_c}{\sigma'_{vo}}\right) + 0.29\right]$
Only SBT_n 5, 6, 7 & 8 *Show'N/A' in zones 1, 2, 3, 4 & 9*

11 Young's modulus, E_s $E_s = \alpha\, q_t$
Only SBT_n 5, 6, 7 & 8 *Show 'N/A' in zones 1, 2, 3, 4 & 9*

12 Small strain shear modulus, Go

a. $G_o = S_G\,(q_t\ \sigma'_{vo}\ pa)^{1/3}$ *For SBT_n 5, 6, 7*

b. $G_o = C_G\, q_t$ *For SBT_n 1, 2, 3& 4*

Show 'N/A' in zones 8 & 9

13 Undrained shear strength, s_u $s_u = (q_t - \sigma_{vo}) / N_{kt}$
Only SBT_n 1, 2, 3, 4 & 9 *Show 'N/A' in zones 5, 6, 7 & 8*

14 Over Consolidation ratio, OCR $OCR = k_{ocr}\, Q_{t1}$
Only SBT_n 1, 2, 3, 4 & 9 *Show 'N/A' in zones 5, 6, 7 & 8*

The following updated and simplified SBT descriptions have been used in the software:

SBT Zones		**SBT_n Zones**	
1	sensitive fine grained	1	sensitive fine grained
2	organic soil	2	organic soil
3	clay	3	clay
4	clay & silty clay	4	clay & silty clay
5	clay & silty clay		
6	sandy silt & clayey silt		

7	silty sand & sandy silt	5	silty sand & sandy silt
8	sand & silty sand	6	sand & silty sand
9	sand		
10	sand	7	sand
11	very dense/stiff soil*	8	very dense/stiff soil*
12	very dense/stiff soil*	9	very dense/stiff soil*

*heavily overconsolidated and/or cemented

Track when soils fall with zones of same description and print that description (i.e. if soils fall only within SBT zones 4 & 5, print 'clays & silty clays')

Estimated Permeability (see Lunne et al., 1997)

SBT_n	Permeability (ft/sec)	(m/sec)
1	$3x\ 10^{-8}$	$1x\ 10^{-8}$
2	$3x\ 10^{-7}$	$1x\ 10^{-7}$
3	$1x\ 10^{-9}$	$3x\ 10^{-10}$
4	$3x\ 10^{-8}$	$1x\ 10^{-8}$
5	$3x\ 10^{-6}$	$1x\ 10^{-6}$
6	$3x\ 10^{-4}$	$1x\ 10^{-4}$
7	$3x\ 10^{-2}$	$1x\ 10^{-2}$
8	$3x\ 10^{-6}$	$1x\ 10^{-6}$
9	$1x\ 10^{-8}$	$3x\ 10^{-9}$

Estimated Unit Weight (see Lunne et al., 1997)

SBT	Approximate Unit Weight (lb/ft^3)	(kN/m^3)
1	111.4	17.5
2	79.6	12.5
3	111.4	17.5
4	114.6	18.0
5	114.6	18.0
6	114.6	18.0
7	117.8	18.5
8	120.9	19.0
9	124.1	19.5
10	127.3	20.0
11	130.5	20.5
12	120.9	19.0

Pore Pressure Dissipation Tests (PPDT)

Pore Pressure Dissipation Tests (PPDT's) conducted at various intervals can be used to measure equilibrium water pressure (at the time of the CPT). If conditions are hydrostatic, the equilibrium water pressure can be used to determine the approximate depth of the ground water table. A PPDT is conducted when penetration is halted at specific intervals determined by the field representative. The variation of the penetration pore pressure (*u)* with time is measured behind the tip of the cone and recorded.

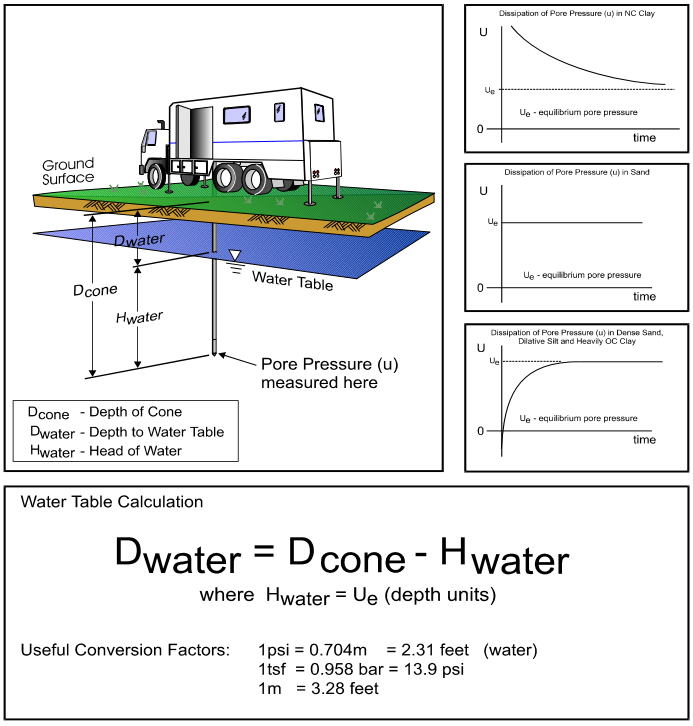
Pore pressure dissipation data can be interpreted to provide estimates of:

- Equilibrium piezometric pressure
- Phreatic Surface
- In situ horizontal coefficient of consolidation (c_h)
- In situ horizontal coefficient of permeability (k_h)

In order to correctly interpret the equilibrium piezometric pressure and/or the phreatic surface, the pore pressure must be monitored until it reaches equilibrium, *Figure PPDT*. This time is commonly referred to as t_{100}, the point at which 100% of the excess pore pressure has dissipated.

A complete reference on pore pressure dissipation tests is presented by Robertson et al. 1992 and Lunne et al. 1997.

A summary of the pore pressure dissipation tests are summarized in Table 1.



Water Table Calculation

$$D_{water} = D_{cone} - H_{water}$$

where $H_{water} = U_e$ (depth units)

Useful Conversion Factors: 1psi = 0.704m = 2.31 feet (water)
1tsf = 0.958 bar = 13.9 psi
1m = 3.28 feet

Figure PPDT

Seismic Cone Penetration Testing (SCPT)

Seismic Cone Penetration Testing (SCPT) can be conducted at various intervals during the Cone Penetration Test. Shear wave velocity (Vs) can then be calculated over a specified interval with depth. A small interval for seismic testing, such as 1-1.5m (3-5ft) allows for a detailed look at the shear wave profile with depth. Conversely, a larger interval such as 3-6m (10-20ft) allows for a more average shear wave velocity to be calculated. Gregg's cones have a horizontally active geophone located 0.2m (0.66ft) behind the tip.

To conduct the seismic shear wave test, the penetration of the cone is stopped and the rods are decoupled from the rig. An automatic hammer is triggered to send a shear wave into the soil. The distance from the source to the cone is calculated knowing the total depth of the cone and the horizontal offset distance between the source and the cone. To calculate an interval velocity, a minimum of two tests must be performed at two different depths. The arrival times between the two wave traces are compared to obtain the difference in time (Δt). The difference in depth is calculated (Δd) and velocity can be determined using the simple equation: $v = \Delta d/\Delta t$

Multiple wave traces can be recorded at the same depth to improve quality of the data.

A complete reference on seismic cone penetration tests is presented by Robertson et al. 1986 and Lunne et al. 1997.

A summary the shear wave velocities, arrival times and wave traces are provided with the report.

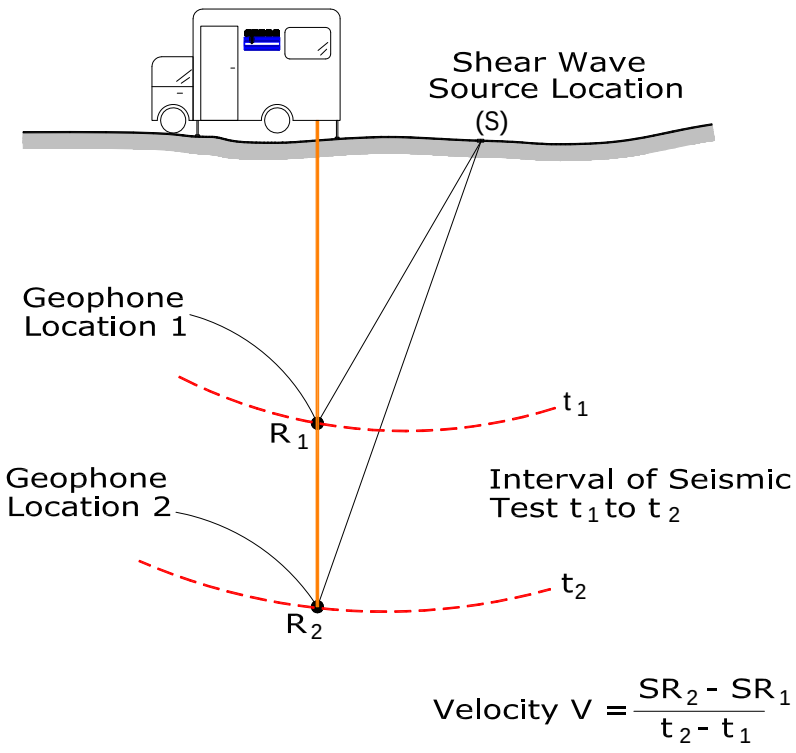


Figure SCPT

Groundwater Sampling

Gregg Drilling & Testing, Inc. conducts groundwater sampling using a sampler as shown in *Figure GWS*. The groundwater sampler has a retrievable stainless steel or disposable PVC screen with steel drop off tip. This allows for samples to be taken at multiple depth intervals within the same sounding location. In areas of slower water recharge, provisions may be made to set temporary PVC well screens during sampling to allow the pushing equipment to advance to the next sample location while the groundwater is allowed to infiltrate.

The groundwater sampler operates by advancing 44.5mm (1¾ inch) hollow push rods with the filter tip in a closed configuration to the base of the desired sampling interval. Once at the desired sample depth, the push rods are retracted; exposing the encased filter screen and allowing groundwater to infiltrate hydrostatically from the formation into the inlet screen. A small diameter bailer (approximately ½ or ¾ inch) is lowered through the push rods into the screen section for sample collection. The number of downhole trips with the bailer and time necessary to complete the sample collection at each depth interval is a function of sampling protocols, volume requirements, and the yield characteristics and storage capacity of the formation. Upon completion of sample collection, the push rods and sampler, with the exception of the PVC screen and steel drop off tip are retrieved to the ground surface, decontaminated and prepared for the next sampling event.

For a detailed reference on direct push groundwater sampling, refer to Zemo et. al., 1992.

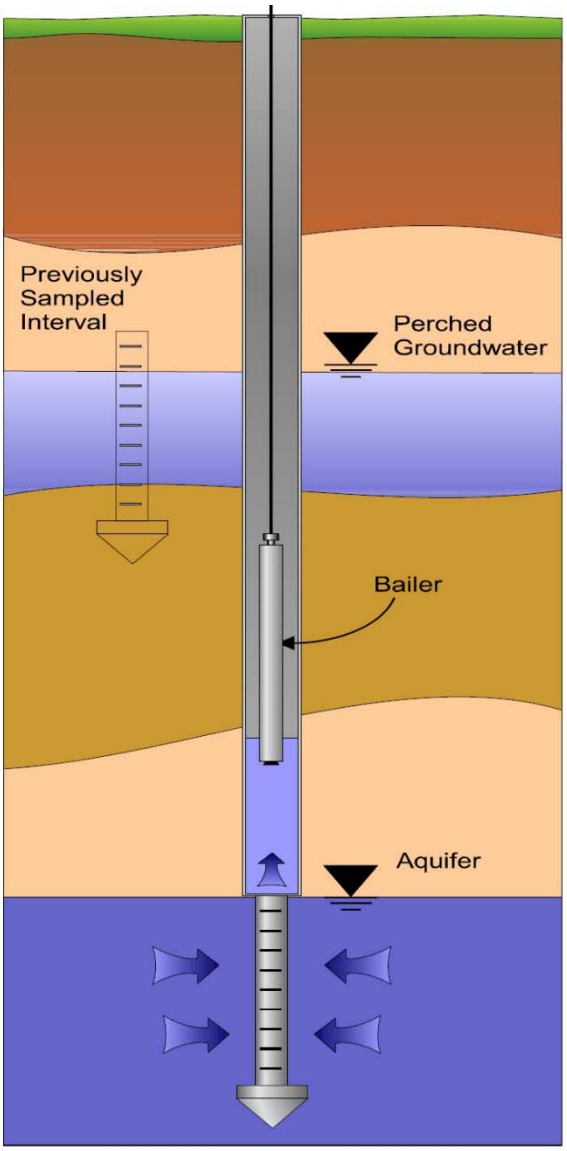


Figure GWS

Soil Sampling

Gregg Drilling & Testing, Inc. uses a piston-type push-in sampler to obtain small soil samples without generating any soil cuttings, *Figure SS*. Two different types of samplers (12 and 18 inch) are used depending on the soil type and density. The soil sampler is initially pushed in a "closed" position to the desired sampling interval using the CPT pushing equipment. Keeping the sampler closed minimizes the potential of cross contamination. The inner tip of the sampler is then retracted leaving a hollow soil sampler with inner 1¼" diameter sample tubes. The hollow sampler is then pushed in a locked "open" position to collect a soil sample. The filled sampler and push rods are then retrieved to the ground surface. Because the soil enters the sampler at a constant rate, the opportunity for 100% recovery is increased. For environmental analysis, the soil sample tube ends are sealed with Teflon and plastic caps. Often, a longer "split tube" can be used for geotechnical sampling.

For a detailed reference on direct push soil sampling, refer to Robertson et al, 1998.

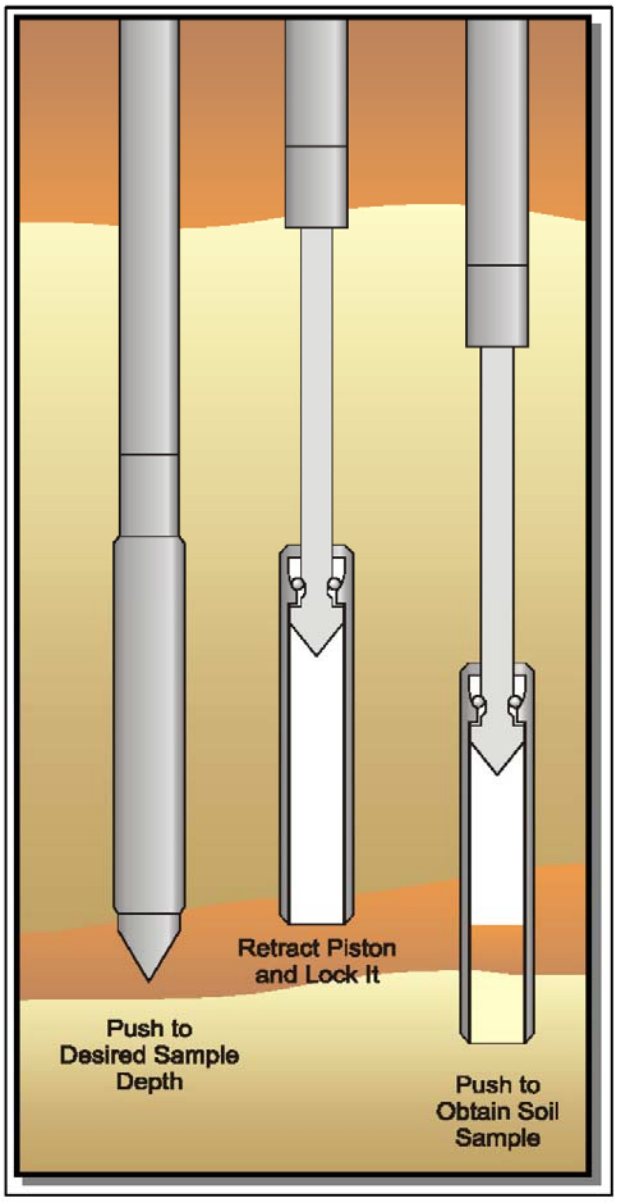


Figure SS

Ultra-Violet Induced Fluorescence (UVOST)

Gregg Drilling conducts Laser Induced Fluorescence (LIF) Cone Penetration Tests using a UVOST module that is located behind the standard piezocone, *Figure UVOST*. The laser induced fluorescence cone works on the principle that polycyclic aromatic hydrocarbons (PAH's), mixed with soil and/or groundwater, fluoresce when irradiated by ultra violet light. Therefore, by measuring the intensity of fluorescence, the lateral and vertical extent of hydrocarbon contamination in the ground can be estimated.

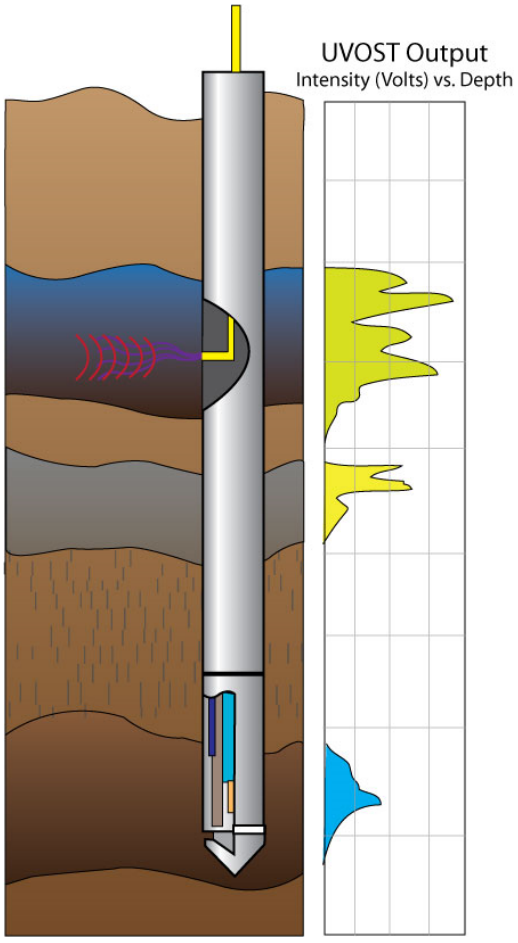


Figure UVOST

The UVOST module uses principles of fluorescence spectrometry by irradiating the soil with ultra violet light produced by a laser and transmitted to the cone through fiber optic cables. The UV light passes through a small window in the side of the cone into the soil. Any hydrocarbon molecules present in the soil absorb the light energy during radiation and immediately re-emit the light at a longer wavelength. This re-emission is termed fluorescence. The UVOST system also measures the emission decay with time at four different wavelengths (350nm, 400nm, 450nm, and 500nm). This allows the software to determine a product "signature" at each data point. This process provides a method to evaluate the type of contaminant. A sample output from the UVOST system is shown in *Figure Output*. In general, the typical detection limit for the UVOST system is <100 ppm and it will operate effectively above and below the saturated zone.

With the capability to push up to 200m (600ft) per day, laser induced fluorescence offers a fast and efficient means for delineating PAH contaminant plumes. Color coded logs offer qualitative information in a quick glance and can be produced in the field for real-time decision making. Coupled with the data provided by the CPT, a complete site assessment can be completed with no samples or cuttings, saving laboratory costs as well as site and environmental impact.

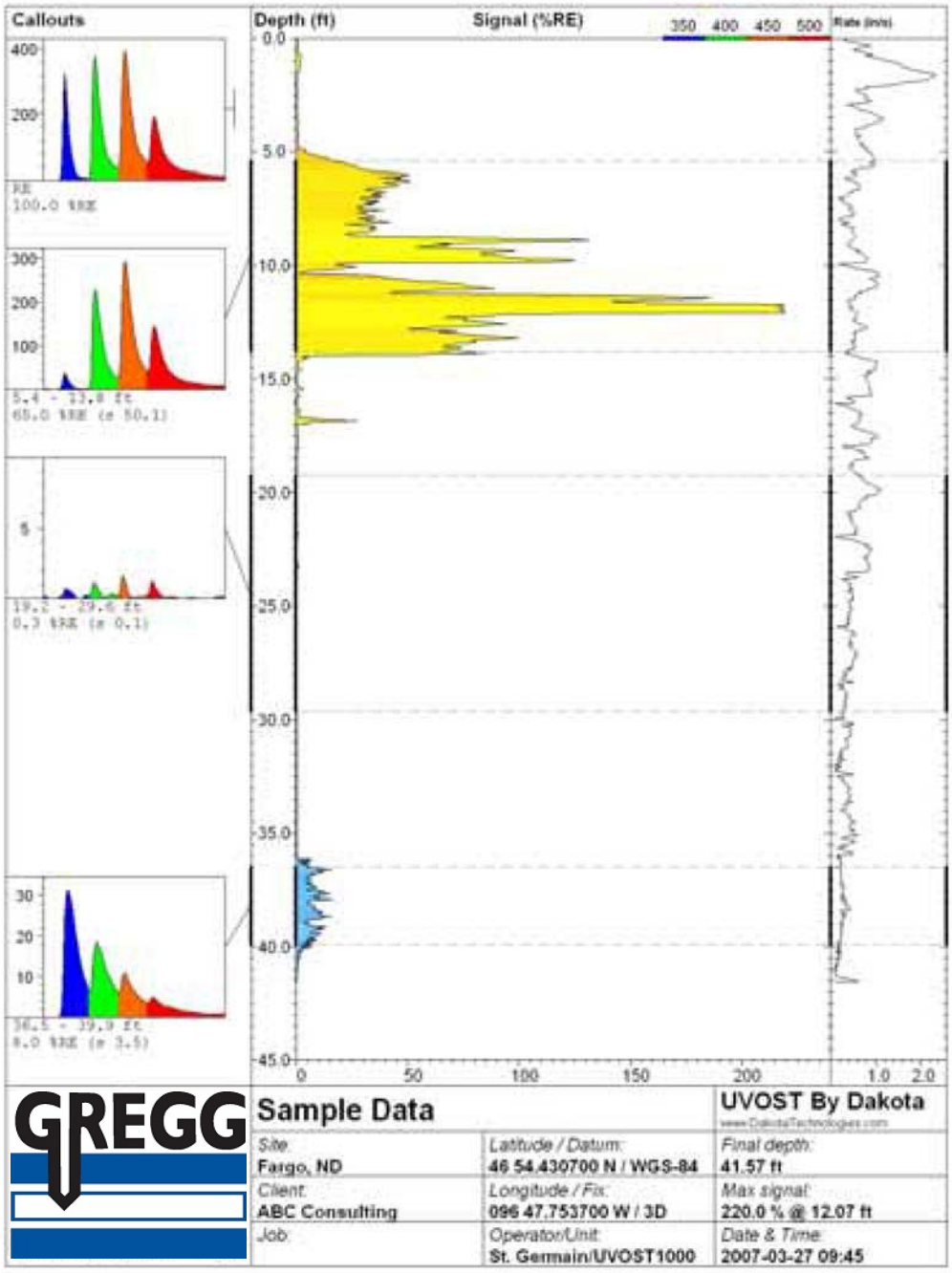


Figure Output

Hydrocarbons detected with UVOST

- Gasoline
- Diesel
- Jet (Kerasene)
- Motor Oil
- Cutting fluids
- Hydraulic fluids
- Crude Oil

Hydrocarbons rarely detected using UVOST

- Extremely weathered gasoline
- Coal tar
- Creosote
- Bunker Oil
- Polychlorinated bi-phenols (PCB's)
- Chlorinated solvent DNAPL
- Dissolved phase (aqueous) PAH's

Potential False Positives (fluorescence observed)

- Sea-shells (weak-medium)
- Paper (medium-strong depending on color)
- Peat/meadow mat (weak)
- Calcite/calcareous sands (weak)
- Tree roots (weak-medium)
- Sewer lines (medium-strong)

Potential False Negatives (do not fluoresce)

- Extremely weathered fuels (especially gasoline)
- Aviation gasoline (weak)
- "Dry" PAHs such as aqueous phase, lamp black, purifier chips
- Creosotes (most)
- Coal tars (most) gasoline (weak)
- Most chlorinated solvents
- Benzene, toluene, zylenes (relatively pure)

Dakota Technologies
UVOST Log Reference

2008-12-12

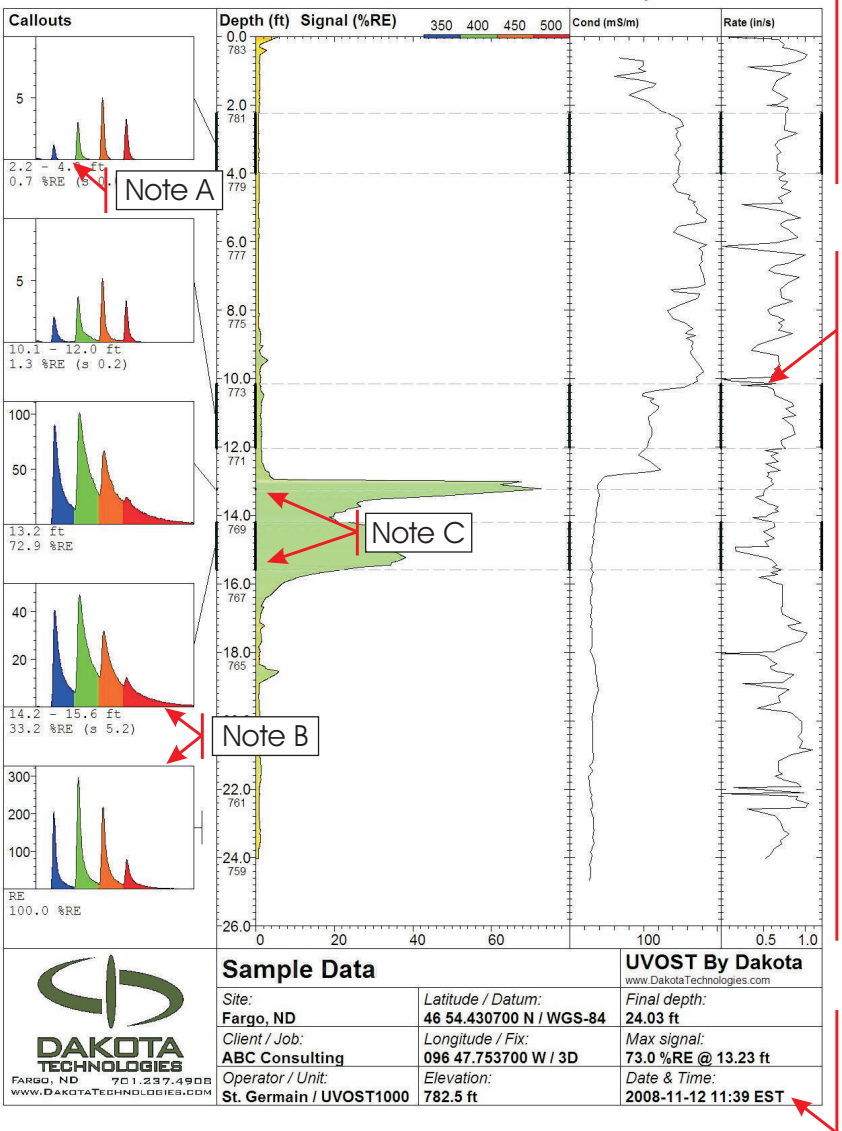
Main Plot :
Signal (total fluorescence) versus depth where signal is relative to the Reference Emitter (RE). The total area of the waveform is divided by the total area of the Reference Emitter yielding the %RE. This %RE scales with the NAPL fluorescence. The fill color is based on relative contribution of each channel's area to the total waveform area (see callout waveform). The channel-to-color relationship and corresponding wavelengths are given in the upper right corner of the main plot.

Callouts :
Waveforms from selected depths or depth ranges showing the multi-wavelength waveform for that depth.

The four peaks are due to fluorescence at four wavelengths and referred to as “channels”. Each channel is assigned a color.

Various NAPLs will have a unique waveform "fingerprint" due to the relative amplitude of the four channels and/or broadening of one or more channels.

Basic waveform statistics and any operator notes are given below the callout.



Conductivity Plot :
The Electrical Conductivity (EC) of the soil can be logged simultaneously with the UVOST data. EC often provides insight into the stratigraphy.
Note the drop in EC from 10 - 13 ft, indicating a shift from consolidated to unconsolidated stratigraphy. This correlates with the observed NAPL distribution.

Rate Plot :
The rate of probe advancement. ~ 0.8in (2cm) per second is preferred.

A noticeable decrease in the rate of advancement may be indicative of difficult probing conditions (gravel, angular sands, etc.) such as that seen here at ~5 ft.

Notice that this log was terminated arbitrarily, not due to "refusal", which would have been indicated by a sudden rate drop at final depth.

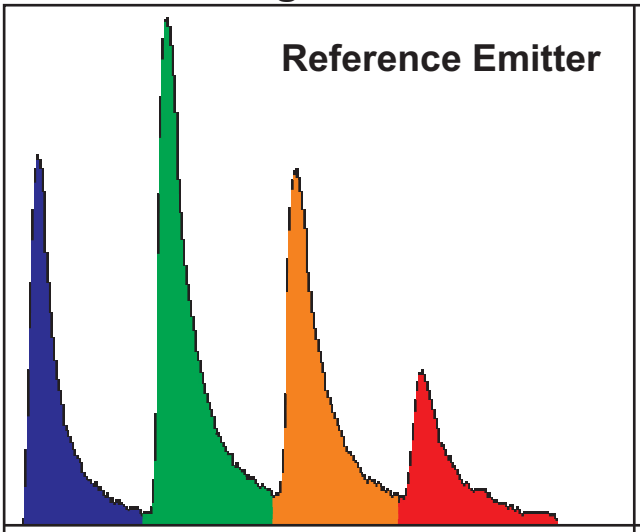
Info Box :
Contains pertinent log info including name and location.

Note A :
Time is along the x axis. No scale is given, but it is a consistent 320ns wide.
The y axis is in mV and directly corresponds to the amount of light striking the photodetector.

Note B :
These two waveforms are clearly different. The first is weathered diesel from the log itself while the second is the Reference Emitter (a blend of NAPLs) always taken before each log for calibration.

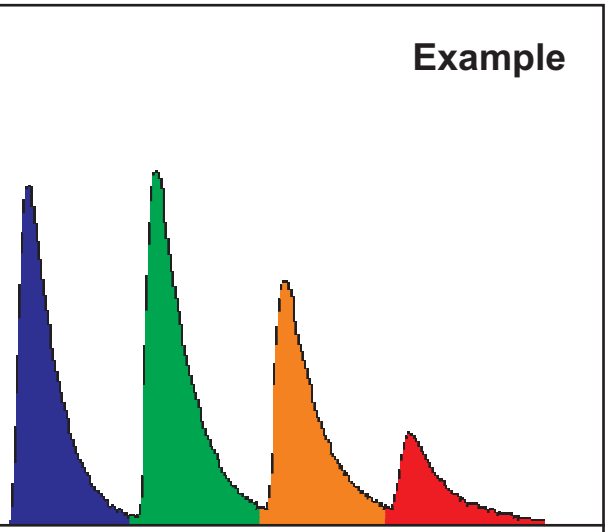
Note C :
Callouts can be a single depth (see 3rd callout) or a range (see 4th callout). The range is noted on the depth axis by a bold line. When the callout is a range, the average and standard deviation in %RE is given below the callout.

Waveform Signal Calculation



CH1		CH2		CH3		CH4		Total
4820	+	8108	+	6249	+	2984	=	**22161**
21.7		36.6		28.2		13.5		**100%**

Channel Area (pVs) Percent RE

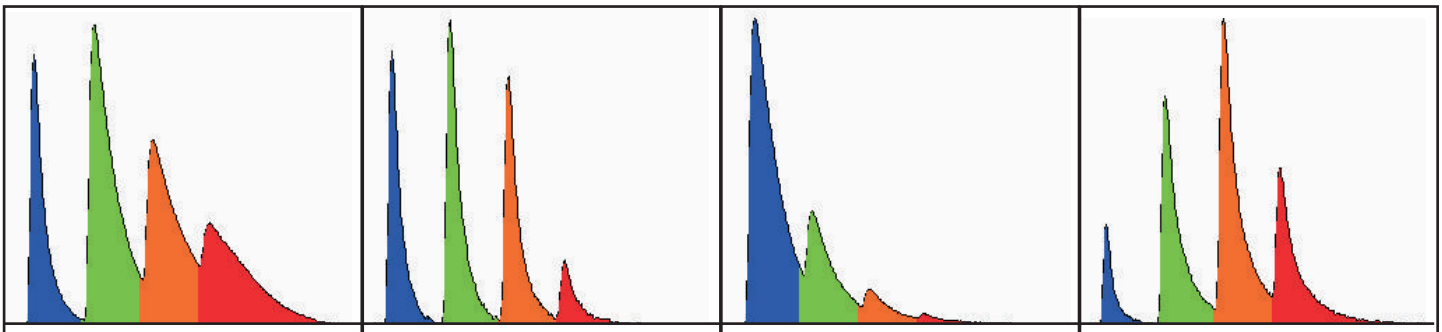


CH1		CH2		CH3		CH4		Total
4923	+	5743	+	4166	+	1735	=	**16587**
22.3		25.9		18.8		7.8		**75%**

Data Files

***.lif.raw.bin**	Raw data file. Header is ASCII format and contains information stored when the file was initially written (e.g. date, total depth, max signal, gps, etc., and any information entered by the operator). All raw waveforms are appended to the bottom of the file in a binary format.
***.lif.plt**	Stores the plot scheme history (e.g. callout depths) for associated Raw file. Transfer along with the Raw file in order to recall previous plots.
***.lif.jpg**	A jpg image of the OST log including the main signal vs. depth plot, callouts, information, etc.
***.lif.dat.txt**	Data export of a single Raw file. ASCII tab delimited format. No string header is provided for the columns (to make importing into other programs easier). Each row is a unique depth reading. The columns are: Depth, Total Signal (%RE), Ch1%, Ch2%, Ch3%, Ch4%, Rate, Conductivity Depth, Conductivity Signal, Hammer Rate. Summing channels 1 to 4 yields the Total Signal.
***.lif.sum.txt**	A summary file for a number of Raw files. ASCII tab delimited format. The file contains a string header. The summary includes one row for each Raw file and contains information for each file including: the file name, gps coordinates, max depth, max signal, and depth at which the max signal occured.
***.lif.log.txt**	An activity log generated automatically located in the OST application directory in the 'log' subfolder. Each OST unit the computer operates will generate a separate log file per month. A log file contains much of the header information contained within each separate Raw file, including: date, total depth, max signal, etc.

Common Waveforms (highly dependent on soil, weathering, etc.)



Diesel	Gas	Kerosene	Motor Oil

Cone Penetration Test Sounding Summary

-Table 1-

CPT Sounding Identification	Date	Termination Depth (feet)	Depth of Groundwater Samples (feet)	Depth of Soil Samples (feet)	Depth of Pore Pressure Dissipation Tests (feet)
SAIA-CPT-21	6/14/16	117	-	-	-
SAIA-CPT-22	6/14/16	98	-	-	70.9

Bibliography

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Roberston, P.K., "Soil Classification using the Cone Penetration Test", Canadian Geotechnical Journal, Vol. 27, 1990 pp. 151-158.

Mayne, P.W., "NHI (2002) Manual on Subsurface Investigations: Geotechnical Site Characterization", available through www.ce.gatech.edu/~geosys/Faculty/Mayne/papers/index.html, Section 5.3, pp. 107-112.

Robertson, P.K., R.G. Campanella, D. Gillespie and A. Rice, "Seismic CPT to Measure In-Situ Shear Wave Velocity", Journal of Geotechnical Engineering ASCE, Vol. 112, No. 8, 1986 pp. 791-803.

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Campanella, R.G. and I. Weemees, "Development and Use of An Electrical Resistivity Cone for Groundwater Contamination Studies", Canadian Geotechnical Journal, Vol. 27 No. 5, 1990 pp. 557-567.

DeGroot, D.J. and A.J. Lutenegger, "Reliability of Soil Gas Sampling and Characterization Techniques", International Site Characterization Conference - Atlanta, 1998.

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Zemo, D.A., T.A. Delfino, J.D. Gallinatti, V.A. Baker and L.R. Hilpert, "Field Comparison of Analytical Results from Discrete-Depth Groundwater Samplers" BAT EnviroProbe and QED HydroPunch, Sixth national Outdoor Action Conference, Las Vegas, Nevada Proceedings, 1992, pp 299-312.

Copies of ASTM Standards are available through www.astm.org

Project SAIA | Logged By E. Gilleva | **Boring No.** SAIA-SB1

Project Number 07163.0004 | Date Drilled 4/5/13 | Sheet 1 Of 1

Location Seam Masters | Total Depth 35' | Boring Location Sketch

Surface Elevation n/a | Boring Diameter 2" | N

Drillers Gregg Drilling

Method direct push

Depth (Feet)	Sample Interval	Blow Counts	PID (ppm) B-zone/stem/sample	Water Level	Well Construction	Lithology / USCS	DESCRIPTION
0.5							Poorly graded sand; loose; light brown & olive gray; dry; 95% fine sand; 5% fines.
2							No change.
5							Poorly graded sand; loose; brown & greenish gray; dry; mostly fine sand; trace fines.
15							Poorly graded sand; loose; yellowish brown & olive gray; damp; 90% fine sand; 10% fines.
25							Silty sand; med. stiff; light brown; damp; 50% fine sand; 50% fines. low plasticity.
35							Poorly graded sand; loose; olive gray & light gray; dry; 95% med to fine sand; 15% fines.

Casing Diameter _____ Casing Length _____ From _____ To _____

Screen Size _____ Screen Length _____ From _____ To _____

Sand Type _____ From _____ To _____

Bentonite Type _____ From _____ To _____

Cement/Grout _____ From _____ To _____

Surface Completion _____

ITS Innovative Technical Solutions, Inc.

Project SAIA | Logged By E. Gillera | **Boring No.** SAIA-SB03

Project Number 07163.0064 | Date Drilled 4/1/13 | Sheet 1 Of 1

Location Seam Masters | Total Depth 35'

Surface Elevation n/a | Boring Diameter 2"

Drillers Gregg Drilling

Method direct push

Boring Location Sketch

Depth (Feet)	Sample Interval	Blow Counts	PID (ppm) B-zone/stem/sample	Water Level	Well Construction	Lithology / USCS	DESCRIPTION
0.5							Poorly graded sand; loose; olive gray & dark gray; dry; mostly fine sands; trace fines.
2							No change.
5							Silty sand; med. stiff; olive gray; dry; 60 % fine sand; 40 % fines; low plasticity.
15							Silty sand; med. stiff; olive gray & dark gray; damp; 50 % fine sand; 50 % fines; low plasticity
25							No change.
35							Poorly graded sand; loose; light gray & olive gray; dry; 90 % fine sand; 10 % fines.

Casing Diameter _____ Casing Length _____ From _____ To _____

Screen Size _____ Screen Length _____ From _____ To _____

Sand Type _____ From _____ To _____

Bentonite Type _____ From _____ To _____

Cement/Grout _____ From _____ To _____

Surface Completion _____

ITSI Innovative Technical Solutions, Inc.

Project SAIA | Logged By E. Gilkey | **Boring No.** SAIA-SB4

Project Number 07163.0064 | Date Drilled 4/1/13 | Sheet 1 Of 1

Location Sam Masters | Total Depth 35'

Surface Elevation n/a | Boring Diameter 2"

Drillers Gregg Drilling

Method direct push

Boring Location Sketch

Depth (Feet)	Sample Interval	Blow Counts	PID (ppm) B-zone/stem/sample	Water Level	Well Construction	Lithology / USCS	DESCRIPTION
0.5							Poorly graded sand; loose; olive gray; dry; mostly fine sand; trace fines.
2							No change.
5							Poorly graded sand; loose; olive gray; dry 70% med to fine sand; 30% fines.
15							Silty sand; med. stiff; brown & dark gray; damp; mostly fine sand; 25% fines; med. plasticity.
25							Silty sand; soft; olive gray & dark gray; damp; 40% ~~first~~ fine sand; 40% fines; low plasticity.
35							No change.

Casing Diameter _____ Casing Length _____ From _____ To _____

Screen Size _____ Screen Length _____ From _____ To _____

Sand Type _____ From _____ To _____

Bentonite Type _____ From _____ To _____

Cement/Grout _____ From _____ To _____

Surface Completion _____

ITSI **Innovative Technical Solutions, Inc.**

Project SAIA | Logged By E. Gillera | **Boring No.** SAIA-SB6

Project Number 07163.0004 | Date Drilled 4/3/13 | Sheet 1 Of 1

Location Steam Masters | Total Depth 35'

Surface Elevation n/a | Boring Diameter 2"

Drillers Gregg Drilling

Method direct push

Boring Location Sketch

Depth (Feet)	Sample Interval	Blow Counts	PID (ppm) B-zone/stem/sample	Water Level	Well Construction	Lithology / USCS	DESCRIPTION
0.5							Moderately graded sand; loose; ~~tan~~ light gray to dark gray; dry; mostly sand, med. to fine; trace fines.
2							No change.
5							Poorly graded sand; loose; olive gray; dry; 75 % fine sand; 25 % fines.
15							silty sand; med. stiff; light gray; damp; 60 % fine sand; 40 % fines; med. plasticity.
25							Silty sand; med stiff; light gray to dark gray; moist; 70% fine sand; 30 % fines; med. plasticity.
35							Poorly graded sand; loose; olive gray & light gray; damp; 65 % fine sand.

Casing Diameter _____ Casing Length _____ From _____ To _____

Screen Size _____ Screen Length _____ From _____ To _____

Sand Type _____ From _____ To _____

Bentonite Type _____ From _____ To _____

Cement/Grout _____ From _____ To _____

Surface Completion _____

ITSI Innovative Technical Solutions, Inc.

Project SAIA | Logged By E. Gillera | **Boring No.** SAIA-SB8

Project Number 07163.0004 | Date Drilled 4/3/13 | Sheet 1 Of 1

Location Seam Masters | Total Depth 35'

Surface Elevation w/a | Boring Diameter 2"

Drillers Gregg Drilling

Method direct push

Boring Location Sketch

Depth (Feet)	Sample Interval	Blow Counts	PID (ppm) B-zone/stem/sample	Water Level	Well Construction	Lithology / USCS	DESCRIPTION
0.5							Poorly ~~sorted sand~~ graded sand: loose; olive gray; dry; 95 % fine sand; 5 % fines
2							Moderately graded sand; loose; light gray & light brown; dry; mostly sand, med. to fine; trace fines.
5							Poorly graded sand; loose; light gray & olive gray; dry; 60 % fine sand; 40 % fines.
15							Silty sand; med. stiff; light gray; damp; 60 % fine sand; 40 % fines; med. plasticity.
25							No change.
35							Poorly graded sand; loose; greenish gray & light brown; dry; 90 % med to fine sand; 10 % fines.

Casing Diameter _____ Casing Length _____ From _____ To _____

Screen Size _____ Screen Length _____ From _____ To _____

Sand Type _____ From _____ To _____

Bentonite Type _____ From _____ To _____

Cement/Grout _____ From _____ To _____

Surface Completion _____

ITSI Innovative Technical Solutions, Inc.

Project SAIA | Logged By E. Gillera | **Boring No.** SAIA-SB9

Project Number 07163.0064 | Date Drilled 4/5/13 | Sheet 1 Of 1

Location Seam Masters | Total Depth 35'

Surface Elevation w/a | Boring Diameter 2"

Drillers Gregg Drilling

Method direct push

Boring Location Sketch

Depth (Feet)	Sample Interval	Blow Counts	PID (ppm) B-zone/stem/sample	Water Level	Well Construction	Lithology / USCS	DESCRIPTION
0.5							Poorly graded sand; loose; dark gray; dry; Mostly sand, fine; trace fines.
2							No change
5							No change
15							Poorly graded sand; loose; olive gray; dry; 80% fine sand; 20% fines.
25							Poorly graded sand; loose; olive gray & greenish gray; damp; 70% fine sand; 30% fines.
35							Poorly graded sand; loose; olive gray; dry; 75% fine sand; 25% fines.

Casing Diameter _____ Casing Length _____ From _____ To _____

Screen Size _____ Screen Length _____ From _____ To _____

Sand Type _____ From _____ To _____

Bentonite Type _____ From _____ To _____

Cement/Grout _____ From _____ To _____

Surface Completion _____

ITSI Innovative Technical Solutions, Inc.

Project SAIA | Logged By E. Gillens | **Boring No.** SAIA-SB10

Project Number 07163.0064 | Date Drilled 4/5/13 | Sheet 1 Of 1

Location Seam Masters | Total Depth 35'

Surface Elevation w/g | Boring Diameter 2"

Drillers Gregg Drilling

Method direct push

Boring Location Sketch

Depth (Feet)	Sample Interval	Blow Counts	PID (ppm) B-zone/stem/sample	Water Level	Well Construction	Lithology / USCS	DESCRIPTION
0.5							Poorly graded sand; loose; olive gray & light gray; dry; mostly sand, fine; trace fines.
2							No change.
5							No change.
15							Silty sand; med. stiff; olive gray; damp; mostly fines; some fine sand; med. plasticity.
25							No change.
35							Poorly-sorted sand; loose; greenish gray; damp to moist; 90% fine sand; 10% fines.

Casing Diameter _____ Casing Length _____ From _____ To _____

Screen Size _____ Screen Length _____ From _____ To _____

Sand Type _____ From _____ To _____

Bentonite Type _____ From _____ To _____

Cement/Grout _____ From _____ To _____

Surface Completion _____

ITSI Innovative Technical Solutions, Inc.

Project SAIA | Logged By E. Cilleros | **Boring No.** SAIA-SB11

Project Number 07163.0004 | Date Drilled 4/3/13 | Sheet 1 Of 1

Location Seam Masters | Total Depth 35' | Boring Location Sketch

Surface Elevation n/a | Boring Diameter 2" | N

Drillers Gregg Drilling

Method direct push

Depth (Feet)	Sample Interval	Blow Counts	PID (ppm) B-zone/stem/sample	Water Level	Well Construction	Lithology / USCS	DESCRIPTION
0.5							Poorly graded sand; loose; yellowish brown & dark gray; dry; 95 %. med to fine sand; trace fines.
2							No change.
5							No change.
15							Poorly graded sand; loose; olive gray & dark brown; damp; 80 %. sand, fine; 20 %. fines.
25							Silty sand: med stiff; olive gray & light gray; moist; mostly fines; some fine sand; med. plasticity.
35							Poorly graded sand; loose; olive gray & light brown; damp; 90 %. fine sand; 10 %. fines.

Casing Diameter _____ Casing Length _____ From _____ To _____

Screen Size _____ Screen Length _____ From _____ To _____

Sand Type _____ From _____ To _____

Bentonite Type _____ From _____ To _____

Cement/Grout _____ From _____ To _____

Surface Completion _____

ITSI Innovative Technical Solutions, Inc.

Gilbane

Soils Log Form

Boring No.: SAIA - SB/SG 19

Project: SAIA RI/FS | Project No.: 07163.0064.FJ0301 | Page 1 of 1

Client: U.S. EPA | Start Date: 4/16/14 | Logged By: P. PHILLIPS

Location: SOUTH GATE, CA. | Completion Date: 4/16/14 | Reviewed By:

Depth	Sampled Interval: Driven	Sampled Interval: Blows /	Sampled Interval: Recovery	OVA: X PID / FID	Grain Size & Distribution (to nearest 5 %): % fines	% sand: f	% sand: m	% sand: c	% gravel: f	% gravel: c	max size	Remarks: Visual/Manual description of soil (ASTM D 2488 / USBR 5005). Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.: Annulus	Well Const.: Casing
0-4'												CONCRETE (5" THICK)		SCH	
4												LIGHT YELLOWISH BROWN (2.5Y 6/4) SILTY SAND. VERY FINE TO FINE GRAINED, MODERATELY WELL SORTED, WELL ROUNDED TO SUB-ANGULAR, CLEAR, MILKY AND FROSTED QUARTZ, BIOTITE, CHERT, FELDSPAR. DRY	SP	4.5	
														5.0	
12'				0.7								DARK GREENISH GRAY (GLEY 1 4/1) SILTY SAND. VERY FINE TO FINE GRAINED, MODERATELY SORTED, WELL ROUNDED TO SUB-ROUNDED. CLEAR, MILKY AND FROSTED QUARTZ, BIOTITE, CHERT, STRONG PETROLEUM ODOR, STAINED SOIL. MOIST	SP	14.5	
				3.9										15.0	
17'				32.4								SAA (BAGGED BULK SOIL SAMPLE - 32.4 PPM)			
22'												SAA WITH INCREASE IN SILT AND DECREASE IN PETROLEUM ODOR		24.5	
														25.0	
26'												DARK GREENISH GRAY (GLEY 1 4/1) SANDY CLAY. ELASTIC, MEDIUM STIFF. SLIGHT TO MODERATE PETROLEUM ODOR. MOIST	CL		
31'												GREENISH GRAY (GLEY 1 5/1) SILTY SAND. VERY FINE GRAINED, VERY WELL SORTED, WELL ROUNDED TO SUB-ANGULAR. CLEAR, SMOKEY AND FROSTED QUARTZ, BIOTITE, CHERT, FELDSPAR, ULTRAMAFICS, SLIGHT PETROLEUM ODOR. VERY MOIST	SP		
														34.5	
														35.0	
35												PALE GREEN (GLEY 1 6/2) SAND. VERY FINE GRAINED, VERY WELL SORTED, SUB-ANGULAR TO SUB-ROUNDED. CLEAR, MILKY, FROSTED QUARTZ, BIOTITE, CHERT, MAFICS. SLIGHT PETROLEUM ODOR. VERY MOIST	SP		

Signature (logging geologist): _____ Date: 4/21/14

Signature (reviewer): _____ Date: 4/23/14

Gilbane

Soils Log Form

Boring No.	SAIA - SB/SG 20

Project: SAIA RI/FS Project No.: 07163.0064.FI0301 Page 1 of 1

Client: U.S. EPA Start Date: 4/18/14 Logged By: P. PHILLIPS

Location: SOUTH GATE, CA. Completion Date: 4/18/14 Reviewed By:

Depth	Sampled Interval: Driven	Sampled Interval: Blows /	Sampled Interval: Recovery	OVA (X PID / FID)	Grain Size & Distribution (to nearest 5 %): % fines	% sand: f	% sand: m	% sand: c	% gravel: f	% gravel: c	max size	Remarks: Visual/Manual description of soil (ASTM D 2488 / USBR 5005). Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.: Annulus	Well Const.: Casing
0												CONCRETE (3" THICK)			SCN
8"				2.3								DARK GRAY (GLEY1 5/1) GRAVELLY SAND. VERY COARSE GRAINED SAND TO COARSE PEBBLE GRAVEL CLASTS. VERY STRONG PETROLEUM ODOR. TAR STAINING ON GRAVEL CLASTS. DRY	GP		
5'				79.8								GREENISH GRAY (GLEY1 5/1) SILTY SAND; FINE TO VERY FINE GRAINED, MODERATELY SORTED, WELL ROUNDED. CLEAR, MILKY, FROSTED AND SMOKEY QUARTZ, BIOTITE, CHERT, ULTRA MAFICS. EVIDENCE OF PETROLEUM STAINING AND ODOR. MOIST (BAGGED BULK SOIL SAMPLE 79.8 PPM)	SP	4.5	5.0
10'												SAA WITH PERSISTANCE OF PETROLEUM ODOR			
15'														14.5	
17'												SAA WITH INCREASE IN SILT AND PERSISTANCE OF PETROLEUM ODOR. DARK GREENISH GRAY (GLEY1 4/1) SILTY CLAY, FIRM, MEDIUM PLASTIC. STRONG PETROLEUM ODOR. VERY MOIST	CL	15.0	
22'				140.7								SAA WITH CONTINUED PERSISTANCE OF PETROLEUM CONTAMINATION (BAGGED BULK SOIL SAMPLE 140.7 PPM)			
26'				12.9								OLIVE BROWN (2.5Y 4/4) TO GRAYISH BROWN (2.5Y 5/2) SAND. VERY FINE GRAINED, WELL ROUNDED TO SUB-ANGULAR. CLEAR, MILKY, SMOKEY AND FROSTED QUARTZ, BIOTITE, CHERT, MAFICS AND ULTRA MAFICS. SLIGHT DECREASE IN PETROLEUM ODOR. VERY MOIST (BAGGED BULK SOIL SAMPLE 12.9 PPM)	SP	24.5	25.0
35'												SAA, VERY MOIST	34.5		35.0

Signature (logging geologist): [signature] Date: 4/21/14

Signature (reviewer): [signature] Date: 4/23/14

Gilbane

Soils Log Form

Boring No.	SAIA - SB/SG21

Project: SAIA RI/FS Project No.: 07163.0064.FI0301 Page 1 of 1

Client: U.S. EPA Start Date: 4/18/14 Logged By: P. PHILLIPS

Location: SOUTH GATE, CA. Completion Date: 4/18/14 Reviewed By:

Depth	Sampled Interval: Driven	Sampled Interval: Blows /	Sampled Interval: Recovery	OVA (PID / FID)	Grain Size & Distribution (to nearest 5 %): % fines	% sand: f	% sand: m	% sand: c	% gravel: f	% gravel: c	max size	Remarks	Group Symbol	Well Const.: Annulus	Well Const.: Casing
												Visual/Manual description of soil (ASTM D 2488 / USBR 5005). Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.		SCH	N
0												REDDISH BROWN (5YR 4/4) SILTY SAND. MEDIUM TO VERY COARSE GRAINED, VERY POORLY SORTED. CLEAR, MILKY, SMOKY QUARTZ, BIOTITE, ULTRA MAFICS WITH COMMON IRON STAINING. MINOR AMOUNTS TO TRACE AMOUNTS OF CLAY, VERY MOIST.	SP		
														4.5	
5'												OLIVE BROWN (2.5Y 4/4) SILTY SAND. FINE TO VERY FINE GRAINED, MODERATELY TO SUB-ROUNDED. CLEAR, MILKY AND SMOKEY QUARTZ, BIOTITE, CHERT, ULTRA MAFICS. SLIGHTLY MOIST	SP	5.0	
11'				39.7								SAA WITH STRONG PETROLEUM ODOR (BAGGED SAMPLE 39.7 PPM			
16'														14.5	
												GREENISH GRAY (GLEY1 5/1) SILT. FIRM, MOIST. STRONG PETROLEUM ODOR	ML	15.0	
				29.1								(BAGGED BULK SOIL SAMPLE 29.1 PPM)			
21'												SAA WITH PRESENCE OF CLAY IN MODERATELY MINOR AMOUNTS. STRONG PETROLEUM ODOR			
26'												SAA		24.5	
31'												GREENISH GRAY (GLEY1 5/1) SAND. VERY FINE TO FINE GRAINED, SUB-ANGULAR TO ROUNDED. CLEAR, MILKY QUARTZ, BIOTITE, CHERT, ULTRA MAFICS, FELDSPAR. CONTINUED EVIDENCE OF PETROLEUM CONTAMINATION.	SP	25.0	
35'				4.3								SAA WITH SIGNIFICANT DECREASE IN PETROLEUM ODOR.		34.5	
														35.0	

Signature (logging geologist): [signature] Date: 4/21/14

Signature (reviewer): [signature] Date: 4/23/14

Gilbane

Soils Log Form

Boring No.	SAIA - SB/SG22

Project: SAIA RI/FS Project No.: 07163.0064.FI0301 Page 1 of 1

Client: U.S. EPA Start Date: 4/18/14 Logged By: P. PHILLIPS

Location: SOUTH GATE, CA. Completion Date: 4/18/14 Reviewed By:

Depth	Sampled Interval: Driven	Sampled Interval: Blows /	Sampled Interval: Recovery	OVA: PID / FID	Grain Size & Distribution (to nearest 5 %): % fines	% sand: f	% sand: m	% sand: c	% gravel: f	% gravel: c	max size	Remarks	Group Symbol	Well Const.: Annulus	Well Const.: Casing
0												CONCRETE			
6"				53.7								GREENISH GRAY (GLEY 1 5/1) SILTY SAND. MEDIUM TO VERY FINE GRAINED, POORLY SORTED, ANGULAR TO SUB-ROUND. CLEAR, MILKY AND SMOKEY QUARTZ, BIOTITE, CHERT, ULTRA MAFICS. STRONG PETROLEUM ODOR. (BAGGED BULK SOIL SAMPLE 53.7 PPM)	SP	4.5	5.0
7'												OLIVE BROWN (2.5Y 4/4) SILTY SAND. MEDIUM TO VERY FINE GRAINED, POORLY SORTED, SUB-ANGULAR TO ROUND, CLEAR AND MILKY QUARTZ, BIOTITE, CHERT, MAFICS, FELDSPAR, MOIST	SP		
12'												SAA		14.5	15.0
15'												GREENISH GRAY (GLEY 1 5/1) SANDY SILT. FIRM TO STIFF WITH SLIGHTLY PLASTIC CLAY	ML		
20'												SAA WITH DECREASE IN SAND AND INCREASE IN CLAY			
25'												SAA W/ INCREASE IN SAND		24.5	25.0
26'												GRAY (2.5Y 5/1) CLAY. MEDIUM PLASTIC, FIRM, VERY MOIST	CL		
30'												GREENISH GRAY (GLEY 1 5/1) SAND. VERY FINE GRAINED, WELL SORTED, SUB-ANGULAR TO WELL ROUNDED, CLEAR, MILKY, FROSTED QUARTZ, BIOTITE, CHERT. MOIST TO VERY MOIST	SP	34.5	35.0
35'												SAA			

Signature (logging geologist): [signature] Date: 4/21/14

Signature (reviewer): [signature] Date: 4/23/14

Gilbane

Soils Log Form

Boring No.	SAIA - SB/SG23

Project: SAIA RI/FS Project No.: 07163.0064.FI0301 Page 1 of 1

Client: U.S. EPA Start Date: 4/14/14 Logged By: P. PHILLIPS

Location: SOUTH GATE, CA. Completion Date: 4/14/14 Reviewed By:

Depth	Sampled Interval: Driven	Sampled Interval: Blows /	Sampled Interval: Recovery	OVA: X PID / FID	Grain Size & Distribution (to nearest 5 %): % fines	% sand: f	% sand: m	% sand: c	% gravel: f	% gravel: c	max size	Remarks: Visual/Manual description of soil (ASTM D 2488 / USBR 5005). Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.: Annulus	Well Const.: Casing
0												CONCRETE (8" THICK)	SW		SCH
8"												OLIVE BROWN (2.5 Y 4/4) SILTY SAND. VERY FINE TO MEDIUM GRAINED, WELL ROUNDED TO SUB-ANGULAR, WELL SORTED. CLEAR AND MILKY QUARTZ, BIOTITE, ULTRA MAFICS, FELDSPAR. SLIGHTLY MOIST.			4.5
															5.0
5'												SAA			
10'												SAA			
16'												OLIVE BROWN (2.5Y 4/4) CLAYEY SILT. SOFT TO MEDIUM FIRM. VERY MOIST	ML		14.5
															15.0
19'												DARK GRAYISH BROWN (2.5 Y 4/2) SILTY CLAY. MEDIUM PLASTIC, FIRM. VERY MOIST	CL		
24'												SAA			24.5
25'															25.0
												GRAYISH BROWN (2.5 Y 5/2) CLAYEY, SANDY SILT	ML		
31'												GRAY (2.5 Y 4/1) SAND. VERY FINE TO FINE GRAINED, MODERATELY WELL SORTED, SUB-ANGULAR TO ROUNDED. CLEAR, MILKY, FROSTED QUARTZ, BIOTITE, ULTRA MAFICS, MOIST	SP		
35'												SAA			34.5
															35.0

Signature (logging geologist): [signature] Date: 4/21/14

Signature (reviewer): [signature] Date: 4/23/14

Gilbane

Soils Log Form

Boring No.: SAIA - SB/SG Z4

Project: SAIA RI/FS | Project No.: 07163.0064.FI0301 | Page 1 of 1

Client: U.S. EPA | Start Date: 4/16/14 | Logged By: P. PHILLIPS

Location: SOUTH GATE, CA. | Completion Date: 4/16/14 | Reviewed By:

Depth	Sampled Interval: Driven	Sampled Interval: Blows /	Sampled Interval: Recovery	OVA: X PID / FID	Grain Size & Distribution (to nearest 5 %): % fines	% sand: f	% sand: m	% sand: c	% gravel: f	% gravel: c	max size	Remarks: Visual/Manual description of soil (ASTM D 2488 / USBR 5005). Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.: Annulus	Well Const.: Casing
41.2												CONCRETE (3" THICK)			SCN
+1												OLIVE BROWN (2.5Y 5/6) SILTY SAND, VERY FINE TO FINE GRAINED, MODERATELY-WELL SORTED, WELL ROUNDED TO ROUNDED. CLEAR, MILKY AND FROSTED QUARTZ, BIOTITE, CHERT, ULTRAMAFICS. SLIGHTLY MOIST	SP		
—														4.5	
—														5.0	
41												SAA			
9'												SAA			
14'												SAA WITH INCREASE IN MOISTURE AND COLOR CHANGE TO BROWN (10YR 5/3) AND GREENISH GRAY (GLEY 1 5/1)		14.5	
—														15.0	
19'												GREENISH GRAY (GLEY 1 5/1) SILTY CLAY, FIRM, MEDIUM PLASTIC, VERY MOIST	CL		
24'														24.5	
29'												SAA		25.0	
—												GRAYISH BROWN (10YR 5/2) SAND, VERY FINE GRAINED, WELL ROUNDED, WELL SORTED. CLEAR AND MILKY QUARTZ, BIOTITE, ULTRA MAFICS. VERY MOIST	SP		
—															
35'												SAA		34.5	
—														35.0	
—															
—															
—															
—															
—															
—															
—															

Signature (logging geologist): _____ Date: 4/21/14

Signature (reviewer): _____ Date: 4/23/14

Gilbane

Soils Log Form

Boring No.	SAIA - SB/SG 25

Project: SAIA RI/FS Project No.: 07163.0064.FI0301 Page 1 of 1

Client: U.S. EPA Start Date: 4/14/14 Logged By: P. PHILLIPS

Location: SOUTH GATE, CA. Completion Date: 4/14/14 Reviewed By:

Depth	Sampled Interval: Driven / Blows / Recovery	OVA: X PID / FID	Grain Size & Distribution (to nearest 5 %): % fines; % sand (f, m, c); % gravel (f, c); max size	Remarks: Visual/Manual description of soil (ASTM D 2488 / USBR 5005). Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.: Annulus / Casing
0				CONCRETE (6" THICK)		SCN
4"				LIGHT OLIVE BROWN (2.5Y 5/6) SILTY SAND. VERY FINE TO FINE GRAINED, MODERATELY TO WELL ROUNDED, MODERATELY-WELL SORTED. CLEAR AND SMOKEY QUARTZ, BIOTITE, ULTRA MAFICS, CHERT, FELDSPAR. MOIST	SP	4.5 / 5.0
5'				SAA		
9'				OLIVE GRAY (5Y 5/2) TO GRAYISH BROWN (2.5Y 5/2) CLAYEY SILT / SILTY CLAY. SLIGHTLY PLASTIC, FIRM, MOIST	ML/CL	
17'				SAA		14.5 / 15.0
18'				GRAYISH BROWN (2.5Y 5/2) SILTY CLAY. PLASTIC, FIRM, MOIST	CL	
21'				DARK GRAY (2.5Y 4/1) SILTY SAND. VERY FINE GRAINED, WELL ROUNDED, WELL SORTED. CLEAR, SMOKEY, MILKY AND FROSTED QUARTZ, BIOTITE, MAFICS, CHERT. MOIST	SP	24.5 / 25.0
25'				DARK GRAY (2.5Y 4/1) CLAYEY, SANDY SILT.	ML	
32'				GRAY (2.5Y 5/1) SAND. VERY FINE GRAINED, WELL SORTED, WELL ROUNDED TO SUB-ANGULAR. CLEAR AND MILKY QUARTZ, BIOTITE, CHERT. VERY MOIST		34.5 / 35.0
35'				SAA		

Signature (logging geologist): _____ Date: 4/21/14

Signature (reviewer): _____ Date: 4/23/14

Gilbane

Soils Log Form

Boring No.	SAIA-SB/SG26

Project: SAIA RI/FS Project No.: 87163.0064.FI0301 Page 1 of 1

Client: US EPA Start Date: 4/16/14 Logged By: PJP

Location: SOUTH GATE, CA. Completion Date: Reviewed By:

Depth	Sampled Interval: Driven	Sampled Interval: Blows /	Sampled Interval: Recovery	OVA (__PID __FID)	Grain Size & Distribution (to nearest 5 %): % fines	% sand: f	% sand: m	% sand: c	% gravel: f	% gravel: c	max size	Remarks: Visual/Manual description of soil (ASTM D 2488 / USBR 5005). Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.: Annulus	Well Const.: Casing
+1.5'												CONCRETE			
+1												YELLOWISH BRN (10YR 5/4) SILTY SAND. VF TO FG., MOD. WELL SORTED, WELL RND., CLR, MILKY & FROSTED QTZ, BIOT, IC-SMR MOIST			
5'												SAA W/↑ MOISTURE			
11'												GRNISH BRN (10YR 5/2) SILTY SAND VF TO FG. MOD WELL SORTED, WELL RND, LITH AS ABOVE, VERY MOIST			
16												SAA W/ M. YELLOWISH BRN. MOTTLES, V. MOIST			
21												SAA W/ LOW ↑ MOISTURE AND FE STAINING			
23												GREENISH DK GRAY (GLEY 1 3/1) SILTY CLAY/ CLAYEY SILT. V. SL PLASTIC, FIRM, V MOIST. W/ MOD. COMMON FE STAINING AND LT GRAY MOTTLES			
28												SAA W/ ↑ SILT & FE STAINING & SATURATED CONDITIONS			

Signature (logging geologist): [signature] Date: 4/21/14

Signature (reviewer): [signature] Date: 4/23/14

Gilbane

Soils Log Form

Boring No.: SAIA - SB/6527

Project: SAIA BI/FS | Project No.: 0763.006k.F03D | Page 1 of 1

Client: US EPA | Start Date: 4/14/14 | Logged By: PJD

Location: South Gate CA. | Completion Date: 4/14/14 | Reviewed By:

Depth	Sampled Interval: Driven	Sampled Interval: Blows /	Sampled Interval: Recovery	OVA: PID / FID	Grain Size & Distribution (to nearest 5 %): % fines	% sand: f	% sand: m	% sand: c	% gravel: f	% gravel: c	max size	Remarks: Visual/Manual description of soil (ASTM D 2488 / USBR 5005). Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.: Annulus	Well Const.: Casing
0												CONCRETE			
4'												GRAYISH BRN (10 YR 5/2-5/3) SILTY SAND, VF TO FG, MOD. SORTED, MOD W RND. BIOT, CLEAR & MILKY QTZ, ULTRA MAFICS, SLIGHTLY MOIST			
2'												BRN (7.5YR 5/3) SILTY SAND / SANDY SILT, VFG, WELL SORTED, CLEAR AND MILKY QTZ., BIOT, CHERT, MINOR IRON STAINING, MOIST			
7'												SAA			
12'												SAA W/ ↑ MOISTURE AND SILT			
17'												SAA W/ ↑ SILT & CLAY			
18'												DK GRAYISH BRN (2.5Y 4/1) SILTY CLAY / CLAYEY SILT, MOD. PLASTIC, MOD FIRM, LOW PLASTICITY, MOD TO COMMON IRON STAINING, MODERATELY MOIST TO MOIST			
24"												MED. BRN (7.5 YR 5/3) SILTY SAND / SANDY SILT. VFG, V. WELL SORTED, CLR & MILKY QTZ., BIOT., ULTRA MAFICS, V SL MOIST			
24'												GREENISH GRAY (5GY1 5/1-5/2) CLAYEY SILT. MOIST, BIOT., ULTRA MAFICS, CLR, MILKY, FROSTED QTZ.			
28'												M GRAY (5GY1 6/—) SAND. VW RND, VW SORTED, MILKY, CLR & FROSTED QTZ., CHERT, BIOT. KSPAR ULTRAMAFICS, V SL MOIST			
35'												SAA			

Signature (logging geologist): [signature] Date: 4/21/14

Signature (reviewer): [signature] Date: 4/23/14

Gilbane

Soils Log Form

Boring No.: SAIA - SB/SG 28

Project: SAIA RI/FS | Project No.: 07163.0064.FI0301 | Page 1 of 1

Client: U.S. EPA | Start Date: 4/14/14 | Logged By: P. PHILLIPS

Location: SOUTH GATE, CA. | Completion Date: 4/14/14 | Reviewed By:

Depth	Sampled Interval: Driven	Blows /	Recovery	OVA: PID / FID	Grain Size & Distribution (to nearest 5 %): % fines	% sand: f	m	c	% gravel: f	c	max size	Remarks: Visual/Manual description of soil (ASTM D 2488 / USBR 5005). Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.: Annulus	Casing
0												CONCRETE			
4"												LT. YELLOWISH BROWN (2.5Y 6/4) SAND. VFG WELL SORTED, SLIGHTLY SILTY; CLEAR, FROSTED AND MILKY QUARTZ, BIOTITE, FELDSPAR, CHERT; VERY SLIGHTLY MOIST W/ IRON STAINING			
5'												SAA			
9'												SAA W/ ↑ SILT AND MOISTURE			
14'												DARK GREENISH GRAY (GLEY1 4/1) CLAYEY SILT/SILTY CLAY. MODERATE TO SLIGHTLY PLASTIC, FIRM, MODERATELY MOIST.			
19'												SAA			
21'												DARK GREENISH GRAY (GLEY 1 4/1) CLAYEY SILT. ABUNDANT BIOTITE AND MAFICS, MOIST TO MODERATELY MOIST			
26'												SAA			
29'												GRAY (2.5Y 6/-) SAND. VFG TO FG, MOD.-WELL SORTED, WELL ROUNDED; CLEAR, FROSTY AND MILKY QUARTZ, BIOTITE, CHERT, FELDSPAR, MINOR ULTRA MAFICS; SLIGHTLY MOIST			
35'												SAA W/ ↑ MOISTURE			

Signature (logging geologist): [signature] Date: 4/14/14

Signature (reviewer): [signature] Date: 4/23/14

Gilbane

Soils Log Form

Boring No.	SAIA SB/SG29

Project: SAIA RI/FS Project No.: 07163.0064.FI0301 Page 1 of 1

Client: US EPA Start Date: 4/16/14 Logged By: PJP

Location: SOUTH GATE, CA. Completion Date: 4/16/14 Reviewed By:

Depth	Sampled Interval: Driven	Sampled Interval: Blows /	Sampled Interval: Recovery	OVA: PID / FID	Grain Size & Distribution (to nearest 5 %): % fines	% sand: f	% sand: m	% sand: c	% gravel: f	% gravel: c	max size	Remarks: Visual/Manual description of soil (ASTM D 2488 / USBR 5005). Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.: Annulus	Well Const.: Casing
+1.5												YELLOWISH BRN TO MED REDDISH BRN (5YR 4/4) GRAVELLY SAND. MG TO VFG, V. POORLY SORTED ANG TO VW RND. CLR, SMOKY & FROSTED QTZ, BIOT, ULTRA MAFICS, CHERT. & UNIDENTIFIABLE QDBL GVL CLASTS			
4															
9'												SAA			
12'												MA. DK BRNISH GRAY / GRAYISH BRN (10YR 5/2) SILTY SAND. QTZ., BIOT, ULTRA MAFICS, V. MOIST			
17'												SAA W/ SIG. ↑ MOISTURE			
18'												GREENISH GRAY (GLEY 1 5/1) SILTY CLAY. M. PLSTIC., FIRM, MOD. DILATANCY, MOIST			
23												GREENISH TO YELLOWISH BRN (2.5Y 6/4) SILTY SAND. VFG., W SORTED, WELL RND. CLR, MILKY, FROSTED QTZ., BIOT., ULTRA MAFICS, K-SPAR, MOD. MOIST			
26												GREENISH GRAY (GLEY 1 5/1) SILTY SAND/ SAND & SILT. VFG, V WELL SORTED, WELL RND. W/ FE STAINING AND DESICATED LT GRAY VFG SS RK CLASTS. MOIST			
28												YELLOWISH BRN (10YR 5/6) SILTY SAND. VERY FG, W RND, VW SORTED, CLR, FROSTED, SMOKY QTZ, BIOT., K-SPAR, ULTRA MAFICS CHERT, MODERATELY TO SL. MOIST			
35												SAA			

Signature (logging geologist): [signature] Date: 4/16/14

Signature (reviewer): [signature] Date: 4/24/14

Gilbane

Soils Log Form

Boring No.: SAIA - GB/SG 30

Project: SAIA RI/FS | Project No.: 07163.0064.F10301 | Page 1 of 1

Client: US EPA | Start Date: 4/15/14 | Logged By: PSP

Location: South Gate, CA. | Completion Date: 4/15/14 | Reviewed By:

Depth	Sampled Interval: Driven	Sampled Interval: Blows /	Sampled Interval: Recovery	OVA (__ PID __ FID)	Grain Size & Distribution (to nearest 5 %): % fines	% sand: f	% sand: m	% sand: c	% gravel: f	% gravel: c	max size	Remarks: Visual/Manual description of soil (ASTM D 2488 / USBR 5005). Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.: Annulus	Well Const.: Casing
3"												ASPHALT			
5												M BRN (10YR 5/4) SILTY SAND. VFG. W RND, VW SORTED, MILKY, CLR, FROSTED QTZ., BIOT, ULTRA MAFICS			
9												SAA W/ SL ↑ MOISTURE			
14'												SAA W/ CONT. ↑ MOISTURE			
19'												SAA W/ SL. ↑ IN SILT			
23												GRAYISH BRN (10YR 5/2) SANDY SILT. MOD ABUNDANT VFG, W RND. SAND, BIOT.			
30												M BRN (10YR 4/3) SILTY SAND. VFG. W RND, VW SORTED; BIOT. CLR, FROSTED & SMOKEY QTZ., CHERT., K-SPAR'			
35												SAA			

Signature (logging geologist): [signature] Date: 4/15/14

Signature (reviewer): [signature] Date: 4/24/14

Gilbane

Soils Log Form

Boring No.	SAIA-SB/SG31

Project: SAIA RI/FS | Project No.: 07163.0064.FI0801 | Page 1 of 1

Client: US EPA | Start Date: 4/15/14 | Logged By: PJP

Location: South Gate, CA. | Completion Date: 4/15/14 | Reviewed By:

Depth	Sampled Interval: Driven	Sampled Interval: Blows /	Sampled Interval: Recovery	OVA (PID / FID)	Grain Size & Distribution (to nearest 5 %): % fines	% sand: f	% sand: m	% sand: c	% gravel: f	% gravel: c	max size	Remarks: Visual/Manual description of soil (ASTM D 2488 / USBR 5005). Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.: Annulus	Well Const.: Casing
5''												ASPHALT			
5'												GREENISH BRN (10YR 5/2) SILTY SAND, VFG, WELL TO MOD WELL RND, MOD SORTED, CLR, FROSTED MILKY QTZ, BIOT, ULTRAMAFICS, MOIST			
—															
9												SAA			
13												SAA w/ ↑ MOISTURE AND SILT			
17'												SAA w/ CONT ↑ MOISTURE ↑ SILT, SOME FE STAINING			
—															
19'												GRAYISH BRN (10YR 4/2) CLAYEY SILT / SILTY CLAY, FIRM, SL TO MOD PLASTIC, MED. DILATANCY, MOD MOIST w/ STREAKED TO MOTTLED FE STAINS			
—															
24												GRAYISH BRN (10YR 4/2) SILTY SAND, VFG, V W SORTED, W RND., CLR., FROSTED / SMOKY QTZ., BIOT., CHERT, MAFICS, MOD. MOIST			
26'												SAA w/ ↓ SILT			
—															
34	33											SAA			
35'												SAA w/ CONT. ↓ SILT TO < 20%			
—															
—															
—															
—															
—															
—															

Signature (logging geologist): [signature] Date: 4/15/14

Signature (reviewer): [signature] Date: 4/29/14

Gilbane

Soils Log Form

Boring No.	SAIA - SB/SG32

Project: SAIA RI/FS Project No.: 07163.0064.F10301 Page 1 of 1

Client: US EPA Start Date: 4/15/14 Logged By: PJP

Location: SOUTH GATE, CA. Completion Date: 4/15/14 Reviewed By:

Depth	Sampled Interval: Driven	Sampled Interval: Blows /	Sampled Interval: Recovery	OVA: __ PID __ FID	Grain Size & Distribution (to nearest 5 %): % fines	% sand: f	% sand: m	% sand: c	% gravel: f	% gravel: c	max size	Remarks: Visual/Manual description of soil (ASTM D 2488 / USBR 5005). Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.: Annulus	Well Const.: Casing
0												ASPHALT			
2"												YELLOWISH BRN (10YR 5/4) SILTY SAND, W/ RND VF TO FG, MOD. SORTED, CLR, MILKY & FROSTED QTZ, BIOT., CHERT			
12'												GREENISH GRAY (GLEY 1 5/1) SAND & SILT, QTZ., BIOT.			
16												GREENISH GRAY (GLEY 1 5/1) SILTY CLAY / CLAYEY SILT. FIRM, LOW PLASTICITY, SL MOIST			
22												YELLOWISH TO GREENISH GRAY (GLEY 1 5/2) SILTY CLAY. MOD. PLASTIC, FE STAINING			
26												SAA W/ ↑ SILT			
28												YELLOWISH BRN (2.5YR 5/4) SILTY SAND, W/ RND VF TO FG, MOD-WELL SORTED, CLR, MILKY AND FROSTED QTZ., BIOT., ULTRA MAFICS, K-SPAR			
33												SAA			
35												SAA W/ ↑ FG SAND PERCENTAGE TO 20%			

Signature (logging geologist): [signature] Date: 4/15/14

Signature (reviewer): [signature] Date: 4/24/14

Gilbane

Soils Log Form

Boring No.	SAIA-SB/SG 33

Project: SAIA RI/FS Project No.: 07163.0064.FE0301 Page 1 of 1

Client: US EPA Start Date: 4/15/14 Logged By: JTP

Location: SOUTH GATE, CA. Completion Date: 4/15/14 Reviewed By:

Depth	Sampled Interval: Driven	Sampled Interval: Blows /	Sampled Interval: Recovery	OVA (__PID __FID)	Grain Size & Distribution (to nearest 5 %): % fines	% sand: f	% sand: m	% sand: c	% gravel: f	% gravel: c	max size	Remarks: Visual/Manual description of soil (ASTM D 2488 / USBR 5005). Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.: Annulus	Well Const.: Casing
0												CONCRETE			
6"												MBRN (10YR 4/3) SILTY SAND. VFTO FG, MOD. WELL SORTED. CLR, SMOKY, FROST QTZ BIOT. V SL MOIST			
5'												GREENISH GRAY (GLEY 1 6/1) SILTY SAND. VFG, W SORTED, MOIST, CLR, SMOKY, FROSTED QTZ., BIOT, ULTRA MAFICS, SL PETRO ODER			
11'															
16'												SAA w/ † PETROL. ODER (BREATHING ZONE 0.0 PPM SAMPLE ≈ 340 PPM BOREHOLE ≈ 3.2 PPM)			
21'												SAA w/ SL. ↑ SILT. PETROL ODER ↓ (WORK BREATHING ZONE 0.2 PPM, SAMPLE - 27 PPM, BOREHOLE - 1.2 PPM)			
23												GREENISH GRAY (GLEY 1 5/1) SILTY CLAY/ CLAYEY SILT, MOD. FIRM, LOW PLASTIC, SL PETROL ODER			
27												GREENISH GRAY (GLEY 1 5/1) SILTY SAND. VFG, W SORTED, CLR, MILKY QTZ., BIOT., CHERT, ULTRA MAFICS, V SL MOIST			
31												MBRN (10YR 4/2), SAND. VFTO FG, MOD SORTED, MOD W RND, CLR, SMOKEY, FROSTED QTZ, BIOT., CHERT, ULTRA MAFICS, K-SPAR, MOIST			
35												SAA			

Signature (logging geologist): _____ Date: 4/15/14

Signature (reviewer): _____ Date: 4/24/14

Gilbane

Soils Log Form

Boring No.	SAIA - SB/SG 34

Project: SAIA RI/FS | Project No.: 07163.0064.FI0301 | Page 1 of 1

Client: US EPA | Start Date: 4/15/14 | Logged By: PJP

Location: South Gate, CA | Completion Date: 4/15/14 | Reviewed By:

Depth	Sampled Interval: Driven	Sampled Interval: Blows /	Sampled Interval: Recovery	OVA: __PID __FID	Grain Size & Distribution (to nearest 5 %): % fines	% sand: f	% sand: m	% sand: c	% gravel: f	% gravel: c	max size	Remarks: Visual/Manual description of soil (ASTM D 2488 / USBR 5005). Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.: Annulus	Well Const.: Casing
0												ASPHALT AND BACKFILL DEBRIS (SLAG, VITREOUS GLASS, ETC.)			
1.5'															
5'												MBRN (10YR 4/2) SILTY SAND. VF TO FG, W RND, MOD. WELL SORTED. CLR., SMOKY & FROSTED QTZ., BIOT. CHERT			
11'												MBRN (10YR 4/2) SANDY SILT. V SL. MOIST			
15'												SAA W/ ↑ MOISTURE & MNR. FE STAINING			
20'												SAA			
21'												GREENISH GRAY (GLEY 1 5/1) SILTY CLAY/ CLAYEY SILT. V SL. PLASTIC, BRITTLE. VL SL. MOIST			
24'												GREENISH GRAY (GLEY 1 5/1) SILT, V. MNR VFG SAND, MOIST			
29'												SAA W/ 1 IN VF TO FG SAND TO APPROX. 20% OF SAMPLE			
31'												YELLOWISH BRN (2.5Y/R 6/4) SAND. VFG, W RND, V W SORTED. CLR., FROSTED & MILKY QTZ., BIOT., K-SPAR, CHERT, ULTRA MAFICS., V SL MOIST			
36'												SAA W/ V MNR AMTS OF SLT.			

Signature (logging geologist): [signature] Date: 4/15/14

Signature (reviewer): [signature] Date: 4/24/14

Gilbane

Soils Log Form

Boring No.	SAIA-SB/SG35

Project: SAIA RI/FS Project No.: 07163.0064.FD0301 Page 1 of 1

Client: US EPA Start Date: 4/18/14 Logged By: PJD

Location: South Gate, CA. Completion Date: 4/18/14 Reviewed By:

Depth	Sampled Interval: Driven	Sampled Interval: Blows /	Sampled Interval: Recovery	OVA: __PID __FID	Grain Size & Distribution (to nearest 5 %): % fines	% sand: f	% sand: m	% sand: c	% gravel: f	% gravel: c	max size	Remarks: Visual/Manual description of soil (ASTM D 2488 / USBR 5005). Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.: Annulus	Well Const.: Casing
0												ASPHALT			
3"												YELLOWISH BRN (2.5Y 6/4) SILTY SAND. MOD W. SORTED, W RNG F TO VFG., CL, MILKY & FROST. QTZ, BIOT., CHERT. SL MOIST TO DRY			
5'												SAA W/ ↑ MOISTURE			
11												M BRN (10YR 4/2) SILTY SAND, LITH AS ABOVE MOIST TO V MOIST			
16												SAA			
21												SAA W/ SL. ↓ MOISTURE			
23												GREENISH BRN (10YR 5/2) TO BRNISH GRAY (2.5YR 5/2) CLAYEY SILT. MOD FIRM, SL MOIST			
27												GREENISH BRN (10YR 5/2) SILTY SAND/SANDY SILT. VFG., W SORTED, WELL RND TO SUB-RND. CL, MILKY QTZ., BIOT., CHERT, MAFICS, MOIST-SL.			
32												SAA W/ ↑ MOISTURE			
35												SAA			

Signature (logging geologist): [signature] Date: 4/18/14

Signature (reviewer): [signature] Date: 4/24/14

Gilbane

Soils Log Form

Boring No.	SAIA - SB1/SG36

Project: SAIA RIFS | Project No.: 07163.0064.F0501 | Page 1 of 1

Client: US EDA | Start Date: 4/17/14 | Logged By: PJP

Location: SOUTH GATE, CA | Completion Date: 4/17/14 | Reviewed By:

Depth	Sampled Interval: Driven	Sampled Interval: Blows /	Sampled Interval: Recovery	OVA: PID / FID	Grain Size & Distribution (to nearest 5 %): % fines	% sand: f	% sand: m	% sand: c	% gravel: f	% gravel: c	max size	Remarks: Visual/Manual description of soil (ASTM D 2488 / USBR 5005). Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.: Annulus	Well Const.: Casing
0												CONCRETE			
6"												REDDISH BRN (2.5 YR 5/4) TO YELLOWISH BRN (2.5 YR 6/4) GRAVELLY SAND. VC TO VFG, ANG TO W RND FE STAINING COMMON DUE TO ABNDNT. WASTE SLAG AND METALLIC DEBRIS IMMEDIATELY BELOW CONCRETE PAD (BASE MATERIAL)			
5'												YELLOWISH BRN (2.5 YR 6/4) SILTY SAND. CLR, SMOKEY, FROSTED QTZ, BIOT, CHERT, K-SPAR. DRY			
10'												SAA W/ SIG. ↑ IN MOISTURE APPROACHING SATURATED CONDITIONS W/ COMMON FE STAINING			
15'												SAA W/ V. MOIST TO WET SAMPLE			
25'												GREENISH GRAY (GLEY1 5/1-5/2) SILTY CLAY. FIRM, MOD. PLASTIC, WET, FE STAINING COMMON AND ROOT STRUCTURE			
28												GREENISH GRAY (GLE 1 5/1-5/2) CLAYEY SILT MOD. FIRM. MOIST			
31												YELLOWISH BRN (2.5 YR 6/4) SAND. VFG, W RND, W SORTED, CLR, SMOKEY, FROSTED QTZ, BIOT, ULTRA MAFICS, CHERT, K-SPAR, V. SL. MOIST			
35												SAA			

Signature (logging geologist): [signature] Date: 4/17/14

Signature (reviewer): [signature] Date: 4/29/14

Gilbane

Soils Log Form

Boring No.	SAIA - SB/SG37

Project: SAIA TRUCKS | Project No.: 07163.0064.FI0301 | Page 1 of 1

Client: US EPA | Start Date: 4/17/14 | Logged By: PJP

Location: SOUTH SAN FRAN. CA. | Completion Date: 4/17/14 | Reviewed By:

Depth	Sampled Interval: Driven	Sampled Interval: Blows /	Sampled Interval: Recovery	OVA: PID / FID	Grain Size & Distribution (to nearest 5 %): % fines	% sand: f	% sand: m	% sand: c	% gravel: f	% gravel: c	max size	Remarks: Visual/Manual description of soil (ASTM D 2488 / USBR 5005). Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.: Annulus	Well Const.: Casing
0												CONCRETE			
6'												REDDISH BRN (2.5 YR 5/4) TO YELLOWISH BRN (2.5 YR 6/4) GRAVELLY SAND AND DEBRIS, VC TO FG, V POORLY SORTED W/ ACCOMPANYING METAL SLAG FRAGMENTS, VITRIFIED SOIL, CONCRETE AND CPBLGVL.			
9'												GREENISH GRAY (GLEY 1 5/1) SILTY SAND. VFG, W. SORTED. W. RND. CLR, MILKY & FROST. QTZ, BIOT., CHERT. VERY MOIST			
13												M BRN (10 YR 4/2) SANDY SILT. BIOT., QTZ., VERY MOIST			
15												GREENISH GRAY (GLEY 1 5/2) SILTY SAND/SANDY SILT. LITH AS ABOVE. V. MOIST TO WET			
19												GREENISH GRAY (GLEY 1 5/2) SILTY CLAY, FIRM, MOD. PLASTIC, MED. DILATENCY, V-MOIST, COMMON FE STAINING, ROOT STRUCTURE AND DESICCATED CLAST INCLUSIONS			
22												DK GRAY (GLEY 1 4/—) SILTY SAND. CLR, MILKY QTZ., BIOT. ULTRAMAFICS, V MOIST TO WET			
27												SAA W/ ↑ SILT, SL ↓ MOISTURE			
29												YELLOWISH BRN (2.5 YR 6/4) SAND VFG, V. W SORTED, W RND, CLR, FROSTED & MILKY QTZ. BIOT, CHERT, K-SPAR, MAFICS MOD AMTS SILT, SL MOIST			
36												SAA W/ ↓ MOISTURE			

Signature (logging geologist): _____ Date: 4/17/14

Signature (reviewer): _____ Date: 4/24/14

Gilbane

Soils Log Form

Boring No.	SHA-SB/SG38

Project: SHA RI/FS Project No.: 0T163.006A.FI0301 Page 1 of 1

Client: US EPA Start Date: 4/17/14 Logged By: PJP

Location: SOUTH GATE, CA Completion Date: 4/17/14 Reviewed By:

Depth	Sampled Interval: Driven	Sampled Interval: Blows /	Sampled Interval: Recovery	OVA: __ PID __ FID	Grain Size & Distribution (to nearest 5 %): % fines	% sand: f	% sand: m	% sand: c	% gravel: f	% gravel: c	max size	Remarks: Visual/Manual description of soil (ASTM D 2488 / USBR 5005). Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.: Annulus	Well Const.: Casing
0												CONCRETE			
8'												YELLOWISH BRN (2.5 YR 6/4) SILTY SAND CLR, MILKY, FROSTED QTZ., BIOT., CHERT. DRY			
12'												GREENISH BRN ( ) SILTY SAND SAA AS DESCRIBED ABOVE. VERY MOIST TO WET			
17'												SAA W/ SL ↑ SLT. VERY MOIST TO WET			
20												GREENISH GRN (GLEY 1 5/1) SILTY CLAY/ CLAYEY SILT. SL PLASTIC, FIRM, WET			
25												SAA W/ ↑ SILT			
30												SAA W/ CONT ↑ SILT ↓ MOISTURE			
31												YELLOWISH BRN (2.5YR 6/4) SAND. VFG W RND TO SUB ANG. W SORTED, CLR, SMOKEY, FROSTED QTZ., BIOT., CHERT., K-SPAR, MAFICS AND ULTRA MAFICS. MOIST TO SL. MOIST			
35												SAA W/ CONT. ↓ MOISTURE			

Signature (logging geologist): _____ Date: 4/17/14

Signature (reviewer): _____ Date: 4/24/14

Gilbane

Soils Log Form

Boring No.	SAIA-SB/SG39

Project: SAIA RI/FS Project No.: 07163.0064.FI0301 Page 1 of 1

Client: US EPA Start Date: 4/17/14 Logged By: PJD

Location: SOUTH GATE, GA. Completion Date: 4/17/14 Reviewed By:

Depth	Sampled Interval: Driven	Sampled Interval: Blows /	Sampled Interval: Recovery	OVA (__ PID __ FID)	Grain Size & Distribution (to nearest 5 %): % fines	% sand: f	% sand: m	% sand: c	% gravel: f	% gravel: c	max size	Remarks: Visual/Manual description of soil (ASTM D 2488 / USBR 5005). Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Well Const.: Annulus	Well Const.: Casing
0												CONCRETE			
4"												YELLOWISH BRN (2.5Y 6/4) SILTY SAND. F TO VFG., MOD. WELL SORTED, MOD. RND TO SUB ANG., CLR, FROSTED & MILKY QTZ, BIOT., OLITIC MAFICS. DRY			
15'												SAA			
17'												GREENISH GRAY (GLEY1 5/1) SANDY SILT. FIRM, V. MOIST LITH AS DESCRIBED ABOVE			
16'												GREENISH GRAY (GLEY1 5/1) SILTY CLAY/ CLAYEY SILT. FIRM, SL. PLSTIC, V. MOIST			
21												SAA W/ ↑ SILT, V. MOIST			
26'												SAA. SL ↓ MOISTURE			
29												GREENISH GRAY TO YELLOWISH BRN (GLEY1 5/1 - 2.5Y 6/4) SILTY SAND, F TO VFG., MOD/OCCAS WELL SORTED, SUB-RND TO SUB-ANG, CLR, SMOKY QTZ., CHERT., BIOT, IC-SPAR. MOIST TO SL. MOIST			
35'												SAA. CONT. ↓ IN MOISTURE			

Signature (logging geologist): [signature] Date: 4/17/14

Signature (reviewer): [signature] Date: 4/24/14

SAJA

Project ~~Jervis Webb~~ Superfund Site
Project Number J163007200
Location South Gate
Surface Elevation N/A

Logged By Rogerio Leung
Date Drilled 04/25/2017
Total Depth 35'
Boring Diameter 2"
Drillers Gregg Drilling
Method DPT

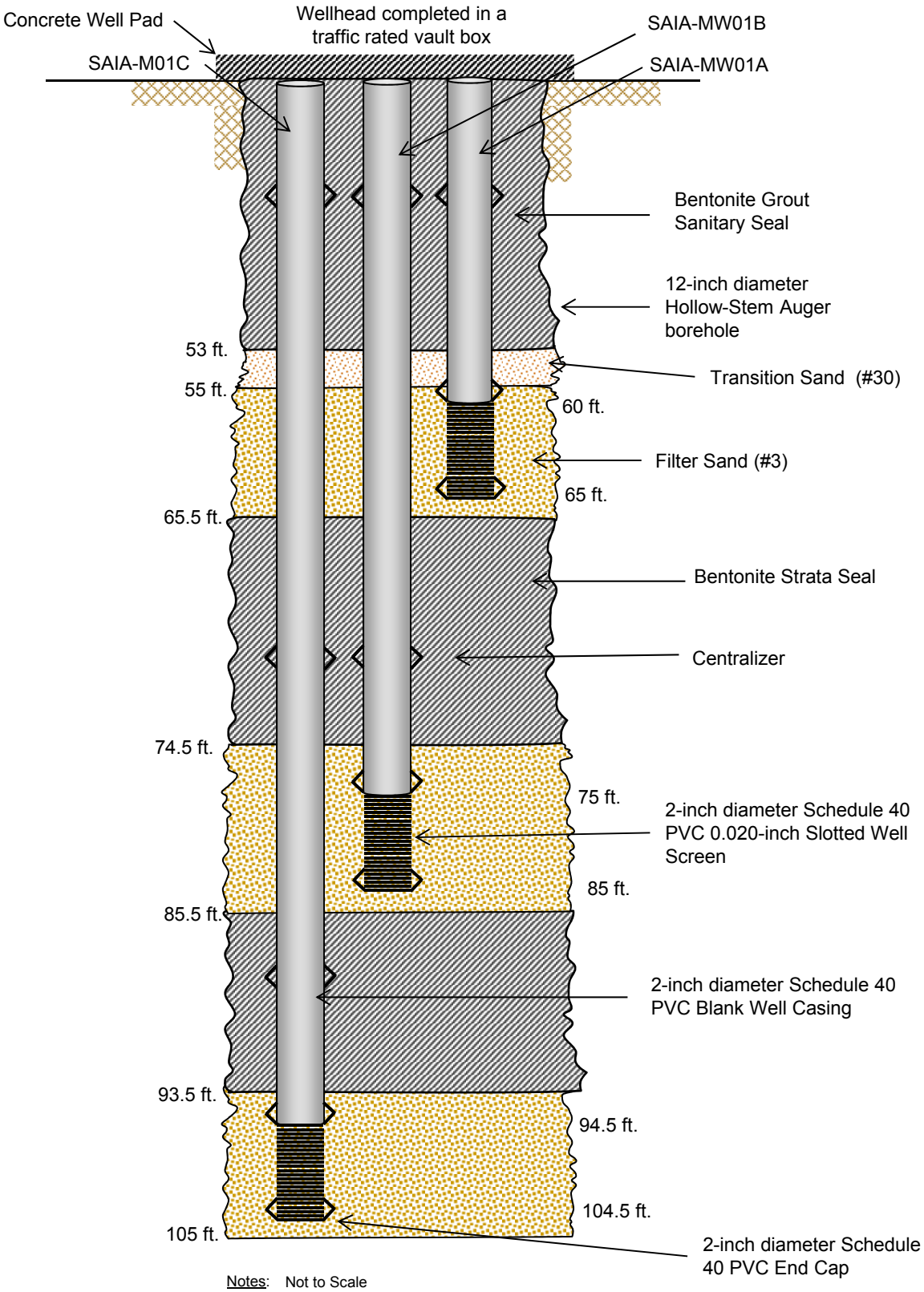
Boring No. SAJA SG/SB-44
Sheet 1 Of 1

Boring Location Sketch

Depth (Feet)	Sample Interval	Blow Counts	PID (ppm) B-zone/stem/sample	Water Level	Well Construction	Lithology / USCS	DESCRIPTION
0			0				silty sand, dark brown, loose, moist, some gravel, no odor
			0				
5			0				
10							silty clay, dark brown, moist, stiff, no odor
15			0				
20							moist
25			0				clay, dark brown, stiff, moist, no odor
30							
			0				

Casing Diameter _____ Casing Length _____ From _____ To _____
Screen Size _____ Screen Length _____ From _____ To _____
~~Sand Type~~ _____ From _____ To _____
Bentonite Type _____ From _____ To _____
Cement/Grout _____ From _____ To _____
Surface Completion _____

Gilbane



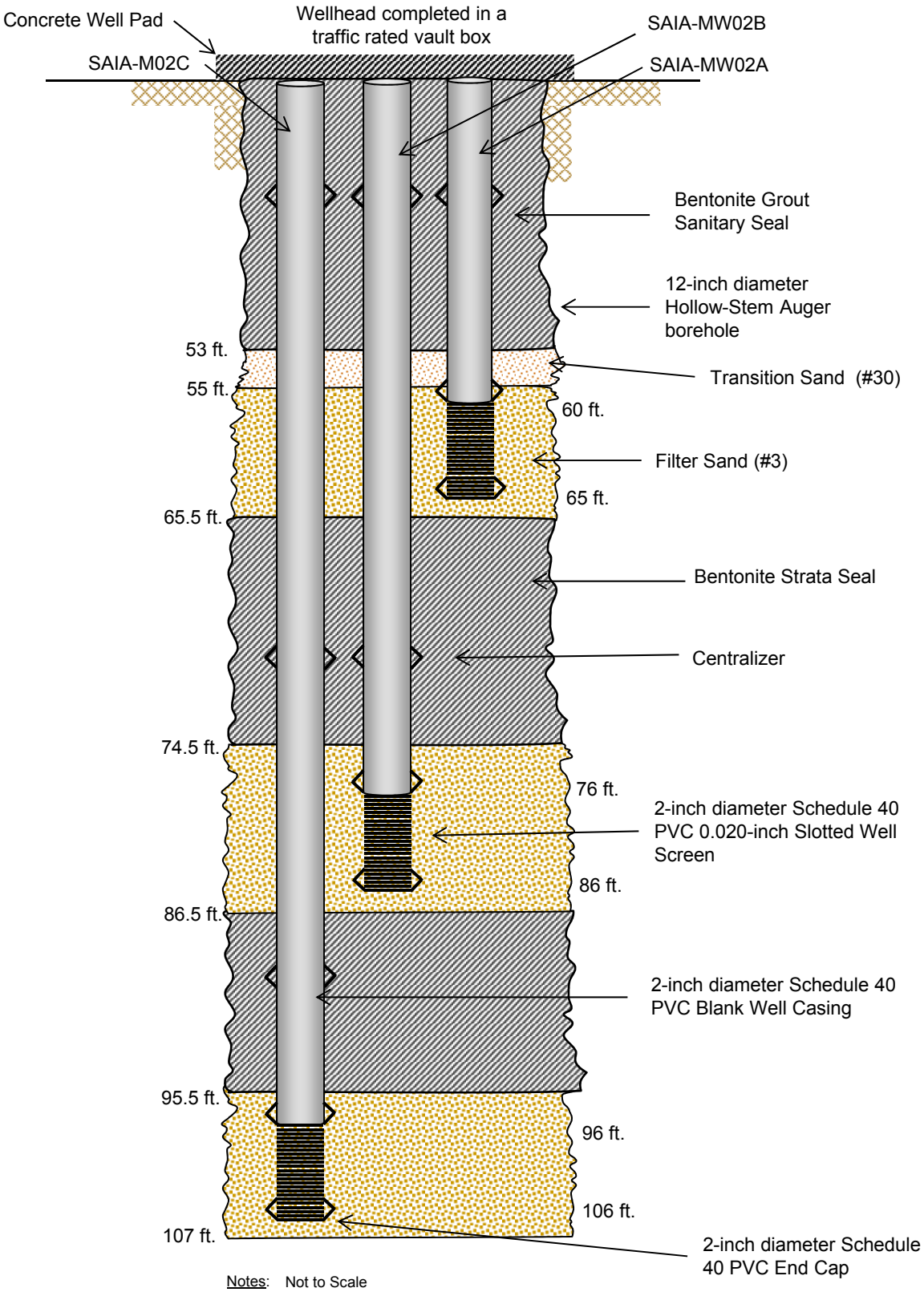
Notes: Not to Scale

All diameters are O.D. except the well screen, which is nominal

PVC – polyvinyl chloride

SAIA-MW01A/B/C As Built

South Gate, California



Notes: Not to Scale

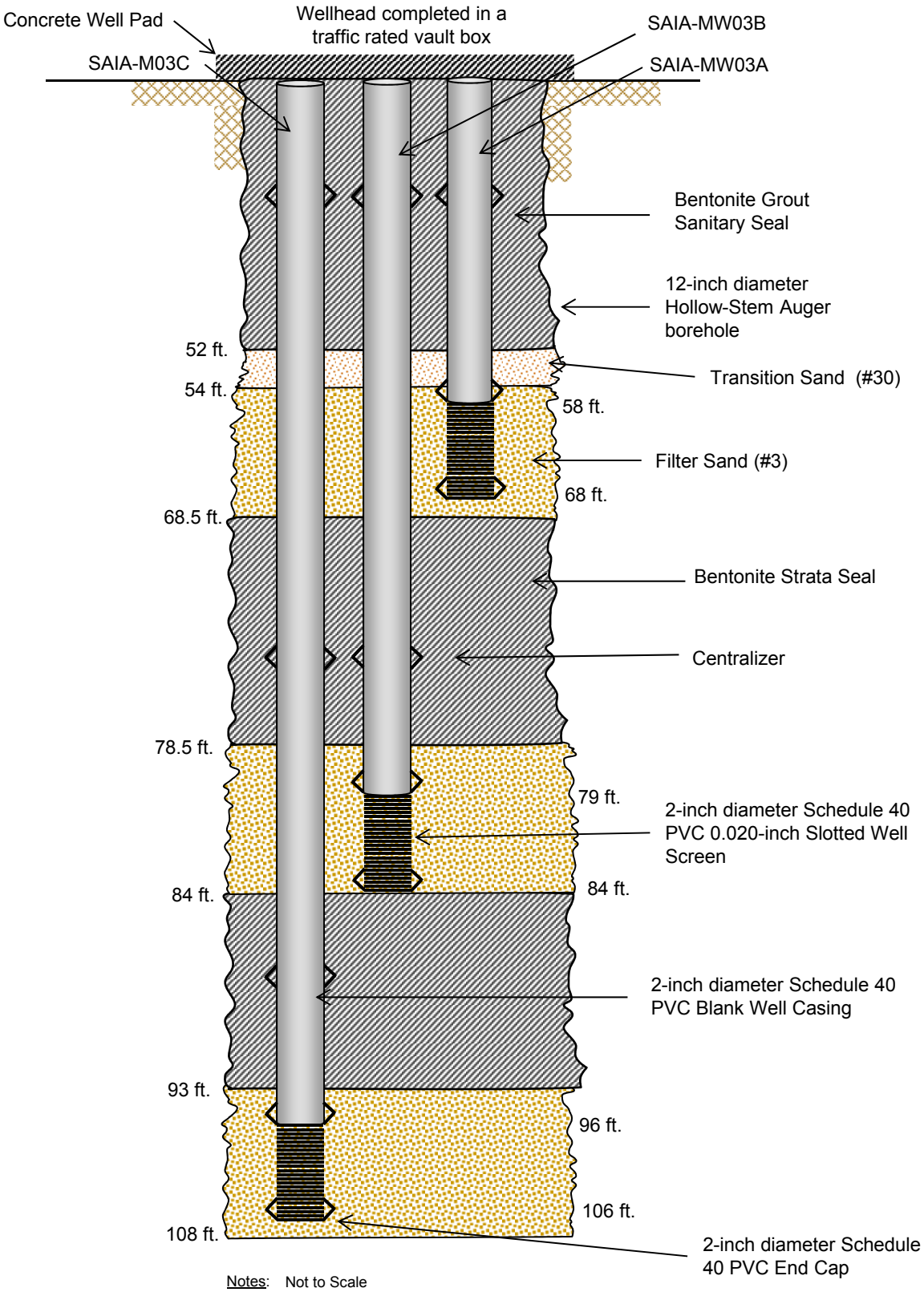
All diameters are O.D. except the well screen, which is nominal

PVC – polyvinyl chloride

Gilbane

SAIA-MW02A/B/C As Built

South Gate, California



Notes: Not to Scale

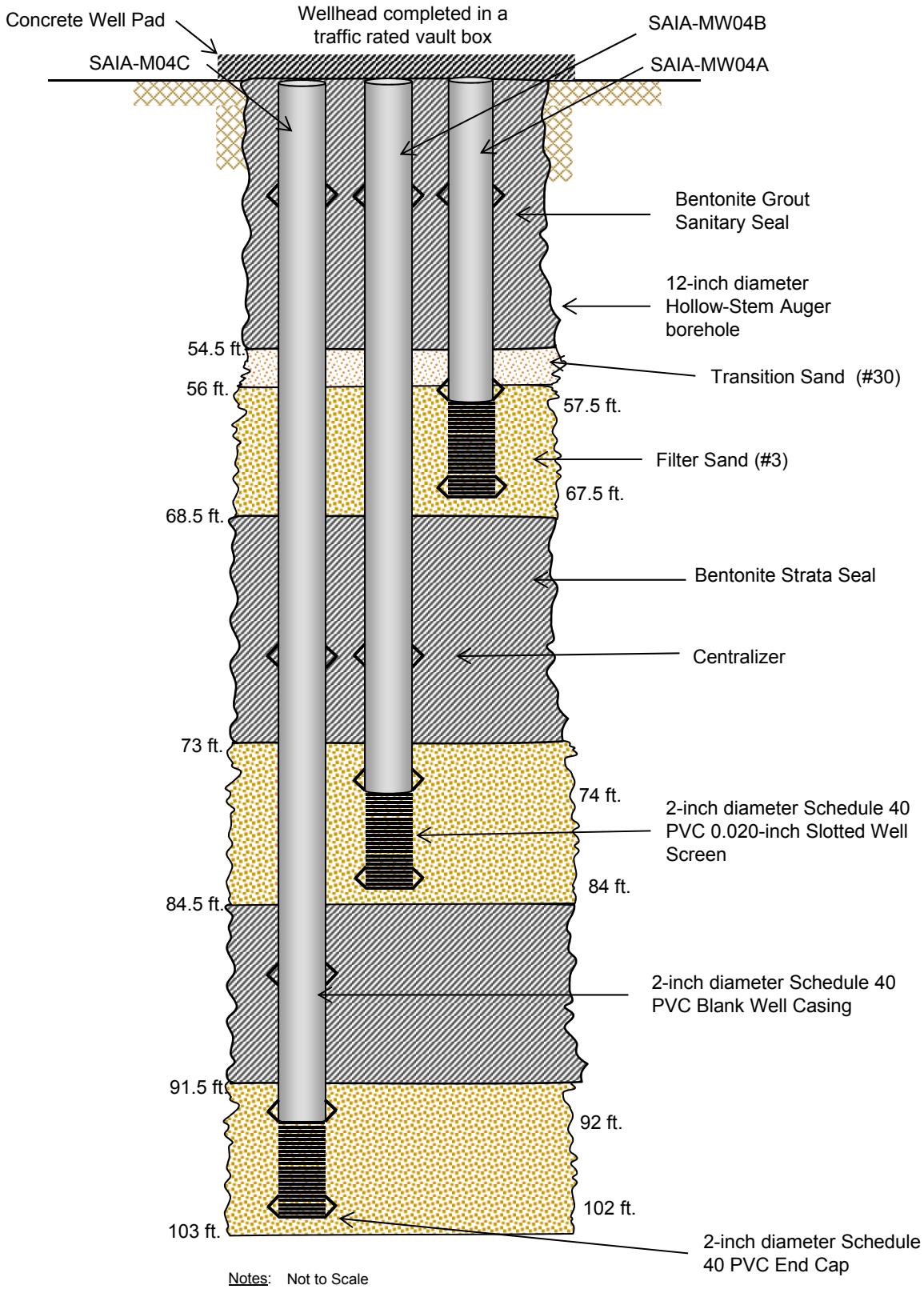
All diameters are O.D. except the well screen, which is nominal

PVC – polyvinyl chloride

Gilbane

SAIA-MW03A/B/C As Built

South Gate, California



Notes: Not to Scale

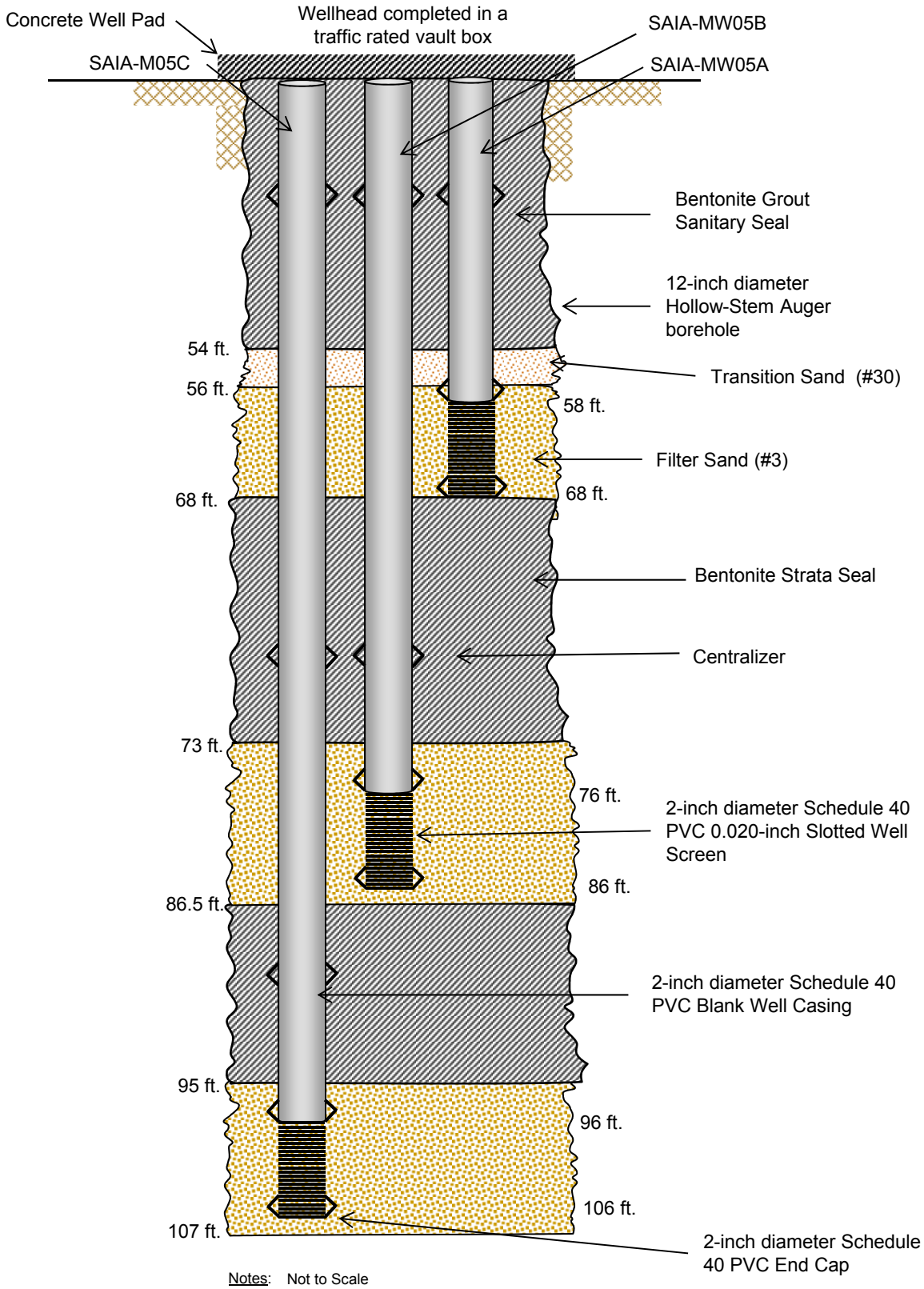
All diameters are O.D. except the well screen, which is nominal

PVC – polyvinyl chloride

Gilbane

SAIA-MW04A/B/C As Built

South Gate, California



Notes: Not to Scale

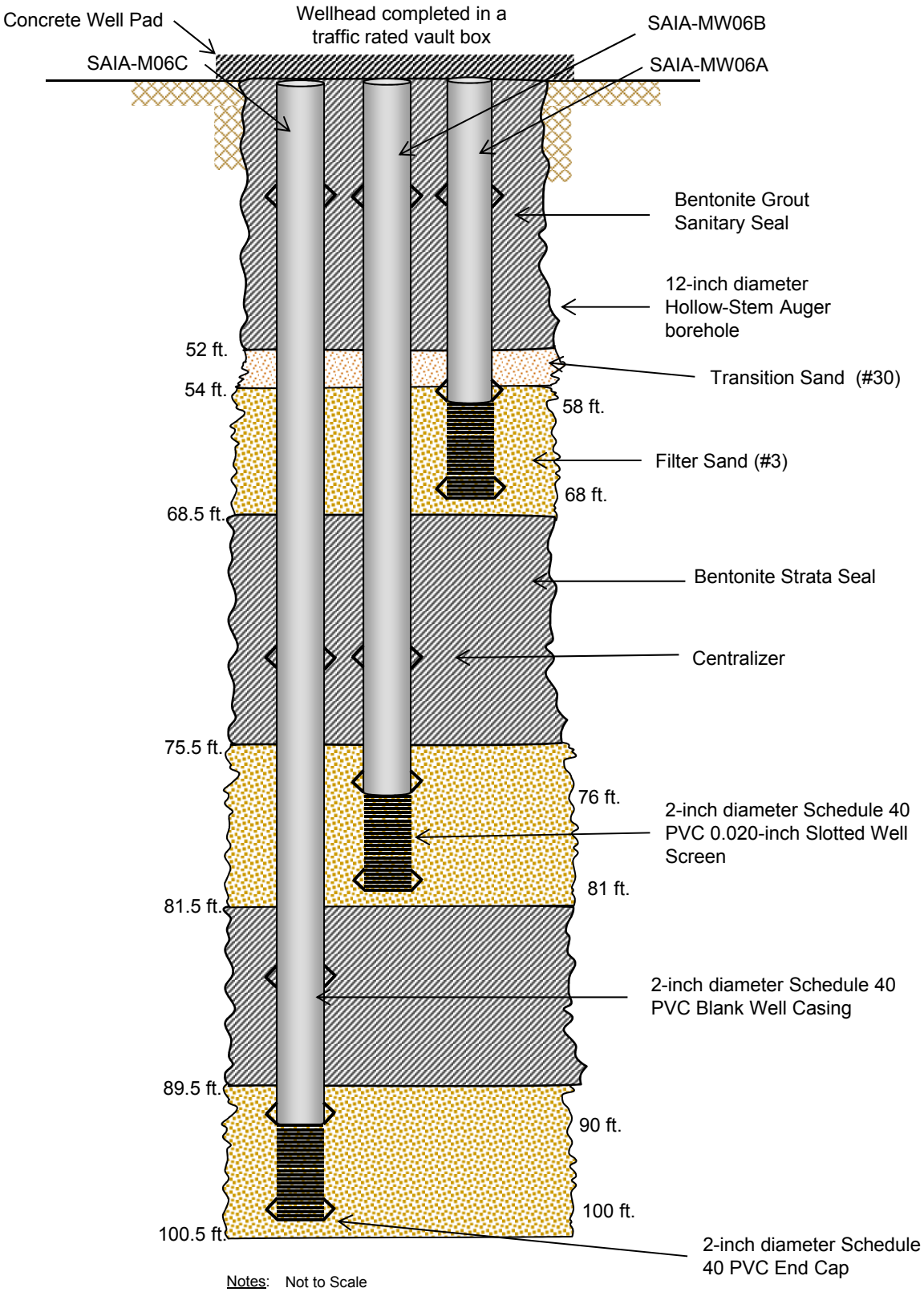
All diameters are O.D. except the well screen, which is nominal

PVC – polyvinyl chloride

Gilbane

SAIA-MW05A/B/C As Built

South Gate, California



Notes: Not to Scale

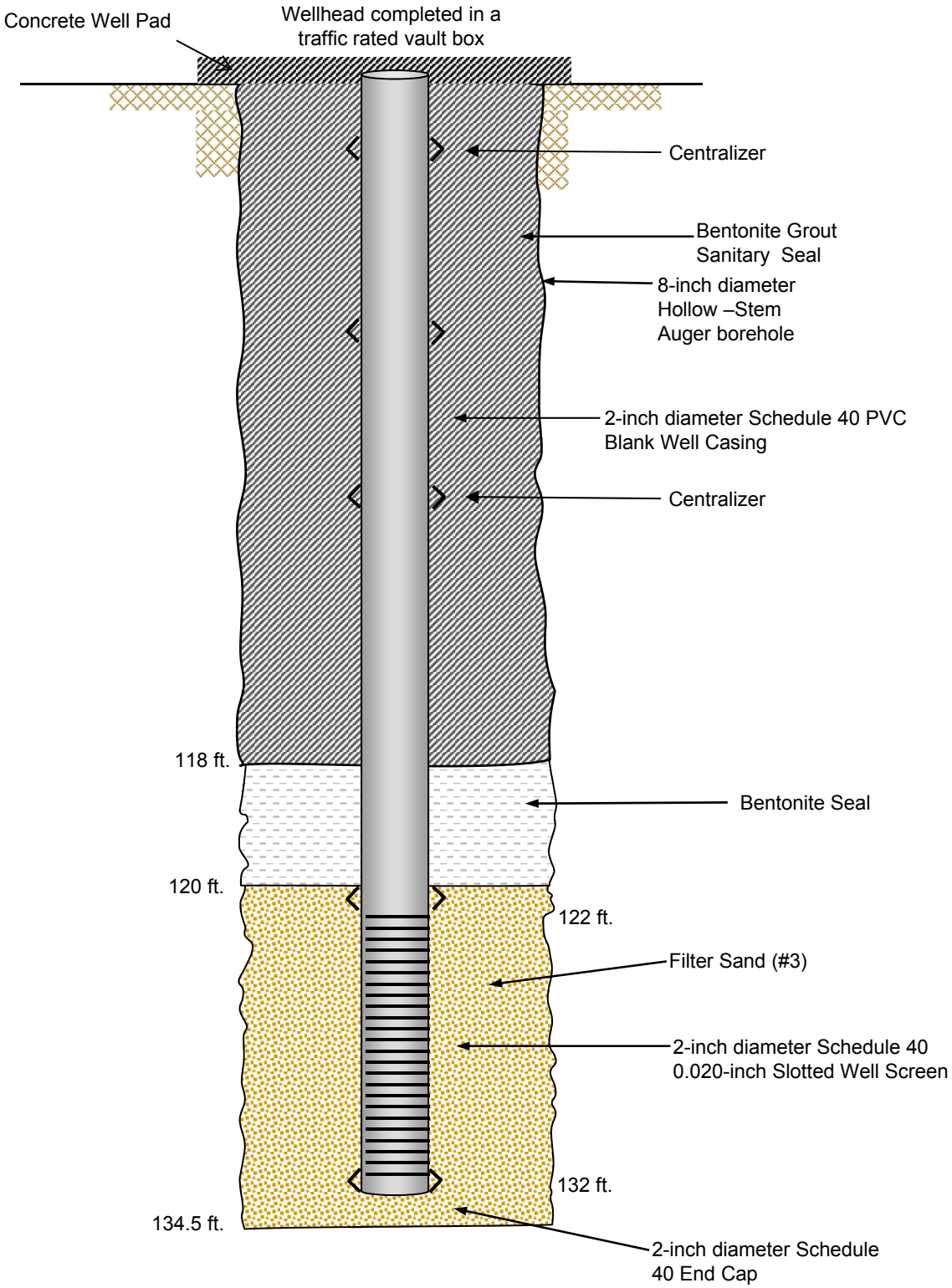
All diameters are O.D. except the well screen, which is nominal

PVC – polyvinyl chloride

Gilbane

SAIA-MW06A/B/C As Built

South Gate, California



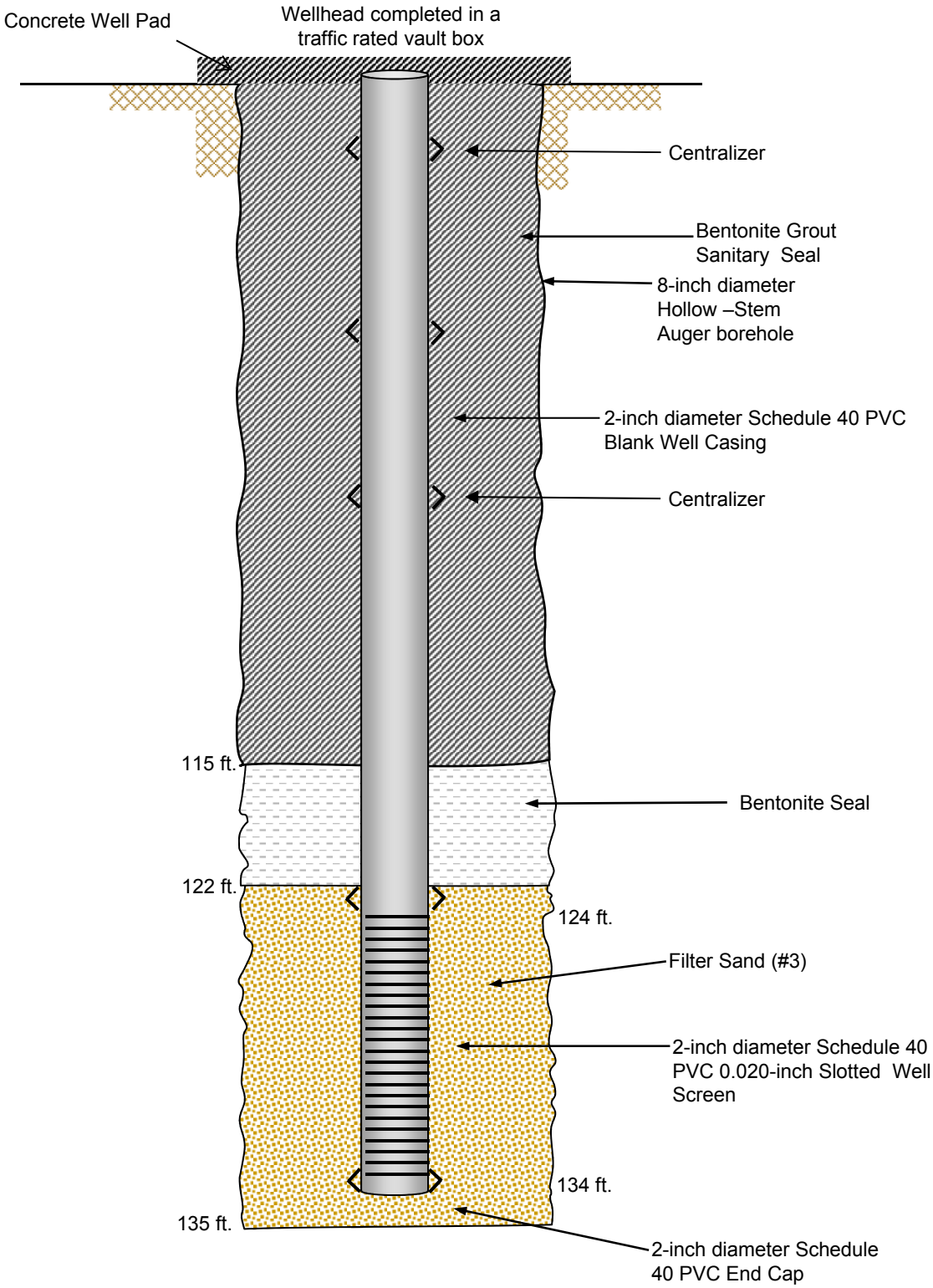
Notes:

Not to Scale

All diameters are O.D. except the well screen, which is nominal

PVC – polyvinyl chloride

SAIA-MW07 As Built
South Gate, California



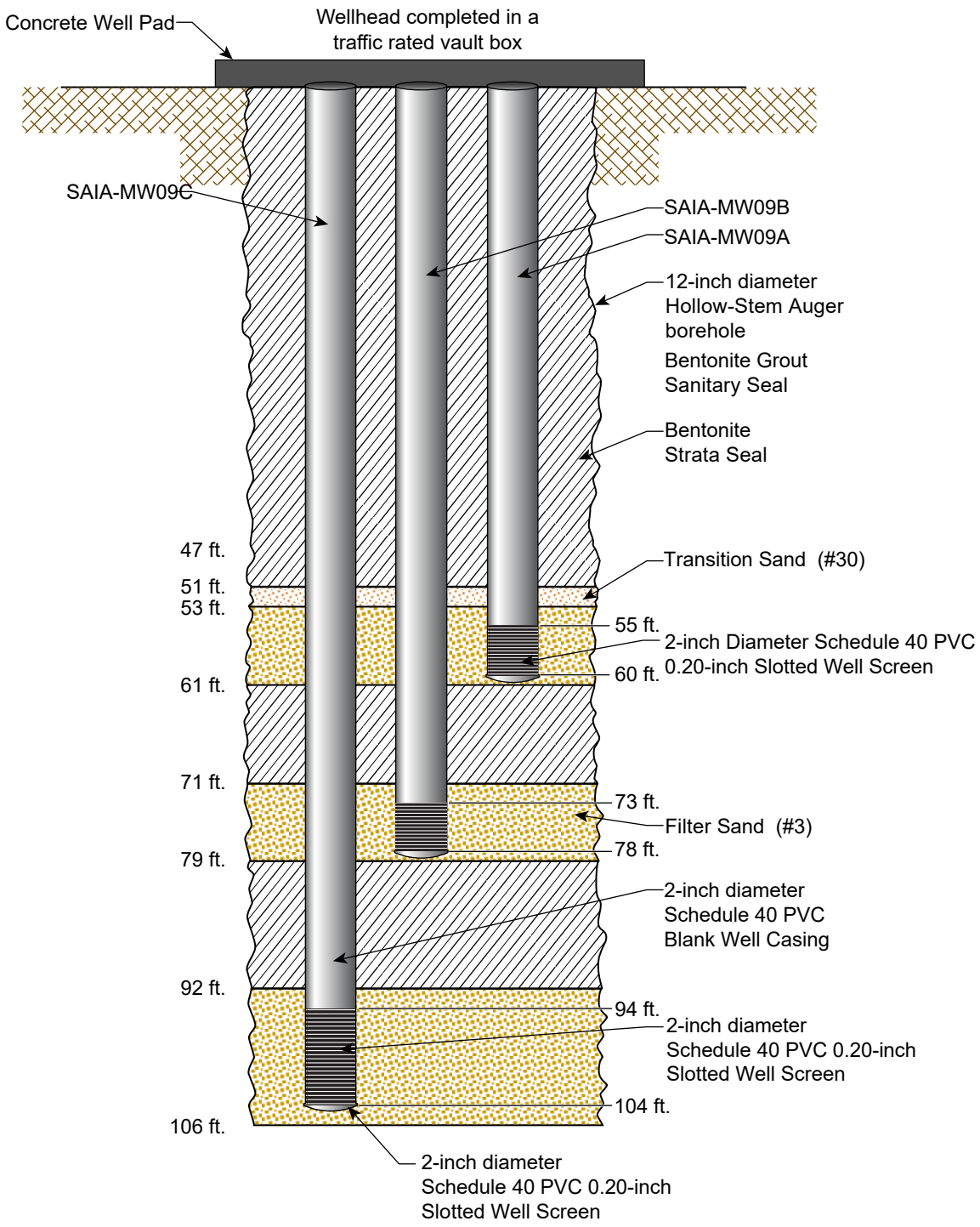
Notes:

Not to Scale

All diameters are O.D. except the well screen, which is nominal

PVC – polyvinyl chloride

SAIA-MW08 As Built
South Gate, California



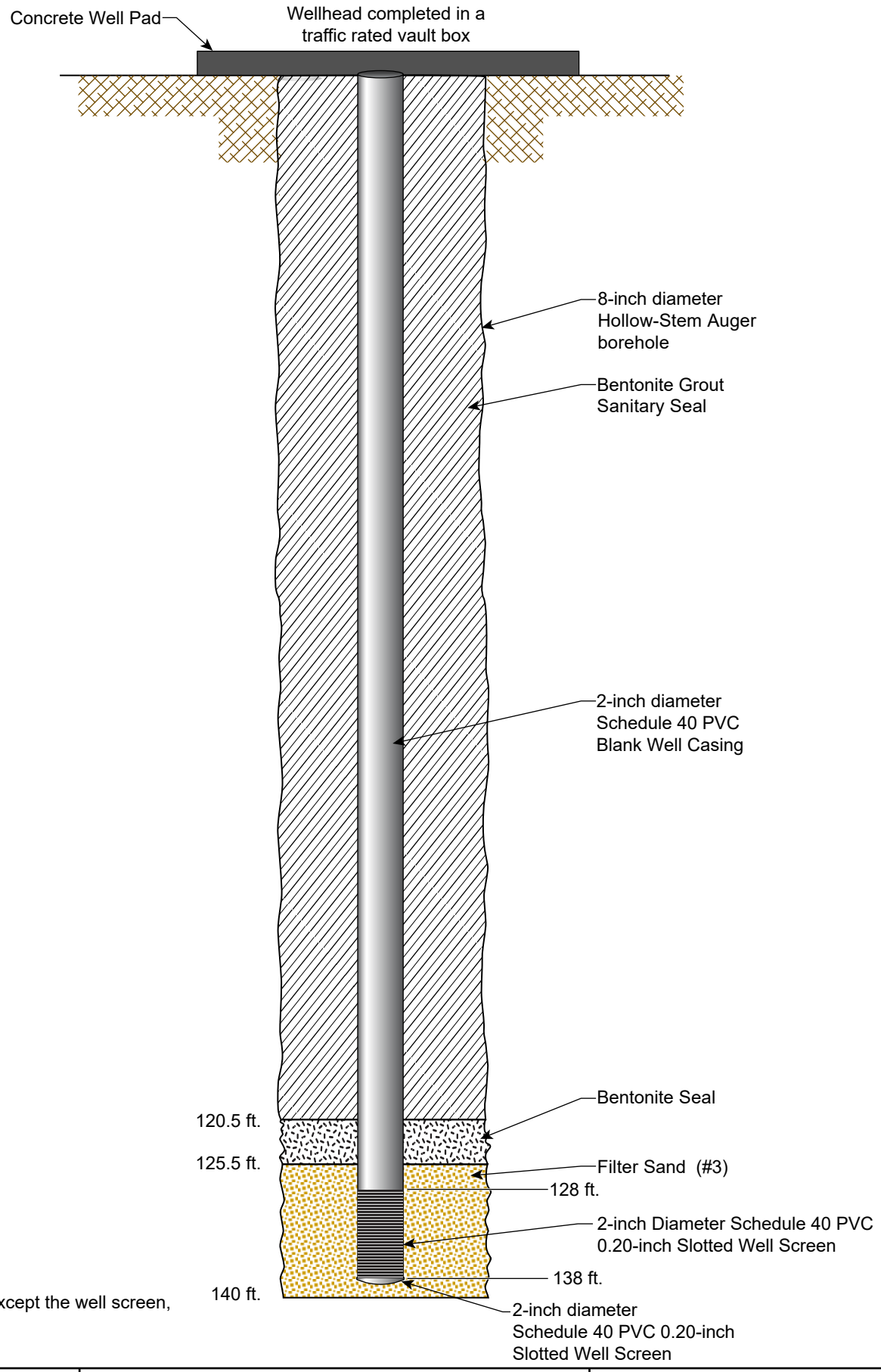
Notes:
Scale is Approximate
All diameters are O.D. except the well screen, which is nominal
PVC - polyvinyl chloride

Gilbane

Southern Avenue Industrial Area
Los Angeles County, California
US Environmental Protection Agency

SAIA-MW09A/B/C
As Built

P:\EPAR9\0064 TO 063-RICO-09WS, So. Ave Indstl Area\13.0 Graphics\SAIA-MW10 asbuilt.ai 08/24/2016



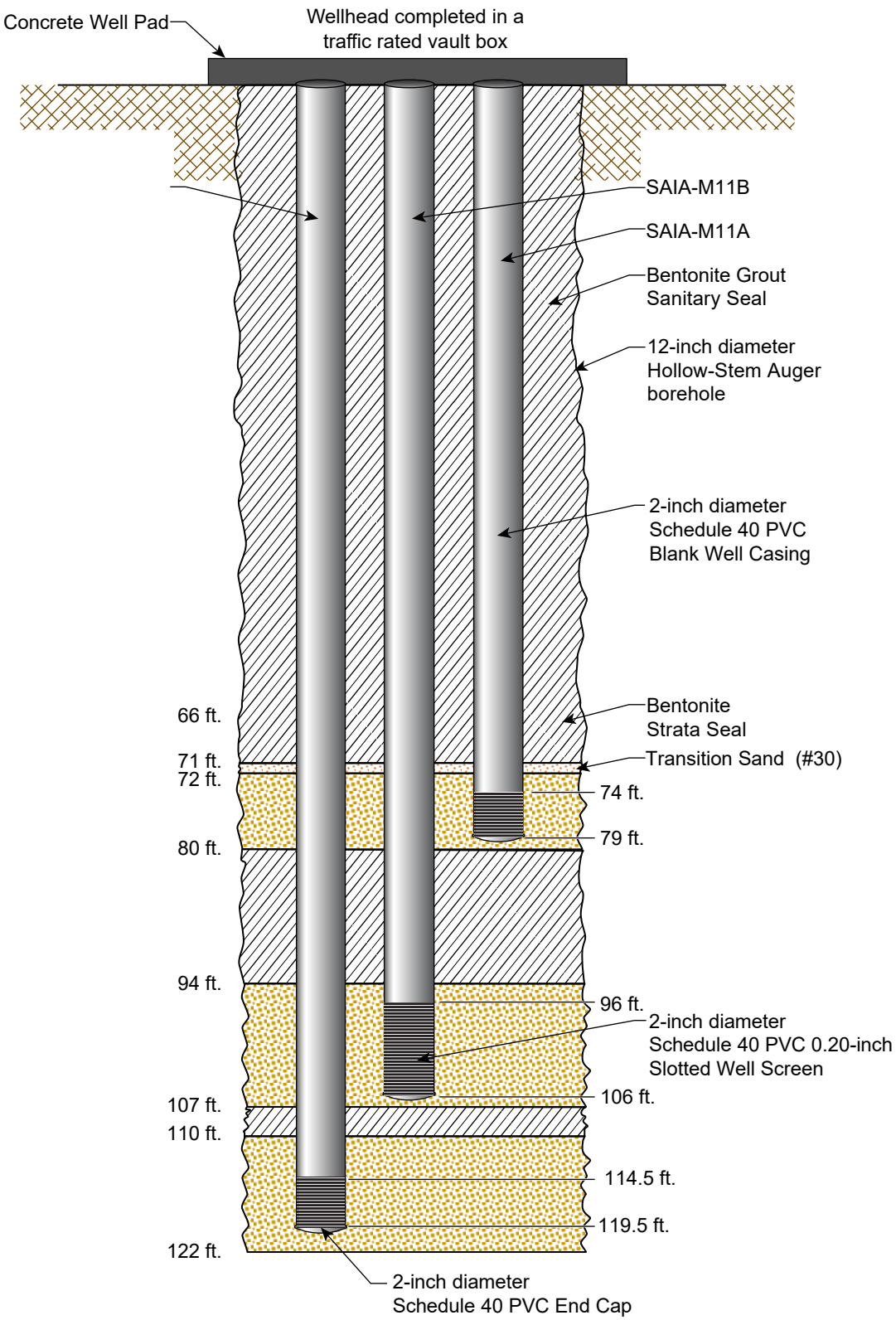
Notes:
Scale is Approximate
All diameters are O.D. except the well screen, which is nominal
PVC - polyvinyl chloride

Gilbane

Southern Avenue Industrial Area
Los Angeles County, California
US Environmental Protection Agency

SAIA-MW10
As Built

P:\EPAR9\0064 TO 063-RICO-09WS, So. Ave Indstl Area\13.0 Graphics\SAIA-MW09 asbuilt.ai 08/24/2016



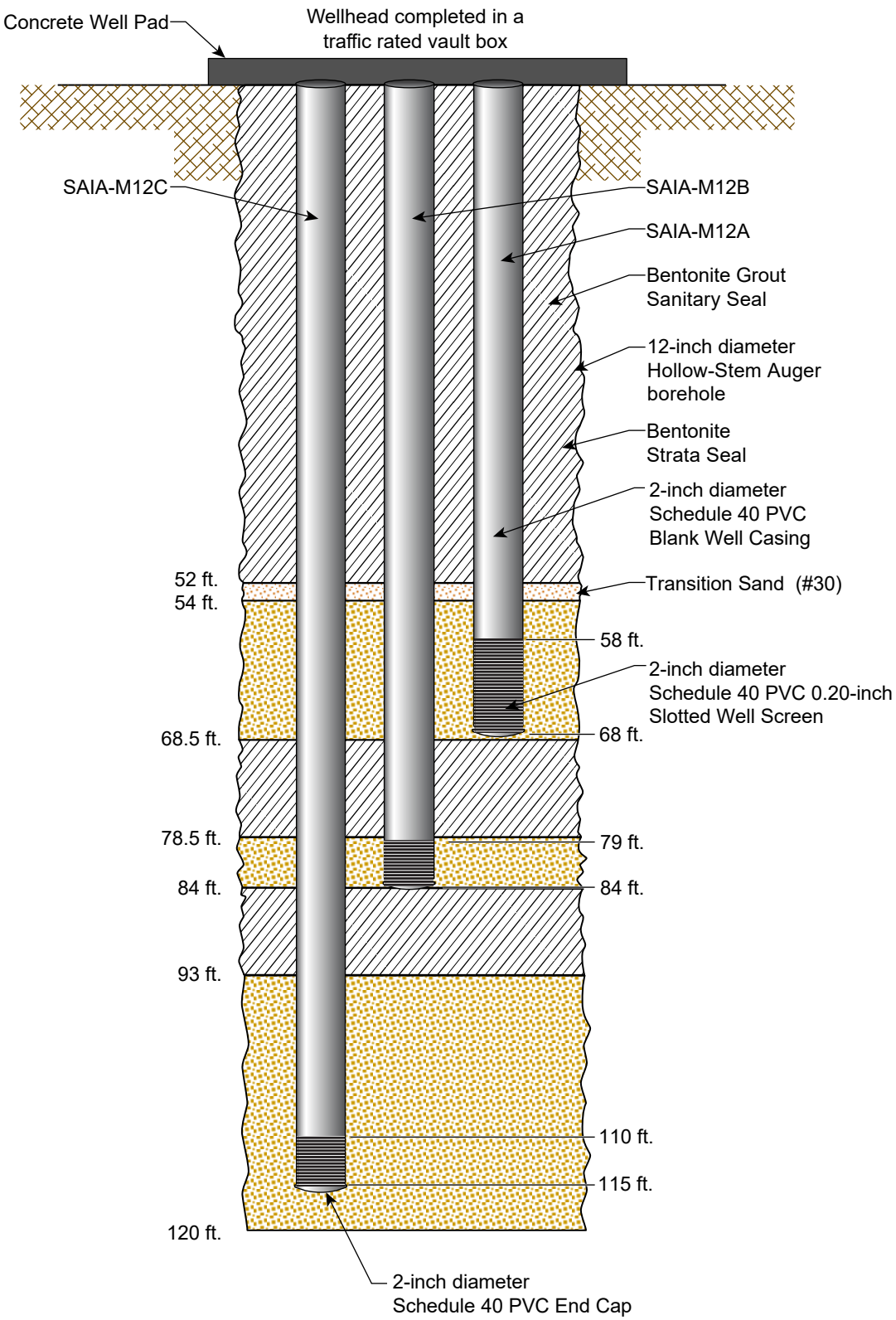
Notes:
Scale is Approximate
All diameters are O.D. except the well screen, which is nominal
PVC - polyvinyl chloride

Gilbane

Southern Avenue Industrial Area
Los Angeles County, California
US Environmental Protection Agency

Figure X
SAIA-MW11A/B/C As Built

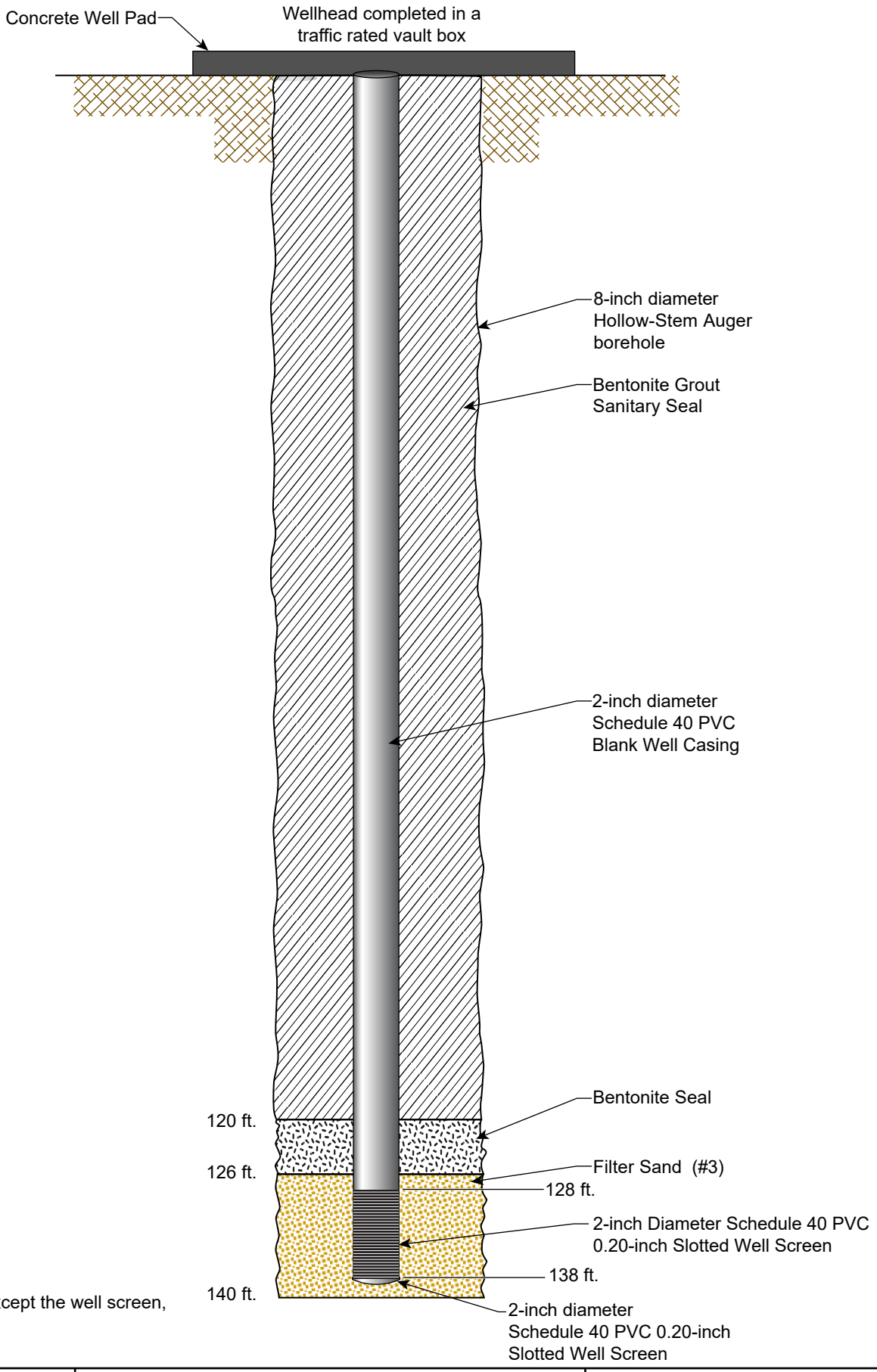
P:\EPAR9\0064 TO 063-RICO-09WS, So. Ave Indstl Area\13.0 Graphics\SAIA-MW11 asbuilt.ai 08/24/2016



Notes:
Scale is Approximate
All diameters are O.D. except the well screen, which is nominal
PVC - polyvinyl chloride

Gilbane	**Southern Avenue Industrial Area** Los Angeles County, California US Environmental Protection Agency	**Figure X** SAIA-MW12A/B/C As Built

P:\EPAR9\0064 TO 063-RICO-09WS, So. Ave Indstl Area\13.0 Graphics\SAIA-MW11 asbuilt.ai 08/24/2016



Notes:
Scale is Approximate
All diameters are O.D. except the well screen, which is nominal
PVC - polyvinyl chloride

Gilbane

Southern Avenue Industrial Area
Los Angeles County, California
US Environmental Protection Agency

Figure X
SAIA-MW13 As Built

P:\EPAR9\0064 TO 063-RICO-09WS, So. Ave Indstl Area\13.0 Graphics\SAIA-MW13 asbuilt.ai 08/24/2016

APPENDIX C

FIELD DOCUMENTATION (SAMPLING FORMS, GROUNDWATER ELEVATION FORMS, AND WASTE MANIFESTS)

Vapor Sample Field Data Sheet – Sorbent Tube

Gilbane

Project Name: Southern Avenue Industrial Area			Date: 4-9-15
Project No./Task Code: J16300 6400		Samplers: Ed Gillera	
Description of Sample Location: RES 06			
Weather:			
Ambient Temperature (°F): 81.7		Ambient Pressure (Hg): 31.16 IN Hg	

Sampling Equipment

Pump Make and Model:	Pump Serial No.:
Calibration Device/Method:	
Calibrated By:	Date of Calibration:

Sorbent Tubes

Tube No:	Sample ID	Adsorbent	Serial No.
1	5227-1A02-0415	Radiello	754 NP
2			
3			
4			

Target Sample Criteria (from SAP)

Tube No:	Target Sample Volume (L)	Target (Max) Flow Rate (L/min)	Target Sample Time (min)
1			
2			
3			
4			

Sample QC (Pre-Sampling)

Flow Rate Check Pre-Sampling (L/min):

Sampling Data

Tube No:	Flow Rate (L/min)	Start Time	Stop Time	Total Time (min)	Total Volume (L)
1	—	4-9-15/13:30	4-16-15/1302	7 days	—
2					
3					
4					

Sample QC (Post-Sampling)

Equivalent Tube No.:	Pre-Sampling (L/min)	Post-Sampling (L/min)	Difference (%)
Flow Rate Check (% difference < 10%)			

Comments: Pick up temp 85.6 pressure 32.21
Sample in back bedroom on window sill.

Prepared by: Don Gruber

Signature:

Vapor Sample Field Data Sheet – Sorbent Tube

Gilbane

Project Name: Southern Avenue Industrial Area		Date: 4-9-15	
Project No./Task Code: J16300640D	Samplers: Ed Gillera		
Description of Sample Location: RES 07			
Weather:			
Ambient Temperature (°F): 76.2	Ambient Pressure (Hg): 31.14 inHg		

Sampling Equipment

Pump Make and Model:	Pump Serial No.:
Calibration Device/Method:	
Calibrated By:	Date of Calibration:

Sorbent Tubes

Tube No:	Sample ID	Adsorbent	Serial No.
1	5230-IA02-0415	Radiello	755NP
2	5230-OA01-0415	Radiello	756 NP
3	5230-FB01-0415	Radiello	757 NP
4			

Target Sample Criteria (from SAP)

Tube No:	Target Sample Volume (L)	Target (Max) Flow Rate (L/min)	Target Sample Time (min)
1			
2			
3			
4			

Sample QC (Pre-Sampling)

Flow Rate Check Pre-Sampling (L/min):

Sampling Data

Tube No:	Flow Rate (L/min)	Start Time	Stop Time	Total Time (min)	Total Volume (L)
1		4-9-15/1420	4-16-15/1400	7days	—
2		4-9-15/1430	4-16-15/1405	7days	—
3		4-9-15/1435	4-16-15/1410	7days	—
4					

Sample QC (Post-Sampling)

Equivalent Tube No.:	Pre-Sampling (L/min)	Post-Sampling (L/min)	Difference (%)
Flow Rate Check (% difference < 10%)			

Comments: Unit #1 – IA pickup temp. 88.1 pressure 31.19
OA pickup temp. 76.2 pressure 31.14
Sample in dining room, front facing window

Prepared by: Don Grubbs	Signature:

Vapor Sample Field Data Sheet – Sorbent Tube

Gilbane

Project Name: Southern Avenue Industrial Area		Date: 4-10-15	
Project No./Task Code: J16300640D		Samplers: Ed Gillen	
Description of Sample Location: RES 01			
Weather:			
Ambient Temperature (°F): 68.2		Ambient Pressure (Hg): 31.26 inHg	

Sampling Equipment

Pump Make and Model:	Pump Serial No.:
Calibration Device/Method:	
Calibrated By:	Date of Calibration:

Sorbent Tubes

Tube No:	Sample ID	Adsorbent	Serial No.
1	5211-IA01-0415	Radiello	758 NP
2	5211-CS01-0415	Radiello	759 NP
3			
4			

Target Sample Criteria (from SAP)

Tube No:	Target Sample Volume (L)	Target (Max) Flow Rate (L/min)	Target Sample Time (min)
1			
2			
3			
4			

Sample QC (Pre-Sampling)

Flow Rate Check Pre-Sampling (L/min):

Sampling Data

Tube No:	Flow Rate (L/min)	Start Time	Stop Time	Total Time (min)	Total Volume (L)
1		4-10-15/0915	4-17-15/0911	7 days	
2		4-10-15/0925	4-17-15/0917	7 days	
3					
4					

Sample QC (Post-Sampling)

Equivalent Tube No.:	Pre-Sampling (L/min)	Post-Sampling (L/min)	Difference (%)
Flow Rate Check (% difference < 10%)			

Comments: IA pickup temp 79.8 pressure 31.28
CS pickup temp 80.2 pressure 31.28
IA sample Blinds behind TV in living room
CS sample eastside 2nd from front.

Prepared by: Don Gruber	Signature: Don Gruber

Vapor Sample Field Data Sheet – Sorbent Tube

Gilbane

Project Name: Southern Avenue Industrial Area	Date: 4-10-15
Project No./Task Code: J16300640D	Samplers: Ed Billera
Description of Sample Location: RES 08	
Weather:	
Ambient Temperature (°F): 69.2	Ambient Pressure (Hg): 31.26 inHg

Sampling Equipment

Pump Make and Model:	Pump Serial No.:
Calibration Device/Method:	
Calibrated By:	Date of Calibration:

Sorbent Tubes

Tube No:	Sample ID	Adsorbent	Serial No.
1	5234-IA01-0415	Radiello	760 NP
2	5234-CS01-0415	Radiello	761 NP
3			
4			

Target Sample Criteria (from SAP)

Tube No:	Target Sample Volume (L)	Target (Max) Flow Rate (L/min)	Target Sample Time (min)
1			
2			
3			
4			

Sample QC (Pre-Sampling)

Flow Rate Check Pre-Sampling (L/min):

Sampling Data

Tube No:	Flow Rate (L/min)	Start Time	Stop Time	Total Time (min)	Total Volume (L)
1		4-10-15/1025	4-17-15/1010	7 days	
2		4-10-15/1030	4-17-15/1012	7 days	
3					
4					

Sample QC (Post-Sampling)

Equivalent Tube No.:	Pre-Sampling (L/min)	Post-Sampling (L/min)	Difference (%)
Flow Rate Check (% difference < 10%)			

Comments: IA pickup temp. 78.3 pressure 31.26
CS pickup temp. 74.5 pressure 31.27
IA sample southern bedroom north wall.
CS sample East side front CS.

Prepared by: Don Gruber	Signature:

Vapor Sample Field Data Sheet – Sorbent Tube

Gilbane

Project Name: Southern Avenue Industrial Area		Date: 4-10-15	
Project No./Task Code: J163006400		Samplers: Ed Gillera / Rizshumento	
Description of Sample Location: RES 02			
Weather:			
Ambient Temperature (°F): 72.2		Ambient Pressure (Hg): 31.25 in Hg	

Sampling Equipment

Pump Make and Model:	Pump Serial No.:
Calibration Device/Method:	
Calibrated By:	Date of Calibration:

Sorbent Tubes

Tube No:	Sample ID	Adsorbent	Serial No.
1	5215-IA01-0415	Radiello	914 NP
2	5215-CS01-0415	Radiello	763 NP
3			
4			

Target Sample Criteria (from SAP)

Tube No:	Target Sample Volume (L)	Target (Max) Flow Rate (L/min)	Target Sample Time (min)
1			
2			
3			
4			

Sample QC (Pre-Sampling)

Flow Rate Check Pre-Sampling (L/min):

Sampling Data

Tube No:	Flow Rate (L/min)	Start Time	Stop Time	Total Time (min)	Total Volume (L)
1		4-17-15/1245	4-24-15/1255	7 days	
2		4-10-15/1140	4-17-15/1255	7 days	
3					
4					

Sample QC (Post-Sampling)

Equivalent Tube No.:	Pre-Sampling (L/min)	Post-Sampling (L/min)	Difference (%)
Flow Rate Check (% difference < 10%)			

Comments: Upon retrieval had to resample indoor air starting on 4-17-15 temp 85.7 pressure 31.24. Pickup temp. on 4-24-15 not Available. IA sample living room next to printer. CS sample street side

Prepared by: Don Gruber	Signature: Don Gruber

Vapor Sample Field Data Sheet – Sorbent Tube

Gilbane

Project Name: Southern Avenue Industrial Area		Date: 4-16-15	
Project No./Task Code: J16300 6400	Samplers: Ed Gillera		
Description of Sample Location: RES 03			
Weather:			
Ambient Temperature (°F): 81.0	Ambient Pressure (Hg): 31.23 in Hg		

Sampling Equipment

Pump Make and Model:	Pump Serial No.:
Calibration Device/Method:	
Calibrated By:	Date of Calibration:

Sorbent Tubes

Tube No:	Sample ID	Adsorbent	Serial No.
1	5226-IA01-0415	Radiello	765NP
2			
3			
4			

Target Sample Criteria (from SAP)

Tube No:	Target Sample Volume (L)	Target (Max) Flow Rate (L/min)	Target Sample Time (min)
1			
2			
3			
4			

Sample QC (Pre-Sampling)

Flow Rate Check Pre-Sampling (L/min):

Sampling Data

Tube No:	Flow Rate (L/min)	Start Time	Stop Time	Total Time (min)	Total Volume (L)
1		4-16-15/12:25	4-23-15/1103	7 days	
2					
3					
4					

Sample QC (Post-Sampling)

Equivalent Tube No.:	Pre-Sampling (L/min)	Post-Sampling (L/min)	Difference (%)
Flow Rate Check (% difference < 10%)			

Comments: Sample IN southeast corner of living room next to large clock. Unit 1

Prepared by:	Signature:
Don Gruber	Don Gruber

Vapor Sample Field Data Sheet – Sorbent Tube

Gilbane

Project Name: Southern Avenue Industrial Area			Date: 4-16-15
Project No./Task Code: J16300640D		Samplers: Ed Gallera	
Description of Sample Location: RES 004			
Weather:			
Ambient Temperature (°F): 79.6		Ambient Pressure (Hg): 31.24 IN Hg.	

Sampling Equipment

Pump Make and Model:	Pump Serial No.:
Calibration Device/Method:	
Calibrated By:	Date of Calibration:

Sorbent Tubes

Tube No:	Sample ID	Adsorbent	Serial No.
1	5226-IA02-0415	Radiello	764 NP
2			
3			
4			

Target Sample Criteria (from SAP)

Tube No:	Target Sample Volume (L)	Target (Max) Flow Rate (L/min)	Target Sample Time (min)
1			
2			
3			
4			

Sample QC (Pre-Sampling)

Flow Rate Check Pre-Sampling (L/min):

Sampling Data

Tube No:	Flow Rate (L/min)	Start Time	Stop Time	Total Time (min)	Total Volume (L)
1		4-16-15/1015	4-23-15/1030	7 days	
2					
3					
4					

Sample QC (Post-Sampling)

Equivalent Tube No.:	Pre-Sampling (L/min)	Post-Sampling (L/min)	Difference (%)
Flow Rate Check (% difference < 10%)			

Comments: Sample in bedroom behind curtain. Unit #2

Prepared by: Don Gruber

Signature: Don Gruber

Vapor Sample Field Data Sheet – Sorbent Tube

Gilbane

Project Name: Southern Avenue Industrial Area	Date: 4-17-15
Project No./Task Code: J1630064 00	Samplers: Ed Billera / Rizsamento
Description of Sample Location: RES 05	
Weather:	
Ambient Temperature (°F): 82.0	Ambient Pressure (Hg): 31.24 in Hg

Sampling Equipment

Pump Make and Model:	Pump Serial No.:
Calibration Device/Method:	
Calibrated By:	Date of Calibration:

Sorbent Tubes

Tube No:	Sample ID	Adsorbent	Serial No.
1	5226-IA04-0415	Radiello	913 NP
2	5227-DA01-0415	Radiello.	915 NP
3			
4			

Target Sample Criteria (from SAP)

Tube No:	Target Sample Volume (L)	Target (Max) Flow Rate (L/min)	Target Sample Time (min)
1			
2			
3			
4			

Sample QC (Pre-Sampling)

Flow Rate Check Pre-Sampling (L/min):

Sampling Data

Tube No:	Flow Rate (L/min)	Start Time	Stop Time	Total Time (min)	Total Volume (L)
1		4-17-15/1230	4-24-15/1215	7 days	
2		4-17-15/1738	4-24-15/1250	7 days	
3					
4					

Sample QC (Post-Sampling)

Equivalent Tube No.:	Pre-Sampling (L/min)	Post-Sampling (L/min)	Difference (%)
Flow Rate Check (% difference < 10%)			

Comments: OA sample accross street sample temp 77.0 and pressure 31.18 at time of deployment. Unit #4 IA sample NW corner of most southern bedroom.

Prepared by: Don Gruber	Signature:

4/9/15

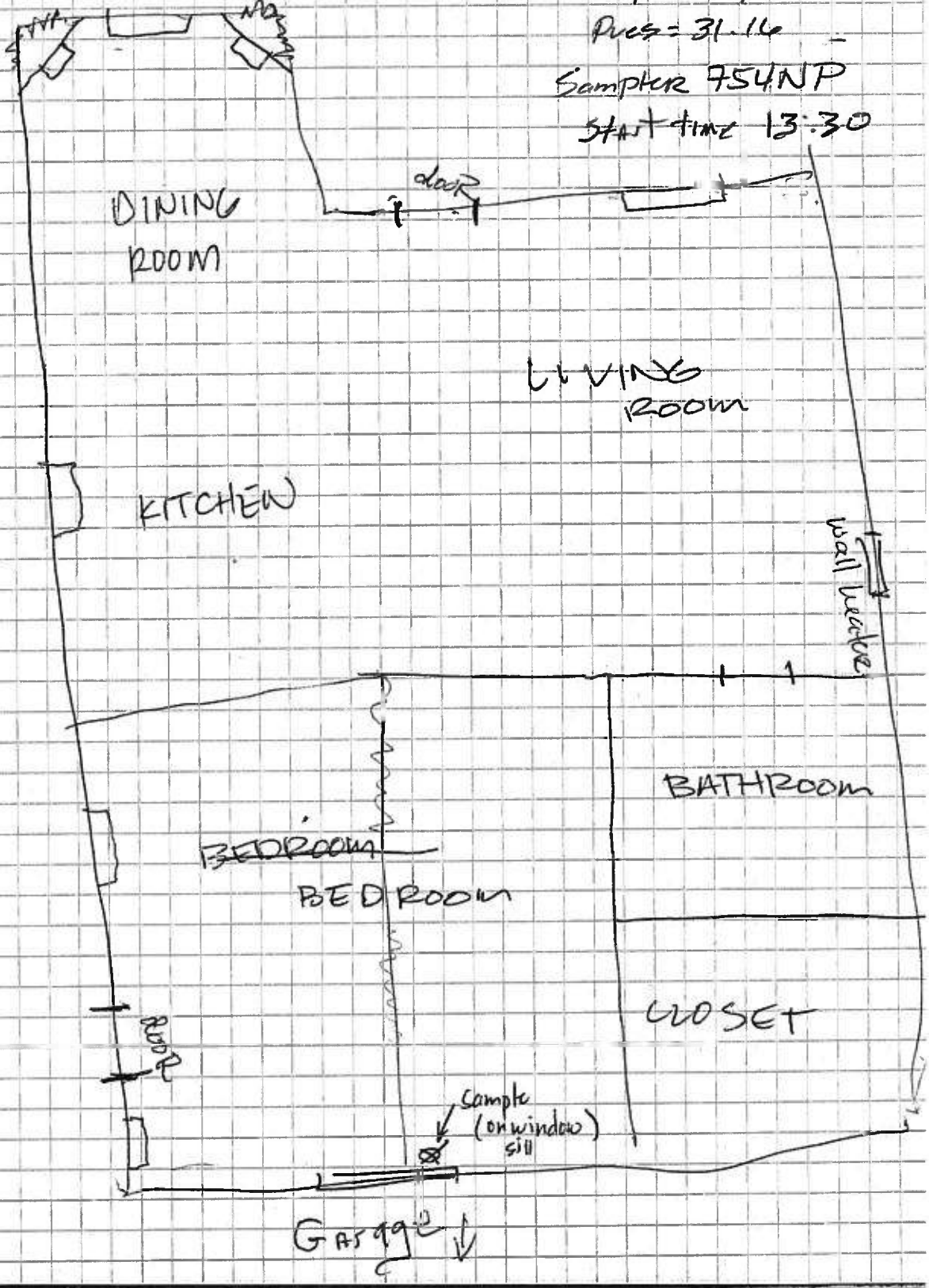
52 ~~30~~ 27 1/2 ~~WINDOW~~ – no crawlspace

N

McCallum

RH = 26.5 %
Temp = 81.7 °F
Pres = 31.16

Sampler 754NP
Start time 13:30



RH = 11.0 %
Temp = 85.6 °F
Pres = 32.21 in Hg

Date / Time retrieved: 4-16-15 / 1302

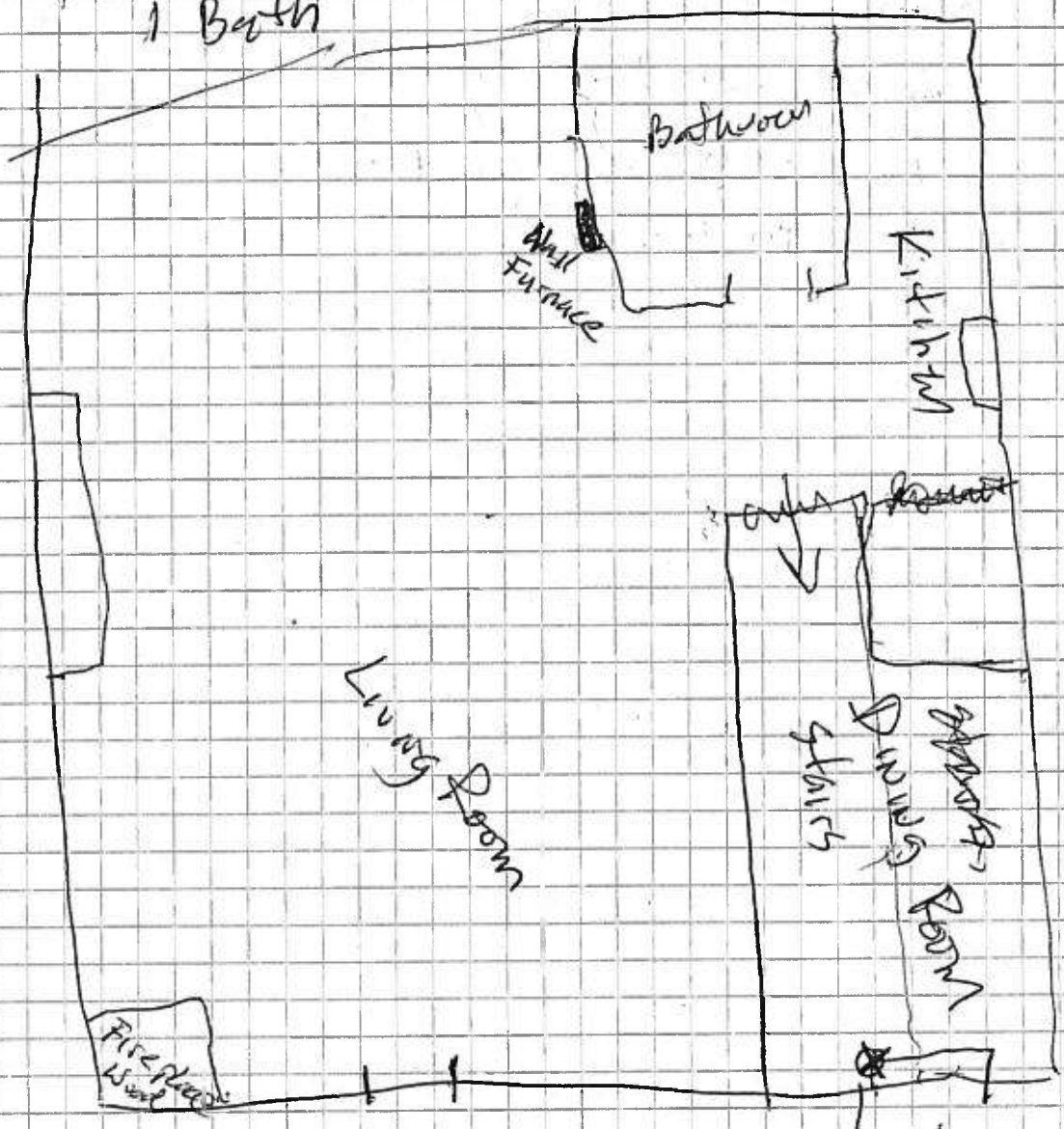
5230 Unit A

4/9/15

RH 43.2
Temp 76.7
Pressure 31.14
Sampler 755 NP #1420

N

upstairs 3 bedrooms 1 Bath



chemical · 52

under sink (kitchen)

Liquid Wrench (Half full)

petroleum dissolves

5280 McCallum #A

RH = 21.5 %.
Temp = 88.1 F
Pres = 31.19 in Hg
Date / Time Retrieved : 4-16-15 / 1400

Ambient Sample :

RH = 13.9 %.
Temp = 85.7° F
Pres = 31.19 in Hg
Date / Time Retrieved : 4-16-15 / 1405

Field Blank :

RH = 13.9 %.
Temp = 85.7° F
Pres = 31.19 in Hg
Date / Time Retrieved : 4-16-15 / 1410

5211 McCallum

RH = 20.4 %.
Temp = 79.8° F
Pres = 31.28 in Hg
Date/Time Retrieved : 4-17-15 / 0911

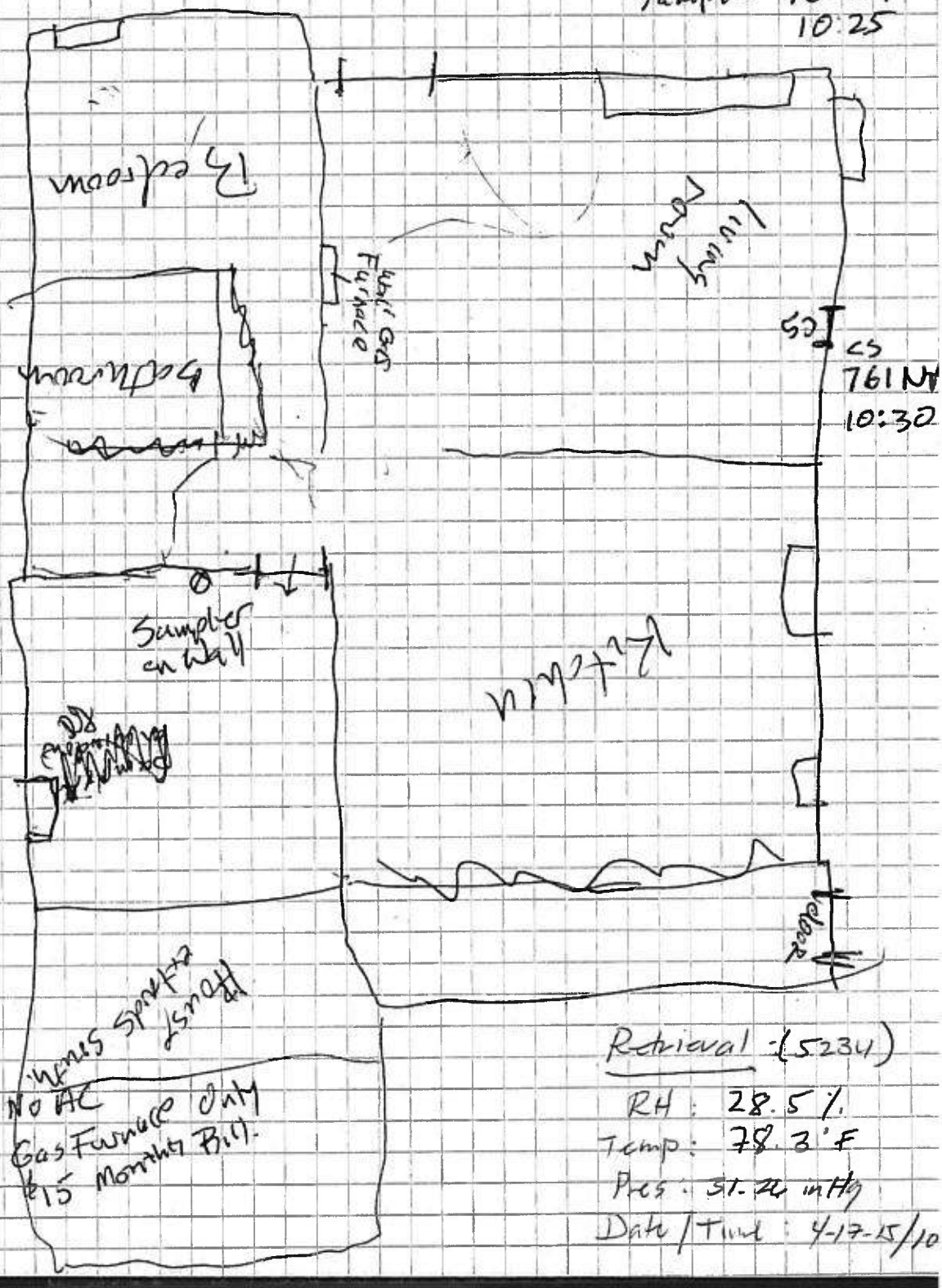
crawl space

RH = 18.0 %.
Temp = 80.2° F
Pres = 31.28 in Hg

5234

McCallum

RH: 55.6
Temp: 69.2
Pressure: 31.26
Sampler 760 NP
10:25



Retrieval - (5234)

RH: 28.5%
Temp: 78.3°F
Pres: 31.24 inHg
Date/Time: 4-17-15/10

Retrieval (crawl space):

RH = 21.9 %

Temp = 74.5 °F

Press = 31.27 in Hg

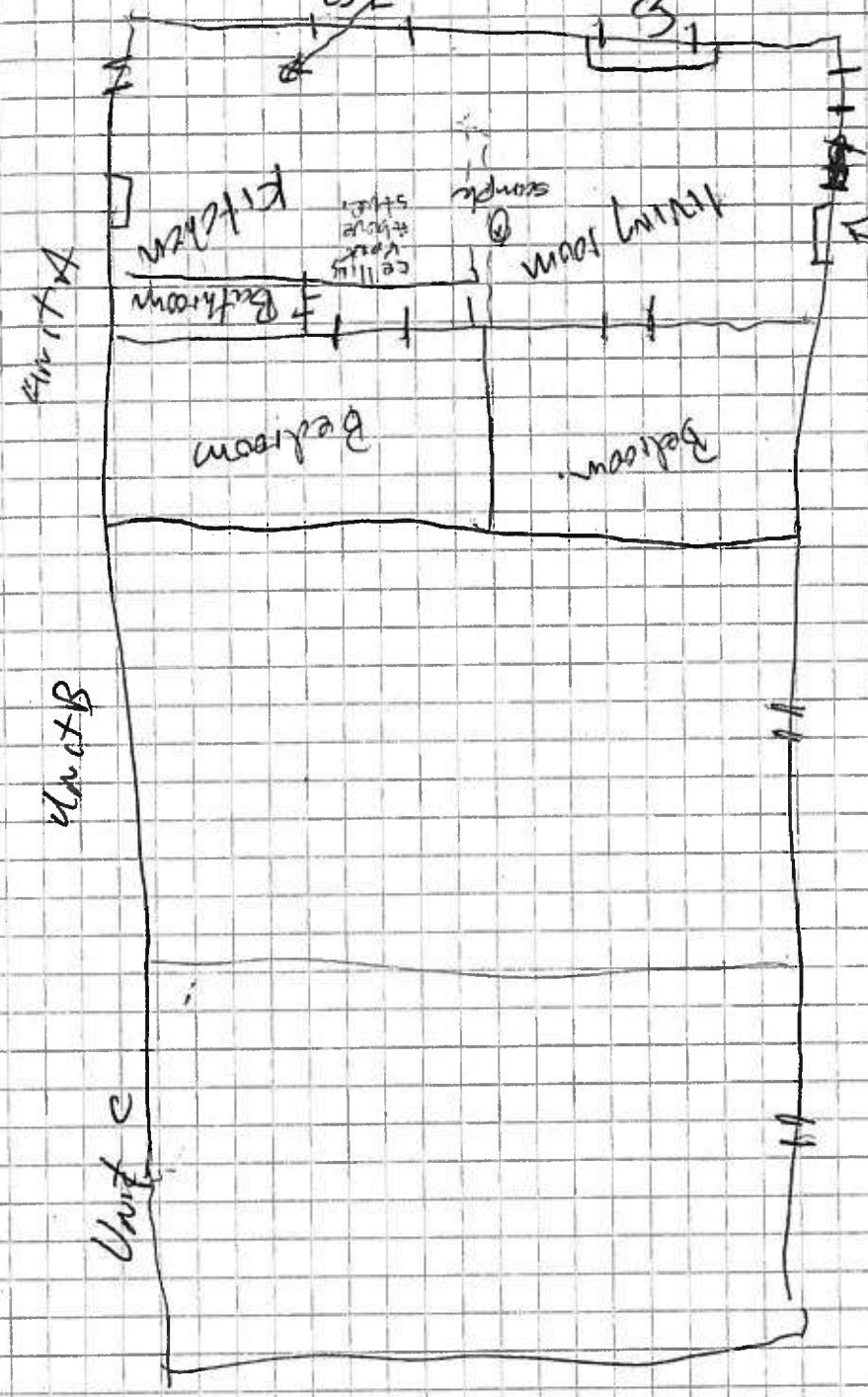
Date / Time : 4-17-15 / 1012

5215 - Unit A

McCallum

Sampler 763 NP 11:40

RH 50.3
Temp 72.2
Press 31.25
Sampler 762 N
11:30



Gap inside that gets air

Outside
RH 36.5
Temp 90.4
Press 31.25

~~Awesome~~ the
Paint
Wood Finish
glass elevation

~~to~~ ↑
Stored in
Kitchen
outside cab

Note: 25 screws to undo
shell grease can inside, empty dust

~~5215~~ 5215 McCallum #A (resample)

RH = 20.7 %
Temp = 85.7 °F
Press = 31.24 in Hg

Sampler ID: 914NP
Date/Time: 4-17-15 / 1245
⊗ sample clipped behind TV

5215 McCallum – Crawl Space:
RH: 18.2 %
Temp: 100.6 °F
Press: 31.24 in Hg

Sample Date/Time Retrieved:
4-17-15 / 1255

5226 McCallum # B

4-16-15

- slab on grade
- no central a/c
- ceiling fan in living room & bedroom

* sampler clipped to bedroom curtain

RH = 32.4 %.
Temp = 79.6 °F
press. = 31.24 in Hg

Sampler ID: 764NP
Start Date/Time: 4-16-15/10
End Date/Time: 4-23-15/10

McCallum

4-16-15

5226 McCallum # A

McCallum Ave

- Slab on grade
- ceiling fan in living room + bedroom
- no central A/C

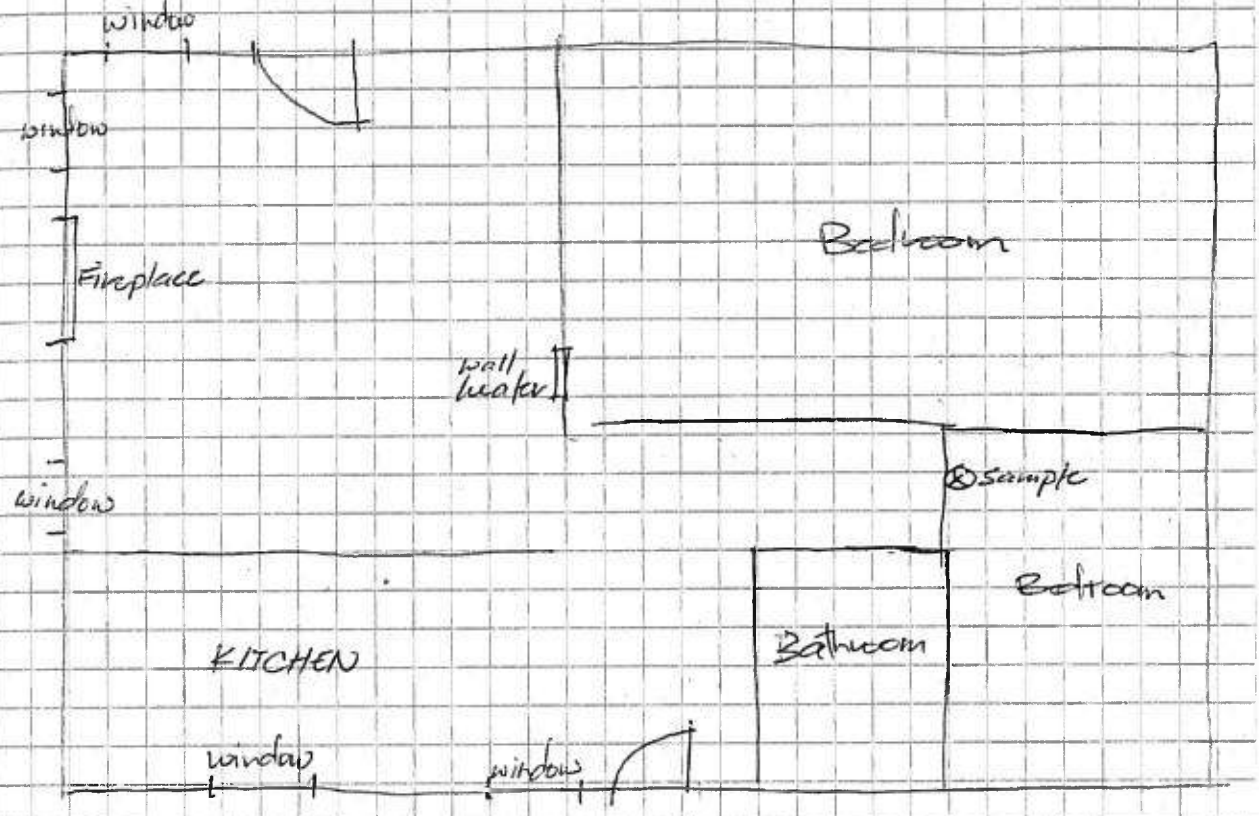
* sample clipped on living room lamp

RH = 19.3%
Temp = 81.0°F
Pres. = 31.23 in Hg

Sampler ID: 765NP
Start Date/Time: 4-16-15 / 1225
End Date/Time: 4-23-15 / 1100

4-17-15

5226 McCallum #D



- slab on grade
- ceiling fan in LR, & bedrooms
- no crawlspace
- no central A/C

RH = 22.9 %
Temp = 82.0 °F
Pres = 31.24 in Hg

Sampler ID: 913NP
Start Date / Time: 4-17-15 / 1230

Outdoor Ambient 4-17-15

Sampler ID: 915NP (5777-0A01-0415)

Date/Time Start 4-17-15 / 1738

RH = 28.8 %

Temp = 77.0 °F

Pres = 31.18 in Hg

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: 4/10/15 **Site** SALA **EPA Residence Location:** [redacted] RES01
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Survey Preparer's Name Heather Parker

Affiliation U.S. EPA Date 4/10/15

PART 1: General Information

Occupant Information/ *Información del Ocupante*

Address/ Dirección: [redacted]

Occupant Name/ Nombre del Ocupante: [redacted]

Interviewed/ Entrevistado: ☑ Yes ☐ No

Phone/ Teléfono: [redacted] Email: _____

Consent Access/ Permiso de Acceso ☑ Yes ☐ No Date/ Fecha _____

Owner/Landlord Information *(if applicable)/ Propietario / Información del inquilino (si aplica)*

Name/ Nombre: [redacted]

Interviewed/ Entrevistado: ☐ Yes ☐ No

Phone/ Teléfono: [redacted] Email: _____

Building Type *(Check appropriate boxes)/ Tipo de Edificio*

☑ Single-Family/ Familia Singular ☐ Duplex ☐ Condominium/Townhouse/ Condominio

☐ Apartment Building/ Apartamento ☐ Mobile Home/Trailer/ Movil/Remolque

Other/ Otro ☐ _____

How long have you been living in the residence?/ ¿Cuánto tiempo has estado viviendo en la residencia? 10 years

What times of day is building likely to receive ventilation? / ¿A qué tiempos durante el día es más probable que la residencia reciba ventilación? doors and windows closed for most of day - sometimes open later in evening

In general sampling should be biased toward times when the heater is operating and the home is closed.

En general, el muestreo deberá hacerse cuando la calefacción esté operando y la casa está cerrada.

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES01

Fecha: _____ Sitio: _____ EPA Residencia #: _____

Are the heating /cooling systems routinely operated? / ¿Los sistemas de calefacción / refrigeración operan habitualmente? ☑ Yes ☐ No

If yes, what times of the day and months during the year? / ¿Qué épocas durante el día y en que meses? heater is used during cooler weather

Building Characteristics ***Características del Edificio***

Year /Decade Built/ Año / Década de construcción: _____

Number of Stories/ Número de Pisos: _____

Approximate Building Area (square feet)/ área aproximada de construcción (pies cuadrados):

_____ First Floor/ Primer Piso: _____

If there is an attached garage describe its use/ Si hay un garaje pegado a la casa describa su uso:

Unattached garage used for washer and drier

Foundation Type (Check appropriate boxes) Tipo de Cimiento (Marque las casillas apropiadas):

☐ Slab-on-Grade Cimento sin sótano

☑ Crawl Space Semisótano

☐ Sump Pump Bomba de Sumidero

☐ Concrete Cracks Grietas en el concreto

☐ Floor Drains Drenajes en el suelo

Condition of Concrete Floor Condición del piso de concreto _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES01

Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 2: Factors Impacting Indoor Air Quality/ Factores que impactan la calidad del aire interior

Describe remodeling activities occurred over the last 6 months (what was done, what area, and when)/ Describir las actividades de remodelación que se produjeron durante los últimos 6 meses (lo que se hizo, qué área, y cuando):

None

Does anyone use/ Hace uso cualquiera:

☐ smokes/ fumadores ☐ candles/ velas ☐ incense/ incienso

☐ air freshener/ ambientador ☐ fireplace/chimenea

☐ dry cleaned clothes/fabricas ropa o telas de la"tintorería" o de lavar en seco

Does anyone work with chemicals (such as a painter, or a mechanic) ¿Alguien trabaja con productos químicos (como un mecánico, o pintor)?

No

Have site chemicals been used or stored in building or adjacent garage (including degreasers, brake fluid cleaners, WD-40, drain cleaner, etc)? /Se han utilizado o almacenado químicos en el edificio o en el garaje adyacente? (incluyendo desengrasante, limpiador de líquido o aceite de los frenos, WD-40, limpiador de desagües, etc)

☑ Yes ☐ No

Please list the chemicals/ Por favor enumera los químicos

Describe any instance of water/groundwater present in the basement/crawlspace (including sumps) Describa cualquier instancia de agua / aguas subterráneas presentes en el sótano o espacio de acceso (incluyendo sumideros):

No

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES01
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Are there conduits for sewer gases to enter the building (dry p-traps, open clean-outs, abandoned hook-ups, poorly installed/sealed/seated plumbing)?/ ¿Hay conductos para que los gases de las alcantarillas entren en el edificio (tapón de estilo-P seco, tubería abierta, conexiones abandonadas, plomería mal instalados / sellado)?: Describe/ Describa:

No

Observations Observaciones:

What is the temperature relative to outside?/ ¿Cuál es la temperatura en relación con el exterior? House cooler than outside

What pathways to the subsurface were observed?/ ¿Qué vías hacia el subsuelo se observaron?

Are windows and door kept open?/ ¿Las ventanas y puertas se mantienen abiertas?

Windows sometimes open in afternoon

Ventilation system status and condition?/ El estado y condición del sistema de ventilación

Sometimes the house gets stuffy

Are intake or exhaust fans being used?/ Se utilizan ventiladores de admisión o de escape?

No

Is there evidence of significant negative pressure?/ ¿Hay evidencia de presión negativa significativa?

Do parts of the indoor environment appear stagnant? /¿Existe alguna parte o cuarto de la casa en donde el aire parece estancado (o en donde no corre el viento)?

Living room can be stuffy

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES01
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Describe any strong odors. / Describiré cualquier olor fuerte

No

Olores fuertes podría indicar posible pobre ventilación a su vez esto podrá interferir con los análisis

Building Occupancy **Ocupación del Edificio**

Number of Occupants/ Número de Ocupantes: 1 Adults/ Adultos: 1

Gender ratio/ Sexo relación: 1 male

General Age ranges/ Rangos Generales de Edades: _____

Children/ Niños

Number at Ages/ Número en las Edades: (<2) _____ (2-6)_____ (>7)_____

Other Information (that may be of importance in understanding the indoor air quality in residence) Otra información (que podría ser de importancia para entender la calidad del aire interior en la residencia):

Potential Sampling Locations/ Ubicación posible de muestreo

General notes on potential sample locations and type. / Notas generales sobre los posibles puntos de muestreo y tipo.

We ~~put the~~ hung the sampler on the blinds on the window behind the TV in the living room.

Tentative sampling date(s) and preferred times. / Fecha tentativa de muestreo (s) y los tiempos preferidos.

DATE/ Dia: 4/17/15

Time/ Hora : 9 (AM)/ PM

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENTIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES01
Fecha: _____ Sitio: _____ EPA Residencia #: _____

☑ **Crawlspace Sampling** **Muestreo de Semisótano**

Describe Crawlspace (Access Location, Height, and Vent Locations)/ Describa Semisótano (Ubicación del acceso, Altura, y Ubicaciones de las aperturas):

Sampler is in crawl space accessed from second grate from front of house; sampler is to the right from opening

☑ Dirt Floor/ Piso de Tierra ☐ Sealed/ Sellado ☐ Wet Surfaces/ Superficies Húmedas

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES01

Fecha: _____ Sitio: _____ EPA Residencia #: _____

On this page, draw the general floor plan of the building and denote potential locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.

En esta página, dibuja el plano general del edificio y marca posibles ubicaciones en donde poner las muestras. Indique la ubicación de las puertas, las ventanas, las fuentes de contaminantes del aire del interior y lecturas de los instrumentos de campo.

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES01
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 3: Inventory of Potential Indoor Chemical Sources: Inventario de Posibles Fuentes Químicos en el Interior:

Instructions: List items/products in the building or the attached garage that may contain site compounds of concern. These should be removed prior to sampling. List items/products that that give off significant volatiles as these may interfere with chemical analysis. Include chemicals that may be tracked into the house from an occupant. This could be chemical usage at work or in an attached workshop/garage. A portable instrument, such as a photo-ionization detector (PID) can be used to help locate volatile chemicals. Instrucciones: Lista de artículos / productos en el edificio o en el garaje adjunto que puedan contener compuestos del sitio. Estos deben ser retirados antes del muestreo. Nombrar el / los productos que emiten volátiles importantes que pueden interferir con el análisis químico. Incluya los productos químicos que pueden ser rastreados en la casa de un ocupante. Este podría ser el uso de químicos en el trabajo o en un taller / garaje adjunto. Un instrumento portátil, tal como un detector de fotoionización (PID) se puede utilizar para ayudar a localizar productos químicos volátiles.

Examples of products that may contain trichloroethene (TCE), such as gun cleaner, rubber cement, solvent degreasers, spot removers, correction fluid, electrical motor cleaner (also be aware that older products are more likely to contain TCE): Ejemplos de productos que pueden contener tricloroetileno (TCE) - limpiador de pistola, cemento de caucho, desengrasantes, disolventes, quitamanchas, líquido corrector, limpiador de motor eléctrico (también tenga en cuenta que los productos de mayor edad tienen más probabilidades de contener TCE):

Examples of significant volatile chemical sources such as gas powered equipment, gasoline storage cans, oil- based paint, paint thinner, nail polish remover, moth balls, perfumes, scented decorative items, insecticides: Ejemplos de fuentes químicas volátiles significativas tales como equipos con motor de gasolina, latas de almacenamiento de gasolina, pintura a base de aceite, sacapinturas, quitaesmalte, bolas de naftalina, perfumes, artículos de decoración perfumadas, insecticidas:

Potential chemical source Fuente Potencial de químico	**Location of Product Source** Lugar de origen del producto	**Photograph, ingredients, PID reading?** Fotografía, ingredientes, lectura del PID?

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES01
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 4: Building Ventilation Systems/ Construcción de sistemas de ventilación

Type(s) of Cooling/Heating Used (Check appropriate boxes)/ Tipo (s) de refrigeración / calefacción utilizados (Marque las casillas apropiadas)

- ☐ Central Forced Air (dueled)/ Aire central forzado (duelo)
- ☑ Natural Gas Furnace/ Horno de Gas Natural
- ☑ Air Conditioner?/ acondicionador de aire (window unit)
- ☐ Outdoor Air Intake?/ entrada de air exterior
- ☐ Floor Vents on the first floor? / respiraderos del piso en el primer piso

Location of the Furnace/ ubicación de horno _____

Which rooms have air supply/ ¿Qué habitaciones tienen suministro de aire? _____

Location of air returns/ Ubicación de retornos de aire _____

- ☑ Centrally located wall heater(s) /calentador de pared (es) localizados centralmente

Natural Gas or Electric?/ Gas Natural o eléctrico? natural gas

Location(s)/ Ubicación (s) on living room wall

- ☐ Centrally located floor heater(s)/ Calentador de piso situado en el centro

Natural Gas or Electric?/ Gas Natural o eléctrico?

Location(s)/ Ubicación (s) _____

- ☐ Electrical Radiators/ Radiadores Eléctricos

Location(s)/ Ubicación (s) _____

- ☐ Water/Steam Radiators/ Radiadores de agua / vapor

Location(s)/ Ubicación (s) _____

- ☐ Radiant Floor Heat/ Calefaccion radiante de suelo

Location(s) Ubicación (s) _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES01
Fecha: _____ Sitio: _____ EPA Residencia #: _____

☐ Wood Stove(s)/ Horno (s)/Estufa de madera

Location(s) Ubicación (s) _____

☐ Fireplace/ Chimenea

Location(s)/ Ubicación (s) _____

☑ Window /Wall Air Conditioning Units/ Unidades de Ventana / Pared De Aire Acondicionado

Location(s)/ Ubicación (s) in living room

Are the outdoor air vents opened (if equipped) Se abren los orificios de ventilación de aire exterior (si está equipado) _____

☐ Other (specify)/ Otro (especificar) _____

Are fans used?/ ¿Se utilizan los Ventiladores/abanicos?

☐ No ☑ Yes

Yes, Ceiling fans/ ventilador del techo ☑ in living room/dining room

Yes, Room Fans Ventiladores de la habitación ☐

Yes, Kitchen Exhaust colorantes de aire de la cocina ☐

Yes, Bathroom Exhaust cuarto de baño escape ☐

Yes, Attic/Whole house Fans ☐

Other (specify)/ Otro (especificar). _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RESO1

Fecha: _____ Sitio: _____ EPA Residencia #: _____

Additional Notes/ Notas Adicionales:

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: 4/10/15 **Site** SAIA **EPA Residence Location:** RES02
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Survey Preparer's Name Heather Parker

Affiliation: U.S. EPA Date 4/10/15

PART 1: General Information

Occupant Information/ *Información del Ocupante*

Address/ Dirección: [redacted]

Occupant Name/ Nombre del Ocupante: [redacted]

Interviewed/ Entrevistado: ☐Yes ☐No

Phone/ Teléfono: [redacted] Email: _____

Consent Access/ Permiso de Acceso ☑Yes ☐No Date/ Fecha _____

Owner/Landlord Information *(if applicable)/ Propietario / Información del inquilino (si aplica)*

Name/ Nombre [redacted]

Interviewed/ Entrevistado: ☐Yes ☐No

Phone/ Teléfono [redacted] Email: _____

Building Type *(Check appropriate boxes)/ Tipo de Edificio*

☐ Single-Family/ Familia Singular ☐ Duplex ☐ Condominium/Townhouse/ Condominio

☑ Apartment Building/ Apartamento ☐ Mobile Home/Trailer/ Movil/Remolque

Other/ Otro ☐ _____

How long have you been living in the residence?/ ¿Cuánto tiempo has estado viviendo en la residencia? 20 years

What times of day is building likely to receive ventilation? / ¿A qué tiempos durante el día es más probable que la residencia reciba ventilación? Open windows and doors at night

In general sampling should be biased toward times when the heater is operating and the home is closed.

En general, el muestreo deberá hacerse cuando la calefacción este operando y la casa está cerrada.

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES02
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Are the heating / cooling systems routinely operated? / ¿Los sistemas de calefacción / refrigeración operan habitualmente? ☐ Yes ☑ No

If yes, what times of the day and months during the year? / ¿Qué épocas durante el día y en que meses? but sometimes during the winter they use a space heater

Building Characteristics ***Características del Edificio***

Year /Decade Built/ Año / Década de construcción: _____

Number of Stories/ Número de Pisos: _____

Approximate Building Area (square feet)/ área aproximada de construcción (pies cuadrados):

_____ First Floor/ Primer Piso: _____

If there is an attached garage describe its use/ Si hay un garaje pegado a la casa describa su uso:

Unattached garage

Foundation Type (Check appropriate boxes) Tipo de Cimiento (Marque las casillas apropiadas):

☐ Slab-on-Grade Cimento sin sótano

☑ Crawl Space Semisótano

☐ Sump Pump Bomba de Sumidero

☐ Concrete Cracks Grietas en el concreto

☐ Floor Drains Drenajes en el suelo

Condition of Concrete Floor Condición del piso de concreto _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES02

Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 2: Factors Impacting Indoor Air Quality/ Factores que impactan la calidad del aire interior

Describe remodeling activities occurred over the last 6 months (what was done, what area, and when)/ Describir las actividades de remodelación que se produjeron durante los últimos 6 meses (lo que se hizo, qué área, y cuando):

they fixed some boards ~~de~~ below roof of house, and painted them

Does anyone use/ Hace uso cualquiera:

☐ smokes/ fumadores ☑ candles/ velas uses them in bedroom ☐ incense/ incienso

☑ air freshener/ ambientador one in living room ☐ fireplace/chimenea

☐ dry cleaned clothes/fabricas ropa o telas de la"tintorería" o de lavar en seco

Does anyone work with chemicals (such as a painter, or a mechanic) ¿Alguien trabaja con productos químicos (como un mecánico, o pintor)?

No

Have site chemicals been used or stored in building or adjacent garage (including degreasers, brake fluid cleaners, WD-40, drain cleaner, etc)? /Se han utilizado o almacenado químicos en el edificio o en el garaje adyacente? (incluyendo desengrasante, limpiador de líquido o aceite de los frenos, WD-40, limpiador de desagües, etc)

☐ Yes ☐ No

Please list the chemicals/ Por favor enumera los químicos

bleach

Describe any instance of water/groundwater present in the basement/crawlspace (including sumps) Describa cualquier instancia de agua / aguas subterráneas presentes en el sótano o espacio de acceso (incluyendo sumideros):

No

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES02
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Are there conduits for sewer gases to enter the building (dry p-traps, open clean-outs, abandoned hook-ups, poorly installed/sealed/seated plumbing)?/ ¿Hay conductos para que los gases de las alcantarillas entren en el edificio (tapón de estilo-P seco, tubería abierta, conexiones abandonadas, plomería mal instalados / sellado)?: Describe/ Describa:
~~See~~ See note in "other information

Observations Observaciones:

What is the temperature relative to outside?/ ¿Cuál es la temperatura en relación con el exterior? cooler inside and outside

What pathways to the subsurface were observed?/ ¿Qué vías hacia el subsuelo se observaron?

Are windows and door kept open?/ ¿Las ventanas y puertas se mantienen abiertas?
windows open at night

Ventilation system status and condition?/ El estado y condición del sistema de ventilación
The house is well ventilated

Are intake or exhaust fans being used?/ Se utilizan ventiladores de admisión o de escape?
in kitchen over stove

Is there evidence of significant negative pressure?/ ¿Hay evidencia de presión negativa significativa?
~~No~~

Do parts of the indoor environment appear stagnant? /¿Existe alguna parte o cuarto de la casa en donde el aire parece estancado (o en donde no corre el viento)?
No

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES02
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Describe any strong odors. / Describiré cualquier olor fuerte

No

Olores fuertes podría indicar posible pobre ventilación a su vez esto podrá interferir con los análisis

Building Occupancy **Ocupación del Edificio**

Number of Occupants/ Número de Ocupantes: 5 Adults/ Adultos: 4

Gender ratio/ Sexo relación: ~~3~~ 4

General Age ranges/ Rangos Generales de Edades: _____

Children/ Niños One child doesn't live there but sometimes comes to visit

Number at Ages/ Número en las Edades: (<2) _____ (2-6)_____ (>7) ✓

Other Information (that may be of importance in understanding the indoor air quality in residence) Otra información (que podría ser de importancia para entender la calidad del aire interior en la residencia):

in the living room, there is a unsealed area (a hole) between the wall and the floor that maybe goes to the crawl space

Potential Sampling Locations/ Ubicación posible de muestreo

General notes on potential sample locations and type. / Notas generales sobre los posibles puntos de muestreo y tipo.

sampler in living room on desk next to printer

Tentative sampling date(s) and preferred times. / Fecha tentativa de muestreo (s) y los tiempos preferidos.

DATE/ Dia: 4/17/15

Time/ Hora : 11:00 (AM) / PM

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RESOZ
Fecha: _____ Sitio: _____ EPA Residencia #: _____

☑ **Crawlspace Sampling** **Muestreo de Semisótano**

Describe Crawlspace (Access Location, Height, and Vent Locations)/ Describa Semisótano (Ubicación del acceso, Altura, y Ubicaciones de las aperturas):

sampler in crawl space accessible by grate at front of house, in crawl space there was a several gallon metal canister that said "Shell"

☑ Dirt Floor/ Piso de Tierra ☐ Sealed/ Sellado ☐ Wet Surfaces/ Superficies Húmedas

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES02
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 3: Inventory of Potential Indoor Chemical Sources: Inventario de Posibles Fuentes Químicos en el Interior:

Instructions: List items/products in the building or the attached garage that may contain site compounds of concern. These should be removed prior to sampling. List items/products that that give off significant volatiles as these may interfere with chemical analysis. Include chemicals that may be tracked into the house from an occupant. This could be chemical usage at work or in an attached workshop/garage. A portable instrument, such as a photo-ionization detector (PID) can be used to help locate volatile chemicals. Instrucciones: Lista de artículos / productos en el edificio o en el garaje adjunto que puedan contener compuestos del sitio. Estos deben ser retirados antes del muestreo. Nombrar el / los productos que emiten volátiles importantes que pueden interferir con el análisis químico. Incluya los productos químicos que pueden ser rastreados en la casa de un ocupante. Este podría ser el uso de químicos en el trabajo o en un taller / garaje adjunto. Un instrumento portátil, tal como un detector de fotoionización (PID) se puede utilizar para ayudar a localizar productos químicos volátiles.

Examples of products that may contain trichloroethene (TCE), such as gun cleaner, rubber cement, solvent degreasers, spot removers, correction fluid, electrical motor cleaner (also be aware that older products are more likely to contain TCE): Ejemplos de productos que pueden contener tricloroetileno (TCE) - limpiador de pistola, cemento de caucho, desengrasantes, disolventes, quitamanchas, líquido corrector, limpiador de motor eléctrico (también tenga en cuenta que los productos de mayor edad tienen más probabilidades de contener TCE):

Examples of significant volatile chemical sources such as gas powered equipment, gasoline storage cans, oil- based paint, paint thinner, nail polish remover, moth balls, perfumes, scented decorative items, insecticides: Ejemplos de fuentes químicas volátiles significativas tales como equipos con motor de gasolina, latas de almacenamiento de gasolina, pintura a base de aceite, sacapinturas, quitaesmalte, bolas de naftalina, perfumes, artículos de decoración perfumadas, insecticidas:

Potential chemical source Fuente Potencial de químico	**Location of Product Source** Lugar de origen del producto	**Photograph, ingredients, PID reading?** Fotografía, ingredientes, lectura del PID?

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES02
Fecha: _____ Sitio: _____ EPA Residencia #: _____

On this page, draw the general floor plan of the building and denote potential locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.

En esta página, dibuja el plano general del edificio y marca posibles ubicaciones en donde poner las muestras. Indique la ubicación de las puertas, las ventanas, las fuentes de contaminantes del aire del interior y lecturas de los instrumentos de campo.

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES02
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 4: Building Ventilation Systems/ Construcción de sistemas de ventilación

Type(s) of Cooling/Heating Used (Check appropriate boxes)/ Tipo (s) de refrigeración / calefacción utilizados (Marque las casillas apropiadas)

☐ Central Forced Air (dueled)/ Aire central forzado (duelo)

☑ Natural Gas Furnace/ Horno de Gas Natural

☐ Air Conditioner?/ acondicionador de aire

☐ Outdoor Air Intake?/ entrada de air exterior

☐ Floor Vents on the first floor? / respiraderos del piso en el primer piso

Location of the Furnace/ ubicación de horno _____

Which rooms have air supply/ ¿Qué habitaciones tienen suministro de aire? _____

Location of air returns/ Ubicación de retornos de aire _____

☑ Centrally located wall heater(s) /calentador de pared (es) localizados centralmente

Natural Gas or Electric?/ Gas Natural o eléctrico? gas

Location(s)/ Ubicación (s) One located in livingroom and one space heater

☐ Centrally located floor heater(s)/ Calentador de piso situado en el centro

Natural Gas or Electric?/ Gas Natural o eléctrico?

Location(s)/ Ubicación (s) _____

☐ Electrical Radiators/ Radiadores Eléctricos

Location(s)/ Ubicación (s) _____

☐ Water/Steam Radiators/ Radiadores de agua / vapor

Location(s)/ Ubicación (s) _____

☐ Radiant Floor Heat/ Calefaccion radiante de suelo

Location(s) Ubicación (s) _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES02
Fecha: _____ Sitio: _____ EPA Residencia #: _____

☐ Wood Stove(s)/ Horno (s)/Estufa de madera

Location(s) Ubicación (s) _____

☐ Fireplace/ Chimenea

Location(s)/ Ubicación (s) _____

☐ Window /Wall Air Conditioning Units/ Unidades de Ventana / Pared De Aire Acondicionado

Location(s)/ Ubicación (s) _____

Are the outdoor air vents opened (if equipped) Se abren los orificios de ventilación de aire exterior (si está equipado) _____

☐ Other (specify)/ Otro (especificar) _____

Are fans used?/ ¿Se utilizan los Ventiladores/abanicos?

☐ No ☐ Yes

Yes, Ceiling fans/ ventilador del techo ☑ in living room

Yes, Room Fans Ventiladores de la habitación ☐

Yes, Kitchen Exhaust colorantes de aire de la cocina ☐

Yes, Bathroom Exhaust cuarto de baño escape ☐

Yes, Attic/Whole house Fans ☐

Other (specify)/ Otro (especificar). 3 portable fans

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES02

Fecha: _____ Sitio: _____ EPA Residencia #: _____

Additional Notes/ Notas Adicionales:

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: 4/16/15 **Site** SALA **EPA Residence Location:** RES03
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Survey Preparer's Name Heather Parker

Affiliation: U.S. EPA Date 4/16/15

PART 1: General Information

Occupant Information/ *Información del Ocupante*

Address/ Dirección: [redacted]

Occupant Name/ Nombre del Ocupante: [redacted]

Interviewed/ Entrevistado: ☑ Yes ☐ No

Phone/ Teléfono: [redacted] Email: _____

Consent Access/ Permiso de Acceso ☑ Yes ☐ No Date/ Fecha _____

Owner/Landlord Information (if applicable)/ *Propietario / Información del inquilino (si aplica)*

Name/ Nombre: [redacted]

Interviewed/ Entrevistado: ☐ Yes ☑ No

Phone/ Teléfono: [redacted] Email: [redacted]

Building Type *(Check appropriate boxes)/ Tipo de Edificio*

☐ Single-Family/ Familia Singular ☐ Duplex ☐ Condominium/Townhouse/ Condominio

☑ Apartment Building/ Apartamento ☐ Mobile Home/Trailer/ Movil/Remolque

Other/ Otro ☐ _____

How long have you been living in the residence?/ ¿Cuánto tiempo has estado viviendo en la residencia? 4 years

What times of day is building likely to receive ventilation? / ¿A qué tiempos durante el día es más probable que la residencia reciba ventilación? Windows and doors open for most of the day on kitchen side of house

In general sampling should be biased toward times when the heater is operating and the home is closed.

En general el muestreo debería hacerse cuando la calefacción esté operando y la casa esté cerrada

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES03
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Are the heating / cooling systems routinely operated? / ¿Los sistemas de calefacción / refrigeración operan habitualmente? ☐ Yes ☑ No

If yes, what times of the day and months during the year? / ¿Qué épocas durante el día y en que meses? _____

Building Characteristics *Características del Edificio*

Year /Decade Built/ Año / Década de construcción: _____

Number of Stories/ Número de Pisos: _____

Approximate Building Area (square feet)/ área aproximada de construcción (pies cuadrados):

_____ First Floor/ Primer Piso: _____

If there is an attached garage describe its use/ Si hay un garaje pegado a la casa describa su uso:

Garage is attached, used for storage, sometimes for carport, husband spends a lot of time in garage → they use it as an extension of the house

Foundation Type (Check appropriate boxes) Tipo de Cimiento (Marque las casillas apropiadas):

☑ Slab-on-Grade Cimento sin sótano

☐ Crawl Space Semisótano

☐ Sump Pump Bomba de Sumidero

☐ Concrete Cracks Grietas en el concreto

☐ Floor Drains Drenajes en el suelo

Condition of Concrete Floor Condición del piso de concreto good condition

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES03
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 2: Factors Impacting Indoor Air Quality/ Factores que impactan la calidad del aire interior

Describe remodeling activities occurred over the last 6 months (what was done, what area, and when)/ Describir las actividades de remodelación que se produjeron durante los últimos 6 meses (lo que se hizo, qué área, y cuando):

No

Does anyone use/ Hace uso cualquiera:

- ☐ smokes/ fumadores
- ☐ candles/ velas
- ☐ incense/ incienso
- ☐ air freshener/ ambientador
- ☐ fireplace/chimenea
- ☐ dry cleaned clothes/fabricas ropa o telas de la"tintorería" o de lavar en seco

Does anyone work with chemicals (such as a painter, or a mechanic) ¿Alguien trabaja con productos químicos (como un mecánico, o pintor)?

No

Have site chemicals been used or stored in building or adjacent garage (including degreasers, brake fluid cleaners, WD-40, drain cleaner, etc)? /Se han utilizado o almacenado químicos en el edificio o en el garaje adyacente? (incluyendo desengrasante, limpiador de líquido o aceite de los frenos, WD-40, limpiador de desagües, etc)

☑ Yes ☑ No

Please list the chemicals/ Por favor enumera los químicos

bleach is stored outside

Describe any instance of water/groundwater present in the basement/crawlspace (including sumps) Describa cualquier instancia de agua / aguas subterráneas presentes en el sótano o espacio de acceso (incluyendo sumideros):

No

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES03

Fecha: _____ Sitio: _____ EPA Residencia #: _____

Are there conduits for sewer gases to enter the building (dry p-traps, open clean-outs, abandoned hook-ups, poorly installed/sealed/seated plumbing)?/ ¿Hay conductos para que los gases de las alcantarillas entren en el edificio (tapón de estilo-P seco, tubería abierta, conexiones abandonadas, plomería mal instalados / sellado)?: Describe/ Describa:

No

Observations *Observaciones:*

What is the temperature relative to outside?/ ¿Cuál es la temperatura en relación con el exterior? Cooler inside than outside

What pathways to the subsurface were observed?/ ¿Qué vías hacia el subsuelo se observaron?

Are windows and door kept open? /¿Las ventanas y puertas se mantienen abiertas?

Yes, windows and doors in back of house are often kept open

Ventilation system status and condition?/ El estado y condición del sistema de ventilación

Very rarely use fans, most ventilation from doors and windows

Are intake or exhaust fans being used?/ Se utilizan ventiladores de admisión o de escape?

have one in the kitchen

Is there evidence of significant negative pressure?/ ¿Hay evidencia de presión negativa significativa?

Do parts of the indoor environment appear stagnant? /¿Existe alguna parte o cuarto de la casa en donde el aire parece estancado (o en donde no corre el viento)?

No, house is well ventilated

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES03
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Describe any strong odors. / Describiré cualquier olor fuerte

No

Olores fuertes podría indicar posible pobre ventilación a su vez esto podrá interferir con los análisis

Building Occupancy **Ocupación del Edificio**

Number of Occupants/ Número de Ocupantes: 4 Adults/ Adultos: 2

Gender ratio/ Sexo relación: 2 females

General Age ranges/ Rangos Generales de Edades: _____

Children/ Niños 2

Number at Ages/ Número en las Edades: (<2) _____ (2-6) 1 ✓ (>7) 1 ✓

Other Information (that may be of importance in understanding the indoor air quality in residence) Otra información (que podría ser de importancia para entender la calidad del aire interior en la residencia):

No

Potential Sampling Locations/ Ubicación posible de muestreo

General notes on potential sample locations and type. / Notas generales sobre los posibles puntos de muestreo y tipo.

sampler is hung on lamp by large clock in living room

Tentative sampling date(s) and preferred times. / Fecha tentativa de muestreo (s) y los tiempos preferidos.

DATE/ Dia: 4/23/15

Time/ Hora : 12:00 AM / (PM)

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES03
Fecha: _____ Sitio: _____ EPA Residencia #: _____

☐ **Crawlspace Sampling** Muestreo de Semisótano

Describe Crawlspace (Access Location, Height, and Vent Locations)/ Describa Semisótano (Ubicación del acceso, Altura, y Ubicaciones de las aperturas):

_____

_____

_____

☐ Dirt Floor/ Piso de Tierra ☐ Sealed/ Sellado ☐ Wet Surfaces/ Superficies Húmedas

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES03

Fecha: _____ Sitio: _____ EPA Residencia #: _____

On this page, draw the general floor plan of the building and denote potential locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.

En esta página, dibuja el plano general del edificio y marca posibles ubicaciones en donde poner las muestras. Indique la ubicación de las puertas, las ventanas, las fuentes de contaminantes del aire del interior y lecturas de los instrumentos de campo.

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES03
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 3: Inventory of Potential Indoor Chemical Sources: Inventario de Posibles Fuentes Químicos en el Interior:

Instructions: List items/products in the building or the attached garage that may contain site compounds of concern. These should be removed prior to sampling. List items/products that that give off significant volatiles as these may interfere with chemical analysis. Include chemicals that may be tracked into the house from an occupant. This could be chemical usage at work or in an attached workshop/garage. A portable instrument, such as a photo-ionization detector (PID) can be used to help locate volatile chemicals. Instrucciones: Lista de artículos / productos en el edificio o en el garaje adjunto que puedan contener compuestos del sitio. Estos deben ser retirados antes del muestreo. Nombrar el / los productos que emiten volátiles importantes que pueden interferir con el análisis químico. Incluya los productos químicos que pueden ser rastreados en la casa de un ocupante. Este podría ser el uso de químicos en el trabajo o en un taller / garaje adjunto. Un instrumento portátil, tal como un detector de fotoionización (PID) se puede utilizar para ayudar a localizar productos químicos volátiles.

Examples of products that may contain trichloroethene (TCE), such as gun cleaner, rubber cement, solvent degreasers, spot removers, correction fluid, electrical motor cleaner (also be aware that older products are more likely to contain TCE): Ejemplos de productos que pueden contener tricloroetileno (TCE) - limpiador de pistola, cemento de caucho, desengrasantes, disolventes, quitamanchas, líquido corrector, limpiador de motor eléctrico (también tenga en cuenta que los productos de mayor edad tienen más probabilidades de contener TCE):

Examples of significant volatile chemical sources such as gas powered equipment, gasoline storage cans, oil- based paint, paint thinner, nail polish remover, moth balls, perfumes, scented decorative items, insecticides: Ejemplos de fuentes químicas volátiles significativas tales como equipos con motor de gasolina, latas de almacenamiento de gasolina, pintura a base de aceite, sacapinturas, quitaesmalte, bolas de naftalina, perfumes, artículos de decoración perfumadas, insecticidas:

Potential chemical source Fuente Potencial de químico	**Location of Product Source** Lugar de origen del producto	**Photograph, ingredients, PID reading?** Fotografía, ingredientes, lectura del PID?

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES03

Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 4: Building Ventilation Systems/ Construcción de sistemas de ventilación

Type(s) of Cooling/Heating Used (Check appropriate boxes)/ Tipo (s) de refrigeración / calefacción utilizados (Marque las casillas apropiadas)

☐ Central Forced Air (dueled)/ Aire central forzado (duelo)

☐ Natural Gas Furnace/ Horno de Gas Natural

☐ Air Conditioner?/ acondicionador de aire

☐ Outdoor Air Intake?/ entrada de air exterior

☐ Floor Vents on the first floor? / respiraderos del piso en el primer piso

Location of the Furnace/ ubicación de horno _____

Which rooms have air supply/ ¿Qué habitaciones tienen suministro de aire? _____

Location of air returns/ Ubicación de retornos de aire _____

☑ Centrally located wall heater(s) /calentador de pared (es) localizados centralmente

Natural Gas or Electric?/ Gas Natural o eléctrico? gas

Location(s)/ Ubicación (s) One on wall of living room

☐ Centrally located floor heater(s)/ Calentador de piso situado en el centro

Natural Gas or Electric?/ Gas Natural o eléctrico?

Location(s)/ Ubicación (s) _____

☑ Electrical Radiators/ Radiadores Eléctricos

Location(s)/ Ubicación (s) keeps them outside, only uses them when it's very cold

☐ Water/Steam Radiators/ Radiadores de agua / vapor

Location(s)/ Ubicación (s) _____

☐ Radiant Floor Heat/ Calefaccion radiante de suelo

Location(s) Ubicación (s) _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES03
Fecha: _____ Sitio: _____ EPA Residencia #: _____

☐ Wood Stove(s)/ Horno (s)/Estufa de madera

Location(s) Ubicación (s) _____

☐ Fireplace/ Chimenea

Location(s)/ Ubicación (s) _____

☐ Window/Wall Air Conditioning Units/ Unidades de Ventana / Pared De Aire Acondicionado

Location(s)/ Ubicación (s) _____

Are the outdoor air vents opened (if equipped) Se abren los orificios de ventilación de aire exterior (si está equipado) _____

☐ Other (specify)/ Otro (especificar) _____

Are fans used?/ ¿Se utilizan los Ventiladores/abanicos?

☐ No ☑ Yes but very rarely

Yes, Ceiling fans/ ventilador del techo ✓ one in bedroom and one in living room

Yes, Room Fans Ventiladores de la habitación ☐

Yes, Kitchen Exhaust colorantes de aire de la cocina ☐

Yes, Bathroom Exhaust cuarto de baño escape ☐

Yes, Attic/Whole house Fans ☐

Other (specify)/ Otro (especificar) _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES03

Fecha: _____ Sitio: _____ EPA Residencia #: _____

Additional Notes/ Notas Adicionales:

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Sitio:

Heather

U.S FDA 4/16/15

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[redacted] ✓ hey are heater very wel

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No

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No

No

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N/A

No

Cooler inside than outside

No

Yes from 1 PM onwards

When it's hot, they use ceiling fans

No

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No

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PART 3: Inventory of Potential Indoor Chemical Sources:

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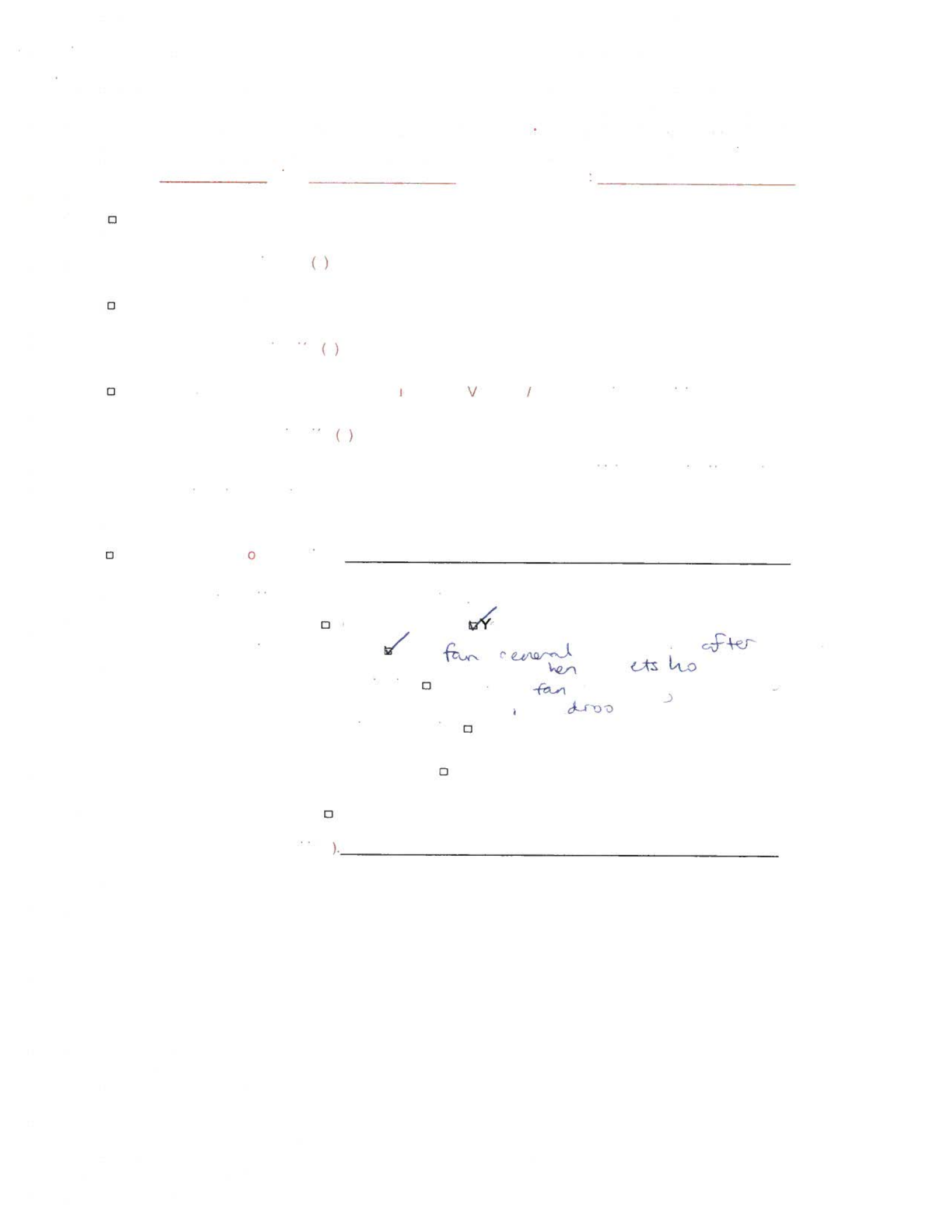

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES04

Fecha: _____ Sitio: _____ EPA Residencia #: _____

Additional Notes/ Notas Adicionales:

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Heater inside

parts or all day kept open closed @ night

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Back corner App

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PART 3: Inventory of Potential Indoor Chemical Sources:

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Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES05

Fecha: _____ Sitio: _____ EPA Residencia #: _____

Additional Notes/ Notas Adicionales:

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: 4/9/15 **Site** SAIA **EPA Residence Location:** ~~RES08-B~~

Fecha: _____ Sitio: _____ EPA Residencia #: RES06

Survey Preparer's Name Heather Parker

Affiliation: U.S. EPA Date 4/9/15

PART 1: General Information

Occupant Information/ *Información del Ocupante*

Address/ Dirección: [redacted]

Occupant Name/ Nombre del Ocupante: [redacted]

Interviewed/ Entrevistado: ☑ Yes ☐ No

Phone/ Teléfono: [redacted] Email: _____

Consent Access/ Permiso de Acceso ☐ Yes ☐ No Date/ Fecha _____

Owner/Landlord Information *(if applicable)/ Propietario / Información del inquilino (si aplica)*

Name/ Nombre: [redacted]

Interviewed/ Entrevistado: ☐ Yes ☐ No

Phone/ Teléfono: [redacted] Email: _____

Building Type *(Check appropriate boxes)/ Tipo de Edificio*

☐ Single-Family/ Familia Singular ☑ Duplex ☐ Condominium/Townhouse/ Condominio

☐ Apartment Building/ Apartamento ☐ Mobile Home/Trailer/ Movil/Remolque

Other/ Otro ☐ _____

How long have you been living in the residence?/ ¿Cuánto tiempo has estado viviendo en la residencia? ~40 years

What times of day is building likely to receive ventilation? / ¿A qué tiempos durante el día es más probable que la residencia reciba ventilación? 10 AM - 5 PM

In general sampling should be biased toward times when the heater is operating and the home is closed.

En general el muestreo debera hacerse cuando la calefacción este operando y la casa esta cerrada.

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES06
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Are the heating / cooling systems routinely operated? / ¿Los sistemas de calefacción / refrigeración operan habitualmente? ☐ Yes ☑ No

If yes, what times of the day and months during the year? / ¿Qué épocas durante el día y en que meses? almost never use them

Building Characteristics ***Características del Edificio***

Year /Decade Built/ Año / Década de construcción: _____

Number of Stories/ Número de Pisos: _____

Approximate Building Area (square feet)/ área aproximada de construcción (pies cuadrados):

_____ First Floor/ Primer Piso: _____

If there is an attached garage describe its use/ Si hay un garaje pegado a la casa describa su uso:

use garage for storage (but they possibly also use it for hobbies); garage unattached

Foundation Type (Check appropriate boxes) Tipo de Cimiento (Marque las casillas apropiadas):

☑ Slab-on-Grade Cimento sin sótano

☐ Crawl Space Semisótano

☐ Sump Pump Bomba de Sumidero

☐ Concrete Cracks Grietas en el concreto

☑ Floor Drains Drenajes en el suelo

Condition of Concrete Floor Condición del piso de concreto good

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES06
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 2: Factors Impacting Indoor Air Quality/ Factores que impactan la calidad del aire interior

Describe remodeling activities occurred over the last 6 months (what was done, what area, and when)/ Describir las actividades de remodelación que se produjeron durante los últimos 6 meses (lo que se hizo, qué área, y cuando):

None

Does anyone use/ Hace uso cualquiera:

☐ smokes/ fumadores ☐ candles/ velas ☐ incense/ incienso

☐ air freshener/ ambientador ☐ fireplace/chimenea

☐ dry cleaned clothes/fabricas ropa o telas de la"tintorería" o de lavar en seco

Does anyone work with chemicals (such as a painter, or a mechanic) ¿Alguien trabaja con productos químicos (como un mecánico, o pintor)?

No

Have site chemicals been used or stored in building or adjacent garage (including degreasers, brake fluid cleaners, WD-40, drain cleaner, etc)? /Se han utilizado o almacenado químicos en el edificio o en el garaje adyacente? (incluyendo desengrasante, limpiador de líquido o aceite de los frenos, WD-40, limpiador de desagües, etc)

☐ Yes ☑ No

Please list the chemicals/ Por favor enumera los químicos

(We did note 2 cans of spraypaint by window in front of house)

Describe any instance of water/groundwater present in the basement/crawlspace (including sumps) Describa cualquier instancia de agua / aguas subterráneas presentes en el sótano o espacio de acceso (incluyendo sumideros):

None

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RE506
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Are there conduits for sewer gases to enter the building (dry p-traps, open clean-outs, abandoned hook-ups, poorly installed/sealed/seated plumbing)?/ ¿Hay conductos para que los gases de las alcantarillas entren en el edificio (tapón de estilo-P seco, tubería abierta, conexiones abandonadas, plomería mal instalados / sellado)?: Describe/ Describa:

None

Observations Observaciones:

What is the temperature relative to outside?/ ¿Cuál es la temperatura en relación con el exterior? Cooler than outside

What pathways to the subsurface were observed?/ ¿Qué vías hacia el subsuelo se observaron?

Are windows and door kept open? /¿Las ventanas y puertas se mantienen abiertas?

Yes, during the day

Ventilation system status and condition?/ El estado y condición del sistema de ventilación

Have air conditioning (window unit) and heater in the living room

Are intake or exhaust fans being used?/ Se utilizan ventiladores de admisión o de escape?

No

Is there evidence of significant negative pressure?/ ¿Hay evidencia de presión negativa significativa?

Do parts of the indoor environment appear stagnant? /¿Existe alguna parte o cuarto de la casa en donde el aire parece estancado (o en donde no corre el viento)?

No

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES06
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Describe any strong odors. / Describiré cualquier olor fuerte

No

Olores fuertes podría indicar posible pobre ventilación a su vez esto podrá interferir con los análisis

Building Occupancy **Ocupación del Edificio**

Number of Occupants/ Número de Ocupantes: 1 (baby sometimes comes to visit) Adults/ Adultos: 1

Gender ratio/ Sexo relación: 1 female

General Age ranges/ Rangos Generales de Edades: older female

Children/ Niños

Number at Ages/ Número en las Edades: (<2) sometimes an infant comes to visit (2-6)_____ (>7)_____

Other Information (that may be of importance in understanding the indoor air quality in residence) Otra información (que podría ser de importancia para entender la calidad del aire interior en la residencia):

Potential Sampling Locations/ Ubicación posible de muestreo

General notes on potential sample locations and type. / Notas generales sobre los posibles puntos de muestreo y tipo.

~~bed~~ back bedroom windowsill

Tentative sampling date(s) and preferred times. / Fecha tentativa de muestreo (s) y los tiempos preferidos.

DATE/ Dia: 4/16/15

Time/ Hora : ~~1:00~~ 1:00 AM / (PM)

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES06
Fecha: _____ Sitio: _____ EPA Residencia #: _____

☐ **Crawlspace Sampling** **Muestreo de Semisótano**

Describe Crawlspace (Access Location, Height, and Vent Locations)/ Describa Semisótano (Ubicación del acceso, Altura, y Ubicaciones de las aperturas):

_____

_____

_____

☐ Dirt Floor/ Piso de Tierra ☐ Sealed/ Sellado ☐ Wet Surfaces/ Superficies Húmedas

[redacted]

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENTIAL NO COMPARTIR]

Date: 4/9/15 **Site** SAIA **EPA Residence Location:** RES0[redacted]6

Fecha: _____ Sitio: _____ EPA Residencia #: _____

On this page, draw the general floor plan of the building and denote potential locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.

En esta página, dibuja el plano general del edificio y marca posibles ubicaciones en donde poner las muestras. Indique la ubicación de las puertas, las ventanas, las fuentes de contaminantes del aire del interior y lecturas de los instrumentos de campo.

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: 4/9/15 **Site** SAIA **EPA Residence Location:** RES0[redacted]6

Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 3: Inventory of Potential Indoor Chemical Sources: Inventario de Posibles Fuentes Químicos en el Interior:

Instructions: List items/products in the building or the attached garage that may contain site compounds of concern. These should be removed prior to sampling. List items/products that that give off significant volatiles as these may interfere with chemical analysis. Include chemicals that may be tracked into the house from an occupant. This could be chemical usage at work or in an attached workshop/garage. A portable instrument, such as a photo-ionization detector (PID) can be used to help locate volatile chemicals. Instrucciones: Lista de artículos / productos en el edificio o en el garaje adjunto que puedan contener compuestos del sitio. Estos deben ser retirados antes del muestreo. Nombrar el / los productos que emiten volátiles importantes que pueden interferir con el análisis químico. Incluya los productos químicos que pueden ser rastreados en la casa de un ocupante. Este podría ser el uso de químicos en el trabajo o en un taller / garaje adjunto. Un instrumento portátil, tal como un detector de fotoionización (PID) se puede utilizar para ayudar a localizar productos químicos volátiles.

Examples of products that may contain trichloroethene (TCE), such as gun cleaner, rubber cement, solvent degreasers, spot removers, correction fluid, electrical motor cleaner (also be aware that older products are more likely to contain TCE): Ejemplos de productos que pueden contener tricloroetileno (TCE) - limpiador de pistola, cemento de caucho, desengrasantes, disolventes, quitamanchas, líquido corrector, limpiador de motor eléctrico (también tenga en cuenta que los productos de mayor edad tienen más probabilidades de contener TCE):

Examples of significant volatile chemical sources such as gas powered equipment, gasoline storage cans, oil- based paint, paint thinner, nail polish remover, moth balls, perfumes, scented decorative items, insecticides: Ejemplos de fuentes químicas volátiles significativas tales como equipos con motor de gasolina, latas de almacenamiento de gasolina, pintura a base de aceite, sacapinturas, quitaesmalte, bolas de naftalina, perfumes, artículos de decoración perfumadas, insecticidas:

Potential chemical source Fuente Potencial de químico	**Location of Product Source** Lugar de origen del producto	**Photograph, ingredients, PID reading?** Fotografía, ingredientes, lectura del PID?
Rustoleum Paint in	rear door window 2	cans -

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES06
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 4: Building Ventilation Systems/ Construcción de sistemas de ventilación

Type(s) of Cooling/Heating Used (Check appropriate boxes)/ Tipo (s) de refrigeración / calefacción utilizados (Marque las casillas apropiadas)

☐ Central Forced Air (dueled)/ Aire central forzado (duelo)

☑ Natural Gas Furnace/ Horno de Gas Natural

☑ Air Conditioner?/ acondicionador de aire (window unit)

☑ Outdoor Air Intake?/ entrada de air exterior

☐ Floor Vents on the first floor? / respiraderos del piso en el primer piso

Location of the Furnace/ ubicación de horno _____

Which rooms have air supply/ ¿Qué habitaciones tienen suministro de aire? _____

Location of air returns/ Ubicación de retornos de aire _____

☑ Centrally located wall heater(s) /calentador de pared (es) localizados centralmente

Natural Gas or Electric?/ Gas Natural o eléctrico? gas

Location(s)/ Ubicación (s) living room

☐ Centrally located floor heater(s)/ Calentador de piso situado en el centro

Natural Gas or Electric?/ Gas Natural o eléctrico?

Location(s)/ Ubicación (s) _____

☐ Electrical Radiators/ Radiadores Eléctricos

Location(s)/ Ubicación (s) _____

☐ Water/Steam Radiators/ Radiadores de agua / vapor

Location(s)/ Ubicación (s) _____

☐ Radiant Floor Heat/ Calefaccion radiante de suelo

Location(s) Ubicación (s) _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES06
Fecha: _____ Sitio: _____ EPA Residencia #: _____

☐ Wood Stove(s)/ Horno (s)/Estufa de madera

Location(s) Ubicación (s) _____

☐ Fireplace/ Chimenea

Location(s)/ Ubicación (s) _____

☑ Window /Wall Air Conditioning Units/ Unidades de Ventana / Pared De Aire Acondicionado

Location(s)/ Ubicación (s) living room

Are the outdoor air vents opened (if equipped) Se abren los orificios de ventilación de aire exterior (si está equipado) _____

☐ Other (specify)/ Otro (especificar) _____

Are fans used?/ ¿Se utilizan los Ventiladores/abanicos?

☑ No ☐ Yes

Yes, Ceiling fans/ ventilador del techo ☐

Yes, Room Fans Ventiladores de la habitación ☐

Yes, Kitchen Exhaust colorantes de aire de la cocina ☐

Yes, Bathroom Exhaust cuarto de baño escape ☐

Yes, Attic/Whole house Fans ☐

Other (specify)/ Otro (especificar). _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES06

Fecha: _____ Sitio: _____ EPA Residencia #: _____

Additional Notes/ Notas Adicionales:

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: 4/9/15 **Site** SAIA **EPA Residence Location:** ~~RESO1-A~~ RES07

Fecha: _____ Sitio: _____ EPA Residencia #: _____

Survey Preparer's Name Heather Parker

Affiliation: U.S. EPA Date 4/9/15

PART 1: General Information

Occupant Information/ *Información del Ocupante*

Address/ Dirección: [redacted]

Occupant Name/ Nombre del Ocupante: [redacted]

Interviewed/ Entrevistado: ☑ Yes ☐ No

Phone/ Teléfono: [redacted] Email: _____

Consent Access/ Permiso de Acceso ☐ Yes ☐ No Date/ Fecha _____

Owner/Landlord Information *(if applicable)/ Propietario / Información del inquilino (si aplica)*

Name/ Nombre: [redacted]

Interviewed/ Entrevistado: ☐ Yes ☐ No

Phone/ Teléfono: [redacted] Email: _____

Building Type *(Check appropriate boxes)/ Tipo de Edificio*

☐ Single-Family/ Familia Singular ☐ Duplex ☐ Condominium/Townhouse/ Condominio

☑ Apartment Building/ Apartamento ☐ Mobile Home/Trailer/ Movil/Remolque

Other/ Otro ☐ _____

How long have you been living in the residence?/ ¿Cuánto tiempo has estado viviendo en la residencia? 19 years

What times of day is building likely to receive ventilation? / ¿A qué tiempos durante el día es más probable que la residencia reciba ventilación? in the afternoon

In general sampling should be biased toward times when the heater is operating and the home is closed.

En general, el muestreo deberá hacerse cuando la calefacción este operando y la casa está cerrada.

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RE507
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Are the heating /cooling systems routinely operated? / ¿Los sistemas de calefacción / refrigeración operan habitualmente? ☐ Yes ☑ No

If yes, what times of the day and months during the year? / ¿Qué épocas durante el día y en que meses? _____

Building Characteristics ***Características del Edificio***

Year /Decade Built/ Año / Década de construcción: _____

Number of Stories/ Número de Pisos: _____

Approximate Building Area (square feet)/ área aproximada de construcción (pies cuadrados):

_____ First Floor/ Primer Piso: _____

If there is an attached garage describe its use/ Si hay un garaje pegado a la casa describa su uso:

Unattached garage in fact Used as car port

Foundation Type (Check appropriate boxes) Tipo de Cimiento (Marque las casillas apropiadas):

☑ Slab-on-Grade Cimento sin sótano

☐ Crawl Space Semisótano

☐ Sump Pump Bomba de Sumidero

☑ Concrete Cracks Grietas en el concreto one big crack in floor on second-floor

☐ Floor Drains Drenajes en el suelo

Condition of Concrete Floor Condición del piso de concreto _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES07
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 2: Factors Impacting Indoor Air Quality/ Factores que impactan la calidad del aire interior

Describe remodeling activities occurred over the last 6 months (what was done, what area, and when)/ Describir las actividades de remodelación que se produjeron durante los últimos 6 meses (lo que se hizo, qué área, y cuando):

No

Does anyone use/ Hace uso cualquiera:

☐ smokes/ fumadores ☐ candles/ velas ☐ incense/ incienso

☑ air freshener/ ambientador (in the bathroom) ☑ fireplace/chimenea (not used)

☐ dry cleaned clothes/fabricas ropa o telas de la"tintorería" o de lavar en seco

Does anyone work with chemicals (such as a painter, or a mechanic) ¿Alguien trabaja con productos químicos (como un mecánico, o pintor)?

No

Have site chemicals been used or stored in building or adjacent garage (including degreasers, brake fluid cleaners, WD-40, drain cleaner, etc)? /Se han utilizado o almacenado químicos en el edificio o en el garaje adyacente? (incluyendo desengrasante, limpiador de líquido o aceite de los frenos, WD-40, limpiador de desagües, etc)

☐ Yes ☐ No

Please list the chemicals/ Por favor enumera los químicos

bleach is stored under sink

Describe any instance of water/groundwater present in the basement/crawlspace (including sumps) Describa cualquier instancia de agua / aguas subterráneas presentes en el sótano o espacio de acceso (incluyendo sumideros):

No

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES07
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Are there conduits for sewer gases to enter the building (dry p-traps, open clean-outs, abandoned hook-ups, poorly installed/sealed/seated plumbing)?/ ¿Hay conductos para que los gases de las alcantarillas entren en el edificio (tapón de estilo-P seco, tubería abierta, conexiones abandonadas, plomería mal instalados / sellado)?: Describe/ Describa:

No

Observations Observaciones:

What is the temperature relative to outside?/ ¿Cuál es la temperatura en relación con el exterior? Cooler inside than outside house

What pathways to the subsurface were observed?/ ¿Qué vías hacia el subsuelo se observaron?

None

Are windows and door kept open?/ ¿Las ventanas y puertas se mantienen abiertas?

The front door is kept open; the windows are usually closed

Ventilation system status and condition?/ El estado y condición del sistema de ventilación

Just fans which she uses when it's hot

Are intake or exhaust fans being used?/ Se utilizan ventiladores de admisión o de escape?

One in the bathroom that she uses; one in the kitchen that doesn't work

Is there evidence of significant negative pressure?/ ¿Hay evidencia de presión negativa significativa?

No

Do parts of the indoor environment appear stagnant? /¿Existe alguna parte o cuarto de la casa en donde el aire parece estancado (o en donde no corre el viento)?

No

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES07
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Describe any strong odors. / Describiré cualquier olor fuerte

Inside no; outside there are smells from trash

Olores fuertes podría indicar posible pobre ventilación a su vez esto podrá interferir con los análisis

***Building Occupancy* Ocupación del Edificio**

Number of Occupants/ Número de Ocupantes: 6 Adults/ Adultos: 6

Gender ratio/ Sexo relación: 3 women

General Age ranges/ Rangos Generales de Edades: 22 ~~20~~ - 75

Children/ Niños None

Number at Ages/ Número en las Edades: (<2) _____ (2-6)_____ (>7)_____

Other Information (that may be of importance in understanding the indoor air quality in residence) Otra información (que podría ser de importancia para entender la calidad del aire interior en la residencia):

Potential Sampling Locations/ Ubicación posible de muestreo

General notes on potential sample locations and type. / Notas generales sobre los posibles puntos de muestreo y tipo.

- sampler hung on dining room curtain in front-facing window
- ambient air sampler hung on palm tree in front of house

Tentative sampling date(s) and preferred times. / Fecha tentativa de muestreo (s) y los tiempos preferidos.

DATE/ Dia: 4/16/15 → call on Wednesday to schedule time

Time/ Hora : _____ AM / PM

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES07
Fecha: _____ Sitio: _____ EPA Residencia #: _____

☐ **Crawlspace Sampling** **Muestreo de Semisótano**

Describe Crawlspace (Access Location, Height, and Vent Locations)/ Describa Semisótano (Ubicación del acceso, Altura, y Ubicaciones de las aperturas):

_____

_____

_____

☐ Dirt Floor/ Piso de Tierra ☐ Sealed/ Sellado ☐ Wet Surfaces/ Superficies Húmedas

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES07
Fecha: _____ Sitio: _____ EPA Residencia #: _____

On this page, draw the general floor plan of the building and denote potential locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.

En esta página, dibuja el plano general del edificio y marca posibles ubicaciones en donde poner las muestras. Indique la ubicación de las puertas, las ventanas, las fuentes de contaminantes del aire del interior y lecturas de los instrumentos de campo.

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES07
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 3: Inventory of Potential Indoor Chemical Sources: Inventario de Posibles Fuentes Químicos en el Interior:

Instructions: List items/products in the building or the attached garage that may contain site compounds of concern. These should be removed prior to sampling. List items/products that that give off significant volatiles as these may interfere with chemical analysis. Include chemicals that may be tracked into the house from an occupant. This could be chemical usage at work or in an attached workshop/garage. A portable instrument, such as a photo-ionization detector (PID) can be used to help locate volatile chemicals. Instrucciones: Lista de artículos / productos en el edificio o en el garaje adjunto que puedan contener compuestos del sitio. Estos deben ser retirados antes del muestreo. Nombrar el / los productos que emiten volátiles importantes que pueden interferir con el análisis químico. Incluya los productos químicos que pueden ser rastreados en la casa de un ocupante. Este podría ser el uso de químicos en el trabajo o en un taller / garaje adjunto. Un instrumento portátil, tal como un detector de fotoionización (PID) se puede utilizar para ayudar a localizar productos químicos volátiles.

Examples of products that may contain trichloroethene (TCE), such as gun cleaner, rubber cement, solvent degreasers, spot removers, correction fluid, electrical motor cleaner (also be aware that older products are more likely to contain TCE): Ejemplos de productos que pueden contener tricloroetileno (TCE) - limpiador de pistola, cemento de caucho, desengrasantes, disolventes, quitamanchas, líquido corrector, limpiador de motor eléctrico (también tenga en cuenta que los productos de mayor edad tienen más probabilidades de contener TCE):

Examples of significant volatile chemical sources such as gas powered equipment, gasoline storage cans, oil- based paint, paint thinner, nail polish remover, moth balls, perfumes, scented decorative items, insecticides: Ejemplos de fuentes químicas volátiles significativas tales como equipos con motor de gasolina, latas de almacenamiento de gasolina, pintura a base de aceite, sacapinturas, quitaesmalte, bolas de naftalina, perfumes, artículos de decoración perfumadas, insecticidas:

Potential chemical source Fuente Potencial de químico	**Location of Product Source** Lugar de origen del producto	**Photograph, ingredients, PID reading?** Fotografía, ingredientes, lectura del PID?

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES07
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 4: Building Ventilation Systems/ Construcción de sistemas de ventilación

Type(s) of Cooling/Heating Used (Check appropriate boxes)/ Tipo (s) de refrigeración / calefacción utilizados (Marque las casillas apropiadas)

- ☐ Central Forced Air (dueled)/ Aire central forzado (duelo)
- ☐ Natural Gas Furnace/ Horno de Gas Natural
- ☐ Air Conditioner?/ acondicionador de aire
- ☐ Outdoor Air Intake?/ entrada de air exterior
- ☐ Floor Vents on the first floor? / respiraderos del piso en el primer piso

Location of the Furnace/ ubicación de horno _____

Which rooms have air supply/ ¿Qué habitaciones tienen suministro de aire? _____

Location of air returns/ Ubicación de retornos de aire _____

- ☑ Centrally located wall heater(s) /calentador de pared (es) localizados centralmente

these are never used and don't work

Natural Gas or Electric?/ Gas Natural o eléctrico? _____

Location(s)/ Ubicación (s) _____

- ☐ Centrally located floor heater(s)/ Calentador de piso situado en el centro

Natural Gas or Electric?/ Gas Natural o eléctrico?

Location(s)/ Ubicación (s) _____

- ☑ Electrical Radiators/ Radiadores Eléctricos

hardly ever uses; located upstairs

Location(s)/ Ubicación (s) _____

- ☐ Water/Steam Radiators/ Radiadores de agua / vapor

Location(s)/ Ubicación (s) _____

- ☐ Radiant Floor Heat/ Calefaccion radiante de suelo

Location(s) Ubicación (s) _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES07
Fecha: _____ Sitio: _____ EPA Residencia #: _____

☐ Wood Stove(s)/ Horno (s)/Estufa de madera

Location(s) Ubicación (s) _____

☑ Fireplace/ Chimenea

Location(s)/ Ubicación (s) living room; never used and is blocked

☐ Window /Wall Air Conditioning Units/ Unidades de Ventana / Pared De Aire Acondicionado

Location(s)/ Ubicación (s) _____

Are the outdoor air vents opened (if equipped) Se abren los orificios de ventilación de aire exterior (si está equipado) _____

☐ Other (specify)/ Otro (especificar) _____

Are fans used?/ ¿Se utilizan los Ventiladores/abanicos?

☐ No ☑ Yes

Yes, Ceiling fans/ ventilador del techo ☑ one in the living room that doesn't work

Yes, Room Fans Ventiladores de la habitación ☐

Yes, Kitchen Exhaust colorantes de aire de la cocina ☑ (but it's blocked)

Yes, Bathroom Exhaust cuarto de baño escape ☑

Yes, Attic/Whole house Fans ☐

Other (specify)/ Otro (especificar). Has several small portable fans

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES07

Fecha: _____ Sitio: _____ EPA Residencia #: _____

Additional Notes/ Notas Adicionales:

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: 4/10/15 **Site** SAIA **EPA Residence Location:** ~~RES10~~ RES08

Fecha: _____ Sitio: _____ EPA Residencia #: _____

Survey Preparer's Name Heather Parker

Affiliation: U.S. EPA Date 4/10/15

PART 1: General Information

Occupant Information/ *Información del Ocupante*

Address/ Dirección: [redacted]

Occupant Name/ Nombre del Ocupante: [redacted]

Interviewed/ Entrevistado: ☑ Yes ☐ No

Phone/ Teléfono: [redacted] Email: _____

Consent Access/ Permiso de Acceso ☑ Yes ☐ No Date/ Fecha _____

Owner/Landlord Information *(if applicable)/ Propietario / Información del inquilino (si aplica)*

Name/ Nombre: [redacted]

Interviewed/ Entrevistado: ☐ Yes ☐ No

Phone/ Teléfono: [redacted] Email: _____

Building Type *(Check appropriate boxes)/ Tipo de Edificio*

☑ Single-Family/ Familia Singular ☐ Duplex ☐ Condominium/Townhouse/ Condominio

☐ Apartment Building/ Apartamento ☐ Mobile Home/Trailer/ Movil/Remolque

Other/ Otro ☐ _____

How long have you been living in the residence?/ ¿Cuánto tiempo has estado viviendo en la residencia? 30 years

What times of day is building likely to receive ventilation? / ¿A qué tiempos durante el día es más probable que la residencia reciba ventilación? Windows open during the summer when he's not at work

In general sampling should be biased toward times when the heater is operating and the home is closed.

En general, el muestreo deberá hacerse cuando la calefacción esté operando y la casa esté cerrada

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES08
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Are the heating /cooling systems routinely operated? / ¿Los sistemas de calefacción / refrigeración operan habitualmente? ☑ Yes ☐ No (but only when it's very cold)

If yes, what times of the day and months during the year? / ¿Qué épocas durante el día y en que meses? when it's cold

Building Characteristics *Características del Edificio*

Year /Decade Built/ Año / Década de construcción: 1964

Number of Stories/ Número de Pisos: _____

Approximate Building Area (square feet)/ área aproximada de construcción (pies cuadrados):

_____ First Floor/ Primer Piso: _____

If there is an attached garage describe its use/ Si hay un garaje pegado a la casa describa su uso:

Unattached garage, used for storage.

Foundation Type (Check appropriate boxes) Tipo de Cimiento (Marque las casillas apropiadas):

☑ Slab-on-Grade Cimento sin sótano

☐ Crawl Space Semisótano

☐ Sump Pump Bomba de Sumidero

☐ Concrete Cracks Grietas en el concreto

☐ Floor Drains Drenajes en el suelo

Condition of Concrete Floor Condición del piso de concreto _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES08
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 2: Factors Impacting Indoor Air Quality/ Factores que impactan la calidad del aire interior

Describe remodeling activities occurred over the last 6 months (what was done, what area, and when)/ Describir las actividades de remodelación que se produjeron durante los últimos 6 meses (lo que se hizo, qué área, y cuando):

No

Does anyone use/ Hace uso cualquiera:

☐ smokes/ fumadores ☑ candles/ velas uses candles in living room ☐ incense/ incienso

☐ air freshener/ ambientador ☐ fireplace/chimenea

☐ dry cleaned clothes/fabricas ropa o telas de la"tintorería" o de lavar en seco

Does anyone work with chemicals (such as a painter, or a mechanic) ¿Alguien trabaja con productos químicos (como un mecánico, o pintor)?

No

Have site chemicals been used or stored in building or adjacent garage (including degreasers, brake fluid cleaners, WD-40, drain cleaner, etc)? /Se han utilizado o almacenado químicos en el edificio o en el garaje adyacente? (incluyendo desengrasante, limpiador de líquido o aceite de los frenos, WD-40, limpiador de desagües, etc)

☑ Yes ☐ No

Please list the chemicals/ Por favor enumera los químicos

Clorox; toilet cleaner → kept under sink in kitchen

Describe any instance of water/groundwater present in the basement/crawlspace (including sumps) Describa cualquier instancia de agua / aguas subterráneas presentes en el sótano o espacio de acceso (incluyendo sumideros):

None

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES08

Fecha: _____ Sitio: _____ EPA Residencia #: _____

Are there conduits for sewer gases to enter the building (dry p-traps, open clean-outs, abandoned hook-ups, poorly installed/sealed/seated plumbing)?/ ¿Hay conductos para que los gases de las alcantarillas entren en el edificio (tapón de estilo-P seco, tubería abierta, conexiones abandonadas, plomería mal instalados / sellado)?: Describe/ Describa:

None

Observations Observaciones:

What is the temperature relative to outside?/ ¿Cuál es la temperatura en relación con el exterior? Cooler inside than outside

What pathways to the subsurface were observed?/ ¿Qué vías hacia el subsuelo se observaron?

Are windows and door kept open?/ ¿Las ventanas y puertas se mantienen abiertas?

Windows are kept open when he's home

Ventilation system status and condition?/ El estado y condición del sistema de ventilación

one wall heater in living room

Are intake or exhaust fans being used?/ Se utilizan ventiladores de admisión o de escape?

Is there evidence of significant negative pressure?/ ¿Hay evidencia de presión negativa significativa?

Do parts of the indoor environment appear stagnant? /¿Existe alguna parte o cuarto de la casa en donde el aire parece estancado (o en donde no corre el viento)?

All rooms are well-ventilated

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RESO8
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Describe any strong odors. / Describiré cualquier olor fuerte

None

Olores fuertes podría indicar posible pobre ventilación a su vez esto podrá interferir con los análisis

***Building Occupancy* Ocupación del Edificio**

Number of Occupants/ Número de Ocupantes: 1 Adults/ Adultos: 1

Gender ratio/ Sexo relación: 1 male (but 1 female sister is visting)

General Age ranges/ Rangos Generales de Edades: middle-age man

Children/ Niños

Number at Ages/ Número en las Edades: (<2) _____ (2-6)_____ (>7)_____

Other Information (that may be of importance in understanding the indoor air quality in residence) Otra información (que podría ser de importancia para entender la calidad del aire interior en la residencia):

There was an addition to the house and may be areas of the foundation that are not level. As such ovidiphred between the sampled bedroom & the rest of the house.

Potential Sampling Locations/ Ubicación posible de muestreo

General notes on potential sample locations and type. / Notas generales sobre los posibles puntos de muestreo y tipo.

Sampler hung on wall in ~~bedroom~~ back (purple) bedroom

Tentative sampling date(s) and preferred times. / Fecha tentativa de muestreo (s) y los tiempos preferidos.

DATE/ Dia: 4/17/15

Time/ Hora : 10:00 (AM)/ PM

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES08
Fecha: _____ Sitio: _____ EPA Residencia #: _____

☑ **Crawlspace Sampling** **Muestreo de Semisótano**

Describe Crawlspace (Access Location, Height, and Vent Locations)/ Describa Semisótano (Ubicación del acceso, Altura, y Ubicaciones de las aperturas):

Sampler placed in crawlspace accessible behind grate next to gas meter on side of house; placed to right of entrance to crawl space

☑ Dirt Floor/ Piso de Tierra ☐ Sealed/ Sellado ☐ Wet Surfaces/ Superficies Húmedas

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES08
Fecha: _____ Sitio: _____ EPA Residencia #: _____

On this page, draw the general floor plan of the building and denote potential locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.

En esta página, dibuja el plano general del edificio y marca posibles ubicaciones en donde poner las muestras. Indique la ubicación de las puertas, las ventanas, las fuentes de contaminantes del aire del interior y lecturas de los instrumentos de campo.

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES08
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 3: Inventory of Potential Indoor Chemical Sources: Inventario de Posibles Fuentes Químicos en el Interior:

Instructions: List items/products in the building or the attached garage that may contain site compounds of concern. These should be removed prior to sampling. List items/products that that give off significant volatiles as these may interfere with chemical analysis. Include chemicals that may be tracked into the house from an occupant. This could be chemical usage at work or in an attached workshop/garage. A portable instrument, such as a photo-ionization detector (PID) can be used to help locate volatile chemicals. Instrucciones: Lista de artículos / productos en el edificio o en el garaje adjunto que puedan contener compuestos del sitio. Estos deben ser retirados antes del muestreo. Nombrar el / los productos que emiten volátiles importantes que pueden interferir con el análisis químico. Incluya los productos químicos que pueden ser rastreados en la casa de un ocupante. Este podría ser el uso de químicos en el trabajo o en un taller / garaje adjunto. Un instrumento portátil, tal como un detector de fotoionización (PID) se puede utilizar para ayudar a localizar productos químicos volátiles.

Examples of products that may contain trichloroethene (TCE), such as gun cleaner, rubber cement, solvent degreasers, spot removers, correction fluid, electrical motor cleaner (also be aware that older products are more likely to contain TCE): Ejemplos de productos que pueden contener tricloroetileno (TCE) - limpiador de pistola, cemento de caucho, desengrasantes, disolventes, quitamanchas, líquido corrector, limpiador de motor eléctrico (también tenga en cuenta que los productos de mayor edad tienen más probabilidades de contener TCE):

Examples of significant volatile chemical sources such as gas powered equipment, gasoline storage cans, oil- based paint, paint thinner, nail polish remover, moth balls, perfumes, scented decorative items, insecticides: Ejemplos de fuentes químicas volátiles significativas tales como equipos con motor de gasolina, latas de almacenamiento de gasolina, pintura a base de aceite, sacapinturas, quitaesmalte, bolas de naftalina, perfumes, artículos de decoración perfumadas, insecticidas:

Potential chemical source Fuente Potencial de químico	**Location of Product Source** Lugar de origen del producto	**Photograph, ingredients, PID reading?** Fotografía, ingredientes, lectura del PID?

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES08

Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 4: Building Ventilation Systems/ Construcción de sistemas de ventilación

Type(s) of Cooling/Heating Used (Check appropriate boxes)/ Tipo (s) de refrigeración / calefacción utilizados (Marque las casillas apropiadas)

☐ Central Forced Air (dueled)/ Aire central forzado (duelo)

☑ Natural Gas Furnace/ Horno de Gas Natural

☐ Air Conditioner?/ acondicionador de aire

☐ Outdoor Air Intake?/ entrada de air exterior

☐ Floor Vents on the first floor? / respiraderos del piso en el primer piso

Location of the Furnace/ ubicación de horno _____

Which rooms have air supply/ ¿Qué habitaciones tienen suministro de aire? _____

Location of air returns/ Ubicación de retornos de aire _____

☑ Centrally located wall heater(s) /calentador de pared (es) localizados centralmente

Natural Gas or Electric?/ Gas Natural o eléctrico? Gas

Location(s)/ Ubicación (s) on wall in living room and another in wall in hallway

☐ Centrally located floor heater(s)/ Calentador de piso situado en el centro

Natural Gas or Electric?/ Gas Natural o eléctrico?

Location(s)/ Ubicación (s) _____

☐ Electrical Radiators/ Radiadores Eléctricos

Location(s)/ Ubicación (s) _____

☐ Water/Steam Radiators/ Radiadores de agua / vapor

Location(s)/ Ubicación (s) _____

☐ Radiant Floor Heat/ Calefaccion radiante de suelo

Location(s) Ubicación (s) _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES08
Fecha: _____ Sitio: _____ EPA Residencia #: _____

☐ Wood Stove(s)/ Horno (s)/Estufa de madera

Location(s) Ubicación (s) _____

☐ Fireplace/ Chimenea

Location(s)/ Ubicación (s) _____

☐ Window /Wall Air Conditioning Units/ Unidades de Ventana / Pared De Aire Acondicionado

Location(s)/ Ubicación (s) _____

Are the outdoor air vents opened (if equipped) Se abren los orificios de ventilación de aire exterior (si está equipado) _____

☐ Other (specify)/ Otro (especificar) _____

Are fans used?/ ¿Se utilizan los Ventiladores/abanicos?

☐ No ☑ Yes

Yes, Ceiling fans/ ventilador del techo ☑ ceiling fans in kitchen and bedrooms

Yes, Room Fans Ventiladores de la habitación ☐

Yes, Kitchen Exhaust colorantes de aire de la cocina ☑

Yes, Bathroom Exhaust cuarto de baño escape ☐

Yes, Attic/Whole house Fans ☐

Other (specify)/ Otro (especificar). _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES08

Fecha: _____ Sitio: _____ EPA Residencia #: _____

Additional Notes/ Notas Adicionales:

RES 06-IA-01 DUP

Vapor Sample Field Data Sheet – Sorbent Tube

Gilbane

Project Name: Southgate SAIA		Date: 01-21-16	
Project No./Task Code: JY603004000		Samplers: Sam Grizzle	
Description of Sample Location: RES 06			
Weather: High Scattered Clouds	Pick-up 78.3°F 0.000 In H2O		
Ambient Temperature (°F): 74.2		Ambient Pressure (Hg): 0.003 In H2O	

Sampling Equipment

Pump Make and Model: Radiello Passive Air Sampler		Pump Serial No.: NA	
Calibration Device/Method: NA			
Calibrated By: NA		Date of Calibration: NA	

Sorbent Tubes

Tube No:	Sample ID	Adsorbent	Serial No.
1	5227-IA02-0116	Radiello	925 NP
2	5406-IA01-0116 (DUP)	Radiello	926 NP
4	5227-OA02-0116	Radiello	927 NP
4			

Target Sample Criteria (from SAP)

Tube No:	Target Sample Volume (L)	Target (Max) Flow Rate (L/min)	Target Sample Time (min)
1			
2			
4			
4			

Sample QC (Pre-Sampling)

Flow Rate Check Pre-Sampling (L/min):

Sampling Data

Tube No:	Flow Rate (L/min)	Start Time	Stop Time	Total Time (min)	Total Volume (L)
1	Diffuser	1-21-16/1015	1-28-16/1004	7 DAYS	NA
2	Diffuser	1-21-16/1030	1-28-16/1019	7 DAYS	NA
4	Diffuser	1-21-16/1020	1-28-16/1011	7 DAYS	NA
4					

Sample QC (Post-Sampling)

Equivalent Tube No.:	Pre-Sampling (L/min)	Post-Sampling (L/min)	Difference (%)
Flow Rate Check (% difference < 10%)			

Comments: Out door air sampler placed on the exterior (east side) of RES 06 under the eve.

Pickup 68.1°F 0.001 In H2O

Prepared by: Sam Grizzle

Signature: Sam Grizzle

RES-01-1A

Vapor Sample Field Data Sheet – Sorbent Tube

Gilbane

Project Name: Southgate SAIA	Date: 1-20-16
Project No./Task Code: F163000470000	Samplers: Sam Grizzle
Description of Sample Location: Residence : RES 01-1A	
Weather: Scattered Clouds Pick-up 64.7°F	-0.004 In H2O
Ambient Temperature (°F): 72.3° F	Ambient Pressure (Hg): 0.012 In H2O

Sampling Equipment

Pump Make and Model: Radiello Passive Air Sampler	Pump Serial No.: 932 NP
Calibration Device/Method: NA	
Calibrated By: NA	Date of Calibration: NA

Sorbent Tubes

Tube No:	Sample ID 5211-IA01-0116	Adsorbent	Serial No.
4	RES 01-1A SG	Radiello	932 NP
2	RES 01-ES	Radiello	SG
4			
4			

Target Sample Criteria (from SAP)

Tube No:	Target Sample Volume (L)	Target (Max) Flow Rate (L/min)	Target Sample Time (min)
4			
2			
4			
4			

Sample QC (Pre-Sampling)

Flow Rate Check Pre-Sampling (L/min): NA

Sampling Data

Tube No:	Flow Rate (L/min)	Start Time	Stop Time	Total Time (min)	Total Volume (L)
4	Diffuser	1-20/1140	1-27/0918	7DAYS	
2					
4					
4					

Sample QC (Post-Sampling)

Equivalent Tube No.:	Pre-Sampling (L/min)	Post-Sampling (L/min)	Difference (%)
Flow Rate Check (% difference < 10%)			

Comments: Radiello tube left on 1-20-16 at 1140.
Retrieved Radiello air sample 1-27-16 at 0918

Prepared by: SAM GRIZZLE

Signature: Samuel P Grizzle

RES 01-0A + DUP

Vapor Sample Field Data Sheet – Sorbent Tube

Gilbane

Project Name: Southgate	Date: 1-20-16
Project No./Task Code: J1630005 40000	Samplers: Sam Grizzle
Description of Sample Location: Front Porch of RES 01	
Weather: Scattered Clouds Pick-up 66°F -0.002 In of H2O	
Ambient Temperature (°F): 75.4°F	Ambient Pressure (Hg): 0.014 In of H2O

Sampling Equipment

Pump Make and Model: Radiello Passive Air Sampler	Pump Serial No.:
Calibration Device/Method: NA	
Calibrated By: NA	Date of Calibration: NA

Sorbent Tubes

Tube No:	Sample ID	Adsorbent	Serial No.
3	5211-0A-01-0116	Radiello 1/27 0930	933NP
2	5405-0A03-0116	Radiello 1/27 1601	924NP
3			
3			

Target Sample Criteria (from SAP)

Tube No:	Target Sample Volume (L)	Target (Max) Flow Rate (L/min)	Target Sample Time (min)
3			
2			
3			
3			

Sample QC (Pre-Sampling)

Flow Rate Check Pre-Sampling (L/min):

Sampling Data

Tube No:	Flow Rate (L/min)	Start Time	Stop Time	Total Time (min)	Total Volume (L)
orig. 1	Diffuser	1-20-16/1415	1-27/0930	7 DAYS	
DUP ← 2	Diffuser	1-20-16/1430	1-27/1601	7 DAYS	
3					
3					

Sample QC (Post-Sampling)

Equivalent Tube No.:	Pre-Sampling (L/min)	Post-Sampling (L/min)	Difference (%)
Flow Rate Check (% difference < 10%)			

Comments: Radiello Tube sample 933NP & 924NP (Duplicate) left on porch of res 01-0A at 1415 on 1-20-16. Duplicate given Gilbane ID 5405-0A03-0116 @ 1430

Prepared by: Sam Grizzle	Signature: Sam Grizzle

SG

RES 01 - ~~IA~~ CS

Vapor Sample Field Data Sheet – Sorbent Tube

Gilbane

Project Name: Southgate SAIA		Date: 1-20-16	
Project No./Task Code: J163000400000		Samplers: Sam Grizzle	
Description of Sample Location: Res 01 Crawl Space			
Weather: Scattered Clouds 1:pick up 67°F -0.001 In H2O			
Ambient Temperature (°F): 73.4°F		Ambient Pressure (Hg): 0.012 In H2O	

Sampling Equipment

Pump Make and Model: Radiello Passive Air Sampler		Pump Serial No.: 931 NP	
Calibration Device/Method: NA			
Calibrated By: NA		Date of Calibration: NA	

Sorbent Tubes

Tube No:	Sample ID CS	Adsorbent	Serial No.
3	5211-~~IA~~ SG 01-0116	Radiello	SG ~~931 NP~~ 931NP
2			
3			
3			

Target Sample Criteria (from SAP)

Tube No:	Target Sample Volume (L)	Target (Max) Flow Rate (L/min)	Target Sample Time (min)
3			
2			
3			
4			

Sample QC (Pre-Sampling)

Flow Rate Check Pre-Sampling (L/min):

Sampling Data

Tube No:	Flow Rate (L/min)	Start Time	Stop Time	Total Time (min)	Total Volume (L)
3	Diffuser	01-20/1140	1/27/0950	7 DAYS	
2					
3					
3					

Sample QC (Post-Sampling)

Equivalent Tube No.:	Pre-Sampling (L/min)	Post-Sampling (L/min)	Difference (%)
Flow Rate Check (% difference < 10%)		SG	

Comments: Left Radiello tube on 1-20-16 @ ~~1145~~ 1150 in crawl space of RES 01

Prepared by: | Signature:

Residence 3-1A

Vapor Sample Field Data Sheet – Sorbent Tube

Gilbane

Project Name: Southgate SAIA	Date: 1-20-16
Project No./Task Code: J1630004g000	Samplers: Sam Grizzle
Description of Sample Location: Residence #3 - 1A	
Weather: Scattered Clouds	Pick-up 68.2°F -0.000 In H2O
Ambient Temperature (°F): 71° F	Ambient Pressure (Hg): 0.008 In H2O

Sampling Equipment

Pump Make and Model: Radiello Passive Air Sampler	Pump Serial No.: 917NP
Calibration Device/Method: NA	
Calibrated By: NA	Date of Calibration: NA

Sorbent Tubes

Tube No:	Sample ID	Adsorbent	Serial No.
3	5226-IA01-0116	Radiello	917NP
2			
3			
3			

Target Sample Criteria (from SAP)

Tube No:	Target Sample Volume (L)	Target (Max) Flow Rate (L/min)	Target Sample Time (min)
3			
2			
3			
3			

Sample QC (Pre-Sampling)

Flow Rate Check Pre-Sampling (L/min): NA

Sampling Data

Tube No:	Flow Rate (L/min)	Start Time	Stop Time	Total Time (min)	Total Volume (L)
3	Diffuser	1-20/1015	1-27/1004	7 Days	NA
2					
3					
3					

Sample QC (Post-Sampling)

Equivalent Tube No.:	Pre-Sampling (L/min)	Post-Sampling (L/min)	Difference (%)
Flow Rate Check (% difference < 10%)			

Comments: Radiello sample tube left 1-20-16 at 1015

Prepared by: Sam Grizzle

Signature: Samuel P. Grizzle

Residence 2-1A

Vapor Sample Field Data Sheet – Sorbent Tube

Gilbane

Project Name: Southgate SAIA	Date: 1-20-16
Project No./Task Code: J163000440000	Samplers: Sam Grizzle
Description of Sample Location: RES-02 1A	
Weather: Scattered Clouds Pick-up 71.9°F 0.003 In H2O	
Ambient Temperature (°F): 73.8	Ambient Pressure (Hg): 0.007 In H2O

Sampling Equipment

Pump Make and Model: Radiello Passive Air Sampler	Pump Serial No.: 916 NP
Calibration Device/Method: NA	
Calibrated By: NA	Date of Calibration: NA

Sorbent Tubes

Tube No:	Sample ID	Adsorbent	Serial No.
1	5215-1A01 - ~~0125~~ 0116	Radiello	916 NP
2	—	—	—
1	—	—	—
1	—	—	—

Target Sample Criteria (from SAP)

Tube No:	Target Sample Volume (L)	Target (Max) Flow Rate (L/min)	Target Sample Time (min)
1			
2			
1			
1			

Sample QC (Pre-Sampling)

Flow Rate Check Pre-Sampling (L/min):

Sampling Data

Tube No:	Flow Rate (L/min)	Start Time	Stop Time	Total Time (min)	Total Volume (L)
1		1-20-16/1048	1-27/1035	7 DAY	
2	—	—	—	—	—
1	—	—	—	—	—
4	—	—	—	—	—

Sample QC (Post-Sampling)

Equivalent Tube No.:	Pre-Sampling (L/min)	Post-Sampling (L/min)	Difference (%)
Flow Rate Check (% difference < 10%)			

Comments: Sample START 1-20-16 @ 1048 In House 916NP
~~Sample Start 1-20-16 @ 1100 In crawl space~~

Prepared by: SAM GRIZZLE	Signature: Samuel P Grizzle

Residence 02 -CS

Vapor Sample Field Data Sheet – Sorbent Tube

Gilbane

Project Name: Southgate SAIA		Date: 1-20-16	
Project No./Task Code: J1630004 0000	Samplers: Sam Grizzle		
Description of Sample Location: RES-02 CS			
Weather: Scattered Clouds	Pick-up 66.9°F	0.004 In H2O	
Ambient Temperature (°F): 72.5	Ambient Pressure (Hg): 0.012 In H2O		

Sampling Equipment

Pump Make and Model: Radiello Passive Air Sampler		Pump Serial No.: 919NP	
Calibration Device/Method: NA			
Calibrated By: NA		Date of Calibration: NA	

Sorbent Tubes

Tube No:	Sample ID	Adsorbent	Serial No.
4	5215-CS01-0116	Radiello	919NP
2			
4			
4			

Target Sample Criteria (from SAP)

Tube No:	Target Sample Volume (L)	Target (Max) Flow Rate (L/min)	Target Sample Time (min)
4			
2			
4			
4			

Sample QC (Pre-Sampling)

Flow Rate Check Pre-Sampling (L/min):

Sampling Data

Tube No:	Flow Rate (L/min)	Start Time	Stop Time	Total Time (min)	Total Volume (L)
4	Diffuser	1-20/1100	1-27/1045	7 DAY	
2					
4					
4					

Sample QC (Post-Sampling)

Equivalent Tube No.:	Pre-Sampling (L/min)	Post-Sampling (L/min)	Difference (%)
Flow Rate Check (% difference < 10%)			

Comments: Radiello sample tube left on 1-20-16 @ 1100

Prepared by: Sam Grizzle

Signature: Samuel P. Grizzle

RES 05-1A

Vapor Sample Field Data Sheet – Sorbent Tube

Gilbane

Project Name: Southgate SA1A	Date: 1-20-16
Project No./Task Code: J463004000	Samplers: Sam Grizzle
Description of Sample Location: RES 05-1A	
Weather: Scattered Clouds	Pick up 72.4°F 0.007 In H2O
Ambient Temperature (°F): 74.5	Ambient Pressure (Hg): 0.002 In H2O

Sampling Equipment

Pump Make and Model: Radiello Passive Air Sampler	Pump Serial No.: 918 NP
Calibration Device/Method: NA	
Calibrated By: NA	Date of Calibration: NA

Sorbent Tubes

Tube No:	Sample ID	Adsorbent	Serial No.
1	5226-IA04-0116	Radiello	918 NP
2			
3			
4			

Target Sample Criteria (from SAP)

Tube No:	Target Sample Volume (L)	Target (Max) Flow Rate (L/min)	Target Sample Time (min)
1			
2			
3			
4			

Sample QC (Pre-Sampling)

Flow Rate Check Pre-Sampling (L/min):

Sampling Data

Tube No:	Flow Rate (L/min)	Start Time	Stop Time	Total Time (min)	Total Volume (L)
~~1~~	~~Diffuser~~	~~1-20/925~~	~~1-20/0925~~		
2	Diffuser	1-20/0925	1-27/1134	7 DAYS	
~~3~~					
~~4~~					

Sample QC (Post-Sampling)

Equivalent Tube No.:	Pre-Sampling (L/min)	Post-Sampling (L/min)	Difference (%)
Flow Rate Check (% difference < 10%)			

Comments: Radiello sample tube left on 1-20-16@ 0925

Prepared by: Sam Grizzle	Signature: Samuel P Grizzle

Res 08-1A

Vapor Sample Field Data Sheet – Sorbent Tube

Gilbane

Project Name: South Gate IA 1A	Date: 1-20-16
Project No./Task Code: J16360040000	Samplers: Sam Grizzle
Description of Sample Location: Interior of Res 08	
Weather: Scattered Clouds	Pickup 69.4°F 0.011 In of H2O
Ambient Temperature (°F): 74.9°F	Ambient Pressure (Hg): 0.014 In of H2O

Sampling Equipment

Pump Make and Model: Radiello Passive Air Sampler	Pump Serial No.: 920NP
Calibration Device/Method: NA	
Calibrated By: NA	Date of Calibration: NA

Sorbent Tubes

Tube No:	Sample ID	Adsorbent	Serial No.
3	5234-IA01-0116	Radiello	920NP
2			
3			
3			

Target Sample Criteria (from SAP)

Tube No:	Target Sample Volume (L)	Target (Max) Flow Rate (L/min)	Target Sample Time (min)
3			
2			
3			
3			

Sample QC (Pre-Sampling)

Flow Rate Check Pre-Sampling (L/min):

Sampling Data

Tube No:	Flow Rate (L/min)	Start Time	Stop Time	Total Time (min)	Total Volume (L)
1	Diffuser	1-20-16/1340	1-27/1315	7DAYS	
2					
3					
3					

Sample QC (Post-Sampling)

Equivalent Tube No.:	Pre-Sampling (L/min)	Post-Sampling (L/min)	Difference (%)
Flow Rate Check (% difference < 10%)			

Comments: Radiello Tube left on 1-20-16 @ 1340

Prepared by: SAM GRIZZLE	Signature: Sam Grizzle

Res 08-CJ

Vapor Sample Field Data Sheet – Sorbent Tube

Gilbane

Project Name: South Gate SAHA	Date: 1-20-16
Project No./Task Code: J1630064000	Samplers: Sam Grizzle
Description of Sample Location: Res 08 crawl space	
Weather: Scattered Clouds	Pick-up 64.7 0.011 In H2O
Ambient Temperature (°F): 70.6	Ambient Pressure (Hg): 0.014 In H2O

Sampling Equipment

Pump Make and Model: Radiello Passive Air Sampler	Pump Serial No.: 921 NP
Calibration Device/Method: NA	
Calibrated By: NA	Date of Calibration: NA

Sorbent Tubes

Tube No:	Sample ID	Adsorbent	Serial No.
1	5234-C501-0116	Radiello	921 NP
2			
3			
3			

Target Sample Criteria (from SAP)

Tube No:	Target Sample Volume (L)	Target (Max) Flow Rate (L/min)	Target Sample Time (min)
1			
2			
3			
3			

Sample QC (Pre-Sampling)

Flow Rate Check Pre-Sampling (L/min):

Sampling Data

Tube No:	Flow Rate (L/min)	Start Time	Stop Time	Total Time (min)	Total Volume (L)
1	Diffuser	1-20-16/1345	1-27/1320	7 DAYS	
2					
3					
3					

Sample QC (Post-Sampling)

Equivalent Tube No.:	Pre-Sampling (L/min)	Post-Sampling (L/min)	Difference (%)
Flow Rate Check (% difference < 10%)			

Comments: Radiello tube left on 1-20-16 @ 1345

Prepared by: Sam Grizzle	Signature: Samuel P. Grizzle

RES 04

Vapor Sample Field Data Sheet – Sorbent Tube

Gilbane

Project Name: Southgate SHIA		Date: 1-21-16	
Project No./Task Code: JR6300 4000		Samplers: Sam Grizzle	
Description of Sample Location: RES 04 - IA			
Weather: High Scattered Clouds	Pickup 63°F -0.004 InH2O		
Ambient Temperature (°F): 65.7		Ambient Pressure (Hg): -0.004 InH2O	

Sampling Equipment

Pump Make and Model: Radiello Passive Air Sampler		Pump Serial No.: 923 NP	
Calibration Device/Method: NA			
Calibrated By: NA		Date of Calibration: NA	

Sorbent Tubes

Tube No:	Sample ID	Adsorbent	Serial No.
1	5226-IA02-0116	Radiello	923NP
2			
3			
3			

Target Sample Criteria (from SAP)

Tube No:	Target Sample Volume (L)	Target (Max) Flow Rate (L/min)	Target Sample Time (min)
1			
2			
3			
3			

Sample QC (Pre-Sampling)

Flow Rate Check Pre-Sampling (L/min):

Sampling Data

Tube No:	Flow Rate (L/min)	Start Time	Stop Time	Total Time (min)	Total Volume (L)
1	Diffuser	1-21-16/0915	1-28-16/0904	7 DAYS	NA
2					
3					
3					

Sample QC (Post-Sampling)

Equivalent Tube No.:	Pre-Sampling (L/min)	Post-Sampling (L/min)	Difference (%)
Flow Rate Check (% difference < 10%)			

Comments: Radiello Sample Tube left 1-21-16 at 0915

Prepared by: SAM GRIZZLE

Signature: Samuel P. Grizzle

RES 07

Vapor Sample Field Data Sheet – Sorbent Tube

Gilbane

Project Name:	Southgate SAIA	Date:	01-21-16
Project No./Task Code:	J163004000	Samplers:	Sam Grizzle
Description of Sample Location:	RES07-IA		
Weather:	High Scattered Clouds	Pick-up 66.3°F	-0.002 In H20
Ambient Temperature (°F):	71.2	Ambient Pressure (Hg):	-0.001 In H20

Sampling Equipment

Pump Make and Model:	Radiello Passive Air Sampler	Pump Serial No.:	922NP
Calibration Device/Method:	NA		
Calibrated By:	NA	Date of Calibration:	NA

Sorbent Tubes

Tube No:	Sample ID	Adsorbent	Serial No.
1	5230-IA02-0116	Radiello	922NP
2			
3			
3			

Target Sample Criteria (from SAP)

Tube No:	Target Sample Volume (L)	Target (Max) Flow Rate (L/min)	Target Sample Time (min)
1			
2			
3			
3			

Sample QC (Pre-Sampling)

Flow Rate Check Pre-Sampling (L/min):

Sampling Data

Tube No:	Flow Rate (L/min)	Start Time	Stop Time	Total Time (min)	Total Volume (L)
1	Diffuser	1-21-16/0940	1-28-16/0930	7DAYS	NA
2					
3					
1					

Sample QC (Post-Sampling)

Equivalent Tube No.:	Pre-Sampling (L/min)	Post-Sampling (L/min)	Difference (%)
Flow Rate Check (% difference < 10%)			

Comments: Radiello sample tube left 1-21-16 at 0940

Prepared by: SAM GRIZZLE

Signature: Samuel P Grizzle

Gilbane

Daily Activity Report (DAR)

Project Name: Southgate SAIA	Page 1 of 2
Project No./Task Code: JL3004000 / C.00.FI100000	Date: 1-20-16
Description of Work: Indoor + outdoor air sampling	
Visitors / Subcontractors: Sam Grizik (Gilbane), Heather Parker (EPA)	
Weather: Scattered Clouds, Mild	

Description of Field Activities

0600: Left home office
0715: Arrived at SAIA container. Collected equipment needed for the days sampling to come.
0800: Left the Southgate storeage container to meet Heather Parker of the EPA
0830: Met w/ EPA Heather. Discussed days plan of action.
0900: Arrived at first sample site, Placed Radiello sample unit 918NP in unit after completion of household survey. Gilbane sample ID 5226-IA04-0116 @ 0925. RES 05-1A
1015: After completion of household survey of Res 03-1A, placed Radiello sample unit 917NP. Gilbane sample ID 5226-IA01-0116 @ 1015.
1048: After completion of household survey of RES 02-1A, placed Radiello sample Unit 916NP. Gilbane sampk ID 5215-IA-01-0116 @ 1048.
1100: Placed Radiello sample unit 919NP in the crawl space of RES 02-CS. Gilbane sample ID 5215-CS01-0116 @ 1100.
1140: After completion of household survey of RES01-1A, placed Radiello sample unit 932NP. Gilbane sample ID 5211-IA01-0116.
1150: Placed Radiello sample unit 931NP in the crawl space of RES 01. Gilbane sample ID 5211-CS01-0116 at 1150
1200: Caught up on paperwork
1230: Got a snack to eat.
1250: Returned to RES 08, prepared paperwork & equip
1340: After completion of household survey of RES 08-1A, placed Radiello sample unit 920NP. Gilbane sampk ID 5234-IA01-0116 at 1340.
1345: Placed Radiello sample unit 921NP in the crawl space of RES 08-1A. Gilbane sample ID 5234-CS01-0116 at 1345.
1350: Returned to field vehicle and prepared paperwork for outdoor air sample + dup sample (also outdoor) at RES01.
1415 Returned to RES01 and placed an outdoor sample, under-

Prepared by:	Signature:

Gilbane

Daily Activity Report (DAR)

Project Name: Southgate SAIA	Page 2 of 2
Project No./Task Code: J1630004000/C.00.FI100000	Date: 1-20-16
Description of Work: Indoor + Outdoor Air Sampling	
Visitors / Subcontractors: Sam Grizzle (Gilbane) Heather Parker (EPA)	
Weather: Scattered Clouds, Mild.	

Description of Field Activities

1415 (cont): a covered front porch. Radiello unit for RES01 outdoor sample was 933 NP. The Gilbane sample ID for this sample was designated 5211-OA01-0116 at 1415. The outdoor air sample duplicate sample for the same location was Radiello unit 924 NP. The Gilbane sample ID for this outdoor air sample duplicate is 5405-OA03-0116 at 1430.

1430 Did community outreach to set up additional sampling appointments.

1500 Left site for the day.

1610 Arrived at home office

1630 Updated time card per Gilbane policy

Prepared by: Sam GRIZZLE

Signature: Samuel P. Grizzle

Gilbane

Daily Activity Report (DAR)

Project Name: Southgate SAIA	Page 1 of 1
Project No./Task Code:	Date: 1-21-16
Description of Work: Indoor Air Sampling	
Visitors / Subcontractors: Heather Parker	
Weather: Light clouds, cool	

Description of Field Activities

0630 Left home office
0740 Arrived in Southgate. Began the days paperwork
0830 Met w/ EPA's Heather Parker
0840 Made contact w/ Resident 7 and schedule an appointment to sample their IA
0915 Sampled RES4. Gilbane sample ID ~~RES04-IA02-0121~~ 5226-IA02-0116@0915 Radiello ID 923NP.
0930 Sampled RES7. Gilbane ID 5230-IA02-0116, Radiello ID 921NP. Sample time 0940
1000 Sampled Res6. Gilbane ID 5227-IA02-0116 collected at 1015. A duplicate sample was placed at the same site w/ Gilbane ID 5406-IA02-0116 w/ sample time as 1030. An outdoor air sample was also collected at RES6 w/ a sample ID of 5227-OA02-0116 w/ a Radiello ID of 927 NP
1120 Finished collecting/placing Radiello samplers. Parted ways w/ Heather Parker of the EPA.
1123 Spoke w/ PM Don Gruber to debrief him on the past two days field work. Off loaded field vehicle@SG Container
1240 Got gas for field vehicle
1330 Stopped at office Max to do some printing of field forms
1400 Returned to home office
1420 QA'd field documentation
1600 Update time card & checked email
1630 Finished work for the day.

Prepared by: SAM GRIZZLE

Signature: Samuel P. Grizzle

Gilbane

Daily Activity Report (DAR)

Project Name: Southgate	Page 1 of 1
Project No./Task Code: J163004000	Date: 1-27-16
Description of Work: Sample Retrieval, Air	
Visitors / Subcontractors: Ronie Duarte (EPA)	
Weather: Overcast, High Clouds	

Description of Field Activities

0715 Left home office
0845 Arrived at coffee shop to meet Ronie Duarte
0918 Retrieved air sample 5211-IA01-0116, Radiello ID# 932NP, from RES 01
0933 Retrieved air sample 5211-OA06-0116, Radiello ID# 933NP from RES 01. Also collected an outdoor air sample there ID 5405-OA03-0116, Radiello ID ~~933NP~~ 924NP SG and designated the sample time as 1601.
0950 Retrieved air sample from the crawl space of RES 01 designated 5211-CS01-0116, Radiello sample ID 931NP
1004 Retrieved air sample from RES 3-1A designated 5226-IA01-0116 w/ Radiello sample ID 917NP.
1035 Retrieved air sample from RES 02-1A designated 5215-IA01-0116, Radiello sample ID 916NP
1045 Retrieved an air sample from the crawl space of RES 02 designated 5215-CS01-0116, Radiello sample ID 919NP
1134 Retrieved an air sample from RES 05-1A designated 5226-IA-04-0116, Radiello sample ID 918NP
1315 Retrieved an air sample from RES 08 1A designated 5234-IA01-0116, Radiello sample ID 920NP
1320 Retrieved an air sample from RES-08-CS designated 5234-CS01-0116, Radiello sample ID 921NP
1400 Left site for the day.
1500 Arrived at home office
1625 Finished up paperwork and QA/QC of same paperwork.
1630 Did timecard and finished for the day

Prepared by: SAM GRIZZLE | Signature: Samuel P. Grizzle

Gilbane

Daily Activity Report (DAR)

Project Name: Southgate SAA	Page 1 of 1
Project No./Task Code: J163004000	Date: 1-28-16
Description of Work: Air Sampling	
Visitors / Subcontractors: Romie Duarte (EPA)	
Weather: Clear + Warm	

Description of Field Activities

0700 Left Home Office
0850 Arrived on site + met Romie Duarte (EPA)
0904 Retrieved air sample 5226-IA02-0116, Radiello ID#923NP from RES 04
0930 Retrieved air sample 5230-IA02-0116, Radiello ID#922NP of RES 07.
1004 Retrieved air sample + duplicate from RES-06. Air sample ID was 5227-IA02-0116 w/ Radiello ID#925NP. The duplicate ID was 5406-IA01-0116, Radiello ID#926NP. Also collected at RES-06 was an outdoor air sample, ID 5227-OA02-0116 w/ Radiello sample ID 927NP
1045 Returned to SAIA site container to prep the samples for shipment to EPA Reg 9 Lab. De-mobilized sampling equip
1200 Left the site for the day
1300 Returned velocimeter to Pine Environmental
1320 Shipped samples from FedEx Hub Irvine
1345 Prepped + QA'd paperwork for project
1500 Got gas for field vehicle
1520 Arrived at FedEx Kinkos for FedEx Shipping + Document reproduction.

Prepared by: SAM GRIZZLE | Signature: Samuel P. Grizzle

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: 1/20/2016 **Site** SA1A **EPA Residence Location:** [redacted]
Fecha: _____ Sitio: _____ EPA Residencia #: Res 01

Survey Preparer's Name Heather Parker

Affiliation US EPA Date 1/20/2016

PART 1: General Information

Occupant Information/ *Información del Ocupante*

Address/ Dirección: [redacted]

Occupant Name/ Nombre del Ocupante: [redacted]

Interviewed/ Entrevistado: ☑ Yes ☐ No

Phone/ Teléfono: [redacted] Email: _____

Consent Access/ Permiso de Acceso ☐ Yes ☐ No Date/ Fecha _____

Owner/Landlord Information *(if applicable)/ Propietario / Información del inquilino (si aplica)*

Name/ Nombre: same as tenant

Interviewed/ Entrevistado: ☐ Yes ☐ No

Phone/ Teléfono: _____ Email: _____

Building Type *(Check appropriate boxes)/ Tipo de Edificio*

☑ Single-Family/ Familia Singular ☐ Duplex ☐ Condominium/Townhouse/ Condominio

☐ Apartment Building/ Apartamento ☐ Mobile Home/Trailer/ Movil/Remolque

Other/ Otro ☐ _____

How long have you been living in the residence?/ ¿Cuanto tiempo has estado viviendo en la residencia? 15 years

What times of day is building likely to receive ventilation? / ¿A qué tiempos durante el dia es más probable que la residencia reciba ventilación? windows and doors are usually closed

In general sampling should be biased toward times when the heater is operating and the home is closed.

En general el muestreo debera hacerse cuando la calefacción este operando y la casa este cerrada

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES01
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Are the heating / cooling systems routinely operated? / ¿Los sistemas de calefacción / refrigeración operan habitualmente? ☑ Yes ☐ No

If yes, what times of the day and months during the year? / ¿Qué épocas durante el día y en que meses? heater is used during day in winter, AC is used in summer

Building Characteristics *Características del Edificio*

Year /Decade Built/ Año / Década de construcción: early 1950s

Number of Stories/ Número de Pisos: 1

Approximate Building Area (square feet)/ área aproximada de construcción (pies cuadrados):

_____ First Floor/ Primer Piso: _____

If there is an attached garage describe its use/ Si hay un garaje pegado a la casa describa su uso:

No

Foundation Type (Check appropriate boxes) Tipo de Cimiento (Marque las casillas apropiadas):

☐ Slab-on-Grade Cimento sin sótano

☑ Crawl Space Semisótano

☐ Sump Pump Bomba de Sumidero

☐ Concrete Cracks Grietas en el concreto

☐ Floor Drains Drenajes en el suelo

Condition of Concrete Floor Condición del piso de concreto _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES 01
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 2: Factors Impacting Indoor Air Quality/ Factores que impactan la calidad del aire interior

Describe remodeling activities occurred over the last 6 months (what was done, what area, and when)/ Describir las actividades de remodelación que se produjeron durante los últimos 6 meses (lo que se hizo, qué área, y cuando):

floor was replaced with wood (from carpeting)
in June (6 months ago)

Does anyone use/ Hace uso cualquiera:

☐ smokes/ fumadores ☐ candles/ velas ☐ incense/ incienso

☐ air freshener/ ambientador ☐ fireplace/chimenea

☐ dry cleaned clothes/fabricas ropa o telas de la"tintorería" o de lavar en seco

Does anyone work with chemicals (such as a painter, or a mechanic) ¿Alguien trabaja con productos químicos (como un mecánico, o pintor)?

No

Have site chemicals been used or stored in building or adjacent garage (including degreasers, brake fluid cleaners, WD-40, drain cleaner, etc)? /Se han utilizado o almacenado químicos en el edificio o en el garaje adyacente? (incluyendo desengrasante, limpiador de líquido o aceite de los frenos, WD-40, limpiador de desagües, etc)

☐ Yes ☑ No

Please list the chemicals/ Por favor enumera los químicos

Not aware of neighbors having these chemicals, either

Describe any instance of water/groundwater present in the basement/crawlspace (including sumps) Describa cualquier instancia de agua / aguas subterráneas presentes en el sótano o espacio de acceso (incluyendo sumideros):

No

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENTIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES01
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Are there conduits for sewer gases to enter the building (dry p-traps, open clean-outs, abandoned hook-ups, poorly installed/sealed/seated plumbing)?/ ¿Hay conductos para que los gases de las alcantarillas entren en el edificio (tapón de estilo-P seco, tubería abierta, conexiones abandonadas, plomería mal instalados / sellado)?: **Describe/** Describa:
No

Observations *Observaciones:*

What is the temperature relative to outside?/ ¿Cuál es la temperatura en relación con el exterior? Warmer inside

What pathways to the subsurface were observed?/ ¿Qué vías hacia el subsuelo se observaron?
None

Are windows and door kept open?/¿Las ventanas y puertas se mantienen abiertas?
~~Usual~~ windows + doors usually closed up

Ventilation system status and condition?/ El estado y condición del sistema de ventilación

Are intake or exhaust fans being used?/ Se utilizan ventiladores de admisión o de escape?
No

Is there evidence of significant negative pressure?/ ¿Hay evidencia de presión negativa significativa?

Do parts of the indoor environment appear stagnant? /¿Existe alguna parte o cuarto de la casa en donde el aire parece estancado (o en donde no corre el viento)?
No

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES01
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Describe any strong odors. / Describiré cualquier olor fuerte

No

Olores fuertes podría indicar posible pobre ventilación a su vez esto podrá interferir con los análisis

Building Occupancy **Ocupación del Edificio**

Number of Occupants/ Número de Ocupantes: 1 Adults/ Adultos: 1

Gender ratio/ Sexo relación: 1 male

General Age ranges/ Rangos Generales de Edades: _____

Children/ Niños

Number at Ages/ Número en las Edades: (<2) _____ (2-6)_____ (>7)_____

Other Information (that may be of importance in understanding the indoor air quality in residence) Otra información (que podría ser de importancia para entender la calidad del aire interior en la residencia):

Potential Sampling Locations/ Ubicación posible de muestreo

General notes on potential sample locations and type. / Notas generales sobre los posibles puntos de muestreo y tipo.

~~the~~ sampler ~~placed~~ hung on blinds by front window in living room behind couch

Tentative sampling date(s) and preferred times. / Fecha tentativa de muestreo (s) y los tiempos preferidos.

DATE/ Dia: _____

Time/ Hora : _____ AM / PM

Pick-up at 9:00 AM on Wednesday, 1/27

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** R-ES01
Fecha: _____ Sitio: _____ EPA Residencia #: _____

☑ **Crawlspace Sampling** Muestreo de Semisótano

Describe Crawlspace (Access Location, Height, and Vent Locations)/ Describa Semisótano (Ubicación del acceso, Altura, y Ubicaciones de las aperturas):

crawl space accessed through grate on right-hand side of the stairs leading up to right side of house; sampler placed on cage ~~at~~ at ground level to left of grate

☑ Dirt Floor/ Piso de Tierra ☐ Sealed/ Sellado ☐ Wet Surfaces/ Superficies Húmedas

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

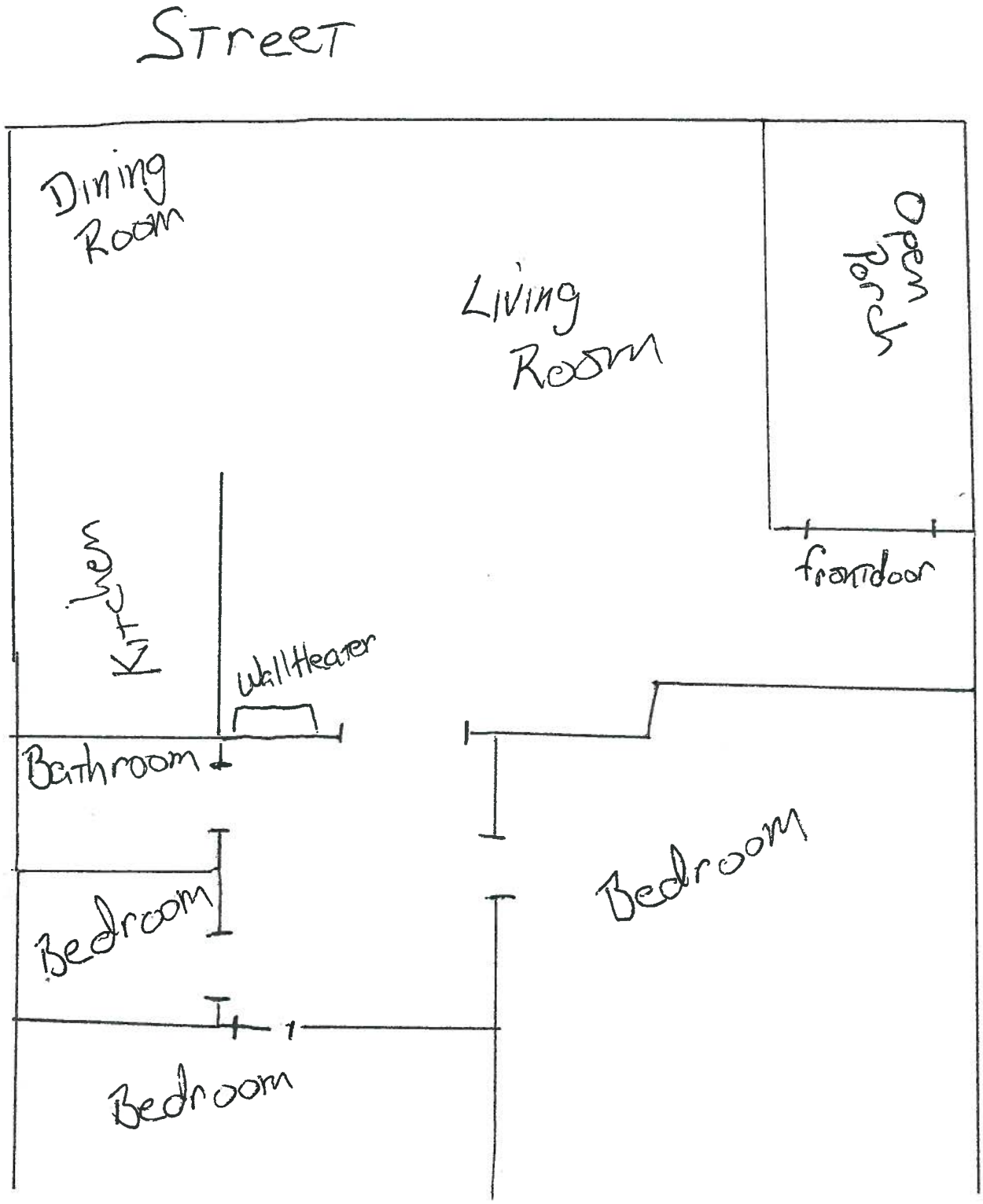
Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: 1-20-16 **Site** RES-01-OH **EPA Residence Location:** RES01

Fecha: _____ Sitio: _____ EPA Residencia #: _____

On this page, draw the general floor plan of the building and denote potential locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.

En esta página, dibuja el plano general del edificio y marca posibles ubicaciones en donde poner las muestras. Indique la ubicación de las puertas, las ventanas, las fuentes de contaminantes del aire del interior y lecturas de los instrumentos de campo.



Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES01
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 3: Inventory of Potential Indoor Chemical Sources: Inventario de Posibles Fuentes Químicos en el Interior:

Instructions: List items/products in the building or the attached garage that may contain site compounds of concern. These should be removed prior to sampling. List items/products that that give off significant volatiles as these may interfere with chemical analysis. Include chemicals that may be tracked into the house from an occupant. This could be chemical usage at work or in an attached workshop/garage. A portable instrument, such as a photo-ionization detector (PID) can be used to help locate volatile chemicals. Instrucciones: Lista de artículos / productos en el edificio o en el garaje adjunto que puedan contener compuestos del sitio. Estos deben ser retirados antes del muestreo. Nombrar el / los productos que emiten volátiles importantes que pueden interferir con el análisis químico. Incluya los productos químicos que pueden ser rastreados en la casa de un ocupante. Este podría ser el uso de químicos en el trabajo o en un taller / garaje adjunto. Un instrumento portátil, tal como un detector de fotoionización (PID) se puede utilizar para ayudar a localizar productos químicos volátiles.

Examples of products that may contain trichloroethene (TCE), such as gun cleaner, rubber cement, solvent degreasers, spot removers, correction fluid, electrical motor cleaner (also be aware that older products are more likely to contain TCE): Ejemplos de productos que pueden contener tricloroetileno (TCE) - limpiador de pistola, cemento de caucho, desengrasantes, disolventes, quitamanchas, líquido corrector, limpiador de motor eléctrico (también tenga en cuenta que los productos de mayor edad tienen más probabilidades de contener TCE):

Examples of significant volatile chemical sources such as gas powered equipment, gasoline storage cans, oil- based paint, paint thinner, nail polish remover, moth balls, perfumes, scented decorative items, insecticides: Ejemplos de fuentes químicas volátiles significativas tales como equipos con motor de gasolina, latas de almacenamiento de gasolina, pintura a base de aceite, sacapinturas, quitaesmalte, bolas de naftalina, perfumes, artículos de decoración perfumadas, insecticidas:

Potential chemical source Fuente Potencial de químico	**Location of Product Source** Lugar de origen del producto	**Photograph, ingredients, PID reading?** Fotografía, ingredientes, lectura del PID?

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES01
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 4: Building Ventilation Systems/ Construcción de sistemas de ventilación

Type(s) of Cooling/Heating Used (Check appropriate boxes)/ Tipo (s) de refrigeración / calefacción utilizados (Marque las casillas apropiadas)

☐ Central Forced Air (dueled)/ Aire central forzado (duelo)

☐ Natural Gas Furnace/ Horno de Gas Natural

☑ Air Conditioner?/ acondicionador de aire

☐ Outdoor Air Intake?/ entrada de air exterior

☐ Floor Vents on the first floor? / respiraderos del piso en el primer piso

Location of the Furnace/ ubicación de horno _____

Which rooms have air supply/ ¿Qué habitaciones tienen suministro de aire? _____

Location of air returns/ Ubicación de retornos de aire _____

☑ Centrally located wall heater(s) /calentador de pared (es) localizados centralmente

Natural Gas or Electric?/ Gas Natural o eléctrico? gas

Location(s)/ Ubicación (s) in living room

☐ Centrally located floor heater(s)/ Calentador de piso situado en el centro

Natural Gas or Electric?/ Gas Natural o eléctrico?

Location(s)/ Ubicación (s) _____

☐ Electrical Radiators/ Radiadores Eléctricos

Location(s)/ Ubicación (s) _____

☐ Water/Steam Radiators/ Radiadores de agua / vapor

Location(s)/ Ubicación (s) _____

☐ Radiant Floor Heat/ Calefaccion radiante de suelo

Location(s) Ubicación (s) _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENTIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RESO 1
Fecha: _____ Sitio: _____ EPA Residencia #: _____

□ **Wood Stove(s)/** Horno (s)/Estufa de madera

Location(s) Ubicación (s) _____

□ **Fireplace/** Chimenea

Location(s)/ Ubicación (s) _____

☑ **Window /Wall Air Conditioning Units/** Unidades de Ventana / Pared De Aire Acondicionado

Location(s)/ Ubicación (s) In living room in window

Are the outdoor air vents opened (if equipped) Se abren los orificios de ventilación de aire exterior (si está equipado) _____

□ **Other (specify)/** Otro (especificar) _____

Are fans used?/ ¿Se utilizan los Ventiladores/abanicos?

□ No ☑ Yes but only in summer

Yes, Ceiling fans/ ventilador del techo ☑ in kitchen, livingroom, bedrooms

Yes, Room Fans Ventiladores de la habitación □

Yes, Kitchen Exhaust colorantes de aire de la cocina □

Yes, Bathroom Exhaust cuarto de baño escape □

Yes, Attic/Whole house Fans □

Other (specify)/ Otro (especificar) _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RESO1

Fecha: _____ Sitio: _____ EPA Residencia #: _____

Additional Notes/ Notas Adicionales:

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: 1/20/16 **Site** SAIA **EPA Residence Location:** [redacted]
Fecha: _____ Sitio: _____ EPA Residencia #: Res 02

Survey Preparer's Name Heather Parker

Affiliation US EPA Date 1/20/16

PART 1: General Information

Occupant Information/ *Información del Ocupante*

Address/ Dirección: [redacted]

Occupant Name/ Nombre del Ocupante: [redacted]

Interviewed/ Entrevistado: ☑ Yes ☐ No

Phone/ Teléfono [redacted] Email: _____

Consent Access/ Permiso de Acceso ☑ Yes ☐ No Date/ Fecha _____

Owner/Landlord Information *(if applicable)/* *Propietario / Información del inquilino (si aplica)*

Name/ Nombre: [redacted]

Interviewed/ Entrevistado: ☐ Yes ☑ No

Phone/ Teléfono [redacted] Email: _____

Building Type *(Check appropriate boxes)/* *Tipo de Edificio*

☐ Single-Family/ Familia Singular ☐ Duplex ☐ Condominium/Townhouse/ Condominio

☑ Apartment Building/ Apartamento ☐ Mobile Home/Trailer/ Movil/Remolque

Other/ Otro ☐ _____

How long have you been living in the residence?/ ¿Cuánto tiempo has estado viviendo en la residencia? 19 years

What times of day is building likely to receive ventilation? / ¿A qué tiempos durante el día es más probable que la residencia reciba ventilación? windows and doors opened throughout day

In general sampling should be biased toward times when the heater is operating and the home is closed.

En general, el muestreo debera hacerse cuando la calefacción esté operando y la casa está cerrada

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES 02
Fecha: _____ Sitio: _____ , EPA Residencia #: _____

Are the heating / cooling systems routinely operated? / ¿Los sistemas de calefacción / refrigeración operan habitualmente? ☐ Yes ☑ No

If yes, what times of the day and months during the year? / ¿Qué épocas durante el día y en que meses? heater is sometimes used in the winter in the morning

Building Characteristics ***Características del Edificio***

Year /Decade Built/ Año / Década de construcción: _____

Number of Stories/ Número de Pisos: _____

Approximate Building Area (square feet)/ área aproximada de construcción (pies cuadrados):

_____ First Floor/ Primer Piso: _____

If there is an attached garage describe its use/ Si hay un garaje pegado a la casa describa su uso:

No

Foundation Type (Check appropriate boxes) Tipo de Cimiento (Marque las casillas apropiadas):

☐ Slab-on-Grade Cimento sin sótano

☑ Crawl Space Semisótano

☐ Sump Pump Bomba de Sumidero

☐ Concrete Cracks Grietas en el concreto

☐ Floor Drains Drenajes en el suelo

Condition of Concrete Floor Condición del piso de concreto No cracks

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES02
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 2: Factors Impacting Indoor Air Quality/ Factores que impactan la calidad del aire interior

Describe remodeling activities occurred over the last 6 months (what was done, what area, and when)/ Describir las actividades de remodelación que se produjeron durante los últimos 6 meses (lo que se hizo, qué área, y cuando):

NO

Does anyone use/ Hace uso cualquiera:

☐ smokes/ fumadores ☑ candles/ velas ☑ incense/ incienso

☑ air freshener/ ambientador ☐ fireplace/chimenea

☐ dry cleaned clothes/fabricas ropa o telas de la"tintorería" o de lavar en seco

Does anyone work with chemicals (such as a painter, or a mechanic) ¿Alguien trabaja con productos químicos (como un mecánico, o pintor)?

No

Have site chemicals been used or stored in building or adjacent garage (including degreasers, brake fluid cleaners, WD-40, drain cleaner, etc)? /Se han utilizado o almacenado químicos en el edificio o en el garaje adyacente? (incluyendo desengrasante, limpiador de líquido o aceite de los frenos, WD-40, limpiador de desagües, etc)

☑ Yes ☐ No

Please list the chemicals/ Por favor enumera los químicos

degreaser

Describe any instance of water/groundwater present in the basement/crawlspace (including sumps) Describa cualquier instancia de agua / aguas subterráneas presentes en el sótano o espacio de acceso (incluyendo sumideros):

None

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES02
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Are there conduits for sewer gases to enter the building (dry p-traps, open clean-outs, abandoned hook-ups, poorly installed/sealed/seated plumbing)?/ ¿Hay conductos para que los gases de las alcantarillas entren en el edificio (tapón de estilo-P seco, tubería abierta, conexiones abandonadas, plomería mal instalados / sellado)?: **Describe/** Describa:

No

Observations Observaciones:

What is the temperature relative to outside?/ ¿Cuál es la temperatura en relación con el exterior? Colder inside than outside

What pathways to the subsurface were observed?/ ¿Qué vías hacia el subsuelo se observaron?

None

Are windows and door kept open?/ ¿Las ventanas y puertas se mantienen abiertas?

Windows and doors open throughout day

Ventilation system status and condition?/ El estado y condición del sistema de ventilación

Are intake or exhaust fans being used?/ Se utilizan ventiladores de admisión o de escape?

yes, exhaust fan above stove is used

Is there evidence of significant negative pressure?/ ¿Hay evidencia de presión negativa significativa?

Do parts of the indoor environment appear stagnant? /¿Existe alguna parte o cuarto de la casa en donde el aire parece estancado (o en donde no corre el viento)?

No

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES02
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Describe any strong odors. / Describiré cualquier olor fuerte

None

Olores fuertes podría indicar posible pobre ventilación a su vez esto podrá interferir con los análisis

Building Occupancy **Ocupación del Edificio**

Number of Occupants/ Número de Ocupantes: 4 Adults/ Adultos: 2

Gender ratio/ Sexo relación: 3

General Age ranges/ Rangos Generales de Edades: 2 - 50

Children/ Niños

Number at Ages/ Número en las Edades: (<2) 1 (2-6) 1 (>7) 1

↑only in house during the day for childcare

Other Information (that may be of importance in understanding the indoor air quality in residence) Otra información (que podría ser de importancia para entender la calidad del aire interior en la residencia):

Potential Sampling Locations/ Ubicación posible de muestreo

General notes on potential sample locations and type. / Notas generales sobre los posibles puntos de muestreo y tipo

sampler ~~located~~ on top of poster on desk in back of living room

Tentative sampling date(s) and preferred times. / Fecha tentativa de muestreo (s) y los tiempos preferidos.

DATE/ Dia: _____

Time/ Hora : _____ AM / PM

Pickup - Wednesday, 1/27 at 10:30 AM

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES02
Fecha: _____ Sitio: _____ EPA Residencia #: _____

☑ **Crawlspace Sampling** **Muestreo de Semisótano**

Describe Crawlspace (Access Location, Height, and Vent Locations)/ Describa Semisótano (Ubicación del acceso, Altura, y Ubicaciones de las aperturas):

sample placed in crawl space accessed through right grate on front of building, sample placed equidistant between two openings at front of house, sample placed on case a couple inches above ground level

☑ Dirt Floor/ Piso de Tierra ☐ Sealed/ Sellado ☐ Wet Surfaces/ Superficies Húmedas

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

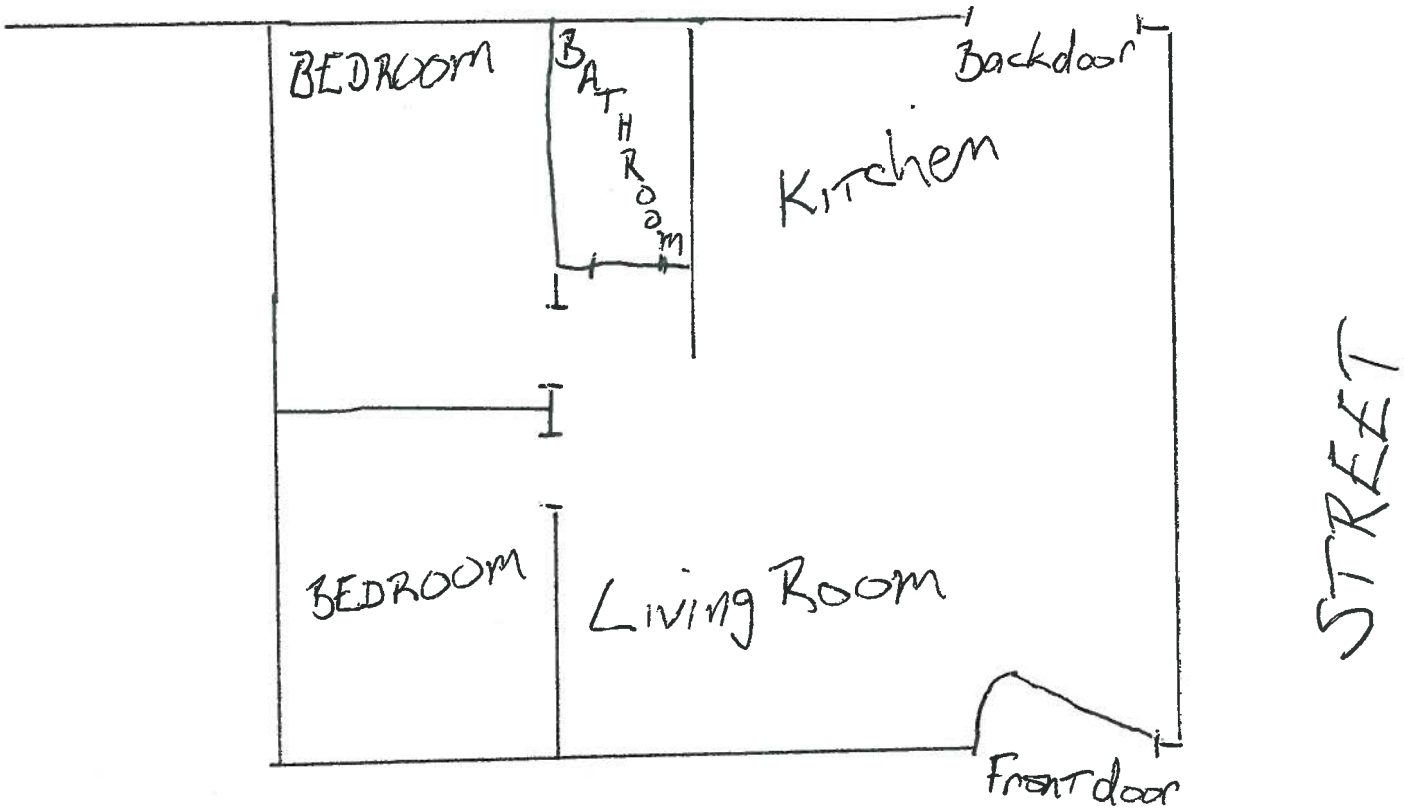
Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: 1-20-16 **Site** _____ **EPA Residence Location:** Res02

Fecha: _____ Sitio: _____ EPA Residencia #: _____

On this page, draw the general floor plan of the building and denote potential locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.

En esta página, dibuja el plano general del edificio y marca posibles ubicaciones en donde poner las muestras. Indique la ubicación de las puertas, las ventanas, las fuentes de contaminantes del aire del interior y lecturas de los instrumentos de campo.



Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES02
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 3: Inventory of Potential Indoor Chemical Sources: Inventario de Posibles Fuentes Químicos en el Interior:

Instructions: List items/products in the building or the attached garage that may contain site compounds of concern. These should be removed prior to sampling. List items/products that that give off significant volatiles as these may interfere with chemical analysis. Include chemicals that may be tracked into the house from an occupant. This could be chemical usage at work or in an attached workshop/garage. A portable instrument, such as a photo-ionization detector (PID) can be used to help locate volatile chemicals. Instrucciones: Lista de artículos / productos en el edificio o en el garaje adjunto que puedan contener compuestos del sitio. Estos deben ser retirados antes del muestreo. Nombrar el / los productos que emiten volátiles importantes que pueden interferir con el análisis químico. Incluya los productos químicos que pueden ser rastreados en la casa de un ocupante. Este podría ser el uso de químicos en el trabajo o en un taller / garaje adjunto. Un instrumento portátil, tal como un detector de fotoionización (PID) se puede utilizar para ayudar a localizar productos químicos volátiles.

Examples of products that may contain trichloroethene (TCE), such as gun cleaner, rubber cement, solvent degreasers, spot removers, correction fluid, electrical motor cleaner (also be aware that older products are more likely to contain TCE): Ejemplos de productos que pueden contener tricloroetileno (TCE) - limpiador de pistola, cemento de caucho, desengrasantes, disolventes, quitamanchas, líquido corrector, limpiador de motor eléctrico (también tenga en cuenta que los productos de mayor edad tienen más probabilidades de contener TCE):

Examples of significant volatile chemical sources such as gas powered equipment, gasoline storage cans, oil- based paint, paint thinner, nail polish remover, moth balls, perfumes, scented decorative items, insecticides: Ejemplos de fuentes químicas volátiles significativas tales como equipos con motor de gasolina, latas de almacenamiento de gasolina, pintura a base de aceite, sacapinturas, quitaesmalte, bolas de naftalina, perfumes, artículos de decoración perfumadas, insecticidas:

Potential chemical source Fuente Potencial de químico	**Location of Product Source** Lugar de origen del producto	**Photograph, ingredients, PID reading?** Fotografía, ingredientes, lectura del PID?

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES02
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 4: Building Ventilation Systems/ Construcción de sistemas de ventilación

Type(s) of Cooling/Heating Used (Check appropriate boxes)/ Tipo (s) de refrigeración / calefacción utilizados (Marque las casillas apropiadas)

- ☐ Central Forced Air (dueled)/ Aire central forzado (duelo)
- ☐ Natural Gas Furnace/ Horno de Gas Natural
- ☐ Air Conditioner?/ acondicionador de aire
- ☐ Outdoor Air Intake?/ entrada de air exterior
- ☐ Floor Vents on the first floor? / respiraderos del piso en el primer piso

Location of the Furnace/ ubicación de horno _____

Which rooms have air supply/ ¿Qué habitaciones tienen suministro de aire? _____

Location of air returns/ Ubicación de retornos de aire _____

- ☑ Centrally located wall heater(s) /calentador de pared (es) localizados centralmente

Natural Gas or Electric?/ Gas Natural o eléctrico? gas

Location(s)/ Ubicación (s) in living room

- ☐ Centrally located floor heater(s)/ Calentador de piso situado en el centro

Natural Gas or Electric?/ Gas Natural o eléctrico?

Location(s)/ Ubicación (s) _____

- ☐ Electrical Radiators/ Radiadores Eléctricos

Location(s)/ Ubicación (s) _____

- ☐ Water/Steam Radiators/ Radiadores de agua / vapor

Location(s)/ Ubicación (s) _____

- ☐ Radiant Floor Heat/ Calefaccion radiante de suelo

Location(s) Ubicación (s) _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES07
Fecha: _____ Sitio: _____ EPA Residencia #: _____

☐ **Wood Stove(s)/** Horno (s)/Estufa de madera

Location(s) Ubicación (s) _____

☐ **Fireplace/** Chimenea

Location(s)/ Ubicación (s) _____

☐ **Window /Wall Air Conditioning Units/** Unidades de Ventana / Pared De Aire Acondicionado

Location(s)/ Ubicación (s) _____

Are the outdoor air vents opened (if equipped) Se abren los orificios de ventilación de aire exterior (si está equipado) _____

☐ **Other (specify)/** Otro (especificar) _____

Are fans used?/ ¿Se utilizan los Ventiladores/abanicos?

☐ **No** ☑ **Yes**

Yes, Ceiling fans/ ventilador del techo ☑

Yes, Room Fans Ventiladores de la habitación ☒ one ceiling fan in livingroom

Yes, Kitchen Exhaust colorantes de aire de la cocina ☑

Yes, Bathroom Exhaust cuarto de baño escape ☐

Yes, Attic/Whole house Fans ☐

Other (specify)/ Otro (especificar). _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES02

Fecha: _____ Sitio: _____ EPA Residencia #: _____

Additional Notes/ Notas Adicionales:

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENTIAL NO COMPARTIR]

Date: 1/20/16 **Site** SAIA **EPA Residence Location:** [redacted]
Fecha: _____ Sitio: _____ EPA Residencia #: RES 03

Survey Preparer's Name Heather Parker

Affiliation US EPA Date 1/20/16

PART 1: General Information

Occupant Information/ *Información del Ocupante*

Address/ Dirección: [redacted]

Occupant Name/ Nombre del Ocupante: [redacted]

Interviewed/ Entrevistado: ☑ Yes ☐ No

Phone/ Teléfono: [redacted] Email: _____

Consent Access/ Permiso de Acceso ☑ Yes ☐ No Date/ Fecha _____

Owner/Landlord Information *(if applicable)/ Propietario / Información del inquilino (si aplica)*

Name/ Nombre: [redacted]

Interviewed/ Entrevistado: ☐ Yes ☑ No

Phone/ Teléfono: [redacted] Email: _____

Building Type *(Check appropriate boxes)/ Tipo de Edificio*

☐ Single-Family/ Familia Singular ☐ Duplex ☐ Condominium/Townhouse/ Condominio

☑ Apartment Building/ Apartamento ☐ Mobile Home/Trailer/ Movil/Remolque

Other/ Otro ☐ _____

How long have you been living in the residence?/ ¿Cuánto tiempo has estado viviendo en la residencia? 6 ~~months~~ year

What times of day is building likely to receive ventilation? / ¿A qué tiempos durante el día es más probable que la residencia reciba ventilación? windows and doors are always kept open

In general sampling should be biased toward times when the heater is operating and the home is closed.

En general, el muestreo deberá hacerse cuando la calefaccion este operando y la casa esta cerrada

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES03
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Are the heating / cooling systems routinely operated? / ¿Los sistemas de calefacción / refrigeración operan habitualmente? ☑ Yes ☐ No

If yes, what times of the day and months during the year? / ¿Qué épocas durante el día y en que meses? Use heating from 12 AM - 8 6 AM, have AC but only use it in the summer (not now)

Building Characteristics *Características del Edificio*

Year /Decade Built/ Año / Década de construcción: _____

Number of Stories/ Número de Pisos: _____

Approximate Building Area (square feet)/ área aproximada de construcción (pies cuadrados):

_____ First Floor/ Primer Piso: _____

If there is an attached garage describe its use/ Si hay un garaje pegado a la casa describa su uso:

Yes, it's used as a play space for the kids, door opens to inside of unit and is kept open, garage doors to outside are always kept closed

Foundation Type (Check appropriate boxes) Tipo de Cimiento (Marque las casillas apropiadas):

☑ Slab-on-Grade Cimento sin sótano

☐ Crawl Space Semisótano

☐ Sump Pump Bomba de Sumidero

☐ Concrete Cracks Grietas en el concreto

☐ Floor Drains Drenajes en el suelo

Condition of Concrete Floor Condición del piso de concreto _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES03
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 2: Factors Impacting Indoor Air Quality/ Factores que impactan la calidad del aire interior

Describe remodeling activities occurred over the last 6 months (what was done, what area, and when)/ Describir las actividades de remodelación que se produjeron durante los últimos 6 meses (lo que se hizo, qué área, y cuando):

None

Does anyone use/ Hace uso cualquiera:

☐ smokes/ fumadores ☐ candles/ velas ☐ incense/ incienso

☑ air freshener/ ambientador ☐ fireplace/chimenea

☐ dry cleaned clothes/fabricas ropa o telas de la"tintorería" o de lavar en seco

Does anyone work with chemicals (such as a painter, or a mechanic) ¿Alguien trabaja con productos químicos (como un mecánico, o pintor)?

No

Have site chemicals been used or stored in building or adjacent garage (including degreasers, brake fluid cleaners, WD-40, drain cleaner, etc)? /Se han utilizado o almacenado químicos en el edificio o en el garaje adyacente? (incluyendo desengrasante, limpiador de líquido o aceite de los frenos, WD-40, limpiador de desagües, etc)

☐ Yes ☑ No

Please list the chemicals/ Por favor enumera los químicos

Chemicals are kept outside of house

Describe any instance of water/groundwater present in the basement/crawlspace (including sumps) Describa cualquier instancia de agua / aguas subterráneas presentes en el sótano o espacio de acceso (incluyendo sumideros):

None

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES03
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Are there conduits for sewer gases to enter the building (dry p-traps, open clean-outs, abandoned hook-ups, poorly installed/sealed/seated plumbing)?/ ¿Hay conductos para que los gases de las alcantarillas entren en el edificio (tapón de estilo-P seco, tubería abierta, conexiones abandonadas, plomería mal instalados / sellado)?: **Describe/** Describa:

None

Observations Observaciones:

What is the temperature relative to outside?/ ¿Cuál es la temperatura en relación con el exterior? colder

What pathways to the subsurface were observed?/ ¿Qué vías hacia el subsuelo se observaron?

None

Are windows and door kept open?/ ¿Las ventanas y puertas se mantienen abiertas?

Yes, for most of the day

Ventilation system status and condition?/ El estado y condición del sistema de ventilación

Are intake or exhaust fans being used?/ Se utilizan ventiladores de admisión o de escape?

Yes, there is an exhaust fan above the stove

Is there evidence of significant negative pressure?/ ¿Hay evidencia de presión negativa significativa?

Do parts of the indoor environment appear stagnant? /¿Existe alguna parte o cuarto de la casa en donde el aire parece estancado (o en donde no corre el viento)?

NO

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES03
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Describe any strong odors. / Describiré cualquier olor fuerte

smells from nearby dump enter home when doors and windows are open

Olores fuertes podría indicar posible pobre ventilación a su vez esto podrá interferir con los análisis

Building Occupancy **Ocupación del Edificio**

Number of Occupants/ Número de Ocupantes: 4 Adults/ Adultos: 2

Gender ratio/ Sexo relación: 2

General Age ranges/ Rangos Generales de Edades: 3 - 45

Children/ Niños

Number at Ages/ Número en las Edades: (<2) 0 (2-6) 1 (>7) 1

Other Information (that may be of importance in understanding the indoor air quality in residence) Otra información (que podría ser de importancia para entender la calidad del aire interior en la residencia):

None

Potential Sampling Locations/ Ubicación posible de muestreo

General notes on potential sample locations and type. / Notas generales sobre los posibles puntos de muestreo y tipo.

Sampler located in living room on top of clock against back wall

Tentative sampling date(s) and preferred times. / Fecha tentativa de muestreo (s) y los tiempos preferidos.

DATE/ Dia: _____

Time/ Hora : _____ AM / PM

Pick-up at 10:00 AM on Wednesday, 1/27/16

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES03

Fecha: _____ Sitio: _____ EPA Residencia #: _____

☐ **Crawlspace Sampling** **Muestreo de Semisótano**

Describe Crawlspace (Access Location, Height, and Vent Locations)/ Describa Semisótano (Ubicación del acceso, Altura, y Ubicaciones de las aperturas):

_____

_____

_____

☐ Dirt Floor/ Piso de Tierra ☐ **Sealed/** Sellado ☐ Wet Surfaces/ Superficies Húmedas

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

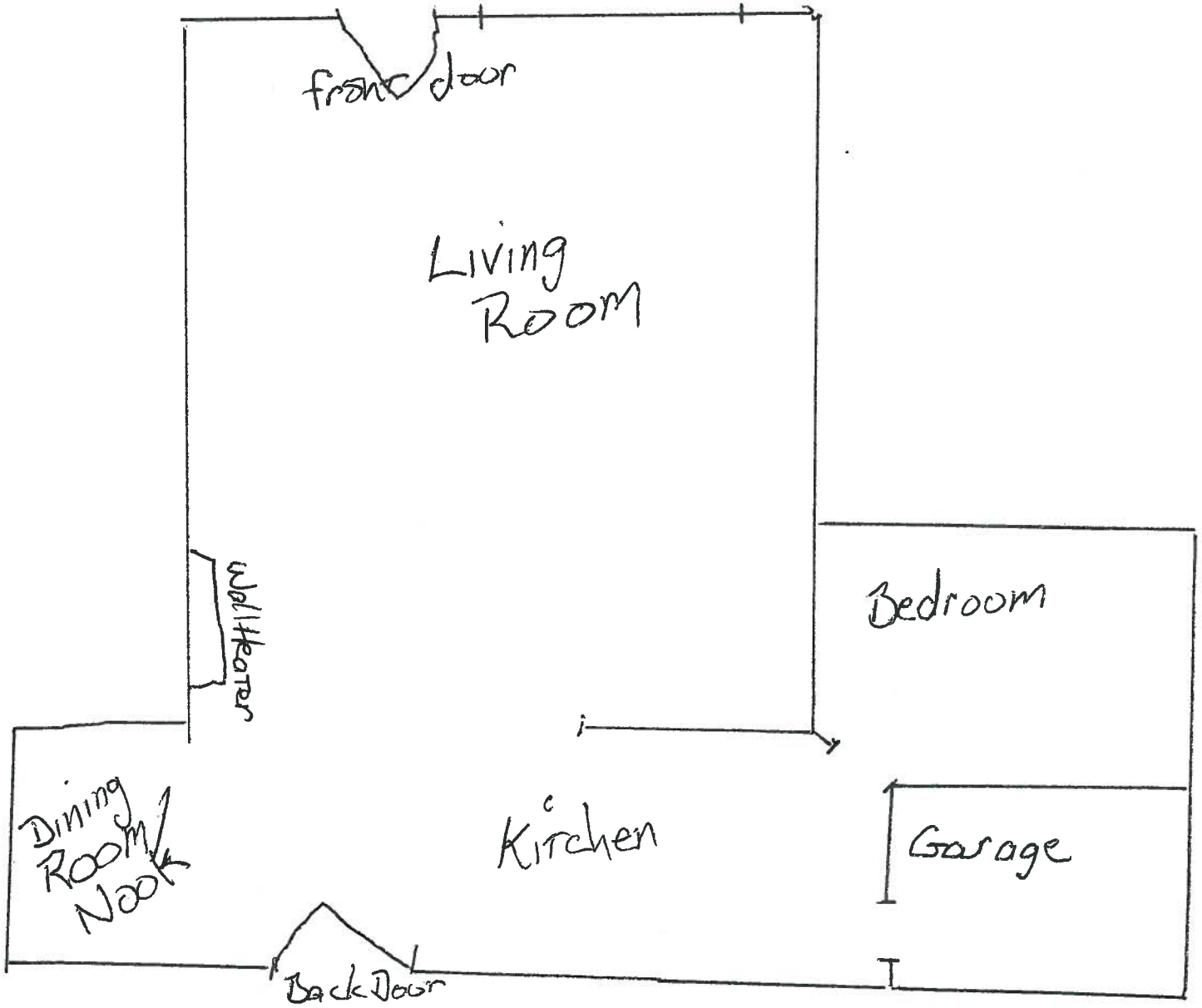
Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENTIAL NO COMPARTIR]

Date: 1-20-16 **Site** _____ **EPA Residence Location:** 3-HA RES03

Fecha: _____ Sitio: _____ EPA Residencia #: _____

On this page, draw the general floor plan of the building and denote potential locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.

En esta página, dibuja el plano general del edificio y marca posibles ubicaciones en donde poner las muestras. Indique la ubicación de las puertas, las ventanas, las fuentes de contaminantes del aire del interior y lecturas de los instrumentos de campo.



Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES03
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 3: Inventory of Potential Indoor Chemical Sources: Inventario de Posibles Fuentes Químicos en el Interior:

Instructions: List items/products in the building or the attached garage that may contain site compounds of concern. These should be removed prior to sampling. List items/products that that give off significant volatiles as these may interfere with chemical analysis. Include chemicals that may be tracked into the house from an occupant. This could be chemical usage at work or in an attached workshop/garage. A portable instrument, such as a photo-ionization detector (PID) can be used to help locate volatile chemicals. Instrucciones: Lista de artículos / productos en el edificio o en el garaje adjunto que puedan contener compuestos del sitio. Estos deben ser retirados antes del muestreo. Nombrar el / los productos que emiten volátiles importantes que pueden interferir con el análisis químico. Incluya los productos químicos que pueden ser rastreados en la casa de un ocupante. Este podría ser el uso de químicos en el trabajo o en un taller / garaje adjunto. Un instrumento portátil, tal como un detector de fotoionización (PID) se puede utilizar para ayudar a localizar productos químicos volátiles.

Examples of products that may contain trichloroethene (TCE), such as gun cleaner, rubber cement, solvent degreasers, spot removers, correction fluid, electrical motor cleaner (also be aware that older products are more likely to contain TCE): Ejemplos de productos que pueden contener tricloroetileno (TCE) - limpiador de pistola, cemento de caucho, desengrasantes, disolventes, quitamanchas, líquido corrector, limpiador de motor eléctrico (también tenga en cuenta que los productos de mayor edad tienen más probabilidades de contener TCE):

Examples of significant volatile chemical sources such as gas powered equipment, gasoline storage cans, oil- based paint, paint thinner, nail polish remover, moth balls, perfumes, scented decorative items, insecticides: Ejemplos de fuentes químicas volátiles significativas tales como equipos con motor de gasolina, latas de almacenamiento de gasolina, pintura a base de aceite, sacapinturas, quitaesmalte, bolas de naftalina, perfumes, artículos de decoración perfumadas, insecticidas:

Potential chemical source Fuente Potencial de químico	**Location of Product Source** Lugar de origen del producto	**Photograph, ingredients, PID reading?** Fotografía, ingredientes, lectura del PID?

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES 03

Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 4: Building Ventilation Systems/ Construcción de sistemas de ventilación

Type(s) of Cooling/Heating Used (Check appropriate boxes)/ Tipo (s) de refrigeración / calefacción utilizados (Marque las casillas apropiadas)

- ☐ Central Forced Air (dueled)/ Aire central forzado (duelo)
- ☐ Natural Gas Furnace/ Horno de Gas Natural
- ☑ Air Conditioner?/ acondicionador de aire only use in summer
- ☐ Outdoor Air Intake?/ entrada de air exterior
- ☐ Floor Vents on the first floor? / respiraderos del piso en el primer piso

Location of the Furnace/ ubicación de horno _____

Which rooms have air supply/ ¿Qué habitaciones tienen suministro de aire? _____

Location of air returns/ Ubicación de retornos de aire _____

- ☑ Centrally located wall heater(s) /calentador de pared (es) localizados centralmente

Natural Gas or Electric?/ Gas Natural o eléctrico? gas

Location(s)/ Ubicación (s) in the living room

- ☐ Centrally located floor heater(s)/ Calentador de piso situado en el centro

Natural Gas or Electric?/ Gas Natural o eléctrico?

Location(s)/ Ubicación (s) _____

- ☐ Electrical Radiators/ Radiadores Eléctricos

Location(s)/ Ubicación (s) _____

- ☐ Water/Steam Radiators/ Radiadores de agua / vapor

Location(s)/ Ubicación (s) _____

- ☐ Radiant Floor Heat/ Calefaccion radiante de suelo

Location(s) Ubicación (s) _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENTIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES03
Fecha: _____ Sitio: _____ EPA Residencia #: _____

☐ **Wood Stove(s)/** Horno (s)/Estufa de madera

Location(s) Ubicación (s) _____

☐ **Fireplace/** Chimenea

Location(s)/ Ubicación (s) _____

☐ **Window/Wall Air Conditioning Units/** Unidades de Ventana / Pared De Aire Acondicionado

Location(s)/ Ubicación (s) _____

Are the outdoor air vents opened (if equipped) Se abren los orificios de ventilación de aire exterior (si está equipado) _____

☐ **Other (specify)/** Otro (especificar) _____

Are fans used?/ ¿Se utilizan los Ventiladores/abanicos?

☐ No ☑ Yes

Yes, Ceiling fans/ ventilador del techo ☐

Yes, Room Fans Ventiladores de la habitación ☑ one in the living room

Yes, Kitchen Exhaust colorantes de aire de la cocina ☑

Yes, Bathroom Exhaust cuarto de baño escape ☐

Yes, Attic/Whole house Fans ☐

Other (specify)/ Otro (especificar). _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES03

Fecha: _____ Sitio: _____ EPA Residencia #: _____

Additional Notes/ Notas Adicionales:

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: 1/21/16 **Site** SALA **EPA Residence Location:** [redacted]
Fecha: _____ Sitio: _____ EPA Residencia #: Res 04

Survey Preparer's Name Heather Parker

Affiliation U.S. EPA Date 1/21/16

PART 1: General Information

Occupant Information/ *Información del Ocupante*

Address/ Dirección: [redacted]

Occupant Name/ Nombre del Ocupante: [redacted]

Interviewed/ Entrevistado: ☑Yes ☐No

Phone/ Teléfono: [redacted] Email: _____

Consent Access/ Permiso de Acceso ☑Yes ☐No Date/ Fecha _____

Owner/Landlord Information *(if applicable)/* *Propietario / Información del inquilino (si aplica)*

Name/ Nombre: [redacted]

Interviewed/ Entrevistado: ☐Yes ☑No

Phone/ Teléfono [redacted] Email: _____

Building Type *(Check appropriate boxes)/* *Tipo de Edificio*

☐ Single-Family/ Familia Singular ☐ Duplex ☐ Condominium/Townhouse/ Condominio

☑ Apartment Building/ Apartamento ☐ Mobile Home/Trailer/ Movil/Remolque

Other/ Otro ☐ _____

How long have you been living in the residence?/ ¿Cuanto tiempo has estado viviendo en la residencia? one week - tenant just moved in

What times of day is building likely to receive ventilation? / ¿A qué tiempos durante el día es más probable que la residencia reciba ventilación? windows and doors kept open for most of day

In general sampling should be biased toward times when the heater is operating and the home is closed.

En general, el muestreo deberá hacerse cuando la calefacción este operando y la casa esté cerrada

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES 04
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Are the heating / cooling systems routinely operated? / ¿Los sistemas de calefacción / refrigeración operan habitualmente? ☐ Yes ☑ No have heater, but haven't used yet

If yes, what times of the day and months during the year? / ¿Qué épocas durante el día y en que meses? _____

Building Characteristics *Características del Edificio*

Year /Decade Built/ Año / Década de construcción: _____

Number of Stories/ Número de Pisos: _____

Approximate Building Area (square feet)/ área aproximada de construcción (pies cuadrados):

_____ First Floor/ Primer Piso: _____

If there is an attached garage describe its use/ Si hay un garaje pegado a la casa describa su uso:

No

Foundation Type (Check appropriate boxes) Tipo de Cimiento (Marque las casillas apropiadas):

☑ Slab-on-Grade Cimento sin sótano

☐ Crawl Space Semisótano

☐ Sump Pump Bomba de Sumidero

☐ Concrete Cracks Grietas en el concreto

☐ Floor Drains Drenajes en el suelo

Condition of Concrete Floor Condición del piso de concreto _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES04
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 2: Factors Impacting Indoor Air Quality/ Factores que impactan la calidad del aire interior

Describe remodeling activities occurred over the last 6 months (what was done, what area, and when)/ Describir las actividades de remodelación que se produjeron durante los últimos 6 meses (lo que se hizo, qué área, y cuando):

No

Does anyone use/ Hace uso cualquiera:

- ☐ smokes/ fumadores
- ☑ candles/ velas
- ☐ incense/ incienso
- ☐ air freshener/ ambientador
- ☐ fireplace/chimenea
- ☑ dry cleaned clothes/fabricas ropa o telas de la"tintorería" o de lavar en seco

Does anyone work with chemicals (such as a painter, or a mechanic) ¿Alguien trabaja con productos químicos (como un mecánico, o pintor)?

No

Have site chemicals been used or stored in building or adjacent garage (including degreasers, brake fluid cleaners, WD-40, drain cleaner, etc)? /Se han utilizado o almacenado químicos en el edificio o en el garaje adyacente? (incluyendo desengrasante, limpiador de líquido o aceite de los frenos, WD-40, limpiador de desagües, etc)

☑ Yes ☐ No

Please list the chemicals/ Por favor enumera los químicos

Windex, bleach, basic cleaning supplies

Describe any instance of water/groundwater present in the basement/crawlspace (including sumps) Describa cualquier instancia de agua / aguas subterráneas presentes en el sótano o espacio de acceso (incluyendo sumideros):

None

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES04
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Are there conduits for sewer gases to enter the building (dry p-traps, open clean-outs, abandoned hook-ups, poorly installed/sealed/seated plumbing)?/ ¿Hay conductos para que los gases de las alcantarillas entren en el edificio (tapón de estilo-P seco, tubería abierta, conexiones abandonadas, plomería mal instalados / sellado)?: **Describe/** Describa:

No

Observations Observaciones:

What is the temperature relative to outside?/ ¿Cuál es la temperatura en relación con el exterior? similar to outside

What pathways to the subsurface were observed?/ ¿Qué vías hacia el subsuelo se observaron?

none

Are windows and door kept open?/ ¿Las ventanas y puertas se mantienen abiertas?

windows and doors kept open during day

Ventilation system status and condition?/ El estado y condición del sistema de ventilación

there's an exhaust outlet in kitchen above stove, not used as a fan

Are intake or exhaust fans being used?/ Se utilizan ventiladores de admisión o de escape?

No.

Is there evidence of significant negative pressure?/ ¿Hay evidencia de presión negativa significativa?

Do parts of the indoor environment appear stagnant? / ¿Existe alguna parte o cuarto de la casa en donde el aire parece estancado (o en donde no corre el viento)?

NO

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES04
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Describe any strong odors. / Describiré cualquier olor fuerte

No

Olores fuertes podría indicar posible pobre ventilación a su vez esto podrá interferir con los análisis

***Building Occupancy* Ocupación del Edificio**

Number of Occupants/ Número de Ocupantes: 4 Adults/ Adultos: 2

Gender ratio/ Sexo relación: 3

General Age ranges/ Rangos Generales de Edades: 2 - 30

Children/ Niños

Number at Ages/ Número en las Edades: (<2) 0 (2-6) 2 (>7) 0

Other Information (that may be of importance in understanding the indoor air quality in residence) Otra información (que podría ser de importancia para entender la calidad del aire interior en la residencia):

* when we arrived at the sampling appointment, tenant was using lysol to clean living room and house smelled very strongly of cleaning chemicals

Potential Sampling Locations/ Ubicación posible de muestreo

General notes on potential sample locations and type. / Notas generales sobre los posibles puntos de muestreo y tipo.

sampler was hung on chain attached to the ceiling fan in the bedroom

Tentative sampling date(s) and preferred times. / Fecha tentativa de muestreo (s) y los tiempos preferidos.

DATE/ Dia: _____

Time/ Hora : _____ AM / PM

Pick-up at 9:00 AM on Thursday 1/28

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES04
Fecha: _____ Sitio: _____ EPA Residencia #: _____

☐ **Crawlspace Sampling** Muestreo de Semisótano

Describe Crawlspace (Access Location, Height, and Vent Locations)/ Describa Semisótano (Ubicación del acceso, Altura, y Ubicaciones de las aperturas):

_____

_____

_____

☐ Dirt Floor/ Piso de Tierra ☐ **Sealed/** Sellado ☐ Wet Surfaces/ Superficies Húmedas

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

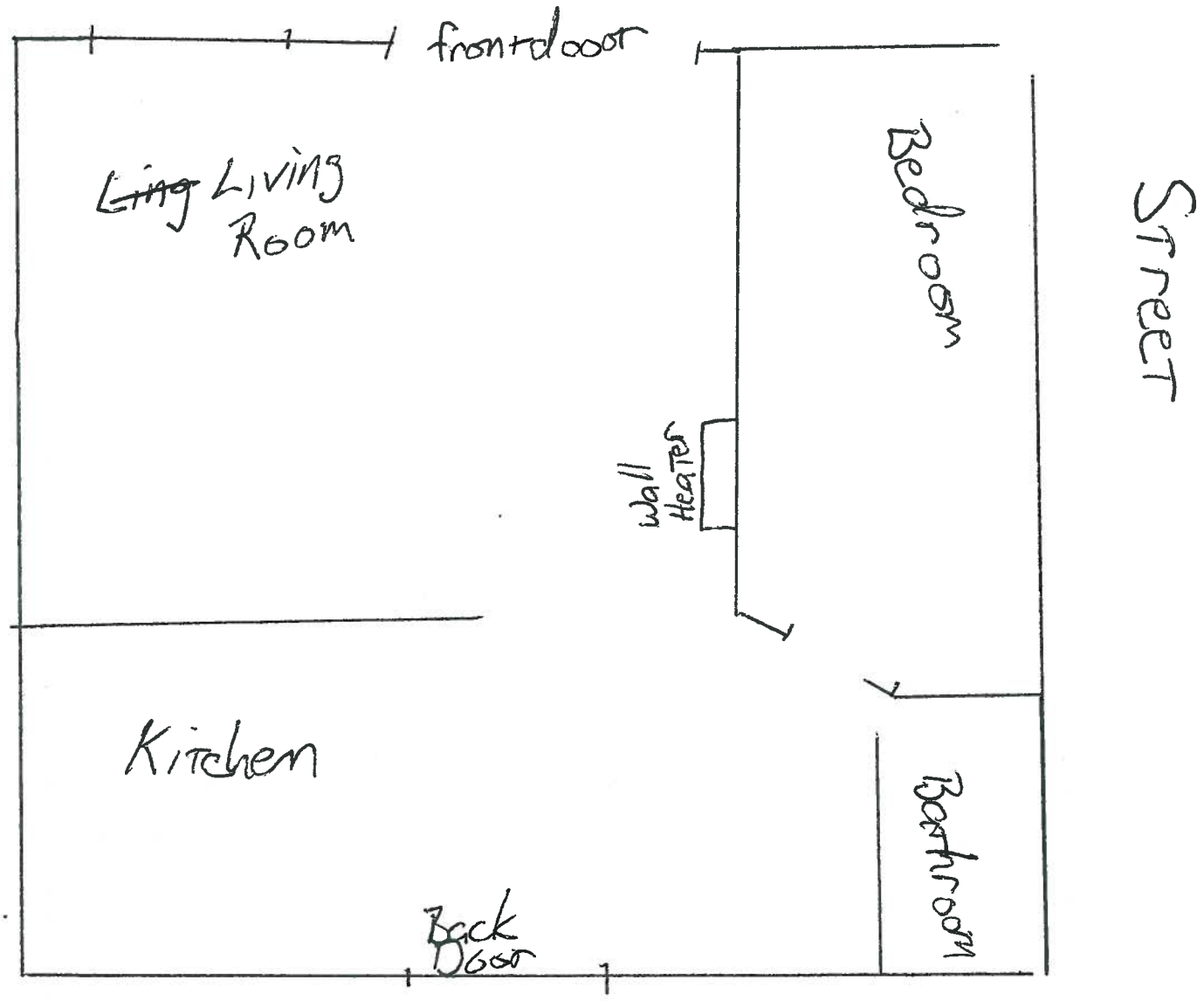
Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: 1-21-16 **Site** RES 04 **EPA Residence Location:** RES04

Fecha: _____ Sitio: _____ EPA Residencia #: _____

On this page, draw the general floor plan of the building and denote potential locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.

En esta página, dibuja el plano general del edificio y marca posibles ubicaciones en donde poner las muestras. Indique la ubicación de las puertas, las ventanas, las fuentes de contaminantes del aire del interior y lecturas de los instrumentos de campo.



Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES04
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 3: Inventory of Potential Indoor Chemical Sources: Inventario de Posibles Fuentes Químicos en el Interior:

Instructions: List items/products in the building or the attached garage that may contain site compounds of concern. These should be removed prior to sampling. List items/products that that give off significant volatiles as these may interfere with chemical analysis. Include chemicals that may be tracked into the house from an occupant. This could be chemical usage at work or in an attached workshop/garage. A portable instrument, such as a photo-ionization detector (PID) can be used to help locate volatile chemicals. Instrucciones: Lista de artículos / productos en el edificio o en el garaje adjunto que puedan contener compuestos del sitio. Estos deben ser retirados antes del muestreo. Nombrar el / los productos que emiten volátiles importantes que pueden interferir con el análisis químico. Incluya los productos químicos que pueden ser rastreados en la casa de un ocupante. Este podría ser el uso de químicos en el trabajo o en un taller / garaje adjunto. Un instrumento portátil, tal como un detector de fotoionización (PID) se puede utilizar para ayudar a localizar productos químicos volátiles.

Examples of products that may contain trichloroethene (TCE), such as gun cleaner, rubber cement, solvent degreasers, spot removers, correction fluid, electrical motor cleaner (also be aware that older products are more likely to contain TCE): Ejemplos de productos que pueden contener tricloroetileno (TCE) - limpiador de pistola, cemento de caucho, desengrasantes, disolventes, quitamanchas, líquido corrector, limpiador de motor eléctrico (también tenga en cuenta que los productos de mayor edad tienen más probabilidades de contener TCE):

Examples of significant volatile chemical sources such as gas powered equipment, gasoline storage cans, oil- based paint, paint thinner, nail polish remover, moth balls, perfumes, scented decorative items, insecticides: Ejemplos de fuentes químicas volátiles significativas tales como equipos con motor de gasolina, latas de almacenamiento de gasolina, pintura a base de aceite, sacapinturas, quitaesmalte, bolas de naftalina, perfumes, artículos de decoración perfumadas, insecticidas:

Potential chemical source Fuente Potencial de químico	**Location of Product Source** Lugar de origen del producto	**Photograph, ingredients, PID reading?** Fotografía, ingredientes, lectura del PID?

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES04
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 4: Building Ventilation Systems/ Construcción de sistemas de ventilación

Type(s) of Cooling/Heating Used (Check appropriate boxes)/ Tipo (s) de refrigeración / calefacción utilizados (Marque las casillas apropiadas)

- ☐ Central Forced Air (dueled)/ Aire central forzado (duelo)
- ☐ Natural Gas Furnace/ Horno de Gas Natural
- ☐ Air Conditioner?/ acondicionador de aire
- ☐ Outdoor Air Intake?/ entrada de air exterior
- ☐ Floor Vents on the first floor? / respiraderos del piso en el primer piso

Location of the Furnace/ ubicación de horno _____

Which rooms have air supply/ ¿Qué habitaciones tienen suministro de aire? _____

Location of air returns/ Ubicación de retornos de aire _____

- ☑ Centrally located wall heater(s) /calentador de pared (es) localizados centralmente

Natural Gas or Electric?/ Gas Natural o eléctrico? gas

Location(s)/ Ubicación (s) in living room

- ☑ Centrally located floor heater(s)/ Calentador de piso situado en el centro

Natural Gas or Electric?/ Gas Natural o eléctrico? electric

Location(s)/ Ubicación (s) space heater used in bedroom

- ☐ Electrical Radiators/ Radiadores Eléctricos

Location(s)/ Ubicación (s) _____

- ☐ Water/Steam Radiators/ Radiadores de agua / vapor

Location(s)/ Ubicación (s) _____

- ☐ Radiant Floor Heat/ Calefaccion radiante de suelo

Location(s) Ubicación (s) _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES04
Fecha: _____ Sitio: _____ EPA Residencia #: _____

☐ **Wood Stove(s)/** Horno (s)/Estufa de madera

Location(s) Ubicación (s) _____

☐ **Fireplace/** Chimenea

Location(s)/ Ubicación (s) _____

☐ **Window /Wall Air Conditioning Units/** Unidades de Ventana / Pared De Aire Acondicionado

Location(s)/ Ubicación (s) _____

Are the outdoor air vents opened (if equipped) Se abren los orificios de ventilación de aire exterior (si está equipado) _____

☐ **Other (specify)/** Otro (especificar) _____

Are fans used?/ ¿Se utilizan los Ventiladores/abanicos?

☐ No ☑ Yes

Yes, Ceiling fans/ ventilador del techo ☑ one in bedroom and one in livingroom, but not used often

Yes, Room Fans Ventiladores de la habitación ☐

Yes, Kitchen Exhaust colorantes de aire de la cocina ☐

Yes, Bathroom Exhaust cuarto de baño escape ☐

Yes, Attic/Whole house Fans ☐

Other (specify)/ Otro (especificar). _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES04

Fecha: _____ Sitio: _____ EPA Residencia #: _____

Additional Notes/ Notas Adicionales:

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: ~~1/20/16~~ **Site** SAIA **EPA Residence Location:** [redacted]
Fecha: 1/20/16 Sitio: _____ EPA Residencia #: RES 05

Survey Preparer's Name Heather Parker

Affiliation: U.S. EPA **Date** 1/19/16

PART 1: General Information

Occupant Information/ *Información del Ocupante*

Address/ Dirección: [redacted]

Occupant Name/ Nombre del Ocupante: [redacted]

Interviewed/ Entrevistado: ☑ **Yes** ☐ **No**

Phone/ Teléfono: [redacted] **Email:** _____

Consent Access/ Permiso de Acceso ☑ **Yes** ☐ **No** **Date/** Fecha _____

Owner/Landlord Information (if applicable)/ *Propietario / Información del inquilino (si aplica)*

Name/ Nombre: [redacted]

Interviewed/ Entrevistado: ☐ **Yes** ☑ **No**

Phone/ Teléfono: [redacted] **Email:** _____

Building Type (Check appropriate boxes)/ *Tipo de Edificio*

☐ **Single-Family/** Familia Singular ☐ **Duplex** ☐ **Condominium/Townhouse/** Condominio

☑ **Apartment Building/** Apartamento ☐ **Mobile Home/Trailer/** Movil/Remolque

Other/ Otro ☐ _____

How long have you been living in the residence?/ ¿Cuánto tiempo has estado viviendo en la residencia? over 5 years

What times of day is building likely to receive ventilation? / ¿A que tiempos durante el día es más probable que la residencia reciba ventilación? around 11 AM for the afternoon

In general sampling should be biased toward times when the heater is operating and the home is closed.
En general, el muestreo deberá hacerse cuando la calefacción esté operando y la casa está cerrada

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES05
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Are the heating / cooling systems routinely operated? / ¿Los sistemas de calefacción / refrigeración operan habitualmente? ☑ Yes ☐ No

If yes, what times of the day and months during the year? / ¿Qué épocas durante el día y en que meses? heater at night, no AC

Building Characteristics *Características del Edificio*

Year /Decade Built/ Año / Década de construcción: _____

Number of Stories/ Número de Pisos: 1

Approximate Building Area (square feet)/ área aproximada de construcción (pies cuadrados):

_____ First Floor/ Primer Piso: _____

If there is an attached garage describe its use/ Si hay un garaje pegado a la casa describa su uso:

no

Foundation Type (Check appropriate boxes) Tipo de Cimiento (Marque las casillas apropiadas):

☑ Slab-on-Grade Cimento sin sótano

☐ Crawl Space Semisótano

☐ Sump Pump Bomba de Sumidero

☐ Concrete Cracks Grietas en el concreto

☐ Floor Drains Drenajes en el suelo

Condition of Concrete Floor Condición del piso de concreto no cracks

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES05
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 2: Factors Impacting Indoor Air Quality/ Factores que impactan la calidad del aire interior

Describe remodeling activities occurred over the last 6 months (what was done, what area, and when)/ Describir las actividades de remodelación que se produjeron durante los últimos 6 meses (lo que se hizo, qué área, y cuando):

none

Does anyone use/ Hace uso cualquiera:

☐ smokes/ fumadores ☑ candles/ velas ☐ incense/ incienso

☑ air freshener/ ambientador ☐ fireplace/chimenea

☐ dry cleaned clothes/fabricas ropa o telas de la"tintorería" o de lavar en seco

Does anyone work with chemicals (such as a painter, or a mechanic) ¿Alguien trabaja con productos químicos (como un mecánico, o pintor)?

no

Have site chemicals been used or stored in building or adjacent garage (including degreasers, brake fluid cleaners, WD-40, drain cleaner, etc)? /Se han utilizado o almacenado químicos en el edificio o en el garaje adyacente? (incluyendo desengrasante, limpiador de líquido o aceite de los frenos, WD-40, limpiador de desagües, etc)

☑ Yes ☐ No

Please list the chemicals/ Por favor enumera los químicos

bleach, all purpose cleaner, disinfectant, glass cleaner

Describe any instance of water/groundwater present in the basement/crawlspace (including sumps) Describa cualquier instancia de agua / aguas subterráneas presentes en el sótano o espacio de acceso (incluyendo sumideros):

None

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RE505
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Are there conduits for sewer gases to enter the building (dry p-traps, open clean-outs, abandoned hook-ups, poorly installed/sealed/seated plumbing)?/ ¿Hay conductos para que los gases de las alcantarillas entren en el edificio (tapón de estilo-P seco, tubería abierta, conexiones abandonadas, plomería mal instalados / sellado)?: **Describe/** Describa:

None

Observations Observaciones:

What is the temperature relative to outside?/ ¿Cuál es la temperatura en relación con el exterior? Warmer

What pathways to the subsurface were observed?/ ¿Qué vías hacia el subsuelo se observaron?

None

Are windows and door kept open?/ ¿Las ventanas y puertas se mantienen abiertas?

In the afternoon

Ventilation system status and condition?/ El estado y condición del sistema de ventilación

~~None~~ One outlet on ceiling - in Kitchen

Are intake or exhaust fans being used?/ Se utilizan ventiladores de admisión o de escape?

above stove → this outlet is the exhaust fan

Is there evidence of significant negative pressure?/ ¿Hay evidencia de presión negativa significativa?

Do parts of the indoor environment appear stagnant? /¿Existe alguna parte o cuarto de la casa en donde el aire parece estancado (o en donde no corre el viento)?

No

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES05
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Describe any strong odors. / Describiré cualquier olor fuerte

None

Olores fuertes podría indicar posible pobre ventilación a su vez esto podrá interferir con los análisis

***Building Occupancy* Ocupación del Edificio**

Number of Occupants/ Número de Ocupantes: 6 Adults/ Adultos: 3

Gender ratio/ Sexo relación: 3 women

General Age ranges/ Rangos Generales de Edades: 6-45

Children/ Niños

Number at Ages/ Número en las Edades: (<2) 0 (2-6) 1 (>7) 2

Other Information (that may be of importance in understanding the indoor air quality in residence) Otra información (que podría ser de importancia para entender la calidad del aire interior en la residencia):

Potential Sampling Locations/ Ubicación posible de muestreo

General notes on potential sample locations and type. / Notas generales sobre los posibles puntos de muestreo y tipo.

sampler placed on dresser behind television in smaller of the 2 bedrooms

Tentative sampling date(s) and preferred times. / Fecha tentativa de muestreo (s) y los tiempos preferidos.

DATE/ Dia: _____

Time/ Hora : _____ AM / PM

Pickup: 1/27/16 at 11:30 AM

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES05
Fecha: _____ Sitio: _____ EPA Residencia #: _____

☐ **Crawlspace Sampling** Muestreo de Semisótano

Describe Crawlspace (Access Location, Height, and Vent Locations)/ Describa Semisótano (Ubicación del acceso, Altura, y Ubicaciones de las aperturas):

_____

_____

_____

☐ Dirt Floor/ Piso de Tierra ☐ Sealed/ Sellado ☐ Wet Surfaces/ Superficies Húmedas

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

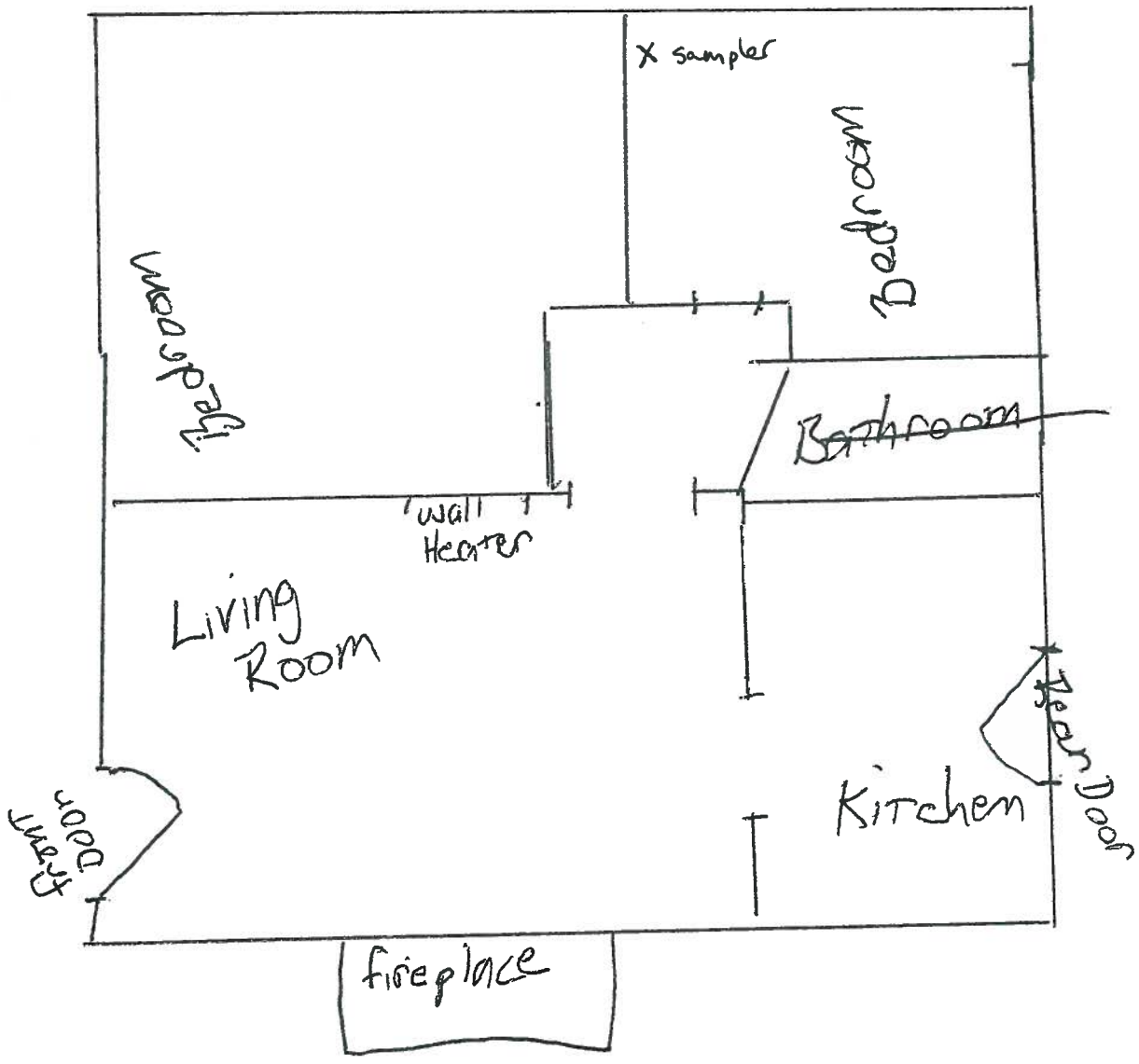
Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: 1-20-16 **Site** _____ **EPA Residence Location:** [redacted]

Fecha: _____ Sitio: _____ EPA Residencia #: RES05

On this page, draw the general floor plan of the building and denote potential locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.

En esta página, dibuja el plano general del edificio y marca posibles ubicaciones en donde poner las muestras. Indique la ubicación de las puertas, las ventanas, las fuentes de contaminantes del aire del interior y lecturas de los instrumentos de campo.



Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES05
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 3: Inventory of Potential Indoor Chemical Sources: Inventario de Posibles Fuentes Químicos en el Interior:

Instructions: List items/products in the building or the attached garage that may contain site compounds of concern. These should be removed prior to sampling. List items/products that that give off significant volatiles as these may interfere with chemical analysis. Include chemicals that may be tracked into the house from an occupant. This could be chemical usage at work or in an attached workshop/garage. A portable instrument, such as a photo-ionization detector (PID) can be used to help locate volatile chemicals. Instrucciones: Lista de artículos / productos en el edificio o en el garaje adjunto que puedan contener compuestos del sitio. Estos deben ser retirados antes del muestreo. Nombrar el / los productos que emiten volátiles importantes que pueden interferir con el análisis químico. Incluya los productos químicos que pueden ser rastreados en la casa de un ocupante. Este podría ser el uso de químicos en el trabajo o en un taller / garaje adjunto. Un instrumento portátil, tal como un detector de fotoionización (PID) se puede utilizar para ayudar a localizar productos químicos volátiles.

Examples of products that may contain trichloroethene (TCE), such as gun cleaner, rubber cement, solvent degreasers, spot removers, correction fluid, electrical motor cleaner (also be aware that older products are more likely to contain TCE): Ejemplos de productos que pueden contener tricloroetileno (TCE) - limpiador de pistola, cemento de caucho, desengrasantes, disolventes, quitamanchas, líquido corrector, limpiador de motor eléctrico (también tenga en cuenta que los productos de mayor edad tienen más probabilidades de contener TCE):

Examples of significant volatile chemical sources such as gas powered equipment, gasoline storage cans, oil- based paint, paint thinner, nail polish remover, moth balls, perfumes, scented decorative items, insecticides: Ejemplos de fuentes químicas volátiles significativas tales como equipos con motor de gasolina, latas de almacenamiento de gasolina, pintura a base de aceite, sacapinturas, quitaesmalte, bolas de naftalina, perfumes, artículos de decoración perfumadas, insecticidas:

Potential chemical source Fuente Potencial de químico	**Location of Product Source** Lugar de origen del producto	**Photograph, ingredients, PID reading?** Fotografía, ingredientes, lectura del PID?

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES05
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 4: Building Ventilation Systems/ Construcción de sistemas de ventilación

Type(s) of Cooling/Heating Used (Check appropriate boxes)/ Tipo (s) de refrigeración / calefacción utilizados (Marque las casillas apropiadas)

□ Central Forced Air (dueled)/ Aire central forzado (duelo)

□ Natural Gas Furnace/ Horno de Gas Natural

□ Air Conditioner?/ acondicionador de aire

□ Outdoor Air Intake?/ entrada de air exterior

□ Floor Vents on the first floor? / respiraderos del piso en el primer piso

Location of the Furnace/ ubicación de horno _____

Which rooms have air supply/ ¿Qué habitaciones tienen suministro de aire? _____

Location of air returns/ Ubicación de retornos de aire _____

☑ Centrally located wall heater(s) /calentador de pared (es) localizados centralmente

Natural Gas or Electric?/ Gas Natural o eléctrico? gas

Location(s)/ Ubicación (s) living room

□ Centrally located floor heater(s)/ Calentador de piso situado en el centro

Natural Gas or Electric?/ Gas Natural o eléctrico?

Location(s)/ Ubicación (s) _____

□ Electrical Radiators/ Radiadores Eléctricos

Location(s)/ Ubicación (s) _____

□ Water/Steam Radiators/ Radiadores de agua / vapor

Location(s)/ Ubicación (s) _____

□ Radiant Floor Heat/ Calefaccion radiante de suelo

Location(s) Ubicación (s) _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES05
Fecha: _____ Sitio: _____ EPA Residencia #: _____

☐ **Wood Stove(s)/** Horno (s)/Estufa de madera

Location(s) Ubicación (s) _____

☐ **Fireplace/** Chimenea

Location(s)/ Ubicación (s) _____

☐ **Window /Wall Air Conditioning Units/** Unidades de Ventana / Pared De Aire Acondicionado

Location(s)/ Ubicación (s) _____

Are the outdoor air vents opened (if equipped) Se abren los orificios de ventilación de aire exterior (si está equipado) _____

☐ **Other (specify)/** Otro (especificar) _____

Are fans used?/ ¿Se utilizan los Ventiladores/abanicos?

☐ No ☑ Yes

Yes, Ceiling fans/ ventilador del techo ☑ (in bedrooms, there is a fan in the room with the sampler)

Yes, Room Fans Ventiladores de la habitación ☐

Yes, Kitchen Exhaust colorantes de aire de la cocina ☐

Yes, Bathroom Exhaust cuarto de baño escape ☐

Yes, Attic/Whole house Fans ☐

Other (specify)/ Otro (especificar). _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES05

Fecha: _____ Sitio: _____ EPA Residencia #: _____

Additional Notes/ Notas Adicionales:

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: 1/21/16 **Site** SA1A **EPA Residence Location:** [redacted]
Fecha: _____ Sitio: _____ EPA Residencia #: Res 06

Survey Preparer's Name Heather Parker

Affiliation U.S. EPA **Date** 1/21/16

PART 1: General Information

Occupant Information/ *Información del Ocupante*

Address/ Dirección: [redacted]

Occupant Name/ Nombre del Ocupante: Maria Lopez

Interviewed/ Entrevistado: ☑ **Yes** ☐ **No**

Phone/ Teléfono: [redacted] **Email:** _____

Consent Access/ Permiso de Acceso ☑ **Yes** ☐ **No** **Date/** Fecha _____

Owner/Landlord Information *(if applicable)/ Propietario / Información del inquilino (si aplica)*

Name/ Nombre: Same as tenant

Interviewed/ Entrevistado: ☐ **Yes** ☐ **No**

Phone/ Teléfono: _____ **Email:** _____

Building Type *(Check appropriate boxes)/ Tipo de Edificio*

☑ **Single-Family/** Familia Singular ☐ **Duplex** ☐ **Condominium/Townhouse/** Condominio

☐ **Apartment Building/** Apartamento ☐ **Mobile Home/Trailer/** Movil/Remolque

Other/ Otro ☐ _____

How long have you been living in the residence?/ ¿Cuanto tiempo has estado viviendo en la residencia? 50 years

What times of day is building likely to receive ventilation? / ¿A qué tiempos durante el día es más probable que la residencia reciba ventilación? door is kept open for most of day

In general sampling should be biased toward times when the heater is operating and the home is closed.

En general, el muestreo debera hacerse cuando la calefaccion este operando y la casa este cerrada

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES06

Fecha: _____ Sitio: _____ EPA Residencia #: _____

Are the heating / cooling systems routinely operated? / ¿Los sistemas de calefacción / refrigeración operan habitualmente? ☑ Yes ☐ No

If yes, what times of the day and months during the year? / ¿Qué épocas durante el día y en que meses? heater and AC, only used when necessary

Building Characteristics *Características del Edificio*

Year /Decade Built/ Año / Década de construcción: 1910

Number of Stories/ Número de Pisos: 1

Approximate Building Area (square feet)/ área aproximada de construcción (pies cuadrados):

_____ First Floor/ Primer Piso: _____

If there is an attached garage describe its use/ Si hay un garaje pegado a la casa describa su uso:

No

Foundation Type (Check appropriate boxes) Tipo de Cimiento (Marque las casillas apropiadas):

☑ Slab-on-Grade Cimento sin sótano

☐ Crawl Space Semisótano

☐ Sump Pump Bomba de Sumidero

☐ Concrete Cracks Grietas en el concreto

☐ Floor Drains Drenajes en el suelo

Condition of Concrete Floor Condición del piso de concreto _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES 0016
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 2: Factors Impacting Indoor Air Quality/ Factores que impactan la calidad del aire interior

Describe remodeling activities occurred over the last 6 months (what was done, what area, and when)/ Describir las actividades de remodelación que se produjeron durante los últimos 6 meses (lo que se hizo, qué área, y cuando):

None

Does anyone use/ Hace uso cualquiera:

☐ smokes/ fumadores ☐ candles/ velas ☐ incense/ incienso

☐ air freshener/ ambientador ☐ fireplace/chimenea

☐ dry cleaned clothes/fabricas ropa o telas de la"tintorería" o de lavar en seco

Does anyone work with chemicals (such as a painter, or a mechanic) ¿Alguien trabaja con productos químicos (como un mecánico, o pintor)?

NO

Have site chemicals been used or stored in building or adjacent garage (including degreasers, brake fluid cleaners, WD-40, drain cleaner, etc)? /Se han utilizado o almacenado químicos en el edificio o en el garaje adyacente? (incluyendo desengrasante, limpiador de líquido o aceite de los frenos, WD-40, limpiador de desagües, etc)

☐ Yes ☑ No

Please list the chemicals/ Por favor enumera los químicos

Describe any instance of water/groundwater present in the basement/crawlspace (including sumps) Describa cualquier instancia de agua / aguas subterráneas presentes en el sótano o espacio de acceso (incluyendo sumideros):

No

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES06

Fecha: _____ Sitio: _____ EPA Residencia #: _____

Are there conduits for sewer gases to enter the building (dry p-traps, open clean-outs, abandoned hook-ups, poorly installed/sealed/seated plumbing)?/ ¿Hay conductos para que los gases de las alcantarillas entren en el edificio (tapón de estilo-P seco, tubería abierta, conexiones abandonadas, plomería mal instalados / sellado)?: **Describe/** Describa:

No

Observations *Observaciones:*

What is the temperature relative to outside?/ ¿Cuál es la temperatura en relación con el exterior? Colder than outside

What pathways to the subsurface were observed?/ ¿Qué vías hacia el subsuelo se observaron?

None

Are windows and door kept open?/ ¿Las ventanas y puertas se mantienen abiertas?

Door kept open during day

Ventilation system status and condition?/ El estado y condición del sistema de ventilación

Are intake or exhaust fans being used?/ Se utilizan ventiladores de admisión o de escape?

No

Is there evidence of significant negative pressure?/ ¿Hay evidencia de presión negativa significativa?

Do parts of the indoor environment appear stagnant? /¿Existe alguna parte o cuarto de la casa en donde el aire parece estancado (o en donde no corre el viento)?

No

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES06
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Describe any strong odors. / Describiré cualquier olor fuerte

None

Olores fuertes podría indicar posible pobre ventilación a su vez esto podrá interferir con los análisis

Building Occupancy **Ocupación del Edificio**

Number of Occupants/ Número de Ocupantes: 2 Adults/ Adultos: 2

Gender ratio/ Sexo relación: 2 women

General Age ranges/ Rangos Generales de Edades: 75-98

Children/ Niños

Number at Ages/ Número en las Edades: (<2) 0 (2-6) 0 (>7) 0

Other Information (that may be of importance in understanding the indoor air quality in residence) Otra información (que podría ser de importancia para entender la calidad del aire interior en la residencia):

Potential Sampling Locations/ Ubicación posible de muestreo

General notes on potential sample locations and type. / Notas generales sobre los posibles puntos de muestreo y tipo.

Sampler (and duplicate) hung in bedroom on window, outdoor sampler hung on side of house

Tentative sampling date(s) and preferred times. / Fecha tentativa de muestreo (s) y los tiempos preferidos.

DATE/ Dia: _____

Time/ Hora : _____ AM / PM

Pick-up on Thursday, 1/28 at 10:00 AM

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES06
Fecha: _____ Sitio: _____ EPA Residencia #: _____

☐ **Crawlspace Sampling** **Muestreo de Semisótano**

Describe Crawlspace (Access Location, Height, and Vent Locations)/ Describa Semisótano (Ubicación del acceso, Altura, y Ubicaciones de las aperturas):

_____

_____

_____

☐ Dirt Floor/ Piso de Tierra ☐ Sealed/ Sellado ☐ Wet Surfaces/ Superficies Húmedas

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

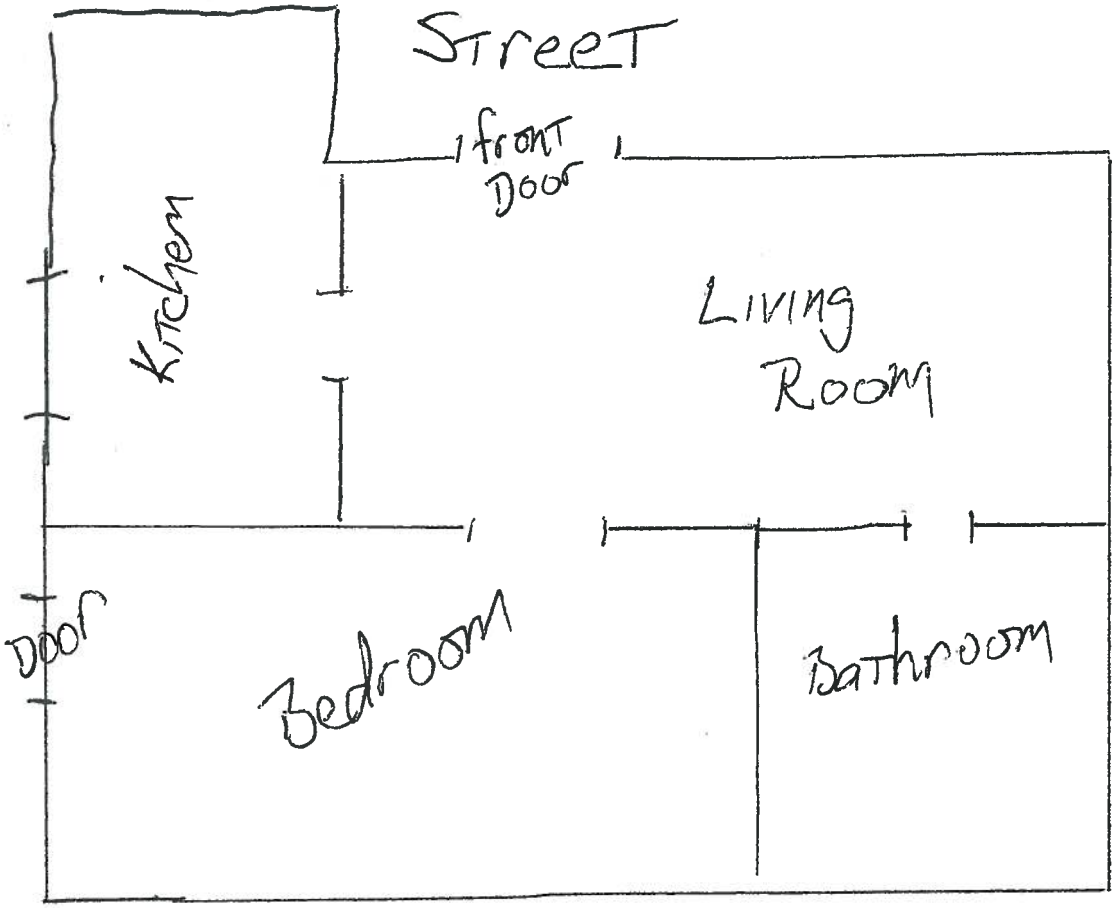
Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: 1-21-16 **Site** RES 06 **EPA Residence Location:** RES06

Fecha: _____ Sitio: _____ EPA Residencia #: _____

On this page, draw the general floor plan of the building and denote potential locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.

En esta página, dibuja el plano general del edificio y marca posibles ubicaciones en donde poner las muestras. Indique la ubicación de las puertas, las ventanas, las fuentes de contaminantes del aire del interior y lecturas de los instrumentos de campo.



Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES06
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 3: Inventory of Potential Indoor Chemical Sources: Inventario de Posibles Fuentes Químicos en el Interior:

Instructions: List items/products in the building or the attached garage that may contain site compounds of concern. These should be removed prior to sampling. List items/products that that give off significant volatiles as these may interfere with chemical analysis. Include chemicals that may be tracked into the house from an occupant. This could be chemical usage at work or in an attached workshop/garage. A portable instrument, such as a photo-ionization detector (PID) can be used to help locate volatile chemicals. Instrucciones: Lista de artículos / productos en el edificio o en el garaje adjunto que puedan contener compuestos del sitio. Estos deben ser retirados antes del muestreo. Nombrar el / los productos que emiten volátiles importantes que pueden interferir con el análisis químico. Incluya los productos químicos que pueden ser rastreados en la casa de un ocupante. Este podría ser el uso de químicos en el trabajo o en un taller / garaje adjunto. Un instrumento portátil, tal como un detector de fotoionización (PID) se puede utilizar para ayudar a localizar productos químicos volátiles.

Examples of products that may contain trichloroethene (TCE), such as gun cleaner, rubber cement, solvent degreasers, spot removers, correction fluid, electrical motor cleaner (also be aware that older products are more likely to contain TCE): Ejemplos de productos que pueden contener tricloroetileno (TCE) - limpiador de pistola, cemento de caucho, desengrasantes, disolventes, quitamanchas, líquido corrector, limpiador de motor eléctrico (también tenga en cuenta que los productos de mayor edad tienen más probabilidades de contener TCE):

Examples of significant volatile chemical sources such as gas powered equipment, gasoline storage cans, oil- based paint, paint thinner, nail polish remover, moth balls, perfumes, scented decorative items, insecticides: Ejemplos de fuentes químicas volátiles significativas tales como equipos con motor de gasolina, latas de almacenamiento de gasolina, pintura a base de aceite, sacapinturas, quitaesmalte, bolas de naftalina, perfumes, artículos de decoración perfumadas, insecticidas:

Potential chemical source Fuente Potencial de químico	**Location of Product Source** Lugar de origen del producto	**Photograph, ingredients, PID reading?** Fotografía, ingredientes, lectura del PID?

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES06
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 4: Building Ventilation Systems/ Construcción de sistemas de ventilación

Type(s) of Cooling/Heating Used (Check appropriate boxes)/ Tipo (s) de refrigeración / calefacción utilizados (Marque las casillas apropiadas)

- ☐ Central Forced Air (dueled)/ Aire central forzado (duelo)
- ☐ Natural Gas Furnace/ Horno de Gas Natural
- ☑ Air Conditioner?/ acondicionador de aire
- ☐ Outdoor Air Intake?/ entrada de air exterior
- ☐ Floor Vents on the first floor? / respiraderos del piso en el primer piso

Location of the Furnace/ ubicación de horno _____

Which rooms have air supply/ ¿Qué habitaciones tienen suministro de aire? _____

Location of air returns/ Ubicación de retornos de aire _____

- ☑ Centrally located wall heater(s) /calentador de pared (es) localizados centralmente

Natural Gas or Electric?/ Gas Natural o eléctrico? gas

Location(s)/ Ubicación (s) L.V.R. room

- ☐ Centrally located floor heater(s)/ Calentador de piso situado en el centro

Natural Gas or Electric?/ Gas Natural o eléctrico?

Location(s)/ Ubicación (s) _____

- ☐ Electrical Radiators/ Radiadores Eléctricos

Location(s)/ Ubicación (s) _____

- ☐ Water/Steam Radiators/ Radiadores de agua / vapor

Location(s)/ Ubicación (s) _____

- ☐ Radiant Floor Heat/ Calefaccion radiante de suelo

Location(s) Ubicación (s) _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES06
Fecha: _____ Sitio: _____ EPA Residencia #: _____

☐ **Wood Stove(s)/** Horno (s)/Estufa de madera

Location(s) Ubicación (s) _____

☐ **Fireplace/** Chimenea

Location(s)/ Ubicación (s) _____

☑ **Window /Wall Air Conditioning Units/** Unidades de Ventana / Pared De Aire Acondicionado

Location(s)/ Ubicación (s) living room

Are the outdoor air vents opened (if equipped) Se abren los orificios de ventilación de aire exterior (si está equipado) _____

☐ **Other (specify)/** Otro (especificar) _____

Are fans used?/ ¿Se utilizan los Ventiladores/abanicos?

☑ **No** ☐ **Yes**

Yes, Ceiling fans/ ventilador del techo ☐

Yes, Room Fans Ventiladores de la habitación ☐

Yes, Kitchen Exhaust colorantes de aire de la cocina ☐

Yes, Bathroom Exhaust cuarto de baño escape ☐

Yes, Attic/Whole house Fans ☐

Other (specify)/ Otro (especificar). _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES06

Fecha: _____ Sitio: _____ EPA Residencia #: _____

Additional Notes/ Notas Adicionales:

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: 1/21/16 **Site** SAIA **EPA Residence Location:** [redacted]
Fecha: _____ Sitio: _____ EPA Residencia #: Res 07

Survey Preparer's Name Heather Parker

Affiliation U.S. EPA Date 1/21/16

PART 1: General Information

Occupant Information/ *Información del Ocupante*

Address/ Dirección: [redacted]

Occupant Name/ Nombre del Ocupante: [redacted]

Interviewed/ Entrevistado: ☐Yes ☐No (we interviewed [redacted])

Phone/ Teléfono: [redacted] Email: _____

Consent Access/ Permiso de Acceso ☑Yes ☐No Date/ Fecha _____

Owner/Landlord Information *(if applicable)/ Propietario / Información del inquilino (si aplica)*

Name/ Nombre: [redacted]

Interviewed/ Entrevistado: ☐Yes ☑No

Phone/ Teléfono: [redacted] Email: _____

Building Type *(Check appropriate boxes)/ Tipo de Edificio*

☑ Single-Family/ Familia Singular ☐ Duplex ☐ Condominium/Townhouse/ Condominio

☐ Apartment Building/ Apartamento ☐ Mobile Home/Trailer/ Movil/Remolque

Other/ Otro ☐ _____

How long have you been living in the residence?/ ¿Cuánto tiempo has estado viviendo en la residencia? 18 years

What times of day is building likely to receive ventilation? / ¿A qué tiempos durante el día es más probable que la residencia reciba ventilación? doors and windows usually kept closed in winter

In general sampling should be biased toward times when the heater is operating and the home is closed.

En general, el muestreo deberá hacerse cuando la calefacción esté operando y la casa esté cerrada

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES07
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Are the heating / cooling systems routinely operated? / ¿Los sistemas de calefacción / refrigeración operan habitualmente? ☑ Yes ☐ No radiators and wall heater used

If yes, what times of the day and months during the year? / ¿Qué épocas durante el día y en que meses? heaters used in winter ~~Yes~~ - usually in evening

Building Characteristics *Características del Edificio*

Year /Decade Built/ Año / Década de construcción: _____

Number of Stories/ Número de Pisos: _____

Approximate Building Area (square feet)/ área aproximada de construcción (pies cuadrados):

_____ First Floor/ Primer Piso: _____

If there is an attached garage describe its use/ Si hay un garaje pegado a la casa describa su uso:

No

Foundation Type (Check appropriate boxes) Tipo de Cimiento (Marque las casillas apropiadas):

☑ Slab-on-Grade Cimento sin sótano

☐ Crawl Space Semisótano

☐ Sump Pump Bomba de Sumidero

☐ Concrete Cracks Grietas en el concreto

☐ Floor Drains Drenajes en el suelo

Condition of Concrete Floor Condición del piso de concreto no cracks in floor

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES07
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 2: Factors Impacting Indoor Air Quality/ Factores que impactan la calidad del aire interior

Describe remodeling activities occurred over the last 6 months (what was done, what area, and when)/ Describir las actividades de remodelación que se produjeron durante los últimos 6 meses (lo que se hizo, qué área, y cuando):

No

Does anyone use/ Hace uso cualquiera:

☐ smokes/ fumadores ☐ candles/ velas ☐ incense/ incienso

☑ air freshener/ ambientador ☐ fireplace/chimenea

☐ dry cleaned clothes/fabricas ropa o telas de la"tintorería" o de lavar en seco

Does anyone work with chemicals (such as a painter, or a mechanic) ¿Alguien trabaja con productos químicos (como un mecánico, o pintor)?

Dad works as a mechanic

Have site chemicals been used or stored in building or adjacent garage (including degreasers, brake fluid cleaners, WD-40, drain cleaner, etc)? /Se han utilizado o almacenado químicos en el edificio o en el garaje adyacente? (incluyendo desengrasante, limpiador de líquido o aceite de los frenos, WD-40, limpiador de desagües, etc)

☑ Yes ☐ No

Please list the chemicals/ Por favor enumera los químicos

degreasers, car brake fluid cleaners → kept under kitchen sink and bathroom sink

Describe any instance of water/groundwater present in the basement/crawlspace (including sumps) Describa cualquier instancia de agua / aguas subterráneas presentes en el sótano o espacio de acceso (incluyendo sumideros):

None

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES07
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Are there conduits for sewer gases to enter the building (dry p-traps, open clean-outs, abandoned hook-ups, poorly installed/sealed/seated plumbing)?/ ¿Hay conductos para que los gases de las alcantarillas entren en el edificio (tapón de estilo-P seco, tubería abierta, conexiones abandonadas, plomería mal instalados / sellado)?: **Describe/** Describa:

No

Observations Observaciones:

What is the temperature relative to outside?/ ¿Cuál es la temperatura en relación con el exterior? usually colder than outside

What pathways to the subsurface were observed?/ ¿Qué vías hacia el subsuelo se observaron?

None

Are windows and door kept open?/ ¿Las ventanas y puertas se mantienen abiertas?

in winter, windows and doors kept closed

Ventilation system status and condition?/ El estado y condición del sistema de ventilación

Are intake or exhaust fans being used?/ Se utilizan ventiladores de admisión o de escape?

have exhaust fan in kitchen, but it doesn't work, also have one in the bathroom that they use

Is there evidence of significant negative pressure?/ ¿Hay evidencia de presión negativa significativa?

Do parts of the indoor environment appear stagnant? / ¿Existe alguna parte o cuarto de la casa en donde el aire parece estancado (o en donde no corre el viento)?

No

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES07
Fecha: _____ Sitio: _____ EPA Residencia #: _____

Describe any strong odors. / Describiré cualquier olor fuerte

None

Olores fuertes podría indicar posible pobre ventilación a su vez esto podrá interferir con los análisis

Building Occupancy **Ocupación del Edificio**

Number of Occupants/ Número de Ocupantes: 4 Adults/ Adultos: 4

Gender ratio/ Sexo relación: 2

General Age ranges/ Rangos Generales de Edades: 20 - 50

Children/ Niños

Number at Ages/ Número en las Edades: (<2) 0 (2-6) 0 (>7) 0

Other Information (that may be of importance in understanding the indoor air quality in residence) Otra información (que podría ser de importancia para entender la calidad del aire interior en la residencia):

None

Potential Sampling Locations/ Ubicación posible de muestreo

General notes on potential sample locations and type. / Notas generales sobre los posibles puntos de muestreo y tipo.

sampler hung in ~~BR~~ during & room on curtains over front window

Tentative sampling date(s) and preferred times. / Fecha tentativa de muestreo (s) y los tiempos preferidos.

DATE/ Dia: _____

Time/ Hora : _____ AM / PM

Pick-up at 9:30 AM on Thursday, 1/28

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES07
Fecha: _____ Sitio: _____ EPA Residencia #: _____

☐ **Crawlspace Sampling** **Muestreo de Semisótano**

Describe Crawlspace (Access Location, Height, and Vent Locations)/ Describa Semisótano (Ubicación del acceso, Altura, y Ubicaciones de las aperturas):

_____

_____

_____

☐ Dirt Floor/ Piso de Tierra ☐ Sealed/ Sellado ☐ Wet Surfaces/ Superficies Húmedas

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: 1-21-16 **Site** RES07 **EPA Residence Location:** RES07

Fecha: _____ Sitio: _____ EPA Residencia #: _____

On this page, draw the general floor plan of the building and denote potential locations of sample collection. Indicate locations of doors, windows, indoor air contaminant sources and field instrument readings.

En esta página, dibuja el plano general del edificio y marca posibles ubicaciones en donde poner las muestras. Indique la ubicación de las puertas, las ventanas, las fuentes de contaminantes del aire del interior y lecturas de los instrumentos de campo.

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES07
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 3: Inventory of Potential Indoor Chemical Sources: Inventario de Posibles Fuentes Químicos en el Interior:

Instructions: List items/products in the building or the attached garage that may contain site compounds of concern. These should be removed prior to sampling. List items/products that that give off significant volatiles as these may interfere with chemical analysis. Include chemicals that may be tracked into the house from an occupant. This could be chemical usage at work or in an attached workshop/garage. A portable instrument, such as a photo-ionization detector (PID) can be used to help locate volatile chemicals. Instrucciones: Lista de artículos / productos en el edificio o en el garaje adjunto que puedan contener compuestos del sitio. Estos deben ser retirados antes del muestreo. Nombrar el / los productos que emiten volátiles importantes que pueden interferir con el análisis químico. Incluya los productos químicos que pueden ser rastreados en la casa de un ocupante. Este podría ser el uso de químicos en el trabajo o en un taller / garaje adjunto. Un instrumento portátil, tal como un detector de fotoionización (PID) se puede utilizar para ayudar a localizar productos químicos volátiles.

Examples of products that may contain trichloroethene (TCE), such as gun cleaner, rubber cement, solvent degreasers, spot removers, correction fluid, electrical motor cleaner (also be aware that older products are more likely to contain TCE): Ejemplos de productos que pueden contener tricloroetileno (TCE) - limpiador de pistola, cemento de caucho, desengrasantes, disolventes, quitamanchas, líquido corrector, limpiador de motor eléctrico (también tenga en cuenta que los productos de mayor edad tienen más probabilidades de contener TCE):

Examples of significant volatile chemical sources such as gas powered equipment, gasoline storage cans, oil- based paint, paint thinner, nail polish remover, moth balls, perfumes, scented decorative items, insecticides: Ejemplos de fuentes químicas volátiles significativas tales como equipos con motor de gasolina, latas de almacenamiento de gasolina, pintura a base de aceite, sacapinturas, quitaesmalte, bolas de naftalina, perfumes, artículos de decoración perfumadas, insecticidas:

Potential chemical source Fuente Potencial de químico	**Location of Product Source** Lugar de origen del producto	**Photograph, ingredients, PID reading?** Fotografía, ingredientes, lectura del PID?

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES07
Fecha: _____ Sitio: _____ EPA Residencia #: _____

PART 4: Building Ventilation Systems/ Construcción de sistemas de ventilación

Type(s) of Cooling/Heating Used (Check appropriate boxes)/ Tipo (s) de refrigeración / calefacción utilizados (Marque las casillas apropiadas)

- ☐ Central Forced Air (dueled)/ Aire central forzado (duelo)
- ☐ Natural Gas Furnace/ Horno de Gas Natural
- ☐ Air Conditioner?/ acondicionador de aire
- ☐ Outdoor Air Intake?/ entrada de air exterior
- ☐ Floor Vents on the first floor? / respiraderos del piso en el primer piso

Location of the Furnace/ ubicación de horno _____

Which rooms have air supply/ ¿Qué habitaciones tienen suministro de aire? _____

Location of air returns/ Ubicación de retornos de aire _____

- ☑ Centrally located wall heater(s) /calentador de pared (es) localizados centralmente

Natural Gas or Electric?/ Gas Natural o eléctrico? gas

Location(s)/ Ubicación (s) one in living room (doesn't work) and one upstairs

- ☐ Centrally located floor heater(s)/ Calentador de piso situado en el centro

Natural Gas or Electric?/ Gas Natural o eléctrico?

Location(s)/ Ubicación (s) _____

- ☑ Electrical Radiators/ Radiadores Eléctricos

Location(s)/ Ubicación (s) in living room

- ☐ Water/Steam Radiators/ Radiadores de agua / vapor

Location(s)/ Ubicación (s) _____

- ☐ Radiant Floor Heat/ Calefaccion radiante de suelo

Location(s) Ubicación (s) _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES07
Fecha: _____ Sitio: _____ EPA Residencia #: _____

□ **Wood Stove(s)/** Horno (s)/Estufa de madera

Location(s) Ubicación (s) _____

☑ **Fireplace/** Chimenea

Location(s)/ Ubicación (s) not used, but located in living room

□ **Window/Wall Air Conditioning Units/** Unidades de Ventana / Pared De Aire Acondicionado

Location(s)/ Ubicación (s) _____

Are the outdoor air vents opened (if equipped) Se abren los orificios de ventilación de aire exterior (si está equipado) _____

□ **Other (specify)/** Otro (especificar) _____

Are fans used?/ ¿Se utilizan los Ventiladores/abanicos?

☑ **No** □ **Yes**

Yes, Ceiling fans/ ventilador del techo □

Yes, Room Fans Ventiladores de la habitación □

Yes, Kitchen Exhaust colorantes de aire de la cocina □

Yes, Bathroom Exhaust cuarto de baño escape □

Yes, Attic/Whole house Fans □

Other (specify)/ Otro (especificar) _____

Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES07

Fecha: _____ Sitio: _____ EPA Residencia #: _____

Additional Notes/ Notas Adicionales:

[redacted]

[redacted]

[redacted]

[redacted]

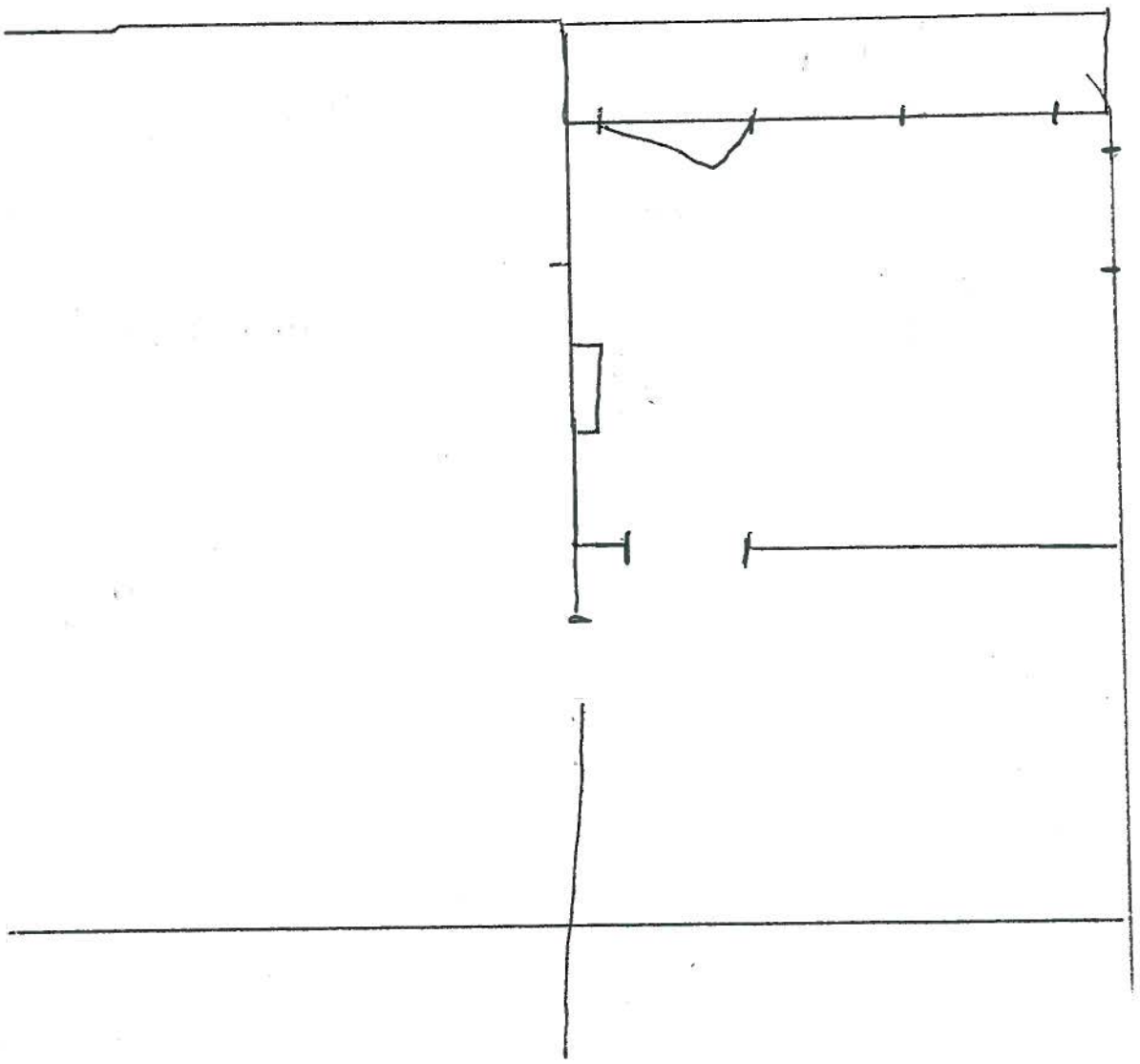
RE 8

Wind s on do per in afternoon

paper bag on wall next to door inside (purple) bedroom off living room

crawl pace cessed th rg gate of lef

6



PART 3: Inventory of Potential Indoor Chemical Sources:

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Residential Indoor Air Quality Survey Form [CONFIDENTIAL DO NOT RELEASE]

Formulario de la Encuesta Residencial Calidad del Aire Interior [CONFIDENCIAL NO COMPARTIR]

Date: _____ **Site** _____ **EPA Residence Location:** RES08

Fecha: _____ Sitio: _____ EPA Residencia #: _____

Additional Notes/ Notas Adicionales:

WELL GAUGING DATA

Project # 140324-411 Date 3/24/14 Client ZTS1

Site ZTS1 @ SAIA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-6C	0838	2					51.31	99.00		
MW-6B	0949	2					51.41	80.62		
MW-6A	1112	2					51.33	68.03		
MW-8	1355	2					55.08	133.63		
MW-5C	0805	2					50.96	106.00		
MW-5A	0935	2					50.90	67.35		
MW-5B	1050	2					51.09	86.30		
MW-45	1240	2					52.94	88.37		
MW-49	0930	2					51.46	69.72		
MW-43	0850	2					54.22	80.61		
MW-44	0950	2					54.48	105.23		
MW-42	1115	2					54.40	66.09		
MW-1C	0720	2					54.69	103.50		
MW-1B	0824	2					54.60	85.00		
MW-1A	0917	2					54.53	64.63	↓	

WELL GAUGING DATA

Project # 140324-1HH1 Date 03/24/14 Client ITSI

Site 5211 Southern Ave, South Gate, CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
SAIA - MW3C	0830	2					52.66	105.49		
SAIA - MW3B	0935	2					52.36	83.46		
SAIA - MW3A	1028	2					52.48	67.94		
MW-46	1115	2					52.66	67.10		
MW-48	1210	2					52.44	107.91		
MW-47	1345	2					52.55	87.81		
SAIA - MW4A	0740	2					51.40	67.76		
SAIA - MW4C	0742	2					51.36	101.24		
SAIA - MW4B	0930	2					51.54	83.69		
MW-52	1100	2					51.84	76.19		
MW-56	0730	2					52.55	72.16		
MW-34	0840	4					53.46	67.10		
MW-35	0945	4					53.80	104.52		
SAIA - MW2C	0725	2					54.60	105.22		
SAIA - MW2B	0835	2					54.44	85.45		
SAIA - MW2A	0930	2					54.45	65.10		
SAIA - MW7	1035	2					59.70	131.90	↓	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140324-HA1	Client: ETS1 Gilbane
Sampler: CR	Gauging Date: 3/27/14
Well I.D.: MW-1A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 64.63	Depth to Water (ft.): 54.53
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: 451 556

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other ___

Start Purge Time: 0922 Flow Rate: 300 ml/m Pump Depth: 62.5

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0928	22.2	7.49	1592	71000	1.11	-315.6	1800	54.82
0931	22.7	7.48	1598	71000	1.10	-299.0	2700	54.83
0934	23.6	7.48	1618	750	0.94	-288.2	3600	54.85
0937	23.9	7.48	1618	521	0.89	-280.2	4500	54.86
0940	24.5	7.48	1618	301	0.86	-276.1	5400	54.86
0943	24.7	7.48	1612	188	0.84	-278.9	6300	54.86
0946	24.9	7.48	1601	128	0.74	-286.6	7200	54.86
0949	25.0	7.48	1600	126	0.72	-294.3	8100	54.87
0952	25.1	7.48	1589	125	0.69	-295.6	9000	54.88

Did well dewater? Yes (No) Amount actually evacuated: 9000 ml

Sampling Time: 0953 Sampling Date: 3/27/14

Sample I.D.: Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140324-H41	Client: ZTSI Gilbane
Sampler: CD	Gauging Date: 3/27/14
Well I.D.: MW-1B	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 85.00	Depth to Water (ft.): 54.60
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 0828 Flow Rate: 500 ml/m Pump Depth: 80

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0834	21.3	7.23	4259	561	0.59	-375.4	3000	54.66
0837	22.1	7.22	4299	154	0.69	-370.3	4500	54.66
0840	22.3	7.22	4306	81	0.69	-361.6	6000	54.67
0843	22.7	7.22	4311	31	0.62	-364.3	7500	54.67
0846	23.0	7.22	4320	20	0.60	-370.2	9000	54.67
0849	23.3	7.22	4326	18	0.54	-374.1	10500	54.67
0852	23.3	7.22	4330	14	0.52	-376.2	12000	54.67
0855	23.2	7.22	4325	13	0.51	-376.9	13500	54.67
0858	23.1	7.22	4326	12	0.50	-380.6	15000	54.67
0901	23.2	7.22	4322	12	0.48	-382.6	16500	54.67

Did well dewater? Yes (No) Amount actually evacuated: 16500 mL

Sampling Time: 0902 Sampling Date: 3/27/14

Sample I.D.: Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140324-6111	Client: CTSI
Sampler: CP	Gauging Date: 3/27/14
Well I.D.: MW-1C	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 103.50	Depth to Water (ft.): 54.69
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 0727 Flow Rate: 500 ml/m Pump Depth: 99.5

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0734	20.1	7.26	5646	267	1.57	-322.5	3500	54.73
0737	20.3	7.25	5654	167	1.42	-303.6	5000	54.74
0740	20.8	7.24	5676	112	1.28	-324.3	6500	54.74
0743	21.9	7.24	5699	71	1.06	-329.9	8000	54.74
0746	22.3	7.24	5721	34	0.90	-329.9	9500	54.75
0749	22.4	7.24	5719	26	0.84	-341.1	11000	54.75
0752	22.4	7.24	5725	21	0.77	-345.1	12500	54.75
0755	22.3	7.24	5724	15	0.70	-359.9	14000	54.75
0758	22.3	7.23	5725	14	0.62	-363.7	15500	54.75
0801	22.3	7.23	5722	13	0.61	-362.2	17000	54.75
0804	22.4	7.23	5724	13	0.58	-359.1	18500	54.75

Did well dewater? Yes (No) Amount actually evacuated: 18500 ml

Sampling Time: 0805 Sampling Date: 3/27/14

Sample I.D.: Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140324-HH1	Client: ITSI
Sampler: HH	Gauging Date: 03/27/14
Well I.D.: SAIA-MW2A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 65.10	Depth to Water (ft.): 54.45
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos (Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing (circled) Other ___

Start Purge Time: 0934 Flow Rate: 300ml/min Pump Depth: 62.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0937	21.09	7.36	1549	>1000	1.80	60.7	900	54.53
0940	22.29	7.34	1533	531	1.16	35.1	1800	54.56
0943	23.38	7.35	1529	196	1.63	-9.6	2700	54.57
0946	23.83	7.36	1527	39	1.90	-10.4	3600	54.57
0949	23.99	7.37	1523	20	1.97	-11.3	4500	54.57
0952	23.91	7.36	1521	10	1.99	-12.6	5400	54.57
0955	23.82	7.36	1519	5	1.89	-17.5	6300	54.57
0958	23.76	7.33	1523	4	1.84	-19.7	7200	54.57
1001	23.72	7.31	1525	4	1.81	-23.5	8100	54.57

Did well dewater? Yes (No) Amount actually evacuated: 8100ml

Sampling Time: 1002 Sampling Date: 03/27/14

Sample I.D.: SAIA-MW2A Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See C.O.C

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140324-HH1	Client: ITSI
Sampler: HH	Gauging Date: 03/27/14
Well I.D.: SAIA-MW2B	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 85.45	Depth to Water (ft.): 54.44
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" (Grundfos) Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | (New Tubing) | Other ___

Start Purge Time: 0840 Flow Rate: 300ml/min Pump Depth: 81'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
0843	20.23	7.30	3384	81	1.83	-24.4	900	54.52
0846	20.69	7.17	3415	60	1.10	-22.4	1800	54.54
0849	22.12	7.24	3596	31	0.87	-1.2	2700	54.55
0852	22.39	7.27	3630	17	0.80	-8.9	3600	54.55
0855	22.47	7.26	3645	10	0.71	-9.3	4500	54.55
0858	22.42	7.24	3671	8	0.70	-11.9	5400	54.55
0901	22.56	7.26	3659	4	0.68	-9.3	6300	54.55
0904	22.69	7.26	3650	4	0.63	-11.4	7200	54.55
0907	22.68	7.25	3648	3	0.61	-13.5	8100	54.55

Did well dewater? Yes (No) Amount actually evacuated: 8100ml

Sampling Time: 0908 Sampling Date: 03/27/14

Sample I.D.: SAIA-MW2B Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D (Other) See C.O.C

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140324-HH1	Client: TSI
Sampler: HH	Gauging Date: 03/27/14
Well I.D.: SAIA-MW2C	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 105.22	Depth to Water (ft.): 54.60
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump

Sampling Method: Dedicated Tubing | (New Tubing) | Other ___

Start Purge Time: 0730 Flow Rate: 300 ml/min Pump Depth: 101'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0733	20.18	7.16	5077	591	1.59	-38.7	900	54.72
0736	20.42	7.17	5130	401	1.31	-34.9	1800	54.74
0739	21.39	7.20	5269	49	1.13	-38.3	2700	54.75
0742	21.77	7.21	5304	31	1.11	-41.5	3600	54.75
0745	21.72	7.21	5296	9	1.02	-13.6	4500	54.75
0748	21.85	7.21	5294	7	0.99	-14.1	5400	54.75
0751	21.94	7.22	5311	4	0.96	-16.2	6300	54.75
0754	21.91	7.22	5314	4	0.94	-18.3	7200	54.75
0757	21.92	7.21	5310	4	0.91	-19.7	8100	54.75

Did well dewater? Yes (No) Amount actually evacuated: 8100 ml

Sampling Time: 0758 Sampling Date: 03/27/14

Sample I.D.: SAIA-MW2C Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D (Other: See C.O.C)

Equipment Blank I.D.: @ Time Duplicate I.D.:

*MS/MSD

LOW FLOW WELL MONITORING DATA SHEET

Project #: 190324-HH1	Client: ~~SA~~ HHE ITSI
Sampler: HH	Gauging Date: 03/24/14
Well I.D.: SAIA-MW3A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 67.94	Depth to Water (ft.): 52.48
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" (Grundfos) Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New (Tubing) Other ___

Start Purge Time: 1030 Flow Rate: 300ml/min Pump Depth: 63'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (µS/cm))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
1033	22.39	7.20	2096	>1000	1.10	-74.9	900	52.59
1036	23.33	7.21	2111	361	0.77	-76.4	1800	52.61
1039	23.37	7.21	2113	324	0.75	-79.2	2700	52.62
1042	23.48	7.21	2108	369	0.69	-86.8	3600	52.62
1045	23.56	7.21	2106	363	0.68	-79.1	4500	52.62
1048	23.60	7.21	2104	361	0.69	-70.4	5400	52.62
1051	23.65	7.21	2105	359	0.67	-71.5	6300	52.62

Did well dewater? Yes (No) Amount actually evacuated: 6300ml

Sampling Time: 1052 Sampling Date: 03/24/14

Sample I.D.: SAIA-MW3A Laboratory: HH ~~TA~~ KAP

Analyzed for: TPH-G BTEX MTBE TPH-D (Other: See C.O.C)

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140324-HH1	Client: ITSI
Sampler: HH	Gauging Date: 03/24/14
Well I.D.: HH SAIA-MW3B ~~SAIA-MW03B~~	Well Diameter (in.): (2) 3 (4) HH 6 8 ___
Total Well Depth (ft.): 83.46	Depth to Water (ft.): 52.36
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" ~~Grundfos~~ Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 0940 | Flow Rate: 300 ml/min | Pump Depth: 81.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0943	21.13	7.31	1594	>1000	1.67	-100.5	900	52.44
0946	21.94	7.32	1570	211	0.76	-88.4	1800	52.48
0949	22.39	7.32	1567	109	0.74	-88.9	2700	52.49
0952	22.69	7.33	1562	73	0.72	-91.3	3600	52.49
0955	23.20	7.33	1564	20	0.70	-90.2	4500	52.49
0958	23.19	7.33	1563	9	0.70	-90.1	5400	52.49
1001	23.18	7.33	1564	4	0.70	-83.4	6300	52.49
1004	23.19	7.33	1562	4	0.67	-86.2	7200	52.49
1007	23.21	7.33	1561	3	0.66	-88.5	8100	52.49

Did well dewater? Yes (No) | Amount actually evacuated: 8100 ml

Sampling Time: 1008 | Sampling Date: 03/24/14

Sample I.D.: HH SAIA-MW3B ~~SAIA-MW03B~~ | Laboratory: ~~T.A~~ HH KAP

Analyzed for: TPH-G BTEX MTBE TPH-D | Other: See C.O.C

Equipment Blank I.D.: @ Time | Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140324-HH1	Client: ITSI
Sampler: HH	Gauging Date: 03/24/14
Well I.D.: HH SAIA-MW3C ~~SAIA-MW03C~~	Well Diameter (in.): (2) 3 (4) HH 6 8 ___
Total Well Depth (ft.): 105.49	Depth to Water (ft.): 52.66
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" (Grundfos) Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | (New Tubing) | Other ___

Start Purge Time: 0834 Flow Rate: 200ml/min Pump Depth: 101'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0837	21.07	7.20	3646	94	1.19	-88.2	600	52.78
0840	21.24	7.20	3661	90	1.13	-89.9	1200	52.79
0843	21.96	7.21	3966	82	0.94	-93.2	1800	52.81
0846	22.04	7.21	3993	78	0.91	-95.3	2400	52.82
0849	22.39	7.21	4103	73	0.87	-87.2	3000	52.82
0852	22.53	7.21	4133	70	0.84	-87.1	3600	52.82
0855	22.49	7.21	4161	31	0.79	-88.3	4200	52.82
0858	22.48	7.21	4170	30	0.78	-89.4	4800	52.82
0901	22.49	7.21	4173	30	0.78	-87.3	5400	52.82

Did well dewater? Yes (No) Amount actually evacuated: 5400ml

Sampling Time: 0902 Sampling Date: 03/24/14

Sample I.D.: HH SAIA-MW3C ~~SAIA-MW03C~~ Laboratory: ~~T.A.~~ HH KAP

Analyzed for: TPH-G BTEX MTBE TPH-D (Other) See C.O.C

Equipment Blank I.D.: @ Time Duplicate I.D.: SAIA-MW93C @0907

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140324-HA1	Client: ITSI
Sampler: HH	Gauging Date: 03/25/14
Well I.D.: SAIA-MW4A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 67.76	Depth to Water (ft.): 51.40
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI556

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump

Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 0750 Flow Rate: 300ml/min Pump Depth: 62.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0753	21.55	7.25	2161	>1000	2.91	-33.2	900	51.53
0756	21.92	7.26	2175	610	1.36	-38.3	1800	51.54
0759	22.32	7.26	2182	402	1.04	-34.2	2700	51.54
0802	22.23	7.26	2181	369	0.95	-32.4	3600	51.54
0805	22.08	7.24	2183	131	0.91	-27.5	4500	51.54
0808	22.07	7.25	2182	95	0.90	-29.1	5400	51.54
0811	22.13	7.23	2176	41	0.87	-31.4	6300	51.54
0814	22.24	7.24	2177	36	0.84	-30.9	7200	51.54
0817	22.44	7.25	2178	35	0.82	-30.4	8100	51.54
0820	22.46	7.23	2181	34	0.80	-28.6	9000	51.54

Did well dewater? Yes (No) Amount actually evacuated: 9000ml

Sampling Time: 0821 Sampling Date: 03/25/14

Sample I.D.: SAIA-MW4A Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D (Other) See C.o.C

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140324-HH1	Client: ITSI
Sampler: HH	Gauging Date: 03/25/14
Well I.D.: SAIA-MW4B	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 83.69	Depth to Water (ft.): 51.54
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ____

Start Purge Time: 0936 Flow Rate: 300ml/min Pump Depth: 79'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0939	20.45	7.40	1715	88	0.81	-19.2	900	51.61
0942	21.69	7.31	1860	122	0.77	-5.3	1800	51.62
0945	22.04	7.29	1876	120	0.75	-4.5	2700	51.62
0948	22.24	7.24	1884	182	0.73	-4.9	3600	51.62
0951	22.44	7.22	1877	199	0.71	-5.9	4500	51.62
0954	22.45	7.21	1879	204	0.70	-6.3	5400	51.62
0957	22.53	7.21	1861	138	0.69	-17.4	6300	51.62
1000	22.57	7.19	1846	54	0.66	-13.2	7200	51.62
1003	22.61	7.17	1845	56	0.65	-14.1	8100	51.62
1006	22.62	7.14	1843	53	0.63	-19.0	9000	51.62
1009	22.59	7.12	1840	52	0.62	-16.9	9900	51.62

Did well dewater? Yes (No) Amount actually evacuated: 9900ml

Sampling Time: 1010 Sampling Date: 03/25/14

Sample I.D.: SAIA-MW4B Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D Other: (See C.O.C)

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140324-HH1	Client: ITSI
Sampler: HH	Gauging Date: 03/25/14
Well I.D.: SAIA-MW4C	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 101.24	Depth to Water (ft.): 51.36
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI556

Purge Method: 2" (Grundfos) Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | (New Tubing) | Other ___

Start Purge Time: 0842 Flow Rate: 300ml/min Pump Depth: 97'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0845	20.64	7.14	2928	>1000	1.09	-16.9	900	51.44
0848	21.28	7.11	3133	234	0.92	-24.1	1800	51.46
0851	21.51	7.08	3314	142	0.85	-10.8	2700	51.46
0854	21.73	7.05	3356	130	0.82	-14.7	3600	51.46
0857	21.61	7.03	3384	77	0.79	-22.1	4500	51.46
0900	21.74	7.02	3407	72	0.75	-18.5	5400	51.46
0903	21.80	7.02	3411	69	0.73	-17.4	6300	51.46
0906	21.78	7.03	3422	51	0.73	-14.1	7200	51.46
0909	21.77	7.03	3427	49	0.71	-16.9	8100	51.46
0912	21.79	7.03	3430	48	0.72	-17.9	9000	51.46

Did well dewater? Yes (No) Amount actually evacuated: 9000ml

Sampling Time: 0913 Sampling Date: 03/25/14

Sample I.D.: SAIA-MW4C Laboratory: CAP

Analyzed for: TPH-G BTEX MTBE TPH-D (Other:)

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140024-HH1	Client: TSI
Sampler: CR	Gauging Date: 3/25/14
Well I.D.: MW-5A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 67.35	Depth to Water (ft.): 50.90
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ___

Start Purge Time: 0940 Flow Rate: 500 Pump Depth: 63

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
0945	20.6	7.19	3442	>1000	1.68	-273.1	2500	50.94
0948	21.6	7.19	3470	>1000	1.23	-275.6	4000	50.96
0951	22.9	7.20	3479	>1000	1.16	-278.2	5500	50.97
0954	23.4	7.20	3524	>1000	0.81	-286.9	7000	50.97
0957	23.4	7.20	3528	760	0.79	-285.0	8500	50.97
1000	23.7	7.20	3580	531	0.72	-279.2	10000	50.97
1003	23.8	7.20	3596	380	0.69	-299.3	11500	50.97
1006	23.7	7.20	3623	360	0.68	-291.8	13000	50.97
1009	23.7	7.21	3645	277	0.66	-295.8	14500	50.97
1012	23.91	7.21	3665	192	0.62	-297.1	16000	50.97
1015	24.0	7.21	3678	117	0.60	-298.1	17500	50.97
1018	24.1	7.21	3683	119	0.57	-296.2	19000	50.97

Did well dewater? Yes (No) Amount actually evacuated: 20500 mL

Sampling Time: 1022 Sampling Date: 3/25/14

Sample I.D.: Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET Pg 2 of 2

Project #:	Client:
Sampler: CR	Gauging Date:
Well I.D.: MW-6A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.):	Depth to Water (ft.):
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other_____

Start Purge Time:_____ Flow Rate: 500 ml/m Pump Depth:_____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1021	24.1	7.21	3686	116	0.57	-291.4	20500	50.97

Did well dewater? Yes No Amount actually evacuated:

Sampling Time: Sampling Date:

Sample I.D.: Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140324-HH1	Client: ETSI
Sampler: CD	Gauging Date: 3/25/14
Well I.D.: MW-5B	Well Diameter (in.): 2 3 4 6 8 ___
Total Well Depth (ft.): 86.30	Depth to Water (ft.): 51.09
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 1053 Flow Rate: 500 ml/m Pump Depth: 81

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1059	20.6	7.30	3217	767	1.21	-265.2	3000	51.13
1102	21.2	7.31	3196	468	1.08	-275.0	4500	51.16
1105	21.7	7.31	3215	309	0.92	-284.1	6000	51.17
1108	22.2	7.31	3266	245	0.84	-292.6	7500	51.17
1111	22.5	7.31	3291	181	0.73	-295.2	9000	51.18
1114	22.5	7.31	3294	147	0.71	-295.4	10500	51.18
1117	22.6	7.31	3296	151	0.68	-320.1	12000	51.18
1120	22.5	7.31	3310	150	0.66	-289.1	13500	51.18
1123	22.5	7.30	3304	110	0.66	-293.6	15000	51.18
1126	22.9	7.30	3314	106	0.65	-298.2	16500	51.18
1129	23.2	7.31	3310	104	0.60	-299.4	18000	51.18

Did well dewater? Yes No Amount actually evacuated: 18000 ml

Sampling Time: 1130 Sampling Date: 3/25/14

Sample I.D.: Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140324-1441	Client: ZTSI
Sampler: CR	Gauging Date: 3/25/14
Well I.D.: MW-5C	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 106.00	Depth to Water (ft.): 50.96
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ___

Start Purge Time: 0810 Flow Rate: 500 ml/n Pump Depth: 101

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0817	19.9	7.22	4545	>1000	3.08	-185.9	3500	51.02
0820	20.3	7.23	4287	>1000	2.25	-211.4	5000	51.03
0823	20.6	7.23	4251	>1000	1.72	-222.6	6500	51.03
0826	21.3	7.20	4290	817	1.44	-242.3	8000	51.03
0829	21.6	7.23	4325	414	1.30	-255.7	9500	51.03
0832	21.8	7.22	4364	192	1.20	-247.6	11000	51.04
0835	21.9	7.22	4385	113	1.12	-252.5	12500	51.04
0838	22.0	7.22	4410	52	1.02	-256.1	14000	51.04
0841	22.0	7.22	4414	38	0.95	-256.3	15500	51.04
0844	22.0	7.22	4414	34	0.92	-266.7	17000	51.04
0847	22.0	7.22	4414	32	0.87	-260.1	18500	51.04
0850	22.0	7.22	4413	33	0.84	-267.1	20000	51.04

Did well dewater? Yes (No) Amount actually evacuated: 20000

Sampling Time: 0851 Sampling Date: 3/25/14

Sample I.D.: Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140329-HM1	Client: ISI Gilroy
Sampler: CR	Gauging Date: 3/29/17
Well I.D.: MW-6A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 68.03	Depth to Water (ft.): 51.33
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ___

Start Purge Time: 1116 Flow Rate: 500 ml/m Pump Depth: 63

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1120	23.0	7.83	1468	>1000	0.91	-167.8	2000	51.55
1123	23.7	7.83	1474	>1000	0.94	-135.7	3500	51.55
1126	24.1	7.83	1475	>1000	0.93	-135.9	5000	51.56
1129	24.7	7.83	1479	>1000	0.90	-138.1	6500	51.56
1132	25.1	7.83	1483	>1000	0.83	-140.0	8000	51.56
1135	25.2	7.83	1484	>1000	0.80	-38.1	9500	51.57
1138	25.5	7.82	1486	>1000	0.76	-134.6	11000	51.57
1141	25.5	7.82	1486	>1000	0.76	-134.0	12500	51.57
1144	25.3	7.82	1487	>1000	0.74	-131.3	14000	51.57
1147	25.2	7.82	1486	>1000	0.79	-128.5	~~16500~~ 15500 a	51.58
1150	25.1	7.82	1482	>1000	0.76	-127.0	~~18000~~ 17000 a	51.58
1153	25.1	7.82	1480	>1000	0.74	-126.9	19500	51.58

Did well dewater? Yes (No) Amount actually evacuated:

Sampling Time: 1227 Sampling Date:

Sample I.D.: Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET 2.P2

Project #: 140324-HH1	Client: ITSI
Sampler: CP	Gauging Date: 3/24/14
Well I.D.: MW-6A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.):	Depth to Water (ft.):
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: 981 556

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other ___

Start Purge Time: ___ Flow Rate: 500 Pump Depth: ___

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to Water (ft.)
1156	25.2	7.82	1478	>1000	0.75	-118.2	21000	51.58
1159	25.5	7.82	1479	>1000	0.76	-116.9	22500	51.58
1202	25.7	7.82	1479	1000	0.75	-116.2	24000	51.58
1205	25.8	7.82	1479	906	0.77	-114.9	25500	51.58
1208	25.9	7.82	1477	701	0.73	-112.0	27000	51.58
1211	26.0	7.82	1477	565	0.72	-112.4	28500	51.58
1214	26.4	7.81	1477	465	0.70	-111.6	30000	51.58
1217	26.5	7.81	1478	419	0.69	-110.7	31500	51.58
1220	26.7	7.81	1478	305	0.70	-112.9	33000	51.58
1223	26.9	7.81	1479	303	0.68	-111.6	34500	51.58
1226	27.0	7.81	1479	295	0.66	-111.0	36000	51.58

Did well dewater? Yes (No) Amount actually evacuated: 36000 ml
Sampling Time: 1227 Sampling Date: 3/24/14
Sample I.D.: Laboratory:
Analyzed for: TPH-G BTEX MTBE TPH-D Other:
Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 1424 - 140324-HA11	Client: ITSI Golden Gate
Sampler: CR	Gauging Date: 3/24/14
Well I.D.: MW-6B	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 80.62	Depth to Water (ft.): 51.14
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other ___

Start Purge Time: 0953 Flow Rate: 500 ml/n Pump Depth: 78.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0958	21.0	7.34	5350	792	1.69	-174.8	2500	51.50
1001	21.9	7.33	5764	310	1.58	-184.3	4000	51.52
1004	22.6	7.32	5812	191	1.51	-194.2	5500	51.52
1007	22.8	7.32	5813	141	1.47	-200.7	7000	51.52
1010	23.2	7.32	5794	59	1.43	-211.1	8500	51.52
1013	23.3	7.31	5775	66	1.43	-213.9	10000	51.52
1016	23.4	7.31	5742	48	1.38	-216.4	11500	51.52
1019	23.5	7.31	5698	33	1.28	-219.4	13000	51.52
1022	23.6	7.31	5658	28	1.20	-221.8	14500	51.52
1025	23.7	7.31	5595	23	1.10	-223.5	16000	51.52
1028	23.7	7.31	5576	19	1.07	-223.4	17500	51.52
1031	23.7	7.31	5543	16	1.00	-223.4	19000	51.52

Did well dewater? Yes (No) Amount actually evacuated: 25000 ml

Sampling Time: 1044 Sampling Date: 3/24/14

Sample I.D.: Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #:	Client:
Sampler:	Gauging Date:
Well I.D.: MW-6B	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.):	Depth to Water (ft.):
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ____

Start Purge Time: ____ Flow Rate: 500 ml/m Pump Depth: ____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1034	23.7	7.31	5523	14	0.99	-223.7	20500	51.52
1037	~~23.8~~ 23.8	7.31	5508	12	0.96	-224.0	22000	51.52
1040	23.8	7.31	5482	13	0.95	-223.8	23500	51.52
1043	23.9	7.31	5480	12	0.93	-223.6	25000	51.52

Did well dewater? Yes (No) Amount actually evacuated:

Sampling Time: 1044 Sampling Date:

Sample I.D.: Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140324 -- HH	Client: ETSI Gilbane
Sampler: CR	Gauging Date: 3/24/14
Well I.D.: MW-6C	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 99.00	Depth to Water (ft.): 51.31
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ___

Start Purge Time: 0843 Flow Rate: 500 ml/a Pump Depth: 95'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
0848	20.7	7.25	4668	644	2.59	-205.7	2500	51.50
0851	20.8	7.25	4696	476	2.59	-199.7	4000	51.53
0854	21.0	7.26	4714	248	2.47	-189.8	5500	51.54
0857	21.5	7.25	4736	195	2.43	-179.7	7000	51.54
0900	22.0	7.25	4771	148	2.22	-171.0	8500	51.54
0903	22.2	7.26	4771	100	2.20	-168.2	10000	51.54
0906	22.2	7.26	4776	61	2.08	-169.6	11500	51.54
0909	22.3	7.26	4777	44	1.93	-166.9	13000	51.54
0912	22.3	7.26	4776	45	1.89	-164.1	14500	51.55
0915	22.4	7.26	4776	41	1.76	-160.8	16000	51.55
0918	22.3	7.26	4780	43	1.70	-159.3	17500	51.55
~~09~~								

Did well dewater? Yes (No) Amount actually evacuated: 17500 ml

Sampling Time: 0919 Sampling Date: 3/24/14

Sample I.D.: Laboratory: TA

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET pg 1 of 2

Project #: 140324-HH1	Client: ITSI
Sampler: HH	Gauging Date: 03/27/14
Well I.D.: SAIA-MW7	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 131.90	Depth to Water (ft.): 59.70
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" (Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other ____

Start Purge Time: 1040 Flow Rate: 300 ml/min Pump Depth: 127'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1043	20.67	7.20	5158	71000	0.94	-57.4	900	59.83
1046	21.24	7.18	5189	731	0.73	-70.4	1800	59.86
1049	21.69	7.19	5199	480	0.65	-86.7	2700	59.87
1052	21.62	7.17	5204	204	0.60	-92.8	3600	59.87
1055	21.74	7.18	5204	180	0.54	-97.8	4500	59.87
1058	21.80	7.18	5203	150	0.51	-100.6	5400	59.87
1101	21.86	7.18	5203	139	0.49	-103.7	6300	59.87
1104	21.85	7.18	5201	130	0.47	-111.7	7200	59.87
1107	21.83	7.17	5198	121	0.45	-114.1	8100	59.87
1110	21.96	7.18	5200	115	0.44	-115.9	9000	59.87
1113	21.91	7.18	5207	60	0.44	-115.3	9900	59.87
1116	21.96	7.18	5205	52	0.42	-18.4	10800	59.87

Did well dewater? Yes (No) Amount actually evacuated: 16200ml

Sampling Time: 1135 Sampling Date: 03/27/14

Sample I.D.: SAIA-MW7 Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D Other: Joe C.O.C

Equipment Blank I.D.: @ Time Duplicate I.D.: SAIA-MW97 @ 1140

LOW FLOW WELL MONITORING DATA SHEET Pg 2 of 2

Project #: 140324-HH1	Client: ITSI
Sampler: HH	Gauging Date: 03/27/14
Well I.D.: SAIA-MW7	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 131.90	Depth to Water (ft.): 59.70
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" (Grundfos) Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ___

Start Purge Time: 1040 Flow Rate: 300 ml/min Pump Depth: 127'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1119	21.95	7.18	5204	44	0.42	-122.3	11700	59.87
1122	22.01	7.18	5204	24	0.39	-127.0	12600	59.87
1125	22.06	7.18	5198	19	0.39	-129.1	13500	59.87
1128	22.14	7.18	5200	22	0.38	-131.4	14400	59.87
1131	22.12	7.18	5201	21	0.36	-134.7	15300	59.87
1134	22.09	7.17	5201	21	0.35	-136.9	16200	59.87

Did well dewater? Yes (No) Amount actually evacuated: 16200ml

Sampling Time: 1135 Sampling Date: 03/27/14

Sample I.D.: SAIA-MW7 Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D (Other): See C.O.C

Equipment Blank I.D.: @ Time Duplicate I.D.: SAIA-MW97 (@) 1140

LOW FLOW WELL MONITORING DATA SHEET

Project #: ~~3~~ 140824-[illegible]	Client: ITSI Gilbarc
Sampler: CR	Gauging Date: 3/24/14
Well I.D.: MW-8	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 133.63	Depth to Water (ft.): 55.08
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New (Tubing) Other ___

Start Purge Time: 1400 Flow Rate: 500 ml/n Pump Depth: 130

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1410	20.9	7.38	2735	13	1.71	-108.9	5000	55.15
1413	21.0	7.38	2766	10	1.69	-103.2	6500	55.16
1416	21.1	7.38	2771	10	1.69	-103.6	8000	55.16
1419	21.3	7.38	2776	9	1.62	-102.9	9500	55.16

Did well dewater? Yes (No) Amount actually evacuated: 9500 ml

Sampling Time: 1420 Sampling Date: 3/24/14

Sample I.D.: Laboratory: BAP

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140324-HH1	Client: ITSI
Sampler: HH	Gauging Date: 03/26/14
Well I.D.: MW-34	Well Diameter (in.): 2 3 (4) 6 8 ___
Total Well Depth (ft.): 67.10	Depth to Water (ft.): 53.46
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" (Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 0844 Flow Rate: 300 ml/min Pump Depth: 63'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (µS/cm))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0847	20.60	7.21	2198	8	2.25	85.5	900	53.55
0850	21.99	7.23	2210	4	1.35	78.1	1800	53.58
0853	22.49	7.25	2201	4	1.17	75.4	2700	53.59
0856	22.54	7.26	2203	4	1.11	65.3	3600	53.59
0859	22.57	7.24	2211	3	0.90	69.1	4500	53.59
0902	22.60	7.23	2209	3	0.89	69.0	5400	53.59
0905	22.78	7.25	2215	4	0.85	71.5	6300	53.59

Did well dewater? Yes (No) Amount actually evacuated: 6300ml

Sampling Time: 0906 Sampling Date: 03/26/14

Sample I.D.: MW-34 Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D (Other): See C.o.C

Equipment Blank I.D.: @ Time Duplicate I.D.: MW-934 @ 0911

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140324-HH1	Client: ETSI
Sampler: HH	Gauging Date: 03/26/14
Well I.D.: MW-35	Well Diameter (in.): 2 3 (4) 6 8 ___
Total Well Depth (ft.): 104.52	Depth to Water (ft.): 53.80
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI556

Purge Method: 2" (Grundfos) Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 0950 Flow Rate: 300ml/min Pump Depth: 100'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0953	20.44	7.49	3853	4	3.01	-12.1	900	53.92
0956	21.43	7.43	3906	3	0.91	-35.3	1800	53.94
0959	21.94	7.41	3915	3	0.84	-39.6	2700	53.94
1002	22.04	7.40	3996	3	0.80	-42.9	3600	53.94
1005	22.19	7.38	4055	3	0.74	-45.1	4500	53.94
1008	22.37	7.19	5543	3	0.67	-47.7	5400	53.94
1011	22.20	7.17	5581	3	0.65	-49.2	6300	53.94
1014	22.14	7.15	5601	3	0.63	-50.1	7200	53.94

Did well dewater? Yes (No) Amount actually evacuated: 7200ml

Sampling Time: 1015 Sampling Date: 03/26/14

Sample I.D.: MW-35 Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See C, G, C

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140324-HH1	Client: ZTSI
Sampler: CR	Gauging Date: 3/26/14
Well I.D.: MW-42	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 66.09	Depth to Water (ft.): 54.40
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: (Dedicated Tubing) ~~New Tubing~~ Other ___

Start Purge Time: 1120 Flow Rate: 500 ml/m Pump Depth: 61'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1124	23.1	7.29	1939	>1000	1.70	-258.1	2000.	54.48
1127	23.4	7.29	1935	>1000	1.52	-264.1	3500	54.48
1130	24.5	7.30	1927	>1000	1.29	-265.2	5000	54.49
1133	24.6	7.30	1929	>1000	1.23	-264.8	6500	54.49
1136	25.4	7.30	1927	>1000	1.15	-266.1	8000	54.50
1139	25.6	7.29	1928	925	1.04	-268.8	9500	54.50
1142	25.8	7.29	1923	562	0.97	-269.0	11000	54.50
1145	25.9	7.29	1922	414	0.89	-268.4	12500	54.50
1148	26.2	7.29	1925	359	0.87	-270.2	14000	54.50
1151	26.1	7.29	1925	343	0.81	-276.2	15500 ~~DRY~~	54.50
1154	26.2	7.29	1926	340	0.79	-278.3	~~15~~ 17000	54.51

Did well dewater? Yes (No) Amount actually evacuated: 17000 ml

Sampling Time: 1155 Sampling Date: 3/26/14

Sample I.D.: Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140324-HH1	Client: ZTSI
Sampler: CR	Gauging Date: 3/26/14
Well I.D.: MW-43	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 86.61	Depth to Water (ft.): 54.72
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: 757556

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other____

Start Purge Time: 0855 Flow Rate: 500 ml/m Pump Depth: 82

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0901	20.8	7.22	4852	320	1.38	-290.2	3000	54.25
0904	20.6	7.22	4860	298	1.43	-285.6	4500	54.27
0907	20.5	7.22	4862	271	1.40	-278.6	6000	54.27
0910	20.6	7.21	4870	239	1.35	-254.5	7500	54.27
0913	20.6	7.21	4900	200	1.35	-280.2	9000	54.27
0916	20.6	7.21	4919	189	1.37	-275.6	10500	54.28
0919	20.9	7.21	4916	156	1.13	-277.2	12000	54.28
0922	22.2	7.20	5339	77	0.94	-293.8	13500	54.29
0925	22.8	7.20	5362	75	0.89	-290.6	15000	54.29
0928	22.9	7.20	5370	74	0.84	-293.1	16500	54.29

Did well dewater? Yes (No) Amount actually evacuated: 16500 ml

Sampling Time: 0929 Sampling Date: 3/26/14

Sample I.D.: Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140324-MA1	Client: ETSL
Sampler: CR	Gauging Date: 3/26/14
Well I.D.: MW-44	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 105.23	Depth to Water (ft.): 54.48
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 0957 Flow Rate: 500 ml/m Pump Depth: 100'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1004	21.0	7.17	6201	36	2.40	-192.4	3500	54.50
1007	21.2	7.16	6245	18	1.39	-296.4	5000	54.51
1010	21.6	7.16	6261	16	1.01	-312.7	6500	54.51
1013	22.0	7.16	6284	16	0.93	-308.2	8000	54.52
1016	22.0	7.16	6289	15	0.89	-314.6	9500	54.5

Did well dewater? Yes (No) Amount actually evacuated: 9500 ml

Sampling Time: 1017 Sampling Date: 3/26/14

Sample I.D.: Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140329-HH1	Client: ETSI
Sampler: CR	Gauging Date: 3/25/14
Well I.D.: MW-45	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 88.37	Depth to Water (ft.): 52.94
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI ~~Pro~~ 556

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ____

Start Purge Time: 1245 Flow Rate: 500 ml/n Pump Depth: 86'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1251	20.7	7.35	2623	117	3.37	-275.4	3000	53.02
1254	20.8	7.33	2621	85	2.64	-281.3	4500	53.02
1257	21.3	7.32	2676	46	1.32	-265.6	6000	53.02
1300	21.6	7.32	2702	40	1.15	-265.5	7500	53.02
1303	21.9	7.32	2750	39	1.09	-259.9	9000	53.03
1306	22.2	7.32	2755	38	1.01	-260.6	10500	53.04

Did well dewater? Yes (No) Amount actually evacuated: 10500 ml

Sampling Time: 1307 Sampling Date: 3/25/14

Sample I.D.: Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140324-HH1	Client: ITSI
Sampler: HH	Gauging Date: 03/24/14
Well I.D.: MW-46	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 67.10	Depth to Water (ft.): 52.66
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI556

Purge Method: 2" (Grundfos) Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | (New Tubing) | Other ___

Start Purge Time: 1120 Flow Rate: 300ml/1min Pump Depth: 62'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
1123	20.59	7.36	2198	13	3.19	-51.5	900	52.74
1126	21.19	7.34	2390	6	3.01	-56.4	1800	52.76
1129	22.39	7.33	2445	3	1.26	-59.3	2700	52.77
1132	22.47	7.33	2460	3	1.01	-61.4	3600	52.77
1135	22.58	7.32	2449	3	0.99	-60.5	4500	52.77
1138	22.65	7.32	2446	3	0.95	-63.3	5400	52.77
1141	22.72	7.32	2445	3	0.90	-64.7	6300	52.77

Did well dewater? Yes (No) Amount actually evacuated: 6300ml

Sampling Time: 1142 Sampling Date: 03/24/14

Sample I.D.: MW-46 Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D (Other): See C.O.C

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140324-H	Client: ITSI
Sampler: HH	Gauging Date: 03/24/14
Well I.D.: MW-47	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 87.81	Depth to Water (ft.): 52.55
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" (Grundfos) Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated (Tubing) New Tubing Other ___

Start Purge Time: 1350 Flow Rate: 300 ml/min Pump Depth: 89'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
1353	20.86	7.39	1655	237	2.04	-79.4	900	52.63
1356	21.48	7.33	1705	92	0.89	-85.3	1800	52.65
1359	22.05	7.31	1724	48	0.83	-85.4	2700	52.65
1402	22.36	7.32	1742	33	0.81	-87.7	3600	52.65
1405	22.44	7.30	1750	31	0.79	-91.5	4500	52.65
1408	22.49	7.31	1753	30	0.74	-94.7	5400	52.65
1411	22.53	7.31	1754	28	0.72	-99.1	6300	52.65
1414	22.51	7.30	1757	28	0.71	-101.7	7200	52.65

Did well dewater? Yes (No) Amount actually evacuated: 7200 ml

Sampling Time: 1415 Sampling Date: 03/24/14

Sample I.D.: MW-47 Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See C.O.C

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140324-HH1	Client: ITSI
Sampler: HH	Gauging Date: 03/24/14
Well I.D.: MW-48	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 107.91	Depth to Water (ft.): 52.44
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" (Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other ___

Start Purge Time: 1215 Flow Rate: 400ml/min Pump Depth: 103'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1218	20.55	7.29	2341	5	2.19	-123.2	1200	52.53
1221	21.52	7.21	2994	3	1.03	-96.4	2400	52.55
1224	21.73	7.20	3044	3	0.94	-93.7	3600	52.55
1227	21.82	7.20	3097	1	0.85	-85.1	4800	52.55
1230	21.88	7.20	3170	1	0.84	-88.4	6000	52.55
1233	21.95	7.18	3196	1	0.82	-83.5	7200	52.55
1236	21.99	7.17	3201	1	0.80	-82.4	8400	52.55

Did well dewater? Yes (No) Amount actually evacuated: 8400ml

Sampling Time: 1237 Sampling Date: 03/24/14

Sample I.D.: MW-48 Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D (Other:) See C.O.C

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140324-A#1	Client: ETSI
Sampler: CD	Gauging Date: 3/26/14
Well I.D.: MW-49	Well Diameter (in.): (2) 3 4 6 8
Total Well Depth (ft.): 69.72	Depth to Water (ft.): 51.45
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other

Start Purge Time: 0734 Flow Rate: 500 ml/m Pump Depth: 65

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0738	20.6	7.12	5950	105	2.05	-265.1	2000	51.51
0741	21.5	7.12	5980	78	1.71	-272.6	3500	51.52
0744	21.6	7.12	5999	70	1.72	-267.1	5000	51.52
0747	21.9	7.11	6007	51	1.63	-269.2	6500	51.52
0750	22.5	7.11	6070	39	1.27	-215.5	8000	51.52
0753	22.6	7.11	6073	38	1.24	-213.3	9500	51.52
0756	22.6	7.11	6075	36	1.17	-220.1	11000	51.52

Did well dewater? Yes (No)	Amount actually evacuated: 11000 ml
Sampling Time: 0757	Sampling Date: 3/26/14
Sample I.D.:	Laboratory:
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140324-HH1	Client: ITSI
Sampler: HH	Gauging Date: 03/25/14
Well I.D.: MW-52	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 76.19	Depth to Water (ft.): 51.84
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing HH Other ___

Start Purge Time: 1105 Flow Rate: 300ml/min Pump Depth: 71'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1108	21.01	7.10	3277	50	1.11	-1.1	900	51.95
1111	21.94	7.07	3640	78	0.92	-14.7	1800	51.97
1114	22.24	7.11	3653	64	0.83	-19.6	2700	51.98
1117	22.37	7.11	3663	23	0.80	-23.4	3600	51.98
1120	22.58	7.08	3652	10	0.83	-29.0	4500	51.98
1123	22.66	7.12	3651	4	0.84	-30.1	5400	51.98
1126	22.69	7.11	3649	4	0.86	-31.4	6300	51.98
1129	22.71	7.12	3650	3	0.84	-32.5	7200	51.98

Did well dewater? Yes (No) Amount actually evacuated: 7200ml

Sampling Time: 1130 Sampling Date: 03/25/14

Sample I.D.: MW-52 Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D (Other: See C.O.C)

Equipment Blank I.D.: @ Time Duplicate I.D.: MW-952 @ 1135

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140324-HH1	Client: ITSI
Sampler: HH	Gauging Date: 03/26/14
Well I.D.: MW-56	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 72.16	Depth to Water (ft.): 52.55
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" (Grundfos) Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | (New Tubing) | Other ___

Start Purge Time: 0735 | Flow Rate: 300 ml/min | Pump Depth: 67'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0738	21.25	7.19	1738	187	1.59	152.5	900	52.61
0741	22.73	7.24	1802	66	1.04	132.0	1800	52.62
0744	22.79	7.26	1827	44	0.96	143.6	2700	52.62
0747	22.95	7.29	1833	26	0.86	156.4	3600	52.62
0750	23.01	7.29	1831	27	0.85	145.5	4500	52.62
0753	22.97	7.29	1829	12	0.82	109.4	5400	52.62
0756	22.94	7.27	1832	11	0.80	103.1	6300	52.62
0759	22.98	7.29	1835	10	0.79	100.2	7200	52.62
0802	23.04	7.26	1845	10	0.73	97.5	8100	52.62

Did well dewater? Yes (No) | Amount actually evacuated: 8100ml

Sampling Time: 0803 | Sampling Date: 03/26/14

Sample I.D.: MW-56 | Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D | Other: See C.O.C

Equipment Blank I.D.: @ Time | Duplicate I.D.:

WELLHEAD INSPECTION CHECKLIST

Client ITSI Date 03/24/14

Site Address 5211 Southern Ave, South Gate, CA

Job Number 140324-HH1 Technician HH

Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12"or less)	WELL IS CLEARLY MARKED WITH THE WORDS "MONITORING WELL" (12"or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
SAIA-MW6C	X	X	X							
SAIA-MW3B	X	X	X							
SAIA-MW3A	X	X	X							
MW-46	X	X	X							
MW-48	X	X	X							
MW-47	X	X	X							
SAIA-MW4A	X	X	X							
SAIA-MW4C	X	X	X							
SAIA-MW4B	X	X	X							
MW-52	X	X	X							
MW-56	X	X	X							
MW-34	X	X	X							
MW-35	X	X	X							
SAIA-MW2C	X	X	X							
SAIA-MW2B	X	X	X							
SAIA-MW2A	X	X	X							
SAIA-MW7	X	X	X							

NOTES:

WELLHEAD INSPECTION CHECKLIST

Client ZTSI Date 3/24/14

Site Address

Job Number 140324-HH1 Technician GD

Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12"or less)	WELL IS CLEARLY MARKED WITH THE WORDS "MONITORING WELL" (12"or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-6C	X	X	X							
MW-6B	X	X	X							
MW-6A	X	X	X							
MW-8	X	X	X							
MW-5 A/B/C	X	X	X							
MW-45	X	X	X							
MW-49	X	X	X							
MW-43	X	X	X							
MW-44	X	X	X							
MW-42	X	X	X							
MW-1 A/B/C	X	X	X							

NOTES:

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME	ITSI@SAFA			PROJECT NUMBER	140324-HH1		
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI 556	10A100055	03/26/14 0550	4.0 7.0 10.0 PH	4.09 7.26 9.73	4.0 7.0 10.0	17.63°C	HH
↓	↓	03/26/14 0553	Cond 3900	4319	3900	17.21°C	HH
↓	↓	03/26/14 0556	ORP 240	203.5	240	17.06°C	HH
↓	↓	03/26/14 0559	D.O. 100%	136.3%	100.5%	16.91°C	HH
YSI 556	10A100055	03/27/14 0705	4.0 7.0 PH 10.0	3.89 7.24 9.71	4.0 7.0 10.0	17.49°C	HH
↓	↓	03/27/14 0709	Cond 3900	4211	3900	17.61°C	HH
↓	↓	03/27/14 0712	ORP 240	207.1	240	17.37°C	HH
↓	↓	03/27/14 0714	D.O. 100%	125.7%	100.6%	17.11°C	HH

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME ITSI @ SAIL				PROJECT NUMBER 140324-HH1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI 556	10A100055	03/24/14 0735	4.0 7.0 PH 10.0	4.09 7.20 9.83	4.0 7.0 10.0	18.11°C	HH
↓	↓	03/24/14 0738	Cond 3900	4533	3900	18.70°C	HH
↓	↓	03/24/14 0741	ORP 240.1	296.2	240	18.90°C	HH
↓	↓	03/24/14 0745	D.O. 100%	119.3%	99.4%	18.61°C	HH
YSI 550	06E2058AB	03/24/14 0749	D.O. 100%	145.3%	100.7%	18.39°C	HH
YSI 556	10A100055	03/25/14 0709	4.0 7.0 PH 10.0	3.91 6.89 9.75	4.0 7.0 10.0	17.39°C	HH
↓	↓	03/25/14 0713	Cond 3900	4211	3900	17.55°C	HH
↓	↓	03/25/14 0715	ORP 243	210.9	243	17.44°C	HH
↓	↓	03/25/14 0718	D.O. 100%	136.7%	100.3%	17.11°C	HH

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME				PROJECT NUMBER			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI 556	06F1362 ALL	0820 3/24/14	pH 7 4 10 ORP Cond 1500 D.O 100%	7.02 4.01 10.03 3912 100%	✓	12	CR
↓	↓	0625 3/25/14	↓	7.01 4.02 10.00 3902 98%	✓	13	CR
		0625 3/26/14		7.01 4.02 10.01 3900 99%	✓	13	CR
		0625 3/27/14		7.01 4.01 10.01 3900 100%	✓	13	CR

WELL GAUGING DATA

Project # 140825-EB1 Date 08/25/14 Client ITSI

Site 5211 SOUTHERN AVE., SOUTH GATE

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
SAIA-MW-2C	0820	2					55.64	104.93		
SAIA-MW-2B	0934	2					55.57	85.16		
SAIA-MW-2A	1058	2					55.62	64.81		
SAIA-MW-7	1243	2					61.27	131.53		
SAIA-MW-3C	0728	2					53.50	105.12		
SAIA-MW-3B	0821	2					53.42	83.20		
SAIA-MW-3A	0919	2					53.50	67.68		UNDER PRESSURE
SAIA-MW-4C	1025	2					52.48	100.94		
SAIA-MW-4B	1133	2					52.73	83.30		
SAIA-MW-4A	1313	2					52.56	67.59		UNDER PRESSURE
SAIA-MW-5C	0800	2					52.24	105.96		
SAIA-MW-5B	0924	2					52.28	86.12		
SAIA-MW-5A	1009	2					52.19	67.05		
SAIA-MW-6C	1108	2					52.60	98.68		
SAIA-MW-6B	1251	2					52.38	80.58		
SAIA-MW-6A	1343	2					52.32	67.90		UNDER PRESSURE

WELL GAUGING DATA

Project # 140825-EB1 Date 8-25-14 Client (NK) ~~SAIA~~ ITSI

Site SAIA - South Gate

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
SAIA-MW1C	0815	2					55.62	103.48		
SAIA-MW1B	0930	2					55.53	84.99		
SAIA-MW1A	1035	2					55.65	64.70		
SAIA-MW-8	1240	2					56.50	133.40		

LOW FLOW WELL MONITORING DATA SHEET 1 of 2

Project #: 140825-EB1	Client: ITSI
Sampler: NK	Gauging Date: 8-25-14
Well I.D.: SAIA- MW1A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 64.70	Depth to Water (ft.): 55.65
Depth to Free Product: -	Thickness of Free Product (feet): -
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other ___

Start Purge Time: 1042 Flow Rate: 200 mL/min Pump Depth: 63'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1045	23.4	7.31	1367	181	0.58	128.2	600	55.73
1048	23.4	7.24	1363	346	0.39	125.9	1200	55.75
1051	23.4	7.24	1365	351	0.35	122.7	1800	55.77
1054	23.5	7.22	1367	241	0.33	121.3	2400	55.79
1057	23.7	7.22	1369	155	0.34	123.0	3000	55.81
1100	24.0	7.22	1369	115	0.35	124.2	3600	55.82
1103	24.3	7.23	1370	81.6	0.46	127.2	4200	55.83
1106	24.5	7.22	1371	84.9	0.35	128.0	4800	55.83
1109	24.7	7.22	1372	63.4	0.36	129.6	5400	55.83
1112	24.9	7.22	1372	52.6	0.38	132.1	6000	55.83
1115	25.1	7.21	1372	46.4	0.38	135.6	6600	55.83
1118	25.3	7.20	1374	35.2	0.34	136.9	7200	55.83

Did well dewater? Yes (No) Amount actually evacuated: 8400 mL

Sampling Time: 1125 Sampling Date: 8-25-14

Sample I.D.: SAIA-MW1A Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET 2 of 2

Project #: 140825-EB1	Client: ITSI
Sampler: NIC	Gauging Date: 8-25-14
Well I.D.: SAIA-MW1A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.):	Depth to Water (ft.): 55.65
Depth to Free Product: -	Thickness of Free Product (feet): -
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 1042 Flow Rate: 200 mL/min Pump Depth: 63'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1121	25.5	7.20	1372	35.4	0.32	140.0	7800	55.83
1124	25.7	7.19	1371	35.1	0.31	141.9	8400	55.83

Did well dewater? Yes (No) Amount actually evacuated: 8400 mL

Sampling Time: 1125 Sampling Date: 8-25-14

Sample I.D.: SAIA-MW1A Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140825-EB1	Client: ITSI
Sampler: NIC	Gauging Date: 8-25-14
Well I.D.: SAIA-MW1B	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 84.99	Depth to Water (ft.): 55.53
Depth to Free Product: -	Thickness of Free Product (feet): -
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: (Dedicated) Tubing New Tubing Other ___

Start Purge Time: 0938 Flow Rate: 500 mL/min Pump Depth: 80'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0941	22.1	7.06	3934	554	0.67	94.6	1500	55.59
0944	22.4	7.03	3928	145	0.92	84.0	3000	55.61
0947	23.2	7.04	3970	29	0.80	77.3	4500	55.61
0950	23.3	7.04	3990	15	0.79	74.1	6000	55.61
0953	23.3	7.04	3996	9.8	0.76	72.3	7500	55.62
0956	23.3	7.04	3997	6.7	0.75	71.9	9000	55.62
0959	23.3	7.04	4006	4.6	0.43	68.2	10500	55.62
1002	23.3	7.04	4003	4.2	0.55	67.8	12000	55.62
1005	23.3	7.04	4004	4.1	0.54	68.6	13500	55.62
						MS/MSD		

Did well dewater? Yes (No) Amount actually evacuated: 13500 mL

Sampling Time: 1006 Sampling Date: 8-25-14

Sample I.D.: SAIA-MW1B Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140825 ~~NH~~ NJC - EB1	Client: ~~Sub~~ ITSI
Sampler: NJC	Gauging Date: 8-25-14
Well I.D.: SAIA-MW1C	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 103.48	Depth to Water (ft.): 55.62
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI ~~556~~ Pro Plus

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 0832 Flow Rate: 500 ml/min Pump Depth: 97'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (ml))	Depth to Water (ft.)
0835	21.5	7.06	5447	537	0.77	40.1	1500	55.76
0838	21.6	7.06	5449	431	0.70	33.0	3000	55.79
0841	21.8	7.07	5466	313	0.60	26.1	4500	55.82
0844	22.1	7.08	5479	213	0.52	27.3	6000	55.84
0847	22.4	7.08	5486	101	0.46	27.1	7500	55.86
0850	22.6	7.08	5483	38.2	0.55	32.7	9000	55.87
0853	22.7	7.08	5482	22.6	0.46	31.1	10500	55.88
0856	22.9	7.09	5489	19.7	0.40	31.3	12000	55.88
0859	23.0	7.09	5510	9.8	0.40	31.0	13500	55.88
0902	23.0	7.09	5514	7.6	0.35	27.8	15000	55.88
0905	23.1	7.09	5518	7.5	0.35	29.3	16500	55.88
0908	23.2	7.09	5520	7.3	0.33	30.1	18000	55.88

Did well dewater? Yes (No) Amount actually evacuated: 18000

Sampling Time: 0909 Sampling Date: 8-25-14

Sample I.D.: SAIA-MW1C Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D Other: (See COC)

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140825-EB1	Client: ITS1
Sampler: EB	Gauging Date: 08/25/14
Well I.D.: SA1A-MW-2A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 64.81	Depth to Water (ft.): 55.62
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: 2" ~~Grundfos~~ Pump Peristaltic Pump Bladder Pump
Sampling Method: ~~Dedicated Tubing~~ New Tubing Other ____

Start Purge Time: 1106 Flow Rate: 300 mL/MIN Pump Depth: 62.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1109	23.1	7.24	1655	117	0.57	-54.4	900	55.66
1112	24.4	7.24	1667	82	0.65	-70.2	1800	55.67
1115	25.3	7.24	1671	74	0.48	-74.3	2700	55.67
1118	25.5	7.24	1669	60	0.26	-77.5	3600	55.67
1121	25.6	7.24	1675	51	0.18	-79.3	4500	55.67
1124	25.6	7.24	1675	38	0.17	-80.9	5400	55.67
1127	25.9	7.25	1675	37	0.17	-82.4	6300	55.67
1130	26.1	7.25	1675	28	0.16	-83.5	7200	55.67
1133	26.1	7.25	1675	24	0.17	-83.9	8100	55.67
1136	26.2	7.25	1680	19	0.18	-82.4	9000	55.67
1139	26.2	7.25	1675	18	0.19	-83.2	9900	55.67
1142	26.3	7.25	1678	18	0.19	-82.5	10800	55.67

Did well dewater? Yes (No) Amount actually evacuated: 10800

Sampling Time: 1143 Sampling Date: 08/25/14

Sample I.D.: SA1A-MW-2A Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D (Other): SEE C.O.C.

Equipment Blank I.D.: @ Time Duplicate I.D.: SA1A-MW-2A @ 1148

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140825-EB1	Client: ITSI
Sampler: EB	Gauging Date: 08/25/14
Well I.D.: SA1A-MW-2B	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 85.16	Depth to Water (ft.): 55.57
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: (Dedicated) Tubing New Tubing Other ___

Start Purge Time: 0943 Flow Rate: 300 mL/min Pump Depth: 81'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (µS/cm))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
0946	22.3	7.16	3786	194	0.31	-77.6	900	55.60
0949	22.4	7.16	3798	133	0.45	-86.1	1800	55.62
0952	22.6	7.17	3793	108	0.60	-92.8	2700	55.62
0955	23.1	7.17	3802	83	0.66	-98.3	3600	55.62
0958	23.4	7.17	3801	73	0.46	-101.2	4500	55.62
1001	23.6	7.17	3823	57	0.31	-101.8	5400	55.62
1004	23.8	7.17	3836	42	0.24	-103.2	6300	55.62
1007	23.9	7.17	3841	29	0.20	-103.7	7200	55.62
1010	24.0	7.17	3856	22	0.18	-104.4	8100	55.62
1013	24.2	7.17	3857	15	0.17	-104.4	9000	55.62
1016	24.2	7.17	3856	13	0.17	-104.4	9900	55.62
1019	24.3	7.17	3855	12	0.17	-105.7	10800	55.62

Did well dewater? Yes (No)	Amount actually evacuated:
Sampling Time:	Sampling Date: 08/25/14
Sample I.D.: SA1A-MW-2B	Laboratory: KAP
Analyzed for: TPH-G BTEX MTBE TPH-D	(Other) See C.O.C.
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140825-EB1	Client: ITSI
Sampler: EB	Gauging Date: 08/25/14
Well I.D.: SAIA-MW-2B	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 85.16	Depth to Water (ft.): 55.57
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: 2" (Grundfos) Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other ___

Start Purge Time: 0943 Flow Rate: 300 mL/min Pump Depth: 81'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1022	24.4	7.17	3853	11	0.17	-126.5	11700	55.62
1025	24.5	7.17	3855	8	0.17	-106.1	12600	55.62
1028	24.6	7.17	3856	7	0.18	-106.2	13500	55.62
1031	24.5	7.17	3855	7	0.18	-106.7	14400	55.62

Did well dewater? Yes (No)	Amount actually evacuated: 14400
Sampling Time: 1032	Sampling Date: 08/25/14
Sample I.D.: SAIA-MW-2B	Laboratory: KAP
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See C.O.C.
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140825 - EB1	Client: ITS1
Sampler: EB	Gauging Date: 08/25/14
Well I.D.: SAIA-MW-2C	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 104.93	Depth to Water (ft.): 55.64
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: 2" (Grundfos) Pump Peristaltic Pump Bladder Pump
Sampling Method: (Dedicated) Tubing New Tubing Other ___

Start Purge Time: 0831 Flow Rate: 300 ML/MIN Pump Depth: 101'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0834	21.9	7.11	5741	249	0.36	-56.3	900	55.72
0837	22.2	7.12	5299	140	0.55	-77.8	1800	55.73
0840	22.4	7.14	5326	96	0.75	-83.3	2700	55.74
0843	22.3	7.13	5367	64	0.81	-87.4	3600	55.74
0846	22.3	7.13	5419	45	0.54	-91.6	4500	55.75
0849	22.5	7.14	5418	23	0.39	-93.8	5400	55.75
0852	22.8	7.14	5450	15	0.31	-95.4	6300	55.75
0855	22.9	7.14	5344	13	0.30	-96.5	7200	55.75
0858	23.0	7.14	5329	12	0.30	-97.6	8100	55.75
0901	23.0	7.14	5325	9	0.31	-97.9	9000	55.75
0904	23.0	7.14	5325	7	0.32	-98.3	9900	55.75
0907	23.1	7.14	5326	7	0.33	-98.7	10800	55.75

Did well dewater? Yes (No) Amount actually evacuated: 12600

Sampling Time: 0915 Sampling Date: 08/25/14

Sample I.D.: SAIA-MW-2C Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D (Other: See C.O.C.)

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140825-ETB1	Client: ITSI
Sampler: ETB	Gauging Date: 08/25/14
Well I.D.: SAIA - MW-2C	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 104.93	Depth to Water (ft.): 55.64
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: 2" (Grundfos) Pump Peristaltic Pump Bladder Pump
Sampling Method: (Dedicated) Tubing New Tubing Other ____

Start Purge Time: 0831 Flow Rate: 300 mL/min Pump Depth: 101'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or ~~µS/cm~~)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ~~mL~~)	Depth to Water (ft.)
0910	23.1	7.14	5349	6	0.33	-98.8	11700	55.75
0913	23.1	7.15	5339	6	0.32	-98.5	12600	55.75

Did well dewater? Yes (~~No~~) Amount actually evacuated: 12600

Sampling Time: 0915 Sampling Date: 08/25/14

Sample I.D.: SAIA-MW-2C Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D (Other: See C.O.C.)

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140825 - EB1	Client: ITSI
Sampler: EB	Gauging Date: 08/26/14
Well I.D.: SAIA-MW-3A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 67.68	Depth to Water (ft.): 53.50
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: 2" (Grundfos) Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ___

Start Purge Time: 0927 Flow Rate: 300 mL/MIN Pump Depth: 63'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0930	24.0	7.06	2361	>1000	0.34	-65.6	900	53.53
0933	24.3	7.05	2361	>1000	0.71	-73.1	1800	53.54
0936	24.9	7.05	2367	524	0.70	-74.3	2700	53.54
0939	25.5	7.05	2366	307	0.42	-75.5	3600	53.54
0942	25.6	7.05	2376	224	0.35	-75.8	4500	53.54
0945	25.8	7.05	2376	204	0.30	-76.2	5400	53.54
0948	25.8	7.05	2381	227	0.31	-77.4	6300	53.54
0951	25.9	7.05	2382	223	0.31	-77.8	7200	53.54
0954	25.9	7.05	2382	224	0.32	-78.2	8100	53.54

Did well dewater? Yes (No) Amount actually evacuated: 8100

Sampling Time: 0955 Sampling Date: 08/26/14

Sample I.D.: SAIA-MW-3A Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D (Other) SEE C.O.C.

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140825-EB1	Client: ITSI
Sampler: EB	Gauging Date: 08/26/14
Well I.D.: SAIA-MW-3B	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 83.20	Depth to Water (ft.): 53.42
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: 2" ~~Grundfos~~ Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | (New Tubing) | Other ___

Start Purge Time: 0825 | Flow Rate: 300 mL/MIN | Pump Depth: 81'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (µS/cm))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
0831	23.3	7.18	~~0697~~ 1632	108	0.69	-59.5	900	53.43
0834	23.1	7.17	1624	166	0.85	-60.2	1800	53.43
0837	23.3	7.17	1636	165	0.86	-62.0	2700	53.43
0840	23.8	7.17	1637	89	0.88	-62.5	3600	53.43
0843	24.2	7.18	1647	58	0.68	-63.4	4500	53.43
0846	24.3	7.18	1655	22	0.54	-64.6	5400	53.43
0849	24.5	7.18	1659	13	0.49	-67.7	6300	53.43
0852	24.6	7.18	1666	7	0.48	-68.2	7200	53.43
0855	24.6	7.18	1668	5	0.49	-68.8	8100	53.43
0858	24.7	7.18	1676	5	0.48	-72.3	9000	53.43
0901	24.7	7.18	1677	4	0.48	-74.1	9900	53.43

Did well dewater? Yes (No) | Amount actually evacuated: 9900

Sampling Time: 0902 | Sampling Date: 08/26/14

Sample I.D.: SAIA-MW-3B | Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D | (Other): See C.O.C.

Equipment Blank I.D.: @ Time | Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140825-EB1	Client: ITSI
Sampler: EB	Gauging Date: 08/26/14
Well I.D.: SAIA-MW-3C	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 105.12	Depth to Water (ft.): 53.50
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: 2" (Grundfos) Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ___

Start Purge Time: 0737 Flow Rate: 200 mL/min Pump Depth: 101'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or ~~uS/cm~~)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
0740	22.4	7.03	4094	26	0.46	-110.5	600	53.65
0743	22.7	7.06	4075	29	0.68	-106.3	1200	53.66
0746	22.7	7.06	4099	32	0.73	-103.2	1800	53.67
0749	22.8	7.07	4288	24	0.85	-111.0	2400	53.68
0752	23.0	7.07	4393	32	0.79	-112.5	3000	53.69
0755	23.1	7.07	4399	31	0.78	-105.1	3600	53.69
0758	23.3	7.07	4405	30	0.78	-104.6	4200	53.69
0801	23.4	7.07	4431	30	0.77	-104.8	4800	53.70

Did well dewater? Yes (No) Amount actually evacuated: 4800

Sampling Time: 0802 Sampling Date: 08/26/14

Sample I.D.: SAIA-MW-3C Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See C.O.C.

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140825-EB1	Client: ITSI
Sampler: EB	Gauging Date: 08/26/14
Well I.D.: SALA-MW-4A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 67.59	Depth to Water (ft.): 52.56
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: 2" (Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ___

Start Purge Time: 1320 Flow Rate: 300 mL/min Pump Depth: 63'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1323	25.0	7.00	2303	>1000	0.37	-106.5	900	52.66
1326	25.3	7.01	2324	808	0.37	-108.2	1800	52.66
1329	25.9	7.01	2309	614	0.36	-104.6	2700	52.66
1332	26.4	7.04	2324	384	0.36	-105.5	3600	52.66
1335	26.5	7.04	2309	266	0.42	-102.3	4500	52.66
1338	26.9	7.05	2310	201	0.46	-103.0	5400	52.66
1341	27.1	7.06	2326	172	0.35	-102.5	6300	52.66
1344	26.8	7.06	2318	126	0.36	-102.9	7200	52.66
1347	26.9	7.05	2315	125	0.35	-102.1	8100	52.66
1350	26.9	7.05	2316	121	0.35	-103.4	9000	52.66

Did well dewater? Yes (No) Amount actually evacuated: 9000

Sampling Time: 1351 Sampling Date: 08/26/14

Sample I.D.: SALA-MW-4A Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See C.O.C.

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140825-EB1	Client: ITSI
Sampler: EB	Gauging Date: 08/26/14
Well I.D.: SAIA-MW-4B	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 83.30	Depth to Water (ft.): 52.73
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: ~~PVC~~ Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: 2" ~~Grundfos~~ Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other ___

Start Purge Time: 1140 Flow Rate: 300 mL/MIN Pump Depth: 79'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1143	23.4	6.94	1777	>1000	0.39	-62.3	900	52.74
1146	23.3	6.96	1772	635	0.31	-90.2	1800	52.74
1149	24.1	6.84	1782	267	0.28	-60.2	2700	52.74
1152	24.2	6.99	1787	178	0.29	-99.7	3600	52.74
1155	24.3	7.07	1782	97	0.31	-100.1	4500	52.74
1158	24.2	7.07	1782	72	0.29	-101.3	5400	52.74
1201	24.3	7.07	1781	41	0.29	-102.2	6300	52.74
1204	24.3	7.08	1778	22	0.29	-101.6	7200	52.74
1207	24.2	7.08	1778	23	0.28	-100.9	8100	52.74
1210	24.3	7.08	1778	23	0.28	-100.3	9000	52.74

Did well dewater? Yes (No) Amount actually evacuated: 9000

Sampling Time: 1211 Sampling Date: 08/26/14

Sample I.D.: SAIA-MW-4B Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D Others: SEE C.O.C.

Equipment Blank I.D.: @ Time Duplicate I.D.: SAIA-MW-4B @ 1216

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140825-EB1	Client: ITSI
Sampler: EB	Gauging Date: 08/26/14
Well I.D.: SAIA-MW-4C	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 100.94	Depth to Water (ft.): 52.48
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: 2" (Grundfos) Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 1033 Flow Rate: 300 mL/MIN Pump Depth: 97'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1036	23.1	6.90	3483	879	0.54	+20.1	900	52.54
1039	23.2	6.96	3474	>1000	0.48	-123.3	1800	52.55
1042	23.1	6.99	3489	836	0.43	-125.4	2700	52.55
1045	23.0	7.01	3532	458	0.42	-123.8	3600	52.55
1048	23.0	7.01	3569	462	0.42	-125.0	4500	52.55
1051	23.2	7.01	3569	349	0.56	-124.9	5400	52.55
1054	23.3	7.02	3599	237	0.42	-124.8	6300	52.55
1057	23.4	7.02	3638	142	0.41	-125.0	7200	52.55
1100	23.4	7.02	3649	128	0.42	-127.3	8100	52.55
1103	23.5	7.03	3684	81	0.41	-126.2	9000	52.55
1106	23.5	7.03	3688	79	0.41	-125.9	9900	52.55
1109	23.6	7.03	3706	47	0.40	-122.5	10800	52.55

Did well dewater? Yes (No) Amount actually evacuated: 13500

Sampling Time: 1119 Sampling Date: 08/26/14

Sample I.D.: SAIA-MW-4C Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See C.O.C.

Equipment Blank I.D.: @ Time Duplicate I.D.:

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LOW FLOW WELL MONITORING DATA SHEET

Project #: 140825-EB1	Client: TSI
Sampler: EB	Gauging Date: 08/26/14
Well I.D.: SAIA-MW-4C	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 100.94	Depth to Water (ft.): 52.48
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: 2" (Grundfos) Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | (New Tubing) | Other ___

Start Purge Time: 1033 Flow Rate: 300 mL/min Pump Depth: 97'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (µS/cm))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
1112	23.6	7.04	3706	49	0.38	-123.1	11700	52.55
1115	23.7	7.04	3715	48	0.39	-125.8	12600	52.55
1118	23.7	7.04	3716	47	0.38	-123.8	13500	52.55

Did well dewater? Yes (No) Amount actually evacuated: 13500

Sampling Time: 1119 Sampling Date: 08/26/14

Sample I.D.: SAIA-MW-4C Laboratory: EAP

Analyzed for: TPH-G BTEX MTBE TPH-D Other: (See C.O.C.)

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140825-EB1	Client: ITSI
Sampler: EB	Gauging Date: 08/27/14
Well I.D.: SAIA-MW-5A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 67.05	Depth to Water (ft.): 52.19
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PPO PLUS

Purge Method: 2" (Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other ___

Start Purge Time: 1019 Flow Rate: 500 mL/MIN Pump Depth: 63'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1022	22.8	7.38	3602	112	0.26	-108.8	1500	52.28
1025	23.0	7.37	3628	80	0.21	-112.0	3000	52.28
1028	24.4	7.18	3651	87	0.17	-113.4	4500	52.28
1031	24.4	7.19	3681	69	0.15	-114.5	6000	52.29
1034	24.6	7.23	3712	50	0.12	-116.6	7500	52.29
1037	24.4	7.27	3748	36	0.10	-115.7	9000	52.29
1040	24.4	7.26	3764	38	0.10	-115.9	10500	52.29
1043	24.5	7.26	3771	36	0.10	-116.5	12000	52.29

Did well dewater? Yes (No) Amount actually evacuated: 12000

Sampling Time: 1044 Sampling Date: 08/27/14

Sample I.D.: SAIA-MW-5A Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SEE C.O.C.

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140825-EB1	Client: ITSI
Sampler: EB	Gauging Date: 08/27/14
Well I.D.: SA1A-MW-5B	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 80.12	Depth to Water (ft.): 52.28
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: 2" (Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ___

Start Purge Time: 0933 Flow Rate: 500 mL/min Pump Depth: 81'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0936	22.6	7.18	3287	23	0.31	-127.1	1500	52.29
0939	22.4	7.23	3263	10	0.29	-126.4	3000	52.29
0942	22.8	7.23	3280	9	0.25	-127.3	4500	52.29
0945	23.4	7.27	3286	7	0.22	-128.2	6000	52.29
0948	23.5	7.22	3292	5	0.19	-128.6	7500	52.29
0951	23.6	7.22	3293	5	0.18	-128.5	9000	52.29
0954	23.6	7.22	3303	4	0.18	-128.4	10500	52.29

Did well dewater? Yes (No) Amount actually evacuated: 10500

Sampling Time: 0955 Sampling Date: 08/27/14

Sample I.D.: SA1A-MW-5B Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D (Other: SEE C.O.C.)

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140825-EB1	Client: ITS1
Sampler: EB	Gauging Date: 08/27/14
Well I.D.: SA1A-MW-5C	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 105.96	Depth to Water (ft.): 52.24
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: 2" ~~Grundfos~~ Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | (New Tubing) | Other ___

Start Purge Time: 0809 Flow Rate: 500 mL/MIN Pump Depth: 101'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
0812	21.9	6.76	4642	824	0.37	-105.5	1500	52.33
0815	21.9	6.86	4390	999	0.36	-112.0	3000	52.33
0818	22.0	6.92	4272	>1000	0.31	-117.6	4500	52.33
0821	22.5	6.92	4295	700	0.29	-120.3	6000	52.33
0824	22.7	6.94	4314	447	0.30	-120.5	7500	52.33
0827	22.2	6.96	4352	275	0.30	-119.9	9000	52.33
0830	22.6	6.95	4393	109	0.24	-119.9	10500	52.33
0833	23.0	6.95	4380	61	0.21	-120.6	12000	52.33
0836	23.0	6.96	4380	48	0.21	-120.6	13500	52.33
0839	22.9	6.96	4408	32	0.21	-119.8	15000	52.33
0842	22.7	6.98	4417	23	0.21	-119.1	16500	52.33
0845	22.8	6.97	4433	20	0.19	-118.9	18000	52.33

Did well dewater? Yes (No) Amount actually evacuated: 27000

Sampling Time: 0904 Sampling Date: 08/27/14

Sample I.D.: SA1A-MW-5C Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D Other: (See C.O.C.)

Equipment Blank I.D.: SA1A-EB-01 @ Time 0730 Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140875 - EB 1	Client: ITSI
Sampler: EB	Gauging Date: 08/27/14
Well I.D.: SAIA - MW-5C	Well Diameter (in.) (2) 3 4 6 8 ___
Total Well Depth (ft.): 105.96	Depth to Water (ft.): 52.24
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: 2" ~~Grundfos~~ Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | (New Tubing) | Other ____

Start Purge Time: 0809 | Flow Rate: 500 mL/min | Pump Depth: 101'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0848	22.9	7.09	4423	17	0.18	+119.2	19500	52.33
0851	22.9	7.10	4426	13	0.17	+119.4	21000	52.33
0854	22.9	7.11	4427	17	0.17	+119.5	22500	52.33
0857	23.0	7.00	4422	8	0.16	+119.6	24000	52.33
0900	23.0	7.00	4420	9	0.15	+119.8	25500	52.33
0903	23.0	7.00	4415	8	0.15	+119.7	27000	52.33

Did well dewater? Yes (No) | Amount actually evacuated: 27000

Sampling Time: 0904 | Sampling Date: 08/27/14

Sample I.D.: SAIA-MW-5C | Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D | Other: SEE C.O.C.

Equipment Blank I.D.: @ Time | Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140825-EB1	Client: TSI
Sampler: EB	Gauging Date: 08/27/14
Well I.D.: SAIA-MW-6A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 67.90	Depth to Water (ft.): 52.32
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: ~~TOC~~ Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: 2" ~~Grundfos~~ Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | ~~New~~ Tubing | Other ___

Start Purge Time: 1353 Flow Rate: 500 mL/min Pump Depth: 63'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1356	25.1	7.55	1459	135	0.16	-129.6	1500	52.52
1359	25.6	7.47	1458	129	0.18	-133.2	3000	52.52
1402	26.5	7.44	1460	128	0.17	-135.3	4500	52.52
1405	26.3	7.42	1462	94	0.13	-136.7	6000	52.52
1408	27.0	7.41	1460	67	0.10	-138.5	7500	52.52
1411	26.8	7.41	1460	49	0.09	-138.3	9000	52.52
1414	26.5	7.40	1460	35	0.08	-138.2	10500	52.52
1417	26.3	7.40	1460	24	0.08	-137.8	12000	52.52
1420	26.3	7.39	1459	19	0.07	-137.3	13500	52.52
1423	26.4	7.39	1460	10	0.07	-137.0	15000	52.52
1426	26.3	7.39	1459	11	0.07	-136.6	16500	52.52
1429	26.3	7.39	1457	10	0.07	-136.6	18000	52.52

Did well dewater? Yes (No) Amount actually evacuated: 18000

Sampling Time: 1430 Sampling Date: 08/27/14

Sample I.D.: SAIA-MW-6A Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D Other (SEE C.O.C.)

Equipment Blank I.D.: @ Time Duplicate I.D.:

* MS/MSD COLLECTED

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140825 - EB1	Client: ITSI
Sampler: EB	Gauging Date: 08/27/14
Well I.D.: SAIA - MW-6B	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 80.58	Depth to Water (ft.): 52.38
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: 2" (Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ___

Start Purge Time: 1303 Flow Rate: 500 mL/min Pump Depth: 78.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (uS/cm))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
1306	24.4	7.12	4865	35	0.21	-145.0	1500	52.50
1309	25.1	7.09	4867	35	0.18	-144.5	3000	52.50
1312	25.7	7.08	4868	28	0.15	-145.3	4500	52.50
1315	25.7	7.07	4866	19	0.15	-145.5	6000	52.50
1318	25.7	7.07	4840	13	0.12	-145.6	7500	52.50
1321	25.8	7.06	4812	9	0.11	-145.5	9000	52.50
1324	25.8	7.06	4792	6	0.11	-145.7	10500	52.50
1327	25.9	7.06	4773	5	0.10	-145.9	12000	52.50
1330	25.9	7.06	4758	5	0.10	-146.2	13500	52.50
1333	26.0	7.05	4742	4	0.09	-146.7	15000	52.50

Did well dewater? Yes (No) Amount actually evacuated: 15000

Sampling Time: 1334 Sampling Date: 08/27/14

Sample I.D.: SAIA - MW-6B Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D (Other): See C.O.C.

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET 1 OF 2

Project #: 140825-EB1	Client: ITSI
Sampler: EB	Gauging Date: 08/27/14
Well I.D.: SAIA-MW-6C	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 98.68	Depth to Water (ft.): 52.60
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: 2" ~~Grundfos~~ Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing ~~New~~ Tubing Other ___

Start Purge Time: 1115 Flow Rate: 500 mL/min Pump Depth: 95'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ~~mL~~)	Depth to Water (ft.)
1118	24.6	7.04	4918	>1000	0.18	+129.6	1500	52.68
1121	23.9	7.05	4878	>1000	0.19	+128.5	3000	52.68
1124	24.9	7.06	4869	803	0.16	+130.3	4500	52.68
1127	24.9	7.08	4871	468	0.15	+130.2	6000	52.68
1130	25.1	7.10	4910	186	0.14	+129.7	7500	52.68
1133	25.2	7.10	4931	111	0.14	+128.4	9000	52.68
1136	25.5	7.00	4940	87	0.15	+127.0	10500	52.68
1139	25.4	6.92	4941	67	0.15	+126.3	12000	52.68
1142	25.4	6.92	4954	45	0.14	+126.3	13500	52.68
1145	25.5	6.92	4986	35	0.13	+124.5	15000	52.68
1148	25.6	6.92	4994	24	0.13	+124.3	16500	52.68
1151	25.6	6.91	5021	25	0.13	+124.0	18000	52.68

Did well dewater? Yes (No) Amount actually evacuated: 22500

Sampling Time: 1201 Sampling Date: 08/27/14

Sample I.D.: SAIA-MW-6C Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D Other: SEE C.O.C.

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

2 OF 2

Project #: 140825-EB1	Client: ITSI
Sampler: EB	Gauging Date: 08/27/14
Well I.D.: SAIA-MW-6C	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 98.68	Depth to Water (ft.): 52.60
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: 2" ~~Grundfos~~ Pump Peristaltic Pump Bladder Pump

Sampling Method: Dedicated Tubing New Tubing Other ___

Start Purge Time: 1115 Flow Rate: 500 mL/min Pump Depth: 95'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1154	25.7	6.91	5034	19	0.13	-123.1	19500	52.68
1157	25.8	6.92	5043	19	0.13	-123.1	21000	52.68
1200	25.9	6.92	5044	19	0.12	-122.6	22500	52.68

Did well dewater? Yes (No) Amount actually evacuated: 22500

Sampling Time: 1201 Sampling Date: 08/27/14

Sample I.D.: SAIA-MW-6C Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D Others SEE C.O.C.

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140825 - EB1	Client: ITSI
Sampler: EB	Gauging Date: 08/25/14
Well I.D.: SAIA - MW-7	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 131.53	Depth to Water (ft.): 61.27
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: 2" (Grundfos) Pump | Peristaltic Pump | Bladder Pump
Sampling Method: (Dedicated) Tubing | New Tubing | Other ___

Start Purge Time: 1255 Flow Rate: 300 ML/MIN Pump Depth: 127'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1258	22.8	7.11	5309	229	0.30	34.8	900	61.29
1301	23.3	7.07	5362	378	0.35	27.4	1800	61.29
1304	23.2	7.07	5403	277	0.47	-15.7	2700	61.29
1307	23.2	7.07	5038	205	0.59	-41.2	3600	61.29
1310	23.2	7.07	5045	132	0.63	-72.1	4500	61.29
1313	23.3	7.07	5046	106	0.37	-87.0	5400	61.29
1316	23.7	7.07	5092	85	0.23	-98.8	6300	61.29
1319	23.8	7.07	5132	65	0.19	-119.7	7200	61.29
1322	23.7	7.07	5133	53	0.18	-118.2	8100	61.29
1325	23.6	7.06	5139	46	0.18	-114.1	9000	61.29
1328	23.6	7.06	5141	34	0.17	-114.0	9900	61.29
1331	23.5	7.07	5125	31	0.15	-112.6	10800	61.29

Did well dewater? Yes (No) Amount actually evacuated: 13500

Sampling Time: 1341 Sampling Date: 08/25/14

Sample I.D.: SAIA - MW-7 Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D (Other): See C.O.C.

Equipment Blank I.D.: @ Time Duplicate I.D.:

2 OF 2

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140825-EB1	Client: ITSI
Sampler: EB	Gauging Date: 08/25/14
Well I.D.: SAIA-MW-7	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 131.53	Depth to Water (ft.): 61.27
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI PROPLUS

Purge Method: 2" (Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: (Dedicated) Tubing New Tubing Other ___

Start Purge Time: 1255 Flow Rate: ___ mL/min Pump Depth: 127'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1334	23.8	7.07	5215	22	0.15	-112.3	11700	61.29
1337	23.7	7.07	5218	22	0.15	-119.6	12600	61.29
1340	23.8	7.07	5220	21	0.15	-119.7	13500	61.29

Did well dewater? Yes (No) Amount actually evacuated: 13500

Sampling Time: 1341 Sampling Date: 08/25/14

Sample I.D.: SAIA-MW-7 Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See C.O.C.

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 140825-EB1	Client: ITSI
Sampler: NK	Gauging Date: 8-25-14
Well I.D.: SAIA-MW8	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 133.40	Depth to Water (ft.): 56.50
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: Pro Plus (YSI)

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 1254 Flow Rate: 500 mL/min Pump Depth: 129'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1257	22.4	7.12	2653	26.3	1.27	114.5	1500	56.55
1300	21.7	7.06	2773	57.9	0.95	117.1	3000	56.57
1303	21.9	7.06	2839	31.3	0.90	109.4	4500	56.58
1306	22.0	7.06	2848	19.8	0.76	103.0	6000	56.59
1309	22.1	7.05	2843	12.7	0.63	96.8	7500	56.59
1312	22.1	7.05	2826	9.6	0.59	95.7	9000	56.60
1315	22.1	7.04	2808	7.2	0.51	93.5	10500	56.60
1318	22.1	7.04	2801	4.8	0.49	96.0	12000	56.60
1321	22.1	7.04	2796	4.6	0.44	99.8	13500	56.60
1324	22.1	7.04	2789	4.3	0.42	96.5	15000	56.60

Did well dewater? Yes (No) Amount actually evacuated: 15000 mL

Sampling Time: 1325 Sampling Date: 8-25-14

Sample I.D.: SAIA-MW8 Laboratory: KAP

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

WELLHEAD INSPECTION CHECKLIST

Client ITSI Date 08/26/14

Site Address 5211 SOUTHERN AVE, SOUTH GATE

Job Number 140825-EB1 Technician EB

Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12"or less)	WELL IS CLEARLY MARKED WITH THE WORDS "MONITORING WELL" (12"or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
SAIA-MW-2C	✓									
SAIA-MW-2B	✓									
SAIA-MW-2A	✓									
SAIA-MW-7	✓	✓	✓							
SAIA-MW-3C	✓									
SAIA-MW-3B	✓									
SAIA-MW-3A	✓									
SAIA-MW-4C	✓									
SAIA-MW-4B	✓									
SAIA-MW-4A	✓									
SAIA-MW-5C	✓									
SAIA-MW-5B	✓									
SAIA-MW-5A	✓									
SAIA-MW-6C	✓									
SAIA-MW-6B	✓									
SAIA-MW-6A	✓									

NOTES:

WELLHEAD INSPECTION CHECKLIST

Client ITSI Date 8-25-14

Site Address 5211 Southern Avenue, South Gate, CA

Job Number ~~1202~~ 140825-~~water~~ NP EB1 Technician N King

Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12"or less)	WELL IS CLEARLY MARKED WITH THE WORDS "MONITORING WELL" (12"or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
SAFA-~~MW~~MW1(A&B/L)	NK	NK	NK	–						
SAFA-MW8	NK	NK	NK	–						

NOTES:

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME ITSI @ SAIA				PROJECT NUMBER 140825-EB1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI PRO PLUS	14A102843	08/25/14/0723	4.00, 7.00, 10.00 3900, 100%, ORP	4.01, 7.00, 10.02 99.7 3903, [illegible], 232.7	✓, ✓, ✓ ✓, ✓, ✓	22°C	EB
2100 Q	12010C015801	08/25/14/0720	0	0	✓	22°C	EB
YSI PRO PLUS	14A102843	08/26/14/0710	4.00, 7.00, 10.00 3900, 100%, ORP	3.99, 7.00, 9.99 3903, 99.6%, 233.2	✓, ✓, ✓ ✓, ✓, ✓	23°C	EB
2100 Q	12010C015801	08/26/14/0705	0	0	✓	23°C	EB
YSI PRO PLUS	14A102846	08/27/14/	4.00, 7.00, 10.00 3900, 100%, ORP	4.00, 7.00, 9.99 3904, 100%, 231.5	✓, ✓, ✓ ✓, ✓, ✓	24°C	EB
2100 Q	12010C015801	08/27/14/0708	0	0	✓	24°C	EB

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME ITSI & SAIA				PROJECT NUMBER 140825-EB1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP. °C	INITIALS
YSI Pro Plus	10E102051	8-25-14 0710	7/4/10	7.42 4.35 9.84	✓ ✓ (W4) ~~✓~~	23.6 23.3 ~~23.5~~	X
↓	↓	↓	3900 100%	3631 98.4	✓ ✓	23.9 20.7	NIC NIC
↓	↓	↓	232.0 mV	218.7	✓	24.5	NIC
YSI Pro Plus	12H101387	8-25-14 0730	7/4/10	6.85 3.42 9.90	✓ ✓ ✓	22.4 22.4 22.5	NIC
↓	↓	↓	3900 100%	4087 107.5	✓ ✓	21.8 22.2	NIC NIC
↓	↓	↓	232 mV	217.8	✓	23.7	NIC

out of range

WELL GAUGING DATA

Project # 160911-QS1 Date 7-11-16 Client GILBANE

Site SOUTH GATE, CA.

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
~~SAIA~~-MW2A	0920	2					59.85	65.11		
SAIA-MW2B	1015	2					59.84	85.50		
SAIA MW2C	1055	2					59.85	105.20		
SAIA MW-7	1230	2					66.25	131.90		
MW-42	0845	2					59.95	66.10		
MW-43	0958	2					59.74	86.62		
MW-44	1050	2					59.64	105.30		
MW-34	1206	4					58.85	67.10		
MW-35	1300	4					59.05	104.55		
MW-32	0825	2					65.34	134.34		
SAIA-MW3A	1020	2					57.80	67.95		
SAIA-MW3B	1125	2					57.84	83.51		
SAIA MW3C	1245	2					~~TD~~ 58.04	105.50		
MW-1A		2					60.00	64.65		
MW-1B		2					59.95	85.00		
MW-1C		2					60.13	103.54		
MW-45	—	2					58.51	88.41		

WELL GAUGING DATA

Project # 160711-QS1 Date 7-11-16 Client GILBANE

Site SOUTH GATE

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
SAIA-MW-11A	0740	2					56.40	79.20		
SAIA-MW-11B	0920	2					56.51	108.01		
SAIA-MW-11C	1045	2					58.70	119.31		
MW-49	1250	2					57.20	69.90		
~~SAIA-MW-10 MW-9~~	0748	2					59.15	138.20		
SAIA-MW-9A	0856	2					48.20	60.20		
SAIA-MW-9B	1000	2					56.20	77.80		
SAIA-MW-9C	1050	2					55.93	104.50		
MW-56	1215	2					58.13	72.30		
MW-52	0842	2					57.43	76.20		
MW-46	1050	2					57.11	67.10		
MW-47	1200	2					58.00	87.84		
MW-48	1314	2					57.82	108.00		
MW-6A	0813	2					56.80	68.11		
MW-6B	0923	2					56.82	80.65		
MW-6C	1035	2					57.05	99.00		
MW-5A	1232	2					56.64	67.40		

WELL GAUGING DATA

Project # 160711-GS1 Date 7-11-16 Client GILBANE

Site SOUTH GATE

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-8	0808	2					61.54	133.69		
MW-5B	0945	2					56.68	86.34		
MW-5C	1106	2					57.21	106.00		
~~SATA~~ - MW-3	1228	2					58.22	138.75		
~~SATA~~ - MW4A	0829	2					56.97	67.79		
~~SATA~~ - MW4B	0943	2					56.96	83.71		
~~SATA~~ - MW4C	1125	2					56.90	101.30		
~~SATA~~ - MW12A	0847	2					54.90	79.85		
~~SATA~~ - MW12B	0956	2					54.83	99.24		
~~SATA~~ - MW12C	1113	2					58.12	114.51	▼	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 60711 – QS1	Client: CBANE
Sampler: QS	Gauging Date: 7-21-16
Well I.D.: MW-5B	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 86.34	Depth to Water (ft.): 56.68
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 0947 Flow Rate: 500 mL/MIN Pump Depth: 82'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
0950	22.7	7.21	2958	137	1.46	-111.8	1500	56.79
0953	22.9	7.19	2972	122	1.50	-115.1	3000	56.79
0956	23.1	7.17	2988	100	1.49	-117.0	4500	56.79
0959	23.5	7.17	2968	81	1.46	-119.1	6000	56.79
1002	23.9	7.16	3004	55	1.45	-120.3	7500	56.79
1005	24.1	7.15	3022	49	1.50	-120.7	9000	56.79
1008	24.2	7.15	3034	42	1.52	-121.0	10500	56.79
1011	24.2	7.15	3035	34	1.52	-120.8	12000	56.79
1014	24.4	7.15	3028	26	1.52	-121.4	13500	56.79
1017	24.3	7.15	3022	20	1.51	-121.9	15000	56.79
1020	24.5	7.14	3035	17	1.50	-121.3	16500	56.79
1023	24.4	7.14	3022	9	1.49	-121.3	18000	56.79

Did well dewater? Yes (No) Amount actually evacuated: 18000 mL

Sampling Time: 1025 Sampling Date: 7-21-16

Sample I.D.: MW-5B Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-QS1	Client: CHEVRON
Sampler: QS	Gauging Date: 7-21-16
Well I.D.: MW-5C	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 106.00	Depth to Water (ft.): 57.21
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ____

Start Purge Time: 1108 Flow Rate: 500 mL/min Pump Depth: ____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (µS/cm))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
1111	22.3	7.18	3926	948	1.57	-92.0	1500	57.31
1114	22.9	7.13	4003	294	1.54	-100.8	3000	57.31
1117	23.4	7.10	4039	134	1.59	-103.5	4500	57.31
1120	23.3	7.10	4039	81	1.69	-103.7	6000	57.31
1123	23.2	7.09	4053	66	1.66	-102.0	7500	57.31
1126	23.3	7.09	4052	60	1.66	-102.7	9000	57.31
1129	23.4	7.08	4053	66	1.66	-102.5	10500	57.31
~~1132~~ QS								

Did well dewater? Yes (No) Amount actually evacuated: 10500 mL

Sampling Time: 1131 Sampling Date: 7-21-16

Sample I.D.: MW-5C Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-QS1	Client: GILBANE
Sampler: QS	Gauging Date: 7-21-16
Well I.D.: SAIA-MW13	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 138.75	Depth to Water (ft.): 58.22
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO

Purge Method: 2" Grundfos (Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New (Tubing) Other ____

Start Purge Time: 1231 Flow Rate: 500 mL/min Pump Depth: 133'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (µS/cm))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
1234	22.7	7.47	1957	56	2.26	200.3	1500	58.40
1237	22.8	7.19	3352	29	1.79	180.2	3000	58.40
1240	23.3	7.10	3980	23	1.61	123.5	4500	58.40
1243	23.2	7.08	4061	26	1.60	63.5	6000	58.40
1246	23.4	7.08	4098	24	1.60	42.1	7500	58.40
1249	23.4	7.08	4118	22	1.61	38.4	9000	58.40
1252	23.4	7.07	4175	136	1.60	20.7	10500	58.40
1255	23.3	7.05	4256	390	1.59	-3.1	12000	58.40
1258	23.2	7.05	4293	241	1.57	-5.9	13500	58.40
1301	23.4	7.05	4282	181	1.56	-5.4	15000	58.40
1304	23.1	7.05	4299	78	1.55	-5.6	16500	58.40
1307	23.0	7.05	4301	46	1.55	-5.6	18000	58.40

Did well dewater? Yes No Amount actually evacuated: ~~18000~~

Sampling Time: Sampling Date:

Sample I.D.: Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711 - QS1	Client: GLBANE
Sampler: QS	Gauging Date: 7-21-16
Well I.D.: SAIA-MW13 CONT	Well Diameter (in.) : (2) 3 4 6 8 ___
Total Well Depth (ft.) :	Depth to Water (ft.) :
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type:

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other

Start Purge Time: Flow Rate: Pump Depth:

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1310	23.0	7.05	4322	26	1.48	-5.9	19500	58.40
1313	23.0	7.05	4329	23	1.50	-5.9	21000	58.40
1316	23.1	7.05	4305	24	1.51	-5.3	22500	58.40

Did well dewater? Yes (No) Amount actually evacuated: 22500 mL

Sampling Time: 1320 Sampling Date: 7-21-16

Sample I.D.: ~~DUP~~ SAIA-MW13 Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-QS1	Client: GILBANE
Sampler: QS	Gauging Date: 7-22-16
Well I.D.: ~~MW-4A~~ SAIA - MW4A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 67.79	Depth to Water (ft.): 56.97
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO

Purge Method: 2" Grundfos Pump (Peristaltic Pump) Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other ___

Start Purge Time: 0831 Flow Rate: 300 mL/min Pump Depth: 62'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (uS/cm))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
0834	23.2	7.09	2376	901	1.83	-98.2	900	57.04
0837	23.8	7.13	2386	582	1.71	-111.8	1800	57.04
0840	25.2	7.14	2416	290	1.62	-117.3	2700	57.04
0843	25.4	7.14	2415	209	1.61	-118.6	3600	57.10
0846	25.8	7.14	2422	144	1.67	-120.7	4500	57.10
0849	26.3	7.13	2438	83	1.61	-122.3	5400	57.10
0852	26.5	7.13	2413	63	1.64	-122.9	6300	57.10
0855	26.7	7.13	2432	42	1.67	-123.0	7200	57.10
0858	26.8	7.13	2417	36	1.69	-122.9	8100	57.10
0901	26.8	7.13	2430	35	1.66	-122.5	9000	57.10
0904	26.8	7.13	2434	34	1.66	-122.8	9900	57.10

Did well dewater? Yes (No) Amount actually evacuated: 9900 mL

Sampling Time: 0905 Sampling Date: 7-22-16

Sample I.D.: MW-4A Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711 - QS1	Client: GILBANE
Sampler: QS	Gauging Date: 7-22-16
Well I.D.: ~~MW~~ SAIA - MW4B	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 83.71	Depth to Water (ft.): 56.96
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO

Purge Method: 2" Grundfos Pump (S) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated (S) Tubing New Tubing Other ____

Start Purge Time: 0945 Flow Rate: 300 ML/MIN Pump Depth: ____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0948	23.0	7.25	1742	>1000	1.26	-98.7	900	57.18
0951	23.7	7.21	1750	908	1.28	-108.3	1800	57.18
0954	24.0	7.20	1745	608	1.31	-109.9	2700	57.18
0957	23.9	7.21	1758	372	1.33	-109.7	3600	57.18
1000	23.7	7.21	1742	187	1.34	-108.3	4500	57.18
1003	23.7	7.21	1741	191	1.34	-108.7	5400	57.18
1006	23.7	7.21	1752	99	1.37	-108.1	6300	57.18
1009	23.6	7.21	1757	64	1.40	-106.9	7200	57.18
1012	23.6	7.20	1748	39	1.39	-106.6	8100	57.18
1015	23.5	7.22	1754	37	1.39	-105.2	9000	57.18
1018	23.5	7.22	1752	36	1.38	-105.3	9900	57.18

Did well dewater? Yes (No) Amount actually evacuated: 9900 mL

Sampling Time: 1020 Sampling Date: 7-22-16

Sample I.D.: ~~SAIA~~ - MW4B Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-951	Client: GILBANE
Sampler: CK	Gauging Date: 7-22-16
Well I.D.: SATA - MW4C	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 101.30	Depth to Water (ft.): 56.90
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: PVC Grade	Flow Cell Type: YSI PRO

Purge Method: 2" Grundfos Pump (3) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other ___

Start Purge Time: 1127 Flow Rate: 300mL/min Pump Depth: 98'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1130	25.4	7.14	2837	83	2.32	-80.4	900	57.06
1133	24.6	7.11	3038	65	2.07	-93.5	1800	57.08
1136	24.4	7.10	3078	61	1.76	-96.5	2700	57.08
1139	24.3	7.10	3115	59	1.60	-100.0	3600	57.08
1142	24.2	7.10	3119	51	1.58	-102.7	4500	57.08
1145	24.6	7.10	3133	47	1.57	-104.6	5400	57.08
1148	25.0	7.10	3170	28	1.54	-105.2	6300	57.08
1151	24.9	7.10	3179	20	1.49	-105.3	7200	57.08
1154	24.8	7.10	3210	8	1.51	-107.0	8100	57.08

Did well dewater? Yes (No) Amount actually evacuated: 8100 mL

Sampling Time: 1155 Sampling Date: 7-22-16

Sample I.D.: SATA - MW4C Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-QS1	Client: GILBANE
Sampler: QS	Gauging Date: 7-25-16
Well I.D.: SAFA-MW12A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 79.85	Depth to Water (ft.): 54.90
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ___

Start Purge Time: 0850 Flow Rate: 500 mL/min Pump Depth: 77'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0853	22.4	7.34	3874	60	1.36	-240.5	1500	54.94
0856	22.7	7.29	4071	66	1.41	-236.0	3000	55.12
0859	23.6	7.18	4285	62	1.29	-226.8	4500	55.12
0902	24.2	7.13	4443	69	1.27	-216.6	6000	55.14
0905	24.1	7.06	4561	67	1.30	-204.6	7500	55.14
0908	24.7	7.05	4585	62	1.29	-204.2	9000	55.14
0911	24.8	7.03	4600	69	1.29	-197.7	10500	55.14
0914	24.9	7.03	4605	67	1.28	-196.3	12000	55.14

Did well dewater? Yes (No) Amount actually evacuated: 12000 mL

Sampling Time: 0915 Sampling Date: 7-25-16

Sample I.D.: SAFA-MW12A Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-051	Client: GILBANE
Sampler: CS	Gauging Date: 7-25-16
Well I.D.: SAIA - MW12B	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 99.24	Depth to Water (ft.): 54.83
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other ___

Start Purge Time: 0958 Flow Rate: 500 mL/MIN Pump Depth: 97'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1001	22.8	7.29	3078	26	1.85	-67.1	1500	54.93
1004	23.0	7.25	3341	18	1.71	-104.0	3000	54.95
1007	23.6	7.24	3481	27	1.52	-123.3	4500	54.95
1010	23.6	7.26	3764	39	1.30	-126.9	6000	54.95
1013	23.6	7.27	3890	31	1.20	-126.9	7500	54.95
1016	23.7	7.27	3930	26	1.18	-126.2	9000	54.95
1019	23.8	7.27	3917	24	1.13	-126.2	10500	54.95
1022	23.8	7.27	3914	21	1.14	-126.0	12000	54.95

Did well dewater? Yes (No) Amount actually evacuated: 12000 mL

Sampling Time: 1025 Sampling Date: 7-25-16

Sample I.D.: SAIA - MW12B Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-QS1	Client: GILBANE
Sampler: QS	Gauging Date: 7-25-16
Well I.D.: SAIA-MW12C	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 114.51	Depth to Water (ft.): 58.12
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO

Purge Method: (2") Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | (New Tubing) | Other ___

Start Purge Time: 1115 Flow Rate: 500 mL/MIN Pump Depth: 112

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
1118	23.1	7.10	3684	59	1.85	-113.3	1500	58.26
1121	23.3	7.09	3705	41	1.80	-114.8	3000	58.26
1124	23.9	7.10	3719	28	1.61	-116.2	4500	58.26
1127	24.2	7.10	3722	25	1.70	-117.5	6000	58.26
1130	24.1	7.11	3707	20	1.61	-117.2	7500	58.26
1133	24.1	7.11	3693	19	1.62	-116.7	9000	58.26
1136	24.2	7.11	3714	19	1.63	-116.8	10500	58.26

Did well dewater? Yes (No) Amount actually evacuated: 10500 mL

Sampling Time: 1138 Sampling Date: 7-25-16

Sample I.D.: SAIA-MW12C Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-Q51	Client: Gilbane
Sampler: DM	Gauging Date: 7-15-16
Well I.D.: SAIA-MW-11A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 79.20	Depth to Water (ft.): 56.40
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI pro plus

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 0810 Flow Rate: 400 ml/min Pump Depth: 68'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0813	22.2	7.18	3804	16	1.60	-121.0	1200	56.61
0816	23.2	7.09	4303	897	0.84	-113.9	2400	56.63
0819	22.7	7.07	4310	848	0.81	-112.1	3600	56.64
0822	22.6	7.08	4327	801	0.78	-112.4	4800	56.65
0825	22.5	7.09	4334	57	0.75	-113.4	6000	56.68
0828	22.6	7.09	4334	41	0.74	-113.9	7200	56.68
0831	22.5	7.09	4337	22	0.71	-116.4	8400	56.70
0834	22.7	7.08	4334	20	0.70	-116.7	9600	56.71
0837	22.5	7.08	4335	20	0.68	-116.9	10800	56.73

Did well dewater? Yes (No) Amount actually evacuated: 10.800

Sampling Time: 0840 Sampling Date: 7-14-16

Sample I.D.: SAIA-MW-11A Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-951	Client: Gilbane
Sampler: DM	Gauging Date: 7-15-16
Well I.D.: SAIA-MW-11B	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 108.01	Depth to Water (ft.): 56.51
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI pro plus

Purge Method: 2" Grundfos Pump (circled) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing (circled) New Tubing (circled) Other ___

Start Purge Time: 0930 Flow Rate: 400 ml/min Pump Depth: 100'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0933	22.0	7.07	2024	38	1.38	-125.1	1200	56.54
0936	22.4	7.10	2109	27	1.24	-128.4	2400	56.58
0939	22.7	7.15	3121	18	0.73	-131.9	3600	56.61
0942	22.7	7.13	3110	10	0.70	-133.8	4800	56.63
0945	22.8	7.15	3127	8	0.48	-135.6	6000	56.65
0948	22.7	7.14	3135	8	0.58	-135.2	7200	56.68
0951	22.7	7.13	3134	6	0.31	-135.9	8400	56.70
0954	22.8	7.14	3140	7	0.31	-135.6	9600	56.73
0957	22.9	7.15	3141	6	0.30	-136.9	10800	56.75

Did well dewater? Yes (No) Amount actually evacuated: 10.8L

Sampling Time: 1000 Sampling Date: 7-15-16

Sample I.D.: SAIA-MW-11B Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-QS1	Client: Gilbane
Sampler: DM	Gauging Date: 7-15-16
Well I.D.: SAIA-MW-11C	Well Diameter (in.): 2 3 4 6 8 ___
Total Well Depth (ft.): 119.31	Depth to Water (ft.): 58.70
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI pro plus

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ____

Start Purge Time: 1050 Flow Rate: 400 ml/min Pump Depth: 100'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1053	23.5	7.11	3397	14	0.79	-131.7	1200	58.75
1056	23.6	7.07	3418	10	0.57	-138.4	2400	58.77
1059	23.7	7.10	3425	8	0.55	-141.5	3600	58.79
1102	23.8	7.13	3881	7	0.51	-143.7	4800	58.81
1105	24.1	7.10	3825	9	0.48	-145.9	6000	58.85
1108	24.1	7.07	3827	8	0.45	-142.7	7200	58.87

Did well dewater? Yes (No) Amount actually evacuated: 7.2 L

Sampling Time: 1110 Sampling Date: 7-15-16

Sample I.D.: SAIA-MW-11C Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-QS1	Client: Gilbane
Sampler: DM	Gauging Date: 7-15-16
Well I.D.: MW-49	Well Diameter (in.): 2 3 4 6 8 ___
Total Well Depth (ft.): 69.90	Depth to Water (ft.): 57.20
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI Aquarius

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump

Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 1248 Flow Rate: 300 ml/min Pump Depth: 65'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1251	23.6	6.98	6029	109	1.10	-133.7	900	57.25
1254	23.7	6.94	6044	87	0.94	-132.2	1800	57.27
1257	24.1	6.94	6170	70	0.19	-116.1	2700	57.31
1300	24.3	6.94	6139	44	0.17	-113.7	3600	57.33
1303	24.1	6.94	6137	42	0.16	-115.5	4500	57.35
1306	24.7	6.94	6140	26	0.16	-116.7	5400	57.35
1309	24.8	6.93	6131	4	0.14	-118.1	6300	57.37
1312	24.8	6.94	6136	8	0.14	-119.7	7200	57.39
1315	24.8	6.95	6138	5	0.14	-119.9	8100	57.41

Did well dewater? Yes (No) Amount actually evacuated: 8.1 L

Sampling Time: 1317 Sampling Date: 7-15-16

Sample I.D.: MW-49 Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.: Dup-MW-49

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-QS1	Client: Gilbane
Sampler: DM	Gauging Date: 7-18-16
Well I.D.: SAEA-MW-10	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 138.20	Depth to Water (ft.): 59.15
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI Prop

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 0755 Flow Rate: 400 ml/min Pump Depth: 135

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0758	21.6	7.11	2727	16	0.49	-24.4	1800	59.18
0801	22.5	7.06	2742	10	0.24	-21.1	2400	59.22
0804	22.6	7.09	2747	8	0.21	-25.7	3600	59.23
0807	22.7	7.10	2749	9	0.20	-26.9	4800	59.24
0810	22.8	7.13	2757	7	0.20	-31.8	6000	59.25
0813	22.9	7.14	2760	8	0.21	-33.4	7200	59.27
0816	22.9	7.15	2769	7	0.20	-34.6	8400	59.29
0819	22.8	7.14	2771	7	0.19	-35.3	9600	59.29

Did well dewater? Yes (No) Amount actually evacuated: 9

Sampling Time: 0820 Sampling Date: 7-18-16

Sample I.D.: SAEA-MW-10 Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-QS1	Client: Gilbane
Sampler: DM	Gauging Date: 7-18-16
Well I.D.: SAIA-MW-9A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 60.20	Depth to Water (ft.): 48.20
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI pro plus

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ___

Start Purge Time: 0915 Flow Rate: 400 ml/min Pump Depth: 58'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0918	23.1	7.12	3039	797	0.25	-92.7	1200	48.22
0921	23.7	7.05	3064	391	0.21	-105.7	2400	48.27
0924	23.7	7.10	3071	129	0.18	-110.6	3600	48.29
0927	23.7	7.04	3126	18	0.23	-109.4	4800	48.31
0930	23.5	7.09	3130	15	0.20	-108.6	6000	48.33
0933	23.7	7.11	3133	4	0.18	-107.4	7200	48.35
0936	23.7	7.11	3138	5	0.15	-109.4	8400	48.37
0939	23.8	7.10	3140	4	0.16	-108.5	9600	48.39

Did well dewater? Yes (No) Amount actually evacuated: 9.6 L

Sampling Time: 0940 Sampling Date: 7-18-16

Sample I.D.: SAIA-MW-9A Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-QS1	Client: Gilbane
Sampler: DM	Gauging Date: 7-18-16
Well I.D.: SAIA-MW-9B	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 77.80	Depth to Water (ft.): 56.20
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI pro plus

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ___

Start Purge Time: 1012 Flow Rate: 300 ml/min Pump Depth: 74'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1015	23.7	7.05	2911	71000	0.37	-84.1	900	56.24
1018	23.8	7.07	2933	951	0.31	-90.7	1800	56.29
1021	23.5	7.10	2947	873	0.33	-91.8	2700	56.31
1024	23.2	7.08	3107	217	0.35	-99.4	3600	56.33
1027	23.2	7.10	3117	84	0.34	-102.7	4500	56.35
1030	23.3	7.12	3189	15	0.32	-109.1	5400	56.36
1033	23.3	7.12	3192	8	0.31	-111.2	6300	56.39
~~1036~~								

Did well dewater? Yes (No) Amount actually evacuated: 6.3L

Sampling Time: 1035 Sampling Date: 7-18-16

Sample I.D.: SAIA-MW-9B Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-QS1	Client: Gilbane
Sampler: DM	Gauging Date: 7-18-16
Well I.D.: SMA-MW-9C	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 104.50	Depth to Water (ft.): 55.93
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI prop

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 1057 Flow Rate: 400 ml/min Pump Depth: 100'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1100	23.4	7.15	3873	10	0.89	-85.0	1200	55.94
1103	22.9	7.10	4188	9	0.11	-87.5	2400	55.94
1106	22.8	7.07	4189	7	0.10	-91.1	3600	55.95
1109	22.9	7.07	4191	8	0.10	-92.7	4800	55.97
1112	22.9	7.07	4193	7	0.09	-93.4	6000	55.97
1115	22.9	7.07	4195	8	0.09	-93.5	7200	55.98

Did well dewater? Yes (No) Amount actually evacuated: 7.2L

Sampling Time: 1120 Sampling Date: 7-18-16

Sample I.D.: SMA-MW-9C Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160718-QS1	Client:
Sampler: DM	Gauging Date: 7-18-16
Well I.D.: MW-56	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 72.30	Depth to Water (ft.): 58.13
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI DO flu

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 1233 Flow Rate: 400 ml/min Pump Depth: 70'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1236	22.9	7.20	1928	84	1.13	-118.1	1200	58.15
1239	23.1	7.18	1910	70	0.98	-120.7	2400	58.17
1242	23.2	7.15	1905	25	0.90	-121.5	3600	58.19
1245	23.3	7.15	1900	10	0.84	-122.8	4800	58.22
1248	23.4	7.17	1894	8	0.83	-124.1	6000	58.22
1251	23.4	7.20	1897	7	0.82	-123.9	7200	58.24

Did well dewater? Yes (No) Amount actually evacuated:

Sampling Time: 1255 Sampling Date:

Sample I.D.: Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-Q57	Client: Gilbane
Sampler: QS	Gauging Date: 7-19-16
Well I.D.: MW-52	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 74.20	Depth to Water (ft.): 57.43
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ___

Start Purge Time: 0843 Flow Rate: 300 mL/min Pump Depth: ___

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
0846	23.2	6.93	3692	78	1.81	-73.9	900	57.48
0849	23.6	6.95	3756	69	1.52	-80.1	1800	57.49
0852	23.8	6.95	3738	41	1.57	-80.9	2700	57.49
0855	24.2	6.95	3807	22	1.57	-84.4	3600	57.49
0858	24.5	6.95	3831	16	1.57	-86.2	4500	57.49
0901	24.6	6.95	3807	14	1.52	-85.4	5400	57.49
0904	24.7	6.95	3821	11	1.53	-85.0	6300	57.49
0907	24.8	6.95	3818	9	1.53	-85.5	7200	57.49

Did well dewater? Yes (No) Amount actually evacuated: 7200 mL

Sampling Time: 0910 Sampling Date: 7-19-16

Sample I.D.: MW-52 Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-QS1	Client: GILBANE
Sampler: QS	Gauging Date: 7-19-16
Well I.D.: MW-46	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 67.10	Depth to Water (ft.): 57.11
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 1051 Flow Rate: 300 mL/min Pump Depth: ___

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1054	24.1	7.21	2509	21	1.97	57.1	900	57.71
1057	24.6	7.20	2477	16	1.75	42.0	1800	57.78
1100	25.1	7.19	2457	12	1.81	29.4	2700	57.78
1103	25.6	7.17	2429	7	1.75	18.1	3600	57.78
1106	25.7	7.17	2395	4	1.77	11.7	4500	57.80
1109	25.8	7.17	2383	4	1.83	6.7	5400	57.81
1112	25.9	7.17	2378	4	1.85	5.6	6300	57.81

Did well dewater? Yes (No)	Amount actually evacuated: 6300 mL
Sampling Time: 1115	Sampling Date: 7-19-16
Sample I.D.: MW-46	Laboratory:
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-Q-1	Client: GILBANE
Sampler: QS	Gauging Date: 7-19-16
Well I.D.: MW-47	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 87.84	Depth to Water (ft.): 58.00
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: PVC Grade	Flow Cell Type: YSI PRO

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ___

Start Purge Time: 1204 Flow Rate: 300 mL/MIN Pump Depth: 82'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1207	25.2	7.26	1640	161	1.74	-51.3	900	58.04
1210	25.7	7.24	1652	101	1.69	-91.2	1800	58.04
1213	24.9	7.24	1684	62	1.78	-101.8	2700	58.04
1216	24.7	7.22	1691	30	1.72	-103.4	3600	58.04
1219	24.7	7.23	1708	28	1.70	-104.0	4500	58.04
1222	25.1	7.22	1730	21	1.70	-105.8	5400	58.04
1225	25.4	7.22	1745	18	1.72	-107.3	6300	58.04
1228	25.4	7.22	1756	18	1.72	-108.4	7200	58.04

Did well dewater? Yes (No) Amount actually evacuated: 7200 mL

Sampling Time: 1230 Sampling Date: 7-19-16

Sample I.D.: MW-47 Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711 -QS1	Client: GILBANE
Sampler: QS	Gauging Date: 7-19-16
Well I.D.: MW-48	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 108.00	Depth to Water (ft.): 57.82
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 1316 Flow Rate: 400 mL/min Pump Depth: 103'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or ~~µS/cm~~)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1319	24.1	7.17	2802	7	1.58	-87.8	1200	57.91
1322	24.3	7.11	2926	5	1.54	-88.6	2400	57.91
1325	24.4	7.08	3033	5	1.61	-95.4	3600	57.98
1328	24.3	7.07	3102	1	1.59	-103.4	4800	57.98
1331	24.4	7.06	3133	1	1.61	-106.2	6000	57.98
1334	24.4	7.06	3203	1	1.77	-17.2	7200	57.98
1337	24.7	7.07	3315	1	1.64	-88.0	8400	57.98
1340	24.9	7.06	3384	1	1.66	-81.5	9600	57.98
1343	25.0	7.06	3475	1	1.67	-82.6	10800	57.98

Did well dewater? Yes (No) Amount actually evacuated: 10800 mL

Sampling Time: 1345 Sampling Date: 7-19-16

Sample I.D.: MW-48 Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-QS1	Client: Gilbane
Sampler: QS	Gauging Date: 7-20-16
Well I.D.: MW-6A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 68.11	Depth to Water (ft.): 56.80
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 0815 Flow Rate: 500 mL/min Pump Depth: 63

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (uS/cm))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
0818	23.8	7.55	1282	617	1.50	-114.5	1500	56.91
0821	24.9	7.55	1281	336	1.38	-127.5	3000	56.94
0824	25.2	7.56	1288	218	1.41	-133.9	4500	56.94
0827	25.2	7.56	1287	152	1.45	-133.9	6000	56.94
0830	25.2	7.56	1291	94	1.43	-134.2	7500	56.94
0833	25.3	7.56	1280	69	1.44	-133.3	9000	56.94
0836	25.3	7.56	1287	50	1.43	-133.1	10500	56.94
0839	25.3	7.56	1286	36	1.46	-133.3	12000	56.94
0842	25.3	7.56	1276	31	1.46	-132.6	13500	56.94
0845	25.3	7.55	1276	23	1.46	-132.3	15000	56.94
0848	25.4	7.56	1289	17	1.46	-131.2	16500	56.94
0851	25.4	7.56	1284	9	1.47	-131.5	18000	56.94

Did well dewater? Yes (No) Amount actually evacuated: 18,000

Sampling Time: 0853 Sampling Date: 7-20-16

Sample I.D.: MW-6A Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-QS1	Client: Bilbane
Sampler: QS	Gauging Date: 7-21-16
Well I.D.: MW-8	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 133.69	Depth to Water (ft.): 61.54
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 0810 Flow Rate: 500 mL/MIN Pump Depth: 130'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or uS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0813	21.5	7.12	2747	318	1.95	+92.4	1500	61.59
0816	21.6	7.13	2800	246	1.59	+88.7	3000	61.62
0819	22.1	7.12	2815	156	1.55	+90.2	4500	61.62
0822	22.1	7.13	2819	115	1.53	+86.7	6000	61.62
0825	22.1	7.13	2802	89	1.56	+82.8	7500	61.62
0828	22.1	7.13	2785	66	1.54	+80.4	9000	61.62
0831	22.2	7.13	2780	55	1.61	+76.0	10500	61.62
0834	22.2	7.13	2756	40	1.60	+73.4	12000	61.62
0837	22.3	7.13	2739	29	1.61	+71.8	13500	61.62
0840	22.3	7.13	2738	18	1.64	+70.9	15000	61.62
0843	22.3	7.13	2715	18	1.64	+70.7	16500	61.62
0846	22.3	7.13	2709	18	1.64	+70.9	18000	61.62

Did well dewater? Yes (No) Amount actually evacuated: 18000 mL

Sampling Time: 0850 Sampling Date: 7-20-16

Sample I.D.: MW-8 Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-EG1	Client: Citizens
Sampler: QS	Gauging Date: 7-20-16
Well I.D.: MW-6B	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 80.65	Depth to Water (ft.): 56.82
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 0926 Flow Rate: 500mL/min Pump Depth: 78'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or ~~uS/cm~~)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ~~mL~~)	Depth to Water (ft.)
0929	23.4	7.21	3841	414	1.22	-120.7	1500mL	56.91
0932	23.7	7.15	4056	262	1.12	-123.2	3000	56.91
0935	24.5	7.15	4059	141	1.12	-122.4	4500	56.91
0938	24.7	7.15	4119	53	1.14	-120.9	6000	56.91
0941	24.7	7.14	4140	29	1.20	-118.4	7500	56.91
0944	24.8	7.14	4140	23	1.13	-117.5	9000	56.94
0947	24.8	7.14	4141	11	1.20	-115.5	10500	56.94
0950	24.9	7.14	4168	8	1.17	-114.5	12000	56.94
0953	24.8	7.15	4153	9	1.18	-112.8	13500	56.94
0956	24.8	7.14	4172	7	1.18	-112.6	15000	56.94

Did well dewater? Yes (No) Amount actually evacuated: 15000

Sampling Time: 0959 Sampling Date: 7/20/16

Sample I.D.: MW-6B Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-Q51	Client: Gilbane
Sampler: QS	Gauging Date: 7-20-16
Well I.D.: MW-6C	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 99.00	Depth to Water (ft.): 57.05
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 1038 Flow Rate: 500 mL/min Pump Depth: 95'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or ~~uS/cm~~)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
1041	24.8	7.16	5028	>1000	1.40	32.5	1500	57.16
1044	24.4	7.11	5018	959	1.01	80.6	3000	57.16
1047	24.5	7.11	5048	584	1.00	80.8	4500	57.16
1050	25.0	7.10	5078	298	1.01	84.6	6000	57.16
1053	25.0	7.10	5104	316	1.08	98.3	7500	57.16
1056	25.1	7.09	5122	408	1.00	102.1	9000	57.18
1059	25.1	7.09	5123	492	0.99	104.2	10500	57.18
1102	25.1	7.09	5122	529	0.97	106.8	12000	57.18
1105	25.1	7.09	5108	533	1.00	109.8	13500	57.18
1108	25.1	7.08	5140	559	0.99	115.7	15000	57.18

Did well dewater? Yes (No) Amount actually evacuated: 15000 mL

Sampling Time: 1110 Sampling Date: 7-20-16

Sample I.D.: MW-6C ~~Laboratory:~~

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-QS1	Client: GILBANE
Sampler: QS	Gauging Date: 7-20-16
Well I.D.: MW-5A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 67.40	Depth to Water (ft.): 56.64
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO

Purge Method: 2" Grundfos (Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated (Tubing) New Tubing Other ____

Start Purge Time: 1235 Flow Rate: 500 mL/min Pump Depth: 63'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (µS/cm))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
1238	24.0	7.01	3314	>1000	1.50	96.7	1500	56.75
1241	25.1	6.98	3375	>1000	1.60	-79.9	3000	56.75
1244	26.0	6.99	3416	521	1.54	-90.8	4500	56.75
1247	26.0	6.99	3420	332	1.50	-95.2	6000	56.75
1250	26.0	6.99	3452	212	1.57	-96.4	7500	56.75
1253	25.7	6.99	3475	148	1.55	-96.5	9000	56.76
1256	25.7	6.99	3464	100	1.60	-96.6	10500	56.76
1259	25.7	7.00	3508	74	1.65	-95.6	12000	56.76
1302	25.7	7.00	3514	51	1.69	-94.4	13500	56.76
1305	25.7	7.00	3520	39	1.64	-96.4	15000	56.76
1308	25.7	7.01	3528	21	1.61	-96.2	16500	56.76
1311	25.7	7.00	3540	9	1.61	-94.3	18000	56.76

Did well dewater? Yes (No) Amount actually evacuated: 18000 mL

Sampling Time: 1313 Sampling Date: 7-20-16

~~Sample I.D.: MW-5A~~ ~~Laboratory:~~

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711 - QS1	Client: GILBANE
Sampler: QS	Gauging Date: 7-11-16
Well I.D.: SAIA - MW7	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 131.90	Depth to Water (ft.): 66.25
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 1236 Flow Rate: 400 mL/MIN Pump Depth: ___

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1239	23.2	7.17	5675	14	1.92	-175.9	1200	66.37
1242	23.1	7.15	5727	16	1.78	-192.5	2400	66.37
1245	23.2	7.13	5768	17	1.94	-202.8	3600	66.38
1248	23.2	7.12	5528	18	1.96	-205.0	4800	66.38
1251	23.4	7.09	5695	22	1.95	-201.2	6000	66.38
1254	23.7	7.07	5686	33	1.97	-193.6	7200	66.38
1257	23.8	7.05	5590	30	1.99	-183.5	8400	66.38
1300	23.8	7.03	5702	27	2.04	-173.0	9600	66.38
1303	23.8	7.02	5805	25	2.11	-164.8	10800	66.38
1306	23.9	7.01	5746	18	2.08	-154.5	12000	66.38
1309	24.0	7.01	5795	18	2.08	-149.4	13200	66.38
1312	24.1	7.00	5667	13	2.09	-141.7	14400	66.38

Did well dewater? Yes (No) Amount actually evacuated:

Sampling Time: Sampling Date: 7-11-16

Sample I.D.: SAIA - MW7 Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-QS1	Client: GWBAE
Sampler: QS	Gauging Date: 7-11-16
Well I.D.: SAFA – MW7 (CONT)	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.):	Depth to Water (ft.):
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type:

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other

Start Purge Time: Flow Rate: Pump Depth:

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1315	24.0	7.00	5738	13	2.08	-140.9	15600	66.38
1318	24.0	7.00	5755	11	2.08	-139.7	16800	66.38

Did well dewater? Yes (No) Amount actually evacuated: 16,800

Sampling Time: 1319 Sampling Date: 7-11-16

~~Sample I.D.: SAFA – MW7~~ ~~Laboratory:~~

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-QS1	Client: GILBANE
Sampler: QS	Gauging Date: 7-11-16
Well I.D.: ~~SATA~~ - MW2B	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 85.50	Depth to Water (ft.): 59.84
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other ____

Start Purge Time: 1020 Flow Rate: 400 mL/MIN Pump Depth: ____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
1023	23.1	7.08	3563	686	1.76	+138.6	1200	59.86
1026	23.7	7.07	3715	478	1.62	+138.7	2400	59.87
1029	24.7	7.07	3629	250	1.66	+136.6	3600	59.88
1032	24.6	7.10	3720	114	1.68	+134.6	4800	59.88
1035	24.6	7.10	3675	69	1.74	+132.9	6000	59.88
1038	24.8	7.10	3677	51	1.74	+132.3	7200	59.88
1041	24.9	7.10	3680	33	1.74	+131.9	8400	59.88
~~1044~~								

Did well dewater? Yes (No) Amount actually evacuated: 8400 mL

Sampling Time: 1046 Sampling Date: 7-11-16

~~Sample I.D.: SATA - MW2B~~ ~~Laboratory:~~

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-Q51	Client: GILBANE
Sampler: QS	Gauging Date: 7-11-16
Well I.D.: ~~SAFA~~ - MW2C	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 105.20	Depth to Water (ft.): 59.95
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO

Purge Method: 2" Grundfos (Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New (Tubing) Other ___

Start Purge Time: 1112 Flow Rate: 400mL/min Pump Depth: 100

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
1115	22.8	7.09	5354	29	1.99	-120.9	1200	59.97
1118	22.8	7.09	5420	22	1.93	-119.1	2400	59.98
1121	23.4	7.09	5606	16	1.83	-118.1	3600	59.98
1124	23.6	7.05	4986	11	1.83	-118.4	4800	59.98
1127	23.9	7.08	5422	7	1.85	-116.7	6000	59.98
1130	24.0	7.08	5603	7	1.83	-116.1	7200	59.98
1133	24.0	7.08	5586	6	1.87	-116.0	8400	59.98

Did well dewater? Yes (No) Amount actually evacuated: 8400

Sampling Time: Sampling Date: 7-11-16

~~Sample I.D.:~~ SAFA - MW2C ~~Laboratory:~~

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-QS1	Client: GILBANE
Sampler: QS	Gauging Date: 7-11-16
Well I.D.: SAIA-MW2A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 65.11	Depth to Water (ft.): 59.85
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ___

Start Purge Time: 0923 Flow Rate: 300 mL/MIN Pump Depth: 62'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
0926	25.4	7.23	1637	218	~~0.58~~ 1.16	-128.3	900	59.86
0929	24.8	7.23	1698	162	1.65	-132.3	1800	59.87
0932	25.2	7.23	1650	99	1.60	-131.4	2700	59.87
0935	26.5	7.24	1643	54	1.73	-130.5	3600	59.87
0938	26.4	7.24	1659	45	1.61	-131.4	4500	59.87
0941	26.6	7.23	1654	31	1.58	-130.2	5400	59.87
0944	26.5	7.23	1653	22	1.56	-130.2	6300	59.87
0947	26.7	7.23	1661	20	1.55	-130.2	7200	59.87

Did well dewater? Yes (No) Amount actually evacuated: 7200 mL

Sampling Time: 0948 Sampling Date: 7-11-16

Sample I.D.: ~~SAIA-MW2A~~ Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-QS1	Client: Gilbane
Sampler: QS	Gauging Date: 7-12-16
Well I.D.: MW-42	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 60.10	Depth to Water (ft.): 59.95
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: ~~YSI~~ PRO

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: (Dedicated Tubing) New Tubing Other ___

Start Purge Time: 0851 Flow Rate: 500 mL/MIN Pump Depth: 64'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (µS/cm))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
0854	24.3	7.11	1740	183	2.10	-60.3	1500	60.~~17~~
0857	25.4	7.10	1740	154	1.94	-68.1	3000	60.~~17~~
0900	25.7	7.08	1722	85	1.84	-75.3	4500	60.12
0903	25.5	7.08	1737	56	1.98	-78.2	6000	60.12
0906	25.4	7.08	1731	42	1.80	-79.9	7500	60.12
0909	25.3	7.08	1739	30	1.76	-82.1	9000	60.12
0912	25.4	7.07	1734	23	1.68	-83.6	10500	60.12
0915	25.5	7.07	1741	14	1.72	-84.0	12000	60.12
0918	25.5	7.07	1750	12	1.72	-84.0	13500	60.12
0921	25.5	7.07	1750	9	1.70	-84.3	15000	60.12

Did well dewater? Yes (No) Amount actually evacuated: 15000 mL

Sampling Time: 0923 Sampling Date: 7-12-16

~~Sample I.D.: MW-42~~ ~~Laboratory:~~

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-851	Client: GILBANE
Sampler: QS	Gauging Date: 7-12-16
Well I.D.: MW-43	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 86.62	Depth to Water (ft.): 59.74
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PCV

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ____

Start Purge Time: 1000 Flow Rate: 500 mL/MIN Pump Depth: 80'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
1003	23.7	7.05	4211	288	1.96	-184.7	1500	59.82
1006	24.4	7.03	4320	249	2.00	-182.5	3000	59.83
1009	24.9	7.02	4326	145	2.05	-193.5	4500	59.83
1012	25.1	7.06	4347	112	2.00	-196.3	6000	59.83
1015	25.4	7.06	4348	82	1.99	-199.6	7500	59.83
1018	25.4	7.06	4377	69	1.94	-200.5	9000	59.83
1021	25.9	7.05	4403	53	1.94	-200.9	10500	59.83
1024	25.7	7.05	4407	37	1.98	-201.1	12000	59.83
1027	25.9	7.05	4422	34	2.04	-200.7	13500	59.83
1030	25.9	7.05	4435	31	2.02	-200.9	15000	59.83

Did well dewater? Yes (No) Amount actually evacuated: 15000 mL

Sampling Time: 1033 Sampling Date: 7-12-16

~~Sample I.D.: MW-43~~ ~~Laboratory:~~

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-QS1	Client: GILBANE
Sampler: QS	Gauging Date: 7-12-16
Well I.D.: MW-44	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 105.30	Depth to Water (ft.): 59.64
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other ___

Start Purge Time: 1104 Flow Rate: 500 mL/min Pump Depth: ___

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1107	23.5	7.08	5078	32	1.12	-120.3	1500	59.74
1110	24.0	7.05	5152	16	1.21	-118.7	3000	59.76
1113	24.3	7.04	5169	14	1.09	-118.0	4500	59.76
1116	24.4	7.04	5188	15	1.05	-117.0	6000	59.76
1119	24.6	7.03	5198	12	0.99	-116.4	7500	59.76
1122	24.6	7.03	5200	12	0.98	-115.9	9000	59.76

Did well dewater? Yes (No) Amount actually evacuated: 9000 mL

Sampling Time: 1123 Sampling Date: 7-12-16

~~Sample I.D.: MW-44~~ ~~Laboratory:~~

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-QS1	Client: Gilbane
Sampler: QS	Gauging Date: 7-12-16
Well I.D.: MW-34	Well Diameter (in.): (2) 3 (4) 6 8 ___
Total Well Depth (ft.): 67.10	Depth to Water (ft.): 58.85
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI #20

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 1211 Flow Rate: 300 mL/MIN Pump Depth: 122'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1214	24.8	7.25	2355	107	2.26	21.9	900	58.96
1217	25.2	7.24	2338	96	2.17	31.0	1800	58.97
1220	25.2	7.23	2382	81	2.11	35.1	2700	58.97
1223	25.2	7.23	2370	70	2.06	37.9	3600	58.97
1226	25.5	7.22	2343	63	2.02	39.3	4500	58.97
1229	25.7	7.23	2364	49	2.05	44.3	5400	58.97
1232	25.7	7.23	2341	39	2.06	47.6	6300	58.97

Did well dewater? Yes (No) Amount actually evacuated: 6300 mL

Sampling Time: 1234 Sampling Date: 7-12-16

~~Sample I.D.: MW-34~~ ~~Laboratory:~~

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-Q51	Client: Gilbane
Sampler: QS	Gauging Date: 7-12-16
Well I.D.: MW-35	Well Diameter (in.): 2 3 (4) 6 8 ___
Total Well Depth (ft.): 104.55	Depth to Water (ft.): 59.05
Depth to Free Product: ~~XXX~~ —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 1305 Flow Rate: 300 mL/min Pump Depth: 100'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1308	23.3	7.06	5210	37	2.24	-119.0	900	59.24
1311	23.1	7.04	5355	54	2.01	-117.0	1800	59.25
1314	23.2	7.02	5611	59	1.96	-115.8	2700	59.25
1317	23.3	7.02	5708	53	1.82	-114.6	3600	59.25
1320	23.4	7.02	5799	53	1.78	-114.5	4500	59.25
1323	23.7	7.01	5839	32	1.83	-114.3	5400	59.25
1326	23.7	7.01	5877	24	1.85	-113.7	6300	59.25
1329	23.8	7.01	5932	19	1.82	-113.2	7200	59.25
1332	23.8	7.01	5924	16	1.84	-113.4	8100	59.25
1335	23.8	7.01	5936	16	1.84	-113.6	9000	59.25

Did well dewater? Yes (No) Amount actually evacuated: 7200 mL

Sampling Time: 1338 Sampling Date: 7-12-16

~~Sample I.D.: MW-35~~ ~~Laboratory:~~

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-QS1	Client: GILBANE
Sampler: QS	Gauging Date: 7-13-16
Well I.D.: MW-32	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 134.34	Depth to Water (ft.): 65.34
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: ~~YSI~~ ~~PRO~~ PLUS

Purge Method: 2" Grundfos Pump (Q) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing (Q) Other ___

Start Purge Time: 0827 Flow Rate: 300 mL/MIN Pump Depth: 102

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (uS/cm))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
0830	22.5	7.06	4206	519	2.25	-130.3	900	65.42
0833	22.6	7.05	4215	390	2.23	-126.2	1800	65.43
0836	22.7	7.05	4231	309	1.99	-124.0	2700	65.43
0839	23.1	7.04	4206	187	1.99	-116.0	3600	65.43
0842	23.3	7.04	4175	133	1.95	-110.5	4500	65.43
0845	23.4	7.04	4165	90	1.95	-105.2	5400	65.43
0848	23.6	7.04	4158	74	1.93	-103.3	6300	65.43
0851	23.6	7.04	4144	48	1.94	-101.0	7200	65.43
0854	23.7	7.04	4135	44	1.92	-98.2	8100	65.43
0857	23.8	7.04	4148	29	1.93	-95.5	9000	65.43
0900	23.8	7.04	4120	25	1.93	-94.9	9900	65.43

Did well dewater? Yes (No) Amount actually evacuated: 9900 mL

Sampling Time: 0901 Sampling Date: 7-13-16

~~Sample I.D.:~~ MW-32 ~~Laboratory:~~

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.: YA784

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-QS1	Client: GILBANE
Sampler: QS	Gauging Date: 7-13-16
Well I.D.: SAIA-MW3A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 67.95	Depth to Water (ft.): 57.80
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other ___

Start Purge Time: 1023 Flow Rate: 300 mL/min Pump Depth: ___

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1026	24.5	7.10	2334	594	1.45	-109.4	900	58.02
1029	25.1	7.08	2337	394	1.43	-112.0	1800	58.03
1032	25.8	7.07	2362	275	1.42	-113.6	2700	58.04
1035	26.1	7.07	2340	192	1.43	-114.4	3600	58.04
1038	26.5	7.06	2342	101	1.43	-115.2	4500	58.04
1041	26.7	7.05	2350	57	1.41	-115.2	5400	58.04
1044	26.6	7.05	2347	43	1.41	-115.1	6300	58.04

Did well dewater? Yes (No) Amount actually evacuated: 6300 mL

Sampling Time: 1045 Sampling Date: 7-13-16

~~Sample I.D.: SAIA-MW3~~ ~~Laboratory:~~

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: We0711-QS1	Client: Gilbane
Sampler: QS	Gauging Date: 7-13-16
Well I.D.: SAIA - MW3B	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 83.51	Depth to Water (ft.): 57.84
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ___

Start Purge Time: 1128 Flow Rate: 300 mL/min Pump Depth: 81'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
1131	23.7	7.32	1489	59	1.44	-115.7	900 mL	59.05
1134	24.3	7.29	1470	47	1.42	-114.3	1800	59.05
1137	24.5	7.28	1494	30	1.47	-115.9	2700	59.07
1140	24.2	7.26	1470	21	1.48	-116.1	3600	59.07
1143	24.4	7.25	1478	18	1.55	-114.1	4500	59.07
1146	25.2	7.25	1483	11	1.49	-114.9	5400	59.07
1149	25.6	7.25	1487	9	1.43	-115.6	6300	59.07
1152	25.9	7.24	1486	7	1.45	-114.6	7200	59.07
1155	25.9	7.24	1490	7	1.43	-114.5	8100	59.07

Did well dewater? Yes (No) Amount actually evacuated: 8100 mL

Sampling Time: 1156 Sampling Date: 7-13-16

~~Sample I.D.: SAIA - MW3B~~ ~~Laboratory:~~

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-Q51	Client: Kilbane
Sampler: QS	Gauging Date: 7-13-16
Well I.D.: SAFA - MW3C	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 105.50	Depth to Water (ft.): 58.04
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ____

Start Purge Time: 1250 Flow Rate: 300 mL/min Pump Depth: ____

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Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1253	24.4	7.06	4057	19	1.98	-132.7	900	58.16
1256	24.5	7.05	4092	20	1.96	-133.9	1800	58.17
1259	24.5	7.06	4173	22	1.96	-140.9	2700	58.17
1302	24.9	7.05	4179	18	1.85	-143.9	3600	58.17
1305	24.9	7.05	4266	15	1.91	-147.3	4500	58.17
1308	25.2	7.05	4291	15	1.87	-148.4	5400	58.17
1311	25.2	7.04	4331	12	1.89	-149.1	6300	58.17
1314	25.1	7.04	4318	10	1.88	-147.0	8200	58.17
1317	25.2	7.04	4350	8	1.87	-145.2	9100	58.17

Did well dewater? Yes (No) Amount actually evacuated: 9100

Sampling Time: 1320 Sampling Date: 7-13-16

~~Sample I.D.: SAFA - MW3C~~ ~~Laboratory:~~

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-QS1	Client: GILBANE
Sampler: QS	Gauging Date: 7-14-16
Well I.D.: MW-1A	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 64.65	Depth to Water (ft.): 60.00
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ___

Start Purge Time: 0910 Flow Rate: 300 mL/min Pump Depth: 63'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0903	23.4	7.27	1360	295	2.01	-48.3	900	60.11
0906	24.2	7.26	1348	296	1.85	-76.8	1800	60.13
0909	25.9	7.27	1334	210	1.64	-88.9	2700	60.14
0912	26.8	7.27	1329	161	1.62	-91.2	3600	60.14
0915	26.8	7.26	1324	128	1.65	-93.0	4500	60.14
0918	27.0	7.26	1321	82	1.64	-93.5	5400	60.14
0921	27.2	7.26	1308	59	1.63	-92.1	6300	60.14
0924	27.6	7.26	1306	54	1.64	-89.5	7200	60.14
0927	27.8	7.26	1307	44	1.65	-86.0	8100	60.14
0930	27.8	7.26	1308	33	1.66	-81.2	9000	60.14

Did well dewater? Yes (No) Amount actually evacuated: 9000 mL

Sampling Time: 0931 Sampling Date: 7-14-16

~~Sample I.D.: MW-1A~~ ~~Laboratory:~~

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-QS1	Client: Gilbane
Sampler: QS	Gauging Date: 7-14-16
Well I.D.: MW-1B	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 85.00	Depth to Water (ft.): 59.95
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing (New Tubing) Other ___

Start Purge Time: 1018 Flow Rate: 500 mL/min Pump Depth: 83

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1021	23.3	7.02	4445	265	1.57	+118.7	1500mL	60.06
1024	23.9	7.00	4482	94	1.65	+120.5	3000	60.08
1027	23.9	6.99	4602	32	1.67	+119.8	4500	60.08
1030	23.8	6.99	4615	20	1.75	+119.4	6000	60.08
1033	24.0	6.99	4625	13	1.86	+120.4	7500	60.09
1036	24.2	6.99	4630	15	1.91	+120.6	9000	60.09
1039	24.4	6.99	4642	13	1.91	+120.1	10500	60.09
1042	24.6	7.00	4647	11	1.90	+120.2	12000	60.09
1045	24.8	7.00	4641	11	1.88	+120.6	13500	60.09
1048	24.8	7.00	4638	10	1.89	+120.3	15000	60.09

Did well dewater? Yes (No) Amount actually evacuated: 15000 mL

Sampling Time: 1050 Sampling Date: 7-14-16

~~Sample I.D.: MW-1B~~ ~~Laboratory:~~

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-QS1	Client: GILBANE
Sampler: QS	Gauging Date: 7-14-16
Well I.D.: MW-1C	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 103.54	Depth to Water (ft.): 60.13
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO

Purge Method: (2" Grundfos Pump) Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing (Other)

Start Purge Time: 1150 Flow Rate: 500 mL/min Pump Depth: 100

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1153	24.3	7.05	5239	94	1.74	-106.4	1500	60.24
1156	23.8	7.04	5257	46	1.72	-107.0	3000	60.24
1159	23.9	7.04	5226	22	1.72	-106.7	4500	60.25
1202	23.9	7.04	5257	16	1.76	-106.0	6000	60.25
1205	23.8	7.04	5306	15	1.74	-105.7	7500	60.25
1208	23.9	7.04	5310	15	1.70	-106.5	9000	60.25
1211	24.0	7.04	5288	12	1.71	-106.6	10500	60.25
1214	24.0	7.04	5309	12	1.75	-106.5	12000	60.25
1217	24.0	7.04	5361	11	1.72	-106.4	13500	60.25
1220	23.9	7.04	5286	10	1.72	-106.4	15000	60.25

Did well dewater? Yes (No) Amount actually evacuated: 15000 mL

Sampling Time: 1221 Sampling Date: 7-14-16

~~Sample I.D.: MW-3C~~ ~~Laboratory:~~

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 160711-051	Client: GILBANE
Sampler: QS	Gauging Date: 7-14-16
Well I.D.: MW-45	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 88.41	Depth to Water (ft.): 58.51
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO PLUS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 1309 Flow Rate: 500 mL/MIN Pump Depth: 87

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1312	23.2	7.13	3133	50	1.63	-113.3	1500	58.61
1315	25.6	7.11	3199	35	1.68	-115.7	3000	58.63
1318	24.5	7.10	3269	23	1.67	-117.1	4500	58.63
1321	24.6	7.10	3286	16	1.67	-117.4	6000	58.63
1324	24.5	7.10	3328	16	1.65	-117.3	7500	58.63
1327	24.6	7.10	3348	13	1.67	-117.7	9000	58.63

Did well dewater? Yes (No) Amount actually evacuated: 9000 mL

Sampling Time: 1328 Sampling Date: 7-14-16

~~Sample I.D.: MW-45~~ ~~Laboratory:~~

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

WELLHEAD INSPECTION CHECKLIST

Client GILBANE Date 7-11-16

Site Address SOUTH GATE, CA

Job Number 160711-QS1 Technician QS

Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12"or less)	WELL IS CLEARLY MARKED WITH THE WORDS "MONITORING WELL" (12"or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
SAIA-MW2A	X	X	X							
SAIA-MW2B	X	X	X							
SAIA-MW2C	X	X	X							
SAIA-MW7	X	X	X							
MW-42	X	X	X							
MW-43	X	X	X							
MW-44	X	X	X							
MW-34	X	X	X							
MW-35	X	X	X							
MW-32	X	X	X							
SAIA-MW3A	X	X	X							
SAIA-MW3B	X	X	X							
SAIA-MW3C	X	X	X							
MW-1A	X	X	X							
MW-1B	X	X	X							
MW-1C	X	X	X							
MW-45	X	X	X							

NOTES:

WELLHEAD INSPECTION CHECKLIST

Client Gilbane Date 7-11-16

Site Address ~~South Gate~~

Job Number 160711-QS1 Technician QS

Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12"or less)	WELL IS CLEARLY MARKED WITH THE WORDS "MONITORING WELL" (12"or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
~~SAIA~~ - MW11A	X	X	X							
~~SAIA~~ - MW11B	X	X	X							
~~SAIA~~ - MW11C	X	X	X							
MW-49	X	X	X							
~~SAIA~~ - MW10	X	X	X							
~~SAIA~~ - MW9A	X	X	X							
~~SAIA~~ - MW9B	X	X	X							
~~SAIA~~ - MW9C	X	X	X							
MW-56	X	X	X							
MW-52	X	X	X							
MW-46	X	X	X							
MW-47	X	X	X							
MW-48	X	X	X							
MW-6A	X	X	X							
MW-6B	X	X	X							
MW-6C	X	X	X							
MW-5A	X	X	X							

NOTES:

WELLHEAD INSPECTION CHECKLIST

Client Gilbane Date 7-25-16

Site Address South Gate

Job Number 160711-QS1 Technician QS

Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12"or less)	WELL IS CLEARLY MARKED WITH THE WORDS "MONITORING WELL" (12"or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-4	X	X	X							
MW-5B	X	X	X							
MW-5C	X	X	X							
SAFA-MW13	X	X	X							
SAFA-MW4A	X	X	X							
SAFA-MW4B	X	X	X							
SAFA-MW4C	X	X	X							
SAFA-MW12A	X	X	X							
SAFA-MW12B	X	X	X							
SAFA-MW12C	X	X	X							

NOTES:

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME				PROJECT NUMBER			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI 556 PRO SERIES	12H100513	7-11-16 0830	PH 7,10,4 COND 3900	7.04, 10.00, 4.01 3900	✓ ✓ ✓ ✓	20.2 °C	QS
			DO 100% ORP 240	100.6 240.4	✓ ✓		
YSI 556 PRO SERIES	12H100513	7/19/16 0745	PH 7,10,4 COND 3900	7.01, 10.0, 4.06 3900	✓ ✓ ✓ ✓	22.1 °C	QS
			DO 100% ORP 240	100.3 240.4			

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MONITORING WELL WATER LEVEL MEASUREMENT FORM

PROJECT NAME: SAIA PROJECT NO.: J163006400

MEASURED BY: Jam Grizzle DATE: 7-26-16

Monitoring Well I.D.	Depth to Water (feet)	Total Well Depth (feet)	Time
MW-15A	60.02		0626
MW-15B	60.14		0627
MW-16	64.72		0628
MW-62A	60.75		1038
MW-62B	60.82		1039
PZ-07A	61.34		1051
PZ-07B	61.42		1049
~~MW-42~~			
MW-41	60.31		1015
MW-42	60.10		1006
MW-43	59.92		1007
MW-44	60.20		1008
MW-24	59.60		1115
SAIA-MW02A	59.92		0950
SAIA-MW02B	60.0		0951
SAIA-MW02C	59.93		0952
SAIA-MW07	66.62		0946
SAIA-MW01A	61.35		0955
SAIA-MW01B	59.94		0956
SAIA-MW01C	60.0		0957

MONITORING WELL WATER LEVEL MEASUREMENT FORM

PROJECT NAME: SAIA PROJECT NO.: JG30064.00

MEASURED BY: Sam Grizzle DATE: 7-26-16

Monitoring Well I.D.	Depth to Water (feet)	Total Well Depth (feet)	Time
MW-25A	59.60		0640
MW-25B	59.62		0639
MW-26	Car on	Well	1118
MW-27	59.72		1108
MW-28	59.85		1107
MW-29	59.10		11.02
MW-29A	58.89		1103
MW-30	60.0		1105
MW-31	59.22		0653
MW-31A	58.64		0655
MW-31B	59.50		0654
MW-32	65.33		0652
MW-34	58.64		0645
MW-35	59.25		0644
MW-45	58.49		0647
MW-36	58.82		0738
MW-37	58.91		0737
MW-55	64.72		0733
MW-38	58.23		0728
MW-39	58.55		0727

MONITORING WELL WATER LEVEL MEASUREMENT FORM

PROJECT NAME: SAIA PROJECT NO.: JIG3006400

MEASURED BY: Sam Grizzle DATE: 7-26-16

Monitoring Well I.D.	Depth to Water (feet)	Total Well Depth (feet)	Time
MW-40	58.45		0726
MW-46	58.14		0718
MW-47	57.93		0716
MW-48	57.95		0717
SAIA-MW03A	58.22		0705
SAIA-MW03B	57.85		0706
SAIA-MW03C	58.65		0707
MW-56	58.14		0742
MW-52	57.50		0745
MW-53	57.50		0746
MW-54	58.22		0747
MW-49	57.33		0757
MW-50	57.45		0758
MW-51	57.48		0759
SAIA-MW04A	57.42		0804
SAIA-MW04B	57.15		0805
SAIA-MW04C	57.02		0806
SAIA-MW08	61.62		1122
SAIA-MW05A	56.65		0820
SAIA-MW05B	56.75		0821

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MONITORING WELL WATER LEVEL MEASUREMENT FORM

PROJECT NAME: SAIA PROJECT NO.: J163006400

MEASURED BY: Sam Grizzle DATE: 7-26-16

Monitoring Well I.D.	Depth to Water (feet)	Total Well Depth (feet)	Time
SAIA-MW05C	56.78		0822
SAIA-MW06A	57.50		0811
SAIA-MW06B	57.00		0812
SAIA-MW06C	57.11		0813
SAIA-MW09A	48.15		0906
SAIA-MW09B	55.82		0907
SAIA-MW09C	55.95		0908
SAIA-MW11A	56.52		0912
SAIA-MW11B	56.5		0913
SAIA-MW11C	58.8		0914
SAIA-MW12A	54.71		0929
SAIA-MW12B	55.11		0930
SAIA-MW12C	56.25		0931
SAIA-MW13	58.38		0932
SAIA-MW10	59.23		0905

59.23

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MONITORING WELL WATER LEVEL MEASUREMENT FORM

PROJECT NAME: JAIA Sept 29, 2016 PROJECT NO.: J163006400

MEASURED BY: Sam Grizzle DATE: C.01.FI03000

Monitoring Well I.D.	Depth to Water (feet)	Total Well Depth (feet)	Time
MW-15	60.23		0739
MW-15B	60.38		0738
MW-16	65.02		0737
MW-62A	61.54		1144
MW-62B	61.60		1145
PZ-07A	61.0		1142
PZ-07B	61.06		1143
MW-41	60.41		0806
MW-42	60.25		0756
MW-43	60.15		0757
MW-44	60.10		0758
MW-24	59.85		0729
SAIA-MW02A	60.30		0750
SAIA-MW02B	60.28		0751
SAIA-MW02C	60.45		0752
SAIA-MW07	NA		
SAIA-MW01A	60.11		0745
SAIA-MW01B	60.22		0746
SAIA-MW01C	60.20		0747
MW-~~25~~ 26	66.22		0728

MONITORING WELL WATER LEVEL MEASUREMENT FORM

PROJECT NAME: SHIA Sept 23, 2016 PROJECT NO.: J163000600

MEASURED BY: Sam Grizzle DATE: _____

Monitoring Well I.D.	Depth to Water (feet)	Total Well Depth (feet)	Time
MW-25A	59.78		0720
MW-25B	59.83		0724
MW-27	59.88		0820
MW-28	60.09		0819
MW-29	59.40		0814
MW-29A	59.10		0813
MW-30	60.09		0815
MW-31	59.53		1137
MW-31A	58.98		1135
MW-31B	59.75		1136
MW-32	65.76		1138
MW-34	59.06		0733
MW-35	59.54		0732
MW-45	58.85		0810
MW-36	59.03		0835
MW-37	59.22		0836
MW-55	64.75		0834
MW-38	58.04		0842
MW-39	58.88		0840
MW-40	58.75		0841

MONITORING WELL WATER LEVEL MEASUREMENT FORM

PROJECT NAME: SAIA Sept 23 2016 PROJECT NO.: J163006400

MEASURED BY: Sam Grizzle DATE: _____

Monitoring Well I.D.	Depth to Water (feet)	Total Well Depth (feet)	Time
MW-46	58.44		0846
MW-47	58.31		0849
MW-48	58.28		0850
SAIA-MW03A	58.38		0856
SAIA-MW03B	58.18		0856
SAIA-MW03C	58.31		0858
~~MW-56~~	~~58.46~~		~~0858/1004~~
MW-52	57.70		0955
MW-53	57.81		0956
MW-54	58.25		0957
MW-49	57.58		0946
MW-50	57.73		0947
MW-51	57.75		0948
SAIA-MW04A	57.42		0936
SAIA-MW04B	57.55		0937
SAIA-MW04C	53.37		0938
SAIA-MW08	61.98		1037
SAIA-MW05A	56.97		1038
SAIA-MW05B	57.04		1039
SAIA-MW05C	57.07		1040

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MONITORING WELL WATER LEVEL MEASUREMENT FORM

PROJECT NAME: SAIA- Sept 23 2016 PROJECT NO.: J163006400

MEASURED BY: Sam Grizzle DATE: _____

Monitoring Well I.D.	Depth to Water (feet)	Total Well Depth (feet)	Time
SAIA-MW06A	57.30		1052
SAIA-MW06B	57.23		1053
SAIA-MW06C	57.33		1054
SAIA-MW09A	48.55		1107
SAIA-MW09B	56.10		1108
SAIA-MW09C	56.27		1109
SAIA-MW11A	56.79		1113
SAIA-MW11B	56.90		1114
SAIA-MW11C	59.18		1115
SAIA-MW12A	55.19		1120
SAIA-MW12B	55.16		1121
SAIA-MW12C	56.48		1122
SAIA-MW13	58.68		1123
SAIA-MW10	59.60		1110
EW-8	60.10		
CPT-2	59.00		0829

ITSI Innovative Technical Solutions, Inc. A Gibbons Company

Daily Activity Report (DAR)

Project Name: SAIA	Page 1 of 1
Project No./Task Code: 07163.0064	Date: 4/1/13
Description of Work: Soil sampling (direct push)	
Visitors / Subcontractors: Gregg Drilling	
Weather: AM - 66°F, partly cloudy PM - 72°F, Sunny	

Description of Field Activities

0700 Arrive @ Seam Masters property. Get access to bldg from Matt. Conduct H&S tailgate meeting.
0720 Set up rig on SB/SG04 location.
0730 Hand auger to first three sample depths (0.5', 2', 5').
0820 Collect sample SAIA-SB/SG04-0.5.
0830 Collect sample SAIA-SB/SG04-2.
0840 Collect sample SAIA-SB/SG04-5.
0850 Collect sample SAIA-SB/SG04-~~25~~ 15.
0900 Collect sample SAIA-SB/SG04-25.
0905 Collect sample SAIA-SB/SG04-35.
0920 Pull out rods. Install soil vapor sampling point @ 5', 15', 25', 35'. Longest tube designates the deepest sample, shortest tube designates shallow sampling point. This convention will be followed for all soil vapor sampling locations.
1020 Set up rig on SB/SG03 location. Collect sample SAIA-SB/SG03-0.5 PID = 75.2 ppm (measured from w/in ziploc bag).
1025 Collect sample SAIA-SB/SG03-2. PID = 98.7 ppm.
1030 Collect sample SAIA-SB/SG03-~~5~~ 3 ~~PID = 25.8 ppm~~ (duplicate sample)
1040 Collect sample SAIA-SB/SG03-5. PID = 25.8 ppm.
1050 Collect sample SAIA-SB/SG03-15.
1055 Collect sample SAIA-SB/SG03-25.
1100 Collect sample SAIA-SB/SG03-35.
1300 Set up rig on SB/SG02 location.
1305 Collect sample SAIA-SB/SG02-0.5. PID = 22.3 ppm
1310 Collect sample SAIA-SB/SG02-2. PID = 32.1 ppm
1330 Collect sample SAIA-SB/SG02-5. PID = 23.2 ppm
1340 Collect sample SAIA-SB/SG02-15.
1400 Collect sample SAIA-SB/SG02-25. No PCB sample collected @ this location.
1410 Collect sample SAIA-SB/SG02-35. No PCB sample collected @ this location.
1420 Acetate sampling sleeves jamming up @ deep sample locations (25' & 35') Not unable to collect sufficient volume for all analyses. No PCBs.
1440 Leave site. Prep samples for shipping.
1630 Drop off samples @ FedEx.

Prepared by: E. Cilfone	Signature:

DAR 031411

ITSI Gilbane

TAILGATE SAFETY MEETING

Date: 4/1/13 Time: 0700 Page: 1 of 1
Customer: US EPA R9 Project: SAIA Contract #: EP-S9-08-03 Proj. #: 07163.0064
Work Description: CPT and groundwater sampling

EMERGENCY PROCEDURES

Emergency Contact: 911 Emergency Number: 911
Hospital/Clinic: St. Francis Medical Center Address: 4264 MLK Blvd, Lynwood, CA
Evacuation Procedures: meet at ITSI field vehicle for head count

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Lynwood Fire Dept	310-603-5270	Jeremy Sawyer	303-858-0965
Don Gruber	916-853-1839		

SITE HAZARDS

Physical Hazards	Chemical Hazards (include chemical products)
equipment/vehicular traffic, drill rig, pinch points, pressurized lines, noise, head/back/eye injuries	TCE, cis-1,2-DCE, 1,4-Dioxane, metals
noise, head/back/eye injuries, slips/trips/falls	

SITE ENTRY REQUIREMENTS

Check-In Procedures: check-in w/ ITSI field lead
Training Requirements: HAZWOPER, hazard communication, 1st Aid/CPR
Minimum PPE Required: Level D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work:
Specific safety issues/work practices:

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Jeff Marifian		GDT			
Darrell Whisler		GDT			

MEETING CONDUCTED BY

Health & Safety Officer: Ed Gillera (Name (printed)) _____ (Signature)
Site Superintendent: _____ (Name (printed)) _____ (Signature)

GREGG DRILLING & TESTING

Project Field Bill

2726 Walnut Avenue, Signal Hill, CA 90755
Ph: (562) 427-6899 Fax: (562) 427-3314
www.greggdrilling.com

Company: ITSI
Site Name: Southern Ave. Industrial
Address: 5211 Southern Ave.
Cross Street:
City: South Gate
State: CA
Field Rep: Ed Gillera

Job Number: D1130085
Task Number: -3
Rate Code: CPT1
Start Date: 4-1-2013
End Date: 4-12-2013
Equipment: DP10
Crew: 4-1-13
Date: Darrell Jeff M

ITEM	UNITS	QUANTITY
RIG NO./TYPE DV10	HOUR	8
MOB-DEMOB-TRAVEL	HOUR	1
PER DIEM	MAN/NGT	
PREMIUM TIME	MAN/HR	
ADDITIONAL TECHNICIAN Jeff M	HOUR	9
STANDBY/MOVE TIME	HOUR	
STEAM CLEANING AT YARD	DAY	
GROUT PUMP/STEAM CLEANER	DAY	
MUD SYSTEM	DAY	
FORKLIFT/BOBCAT/LOADER	DAY	
WATER TRUCK TENDER	DAY	
SERVICE TRUCK	DAY	
SERVICE RUNS	HOUR	
CONST./HAND AUGER CREW (2 men)	HOUR	
CONCRETE CORING DIA.	EACH	
P.P.E. UPGRADE TIME	HOUR	

BORING #	DEPTH	INTERVAL/TYPE OF SAMPLING	SIZE OF WELL
	35	Sample 15,25,35 Ft Probs at 5,15,25,35 Ft	
	35	Sample 15,25,35 Ft Probs at 5,15,25,35 Ft	
	35	Sample 15,25,35 Ft Probs at 5,15,25,35 Ft	

Time Leave Yard: 6:30 am Time Arrive Site: 7:00 am
Time Return Yard: 4:30 pm Time Leave Site: 3:00 pm
Lunch Start: 11:30 am Lunch Finish: 12:00 pm
SUBCONTRACTOR - ADDITIONAL EQUIPMENT:

EQUIPMENT DAMAGE:

WE CAN ASSUME NO RESPONSIBILITY FOR DAMAGE OF UNDERGROUND UTILITIES. In the event of adverse and/or hazardous dilling conditions, client will be informed if rate changes and/or responsibility for replacement of lost of damaged equipment. Minimum call out $1200.

Also applicable to cancellations within 24 hrs. of scheduled start.

USA Clearance No._____

ITEMS	UNITS	QUANTITY
SEISMIC CPT (Interval Test)	TEST	
UVOST RENTAL	DAY	
RESISTIVITY RENTAL	DAY	
BACKFILL TEST LOCATIONS	FOOT	
BENTONITE CHIPS #8 / Med	BAG	2/1
BENTONITE PELLETS	PAIL	
BENTONITE DRILL MUD	BAG	
BENTONITE GROUT	BAG	
FILTER SAND #3	BAG	2
ASPHALT PATCH	BAG	
READY-MIX CONCRETE	BAG	
PORTLAND CEMENT/QUICK SET	BAG	
WOOD PLUGS	EACH	
DISPOSABLE BAILERS	EACH	
PVC CASING 3/4" 2" 4" OTHER	FOOT	
PVC SCREEN 3/4" 2" 4" OTHER	FOOT	
THREADED FITTINGS 3/4" 2" 4" OTHER	EACH	
SLIP FITTINGS 3/4" 2" 4" OTHER	EACH	
LOCKING CAPS 2" 4" OTHER	EACH	
MONITORING WELL BOX (WATERTIGHT)	EACH	
ANODIZED STAND PIPE	EACH	
GROUNDWATER SAMPLE CONSUMABLES	EACH	
(1/4") 1/2" TUBING	FOOT	240 Ft
DISPOSABLE TIPS	EACH	
SAMPLE RINGS & CAPS 1 VS Liners	EACH	9
55-GALLON DRUM	EACH	1
CORE BOXES PET Prob / Plastic caps	EACH	12/12

Section 13751 through 13754 of the California Water Code requires that a report be filed for every groundwater well installation or abandonment. If the client does not elect to submit this report, Gregg Drilling & Testing, Inc. will complete the appropriate paperwork for a $20 fee per well.

Client to complete ☐ GDT to complete ☐

The named parties are hereby notified that if charges for above labor, services, equipment or materials furnished or to be furnished are not paid for in full, the improved property referred to above may be subject to mechanics lien (per Section 1181, et. seq. to the California Code of Civil Procedure) and construction funds are subject to "Stop notice" action (per Section 1190.1, California Code of Civil Procedure).

TERMS: NET 30 days. [redacted]. 1.5% per month finance charge on accounts 30 days past due. The undersigned accepts the terms as stated above for services rendered.

Project Name: SAIA P.O./Task #_____

Signature of Field Representative_____

Printed Name Ed Gillera Date 4/1/13

ITSI Innovative Technical Solutions, Inc. a Gillieva Company

Daily Activity Report (DAR)

Project Name: SAIA	Page (of)
Project No./Task Code: 07163.0064	Date: 4/2/13
Description of Work: Soil sampling (direct push)	
Visitors / Subcontractors: Geoprobe drilling	
Weather: AM - 56°F, cloudy PM - 71°F, Sunny	

Description of Field Activities

0700 Arrive @ Seam Masters property. Conduct H&S tailgate mtg. Set up on SB12 location.
0740 Collect sample SAIA-SB12-0.5 sample. PID = 18.4 ppm (in bag)
0745 Collect sample SAIA-SB12-2 sample. PID = 278.2 ppm (in bag).
0755 Collect sample SAIA-SB12-5 sample. PID = 578.7 ppm (in bag). Set PID in work area (breathing zone height) PID = 0.0 ppm.
0800 Collect sample SAIA-SB12-15 sample.
0810 Collect sample SAIA-SB12-25 sample.
0815 Collect sample SAIA-SB12-35 sample.
0900 ~~Collect~~ Complete soil sampling @ SB12. Move rig over to SG12 location.
0910 Install soil vapor probes @ 5', ~~15'~~, 25', & 35' bgs.
1000 Set up on SB/SG5 location (outside bldg near roll up door on Southern Ave)
1015 Collect sample SAIA-SB5-0.5 sample.
1020 Collect sample SAIA-SB5-2 sample.
1025 Collect sample SAIA-SB5-~~15~~ sample.
1030 Collect sample SAIA-SB5-15 sample.
1040 Collect sample SAIA-SB5-25 sample.
1050 Collect sample SAIA-SB5-35 sample.
1100 Install soil vapor probes for SG5 @ 5', ~~15'~~, 25', & 35' bgs.
1145 Set up on SB/SG7 location.
1220 Collect sample SAIA-SB7-0.5 sample
1225 Collect sample SAIA-SB7-2 sample
1230 Collect sample SAIA-SB7-5 sample.
1240 Collect sample SAIA-SB7-15 sample.
1250 Collect sample SAIA-SB7-25 sample.
1300 Collect sample SAIA-SB7-35 sample.
1315 Install soil vapor probes for SG7 @ 5', 15', 25', & 35' bgs.
1420 Leave site. Prepare samples for shipping.
1600 Drop off samples @ FedEx.

Prepared by: Ed Cillera Signature:

DAR 031411

ITSI Gilbane

TAILGATE SAFETY MEETING

Date: 4/2/13 Time: 0700 Page: 1 of 1
Customer: US EPA R9 Project: SAIA Contract #: EP-S9-08-03 Proj. #: 07163.0064
Work Description: CPT and groundwater sampling

EMERGENCY PROCEDURES

Emergency Contact: 911 Emergency Number: 911
Hospital/Clinic: St. Francis Medical Center Address: 4264 MLK Blvd, Lynwood, CA
Evacuation Procedures: meet at ITSI field vehicle for head count

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Lynwood Fire Dept	310-603-5270	Jeremy Sawyer	303-858-0965
Don Gruber	916-853-1839		

SITE HAZARDS

Physical Hazards	Chemical Hazards (include chemical products)
equipment/vehicular traffic, drill rig, pinch points, pressurized lines, noise, head/back/eye injuries	TCE, cis-1,2-DCE, 1,4-Dioxane, metals
noise, head/back/eye injuries, slips/trips/falls	

SITE ENTRY REQUIREMENTS

Check-In Procedures: check-in w/ ITSI field lead
Training Requirements: HAZWOPER, hazard communication, 1st Aid/CPR
Minimum PPE Required: Level D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work:
Specific safety issues/work practices:

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Jeff Marcham		GDT			
Darrell Whisler		GDT			

MEETING CONDUCTED BY

Health & Safety Officer: Ed Gillera (Name (printed)) _____ (Signature)
Site Superintendent: _____ (Name (printed)) _____ (Signature)

GREGG DRILLING & TESTING

Project Field Bill

2726 Walnut Avenue, Signal Hill, CA 90755
Ph: (562) 427-6899 Fax: (562) 427-3314
www.greggdrilling.com

Company: ITSI
Site Name: Southern Ave. Industrial
Address: 5211 Southern Ave.
Cross Street:
City: South Gate
State: CA
Field Rep: Ed Gillera

Job Number: D1130085
Task Number: -3
Rate Code: CPT1
Start Date: 4-1-2013
End Date: 4-12-2013
Equipment: DP10
Crew: Darrell Jeff + Mo
Date: 4-2-13

ITEM	UNITS	QUANTITY
RIG NO./TYPE DP10	HOUR	3
MOB-DEMOB-TRAVEL	HOUR	1
PER DIEM	MAN/NGT	
PREMIUM TIME	MAN/HR	
ADDITIONAL TECHNICIAN	HOUR	8
STANDBY/MOVE TIME	HOUR	
STEAM CLEANING AT YARD	DAY	
GROUT PUMP/STEAM CLEANER	DAY	
MUD SYSTEM	DAY	
FORKLIFT/BOBCAT/LOADER	DAY	
WATER TRUCK TENDER	DAY	
SERVICE TRUCK	DAY	
SERVICE RUNS	HOUR	
CONST./HAND AUGER CREW (2 men)	HOUR	
CONCRETE CORING DIA.	EACH	
P.P.E. UPGRADE TIME	HOUR	

BORING #	DEPTH	INTERVAL/TYPE OF SAMPLING	SIZE OF WELL
	35	Sample 5, 15, 25, 35 Ft	
	35	Set Probs at 5, 15, 25, 35 Ft	
	35	Sample 5 15 25 35 Ft Probs at 5, 15, 25, 35 Ft	
	35	Sample 5, 15, 25, 35 Ft Probs at 5, 15, 25, 35 Ft	

Time Leave Yard: 6:30 am Time Arrive Site: 7:00 am
Time Return Yard: 2:00 pm Time Leave Site: 1:30 pm
Lunch Start: 11:00 Lunch Finish: 11:30
SUBCONTRACTOR - ADDITIONAL EQUIPMENT:

EQUIPMENT DAMAGE:

WE CAN ASSUME NO RESPONSIBILITY FOR DAMAGE OF UNDERGROUND UTILITIES. In the event of adverse and/or hazardous dilling conditions, client will be informed if rate changes and/or responsibility for replacement of lost of damaged equipment. Minimum call out $1200.

Also applicable to cancellations within 24 hrs. of scheduled start.

USA Clearance No._____

ITEMS	UNITS	QUANTITY
SEISMIC CPT (Interval Test)	TEST	
UVOST RENTAL	DAY	
RESISTIVITY RENTAL	DAY	
BACKFILL TEST LOCATIONS	FOOT	
BENTONITE CHIPS #8 / Med	BAG	2/3
BENTONITE PELLETS	PAIL	
BENTONITE DRILL MUD	BAG	
BENTONITE GROUT	BAG	
FILTER SAND #3	BAG	2
ASPHALT PATCH	BAG	
READY-MIX CONCRETE	BAG	
PORTLAND CEMENT/QUICK SET	BAG	
WOOD PLUGS	EACH	
DISPOSABLE BAILERS	EACH	
PVC CASING 3/4" 2" 4" OTHER	FOOT	
PVC SCREEN 3/4" 2" 4" OTHER	FOOT	
THREADED FITTINGS 3/4" 2" 4" OTHER	EACH	
SLIP FITTINGS 3/4" 2" 4" OTHER	EACH	
LOCKING CAPS 2" 4" OTHER	EACH	
MONITORING WELL BOX (WATERTIGHT)	EACH	
ANODIZED STAND PIPE	EACH	
GROUNDWATER SAMPLE CONSUMABLES	EACH	
1/4" 1/2" TUBING	FOOT	240
DISPOSABLE TIPS	EACH	
SAMPLE RINGS & CAPS Macro Liners	EACH	8
55-GALLON DRUM	EACH	
CORE BOXES Pet / Plastic caps	EACH	12/12

Section 13751 through 13754 of the California Water Code requires that a report be filed for every groundwater well installation or abandonment. If the client does not elect to submit this report, Gregg Drilling & Testing, Inc. will complete the appropriate paperwork for a $20 fee per well.

Client to complete ☐ GDT to complete ☐

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TERMS: NET 30 days. [redacted]. 1.5% per month finance charge on accounts 30 days past due. The undersigned accepts the terms as stated above for services rendered.

Project Name: SAIA P.O./Task #_____

Signature of Field Representative_____

Printed Name Ed Gillera Date 4/2/13

ITSI Innovative Technical Solutions, Inc. A Gibbons Company

Daily Activity Report (DAR)

Project Name: SAIA

Page 1 of 1

Project No./Task Code: 07163.0064

Date: 4/3/13

Description of Work: Soil sampling (direct push)

Visitors / Subcontractors: Gregg Drilling

Weather: AM - 55°F, cloudy PM - 68°F, Sunny

Description of Field Activities

0700 Arrive @ Seam Masters property. Conduct A&S tailgate meeting. Set up on SB/SGB.
0745 Collect sample SAIA-SB/SGB-0.5.
0755 Collect sample SAIA-SB/SGB-2
0800 Collect sample SAIA-SB/SGB-5.
0805 Collect sample SAIA-SB/SGB-6 (duplicate)
0815 Collect sample SAIA-SB/SGB-15.
0825 Collect sample SAIA-SB/SGB-25.
0835 Collect sample SAIA-SB/SGB-35.
0850 Install soil vapor probes for SGB @ 5', 15', 25', & 35' bgs.
0905 Set up on SB/SG6 location.
0910 Collect sample SAIA-SB/SG6-0.5.
0915 Collect sample SAIA-SB/SG6-2.
0920 Collect sample SAIA-SB/SG6-5.
0930 Collect sample SAIA-SB/SG6-15
0940 Collect sample SAIA-SB/SG6-25.
0950 Collect sample SAIA-SB/SG6-35.
1005 Install soil vapor probes for SG6 @ 5', 15', 25', & 35' bgs.
1040 Set up on SB/SG11 location (northwest corner of Seam Masters property, inside pallet company boundary).
1120 Collect sample SAIA-SB/SG11-0.5
1125 Collect sample SAIA-SB/SG11-2
1130 Collect sample SAIA-SB/SG11-5
1135 Collect sample SAIA-SB/SG11-6 (duplicate)
1145 Collect sample SAIA-SB/SG11-15.
1155 Collect sample SAIA-SB/SG11-25.
1205 Collect sample SAIA-SB/SG11-35.
1220 Install soil vapor probes for SG11 @ 5', 15', 25', & 35'.
1250 Leave site. Prepare samples for shipping.
1530 Drop off samples @ Fedex.

Prepared by: E. Gilfus

Signature:

DAR 031411

ITSI Gilbane

TAILGATE SAFETY MEETING

Date: 4/3/13 Time: 0700 Page: 1 of 1
Customer: US EPA R9 Project: SAIA Contract #: EP-S9-08-03 Proj. #: 07163.0064
Work Description: CPT and groundwater sampling

EMERGENCY PROCEDURES

Emergency Contact: 911 Emergency Number: 911
Hospital/Clinic: St. Francis Medical Center Address: 4264 MLK Blvd, Lynwood, CA
Evacuation Procedures: meet at ITSI field vehicle for head count

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Lynwood Fire Dept	310-603-5270	Jeremy Sawyer	303-858-0965
Don Gruber	916-853-1839		

SITE HAZARDS

Physical Hazards	Chemical Hazards (include chemical products)
equipment/vehicular traffic, drill rig, pinch points, pressurized lines, noise, head/back/eye injuries	TCE, cis-1,2-DCE, 1,4-Dioxane, metals
noise, head/back/eye injuries, slips/trips/falls	

SITE ENTRY REQUIREMENTS

Check-In Procedures: check-in w/ ITSI field lead
Training Requirements: HAZWOPER, hazard communication, 1st Aid/CPR
Minimum PPE Required: Level D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work:
Specific safety issues/work practices:

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Jeff Marcham		GDI			
Darrell Whisler		GDI			

MEETING CONDUCTED BY

Health & Safety Officer: Ed Gillera (Name (printed)) _____ (Signature)
Site Superintendent: _____ (Name (printed)) _____ (Signature)

GREGG DRILLING & TESTING

Project Field Bill

2726 Walnut Avenue, Signal Hill, CA 90755
Ph: (562) 427-6899 Fax: (562) 427-3314
www.greggdrilling.com

Company: ITSI
Site Name: Southern Ave. Industrial
Address: 5211 Southern Ave.
Cross Street:
City: South Gate
State: CA
Field Rep: Ed Gillera

Job Number: D1130085
Task Number: -3
Rate Code: CPT1
Start Date: 4-1-2013
End Date: 4-12-2013
Equipment: DP10
Crew: Darrell Jeff M
Date: 4-2-13

ITEM	UNITS	QUANTITY
RIG NO./TYPE DP10	HOUR	6
MOB-DEMOB-TRAVEL	HOUR	1
PER DIEM	MAN/NGT	
PREMIUM TIME	MAN/HR	
ADDITIONAL TECHNICIAN	HOUR	7
STANDBY/MOVE TIME	HOUR	
STEAM CLEANING AT YARD	DAY	
GROUT PUMP/STEAM CLEANER	DAY	
MUD SYSTEM	DAY	
FORKLIFT/BOBCAT/LOADER	DAY	
WATER TRUCK TENDER	DAY	
SERVICE TRUCK	DAY	
SERVICE RUNS	HOUR	
CONST./HAND AUGER CREW (2 men)	HOUR	
CONCRETE CORING DIA.	EACH	
P.P.E. UPGRADE TIME	HOUR	

BORING #	DEPTH	INTERVAL/TYPE OF SAMPLING	SIZE OF WELL
	35	Sample 15,25,35Ft Probe at 5,15,25,35Ft	
	35	Sample 15,25,35Ft Probe at 5,15,25,35Ft	
	35	Sample 15,25,35 Ft Probe at 5,15,25,35Ft	

Time Leave Yard: 6:30am Time Arrive Site: 7:00am
Time Return Yard: 1:30pm Time Leave Site: 1:00pm
Lunch Start: Lunch Finish:
SUBCONTRACTOR - ADDITIONAL EQUIPMENT:
EQUIPMENT DAMAGE:

ITEMS	UNITS	QUANTITY
SEISMIC CPT (Interval Test)	TEST	
UVOST RENTAL	DAY	
RESISTIVITY RENTAL	DAY	
BACKFILL TEST LOCATIONS	FOOT	
BENTONITE CHIPS #8 / Med	BAG	1/2
BENTONITE PELLETS	PAIL	
BENTONITE DRILL MUD	BAG	
BENTONITE GROUT	BAG	
FILTER SAND #3	BAG	2
ASPHALT PATCH	BAG	
READY-MIX CONCRETE	BAG	
PORTLAND CEMENT/QUICK SET	BAG	
WOOD PLUGS	EACH	
DISPOSABLE BAILERS	EACH	
PVC CASING 3/4" 2" 4" OTHER	FOOT	
PVC SCREEN 3/4" 2" 4" OTHER	FOOT	
THREADED FITTINGS 3/4" 2" 4" OTHER	EACH	
SLIP FITTINGS 3/4" 2" 4" OTHER	EACH	
LOCKING CAPS 2" 4" OTHER	EACH	
MONITORING WELL BOX (WATERTIGHT)	EACH	
ANODIZED STAND PIPE	EACH	
GROUNDWATER SAMPLE CONSUMABLES	EACH	
1/4" 1/2" TUBING	FOOT	240
DISPOSABLE TIPS	EACH	
SAMPLE RINGS & CAPS Macro Liners	EACH	9
55-GALLON DRUM	EACH	
CORE BOXES Pot Probes / Plastibit	EACH	12/12

Section 13751 through 13754 of the California Water Code requires that a report be filed for every groundwater well installation or abandonment. If the client does not elect to submit this report, Gregg Drilling & Testing, Inc. will complete the appropriate paperwork for a $20 fee per well.

Client to complete ☐ GDT to complete ☐

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TERMS: NET 30 days. [redacted] 1.5% per month finance charge on accounts 30 days past due. The undersigned accepts the terms as stated above for services rendered.

Project Name: SAJA P.O./Task #

Signature of Field Representative

Printed Name Ed Gillera Date 4/3/13

WE CAN ASSUME NO RESPONSIBILITY FOR DAMAGE OF UNDERGROUND UTILITIES. In the event of adverse and/or hazardous dilling conditions, client will be informed if rate changes and/or responsibility for replacement of lost of damaged equipment. Minimum call out $1200.

Also applicable to cancellations within 24 hrs. of scheduled start.

USA Clearance No.

ITSI Innovative Technical Solutions, Inc. A Gilbane Company

Daily Activity Report (DAR)

Project Name: SAIA	Page 1 of 1
Project No./Task Code: 07163.0064	Date: 4/4/13
Description of Work: soil sampling (direct push)	
Visitors / Subcontractors: Gregg Drilling	
Weather: AM - 60°F, overcast/cloudy PM - 68°F, partly cloudy	

Description of Field Activities

0700 Arrive @ Reliable Steel property. Conduct H&S mtg.
0715 Sample locations covered w/ metal sheets & other debris. Wait for items to be moved w/ forklift.
0750 Set up on JW-SB/SG3 location.
0800 Collect JW-SB/SG3-5 sample (& duplicate JW-SB/SG3-6)
0815 Collect JW-SB/SG3-15 sample
0825 Collect JW-SB/SG3-25 sample.
0835 Collect JW-SB/SG3-35 sample.
0850 Install vapor probes for JW-SG3 @ 5', 15', 25', & 35' bgs.
0915 Set up on JW-SB/SG4 location.
0930 Collect JW-SB/SG4-5 sample
0935 Collect JW-SB/SG4-15 sample
0945 Collect JW-SB/SG4-25 sample.
0950 Collect JW-SB/SG4-35 sample.
1035 Install vapor probes for JW-SG4 @ 5', 15', 25', & 35' bgs.
1143 SET up on JW-SB/SG5 location.
1200 Collect sample JW-SB/SG5-5
1205 Collect sample JW-SB/SG5-15
1210 Collect sample JW-SB/SG5-25.
1220 Collect sample JW-SB/SG5-35.
1300 Install vapor probes for JW-SG5 @ 5', 15', 25', & 35' bgs.
1340 Set up on JW-SB/SG6 location.
1355 Collect sample JW-SB/SG6-5.
1400 Collect sample JW-SB/SG6-4 (duplicate).
1405 Collect sample JW-SB/SG6-15.
1415 Collect sample JW-SB/SG6-25.
1425 Collect sample JW-SB/SG6-35.
1510 Leave site. Prepare samples for shipping.
1600 Drop off samples @ FedEx.

Prepared by: E. Gilteva	Signature:

DAR 031411

ITSI Gilbane

TAILGATE SAFETY MEETING

Date: 4/4/13 Time: 0700 Page: 1 of 1
Customer: US EPA R9 Project: SAIA Contract #: EP-S9-08-03 Proj. #: 07163.0064
Work Description: CPT and groundwater sampling

EMERGENCY PROCEDURES

Emergency Contact: 911 Emergency Number: 911
Hospital/Clinic: St. Francis Medical Center Address: 4264 MLK Blvd, Lynwood, CA
Evacuation Procedures: meet at ITSI field vehicle for head count

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Lynwood Fire Dept	310-603-5270	Jeremy Sawyer	303-858-0965
Don Gruber	916-853-1839		

SITE HAZARDS

Physical Hazards	Chemical Hazards (include chemical products)
equipment/vehicular traffic, drill rig, pinch points, pressurized lines, noise, head/back/eye injuries	TCE, cis-1,2-DCE, 1,4-Dioxane, metals
noise, head/back/eye injuries, slips/trips/falls	

SITE ENTRY REQUIREMENTS

Check-In Procedures: check-in w/ ITSI field lead
Training Requirements: HAZWOPER, hazard communication, 1st Aid/CPR
Minimum PPE Required: Level D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work:
Specific safety issues/work practices:

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
[illegible]	[signature]	GSI			
Darrell Whisler	[signature]	GSI			

MEETING CONDUCTED BY

Health & Safety Officer: Ed Gillera (Name printed) [signature] (Signature)
Site Superintendent: _____ (Name printed) _____ (Signature)

ITSI Innovative Technical Solutions, Inc.

Daily Activity Report (DAR)

Project Name: SAIA

Page 1 of 1

Project No./Task Code: 07163.0004

Date: 04/08/13

Description of Work: vapor probe installation, soil vapor sampling

Visitors / Subcontractors: Gregg Drilling, H&P

Weather: AM- partly cloudy, 60°F, wind gust PM- clear, 66°F

Description of Field Activities

0700 Arrive @ Seam Masters property. Conduct H&S briefing.
0730 Set up direct push rig on SAIA-SG13 location. Put up traffic control measures.
0800 H&P mobile lab arrive onsite. Conduct H&S briefing w/ H&P staff.
0820 Set up on SAIA-SG4 to conduct purge vol tests.
0915 Complete installation of vapor probes @ SG13. Move rig over to SG14 location.
1040 Complete installation of vapor probes @ SG14. Mover rig over to SG16 location (alley between Southern & McCallum).
1135 Complete installation of vapor probes @ SG16. Move rig to next location - SG15
1200 Three purge volumes conducted @ each sample depth (1, 3, 5, 10 PVT)
1330 Complete installation of vapor probes @ SG15.
1415 Pulling a vacuum @ the 15' ~~from the~~ sample depth. Suspect a tighter (clay) layer in that zone. Continue running purge volume test for 25' & 35' sample depths
1615 Elevated levels of PCE & TCE detected during PVT on 35' location. Require further dilution to complete tests. Will continue purge test on following day.
1630 Secure area & leave site.

Prepared by: E. Gilkey

Signature:

DAR 031411

ITSI Gilbane

TAILGATE SAFETY MEETING

Date: 0700 Time: 0700 Page: 1 of 1
Customer: US EPA R9 Project: SAIA Contract #: EP-S9-08-03 Proj. #: 07163.0064
Work Description: CPT and groundwater sampling

EMERGENCY PROCEDURES

Emergency Contact: 911 Emergency Number: 911
Hospital/Clinic: St. Francis Medical Center Address: 4264 MLK Blvd, Lynwood, CA
Evacuation Procedures: meet at ITSI field vehicle for head count

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Lynwood Fire Dept	310-603-5270	Jeremy Sawyer	303-858-0965
Don Gruber	916-853-1839		

SITE HAZARDS

Physical Hazards	Chemical Hazards (include chemical products)
equipment/vehicular traffic, drill rig, pinch points, pressurized lines, noise, head/back/eye injuries	TCE, cis-1,2-DCE, 1,4-Dioxane, metals
noise, head/back/eye injuries, slips/trips/falls	

SITE ENTRY REQUIREMENTS

Check-In Procedures: check-in w/ ITSI field lead
Training Requirements: HAZWOPER, hazard communication, 1st Aid/CPR
Minimum PPE Required: Level D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work:
Specific safety issues/work practices:

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Jeff Marfin		GDT			
Darrell Whisler		GDT			
Troy Taylor		H&P			
Marcia Montemayor		H+P			

MEETING CONDUCTED BY

Health & Safety Officer: Ed Gillera (Name printed) _____ (Signature)
Site Superintendent: _____ (Name printed) _____ (Signature)

Innovative Technical Solutions, Inc.
A Gilbane Company

Daily Activity Report (DAR)

Project Name: SAIA

Page 1 of 1

Project No./Task Code: 07163.0004

Date: 4/9/13

Description of Work: soil sampling, soil vapor sampling

Visitors / Subcontractors: Gregg Drilling, H&P

Weather: AM - 60°F, clear

Description of Field Activities

0700 Arrive @ Seam Masters property. Conduct H&S meeting.
0730 Arrive @ United Motor Club property. Set up on 5th JW-SB/SG1 location.
0740 Collect sample JW-SB/SG01-5.
0745 Collect sample JW-SB/SG01-6.
0755 Collect sample JW-SB/SG01-15
0805 Collect sample JW-SB/SG01-25.
0815 Collect sample JW-SB/SG01-35.
0830 Install vapor probes for JW-SG1 @ 5', 15', 25', 35' bgs.
0850 Complete installation @ 5th JW-SG1. Move rig & set up on JW-SB/SG2 location.
0900 Collect sample JW-SB/SG02-5.
0910 Collect sample JW-SB/SG02-15.
0920 Collect sample JW-SB/SG02-25
0930 Collect sample JW-SB/SG02-35.
0945 Install vapor probes for JW-SG2 @ 5', 15', 25', 35' bgs.
1020 Complete installation @ JW-SG2. Leave site.
1030 Arrive @ SAIA-SG17 location (5230 McCallum Ave). Set up rig.
1245 Complete installation @ SAIA-SG17. Vapor probes set @ 5', 15', 25', 35' bgs
1320 Arrive @ ELG Metals property. Set up on SAIA-SG18 location (adjacent to MW-8).
1446 Collect sample SAIA-SG14-D15-E0413. Pressure in canister (1586E) prior to sampling = -28" Hg. Pressure after = 0" Hg.
1545 Leave site.

Prepared by: E. Gilkey

Signature:

DAR 031411

ITSI Innovative Technical Solutions, Inc. A Gilbane Company

Daily Activity Report (DAR)

Project Name: SAIA	Page 1 of 1
Project No./Task Code: 07163.0004	Date: 4/10/13
Description of Work: soil vapor sampling	
Visitors / Subcontractors: H&P	
Weather: AM - 55°F, Clear	

Description of Field Activities

0700 Arrive @ Seam Masters Property. Conduct H&S meeting.
0715 Set up @ SAIA-SG10 location. High concentrations suspected @ this location. An undiluted sample will be run from this location.
0730 Begin purging.
0900 Collect split sample SAIA-SG10-D15-E0413.
1020 Set up @ SAIA-SG09 location. Begin purging.
1035 Due to suspected high concentrations at this location, samples will be diluted prior to analysis.
1146 Set up on SAIA-SG03 location. Begin purging.
1245 Collect split sample SAIA-SG09-D35-E0413.
1430 Begin collecting samples for SAIA-SG03.
1500 Drawing a vacuum @ SAIA-SG03 (15') location. Purge @ ~50 mL/min.
1525 Vacuum still present @ SG03-D15'. Allow hole to re-equilibrate. Will resume purging the following day.
1540 Complete sampling for SAIA-SG03 (5', 25'). 15' & 35' samples to be collected the following day.
1600 Secure site and leave area.

Prepared by: E. Gillera | Signature:

DAR 031411

ITSI Gilbane

TAILGATE SAFETY MEETING

Date: 4/10/13 Time: 0700 Page: 1 of 1
Customer: US EPA R9 Project: SAIA Contract #: EP-S9-08-03 Proj. #: 07163.0064
Work Description: CPT and groundwater sampling

EMERGENCY PROCEDURES

Emergency Contact: 911 Emergency Number: 911
Hospital/Clinic: St. Francis Medical Center Address: 4264 MLK Blvd, Lynwood, CA
Evacuation Procedures: meet at ITSI field vehicle for head count

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Lynwood Fire Dept	310-603-5270	Jeremy Sawyer	303-858-0965
Don Gruber	916-853-1839		

SITE HAZARDS

Physical Hazards	Chemical Hazards (include chemical products)
equipment/vehicular traffic, drill rig, pinch points, pressurized lines, noise, head/back/eye injuries	TCE, cis-1,2-DCE, 1,4-Dioxane, metals
noise, head/back/eye injuries, slips/trips/falls	

SITE ENTRY REQUIREMENTS

Check-In Procedures: check-in w/ ITSI field lead
Training Requirements: HAZWOPER, hazard communication, 1st Aid/CPR
Minimum PPE Required: Level D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work:
Specific safety issues/work practices:

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Marcial Martemayor		H+P			
Troy Taylor		H&P			

MEETING CONDUCTED BY

Health & Safety Officer: Ed Gillera (Name (printed)) _____ (Signature)
Site Superintendent: _____ (Name (printed)) _____ (Signature)

ITSI Innovative Technical Solutions, Inc. A Gilbane Company

SUMMA Canister ~~Ambient~~ Sample Collection Log

Project No./Task Code: ~~Solar~~ 07163.0064	Date: 4/10/13
Project Name: SAIA	Field Crew: E. Gillera, T. Taylor
Location ID: SAIA-SG10	Sample ID: SAIA-SG10-DIS-E0413
Site ID:	Event ID:

Sample Location

Northing:	Easting:	Height:
33° 56' 46.9" N	118° 10' 37.2" W	—

Sampling System

Canister Serial No.: 1555E	Location Sketch:
Canister Certification Date: 12/14/12	
Canister Leak Check Date: na	
Flow Controller Serial No.: na	

Sampling Log

Parameter	Start	Stop
Time	0900	0905
Canister Pressure (in Hg)	-28	0
Ambient Temperature	54° F	54° F
Flow Rate (mL/min)	n/a	n/a

Weather Conditions:

54°F, clear, wind = 0 mph, 77% humidity.

Observations and Comments:

High concentrations suspected @ this location. Sump & secondary containment ~~located~~ adjacent to sample location. Sample located indoor.

Laboratory Analytical Method(s):

TO-15

Sampler's Printed Name: Ed Gillera	Sampler's Signature:

ITSI Innovative Technical Solutions, Inc. A Gilbane Company

SUMMA Canister ~~Ambient~~ Sample Collection Log

Project No./Task Code: 07163.0064	Date: 4/10/13
Project Name: SAIA	Field Crew: E. Gillera, T. Taylor
Location ID: SAIA-SG09	Sample ID: SAIA-SG09-D35-E0413
Site ID:	Event ID:

Sample Location

Northing:	Easting:	Height:
33°54'46.8"N	118°10'37.1"W	—

Sampling System

Canister Serial No.: 1587E	Location Sketch:
Canister Certification Date: 12/14/12	
Canister Leak Check Date: n/a	
Flow Controller Serial No.: n/a	

Sampling Log

Parameter	Start	Stop
Time	1245	1250
Canister Pressure (in Hg)	-28	0
Ambient Temperature	68°F	68°F
Flow Rate (mL/min)	n/a	n/a

Weather Conditions:

68°F, clear, wind = 0 mph, 40% humidity

Observations and Comments:

High concentrations suspected @ this location. Svmp located approx. 2' south of sample location. Sample located indoors.

Laboratory Analytical Method(s):

TO-15

Sampler's Printed Name: E. Gillera	Sampler's ~~Signature~~:

ITSI Innovative Technical Solutions, Inc. A Gilbane Company

Daily Activity Report (DAR)

Project Name: SAIA	Page 1 of 1
Project No./Task Code: 07163.0004	Date: 9/11/13
Description of Work: soil vapor sampling	
Visitors / Subcontractors: H&P	
Weather: AM- 59°F, clear PM- 75°, clear/sunny	

Description of Field Activities

0700 Arrive @ Scam Masters property. Meet H&P staff. Conduct H+S tailgate mtg.
0720 Set up on SG03 location. Begin purge for 15' & 35' sample depths.
0800 Complete purge @ SG03. Set up on SG04 location & begin purge.
0820 Finish sampling @ SG03 locations.
1010 Set up on SG02 location & start purge.
1120 Finish sampling @ SG04 location.
1200 Complete purge @ SG02 location. Set up on SG12 location and start purge.
1201 Collect sample SAIA-SG02-DOS-E0413.
1410 Finish sampling @ SG02 location.
1515 Start sampling @ SG12 location (5' location).
1550 Secure area & leave site.

Prepared by: E. Gillera

Signature:

DAR 031411

ITSI Gilbane

TAILGATE SAFETY MEETING

Date: 4/11/13 Time: 0700 Page: 1 of 1
Customer: US EPA R9 Project: SAIA Contract #: EP-S9-08-03 Proj. #: 07163.0064
Work Description: CPT and groundwater sampling

EMERGENCY PROCEDURES

Emergency Contact: 911 Emergency Number: 911
Hospital/Clinic: St. Francis Medical Center Address: 4264 MLK Blvd, Lynwood, CA
Evacuation Procedures: meet at ITSI field vehicle for head count

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Lynwood Fire Dept	310-603-5270	Jeremy Sawyer	303-858-0965
Don Gruber	916-853-1839		

SITE HAZARDS

Physical Hazards	Chemical Hazards (include chemical products)
equipment/vehicular traffic, drill rig, pinch points, pressurized lines, noise, head/back/eye injuries	TCE, cis-1,2-DCE, 1,4-Dioxane, metals
noise, head/back/eye injuries, slips/trips/falls	

SITE ENTRY REQUIREMENTS

Check-In Procedures: check-in w/ ITSI field lead
Training Requirements: HAZWOPER, hazard communication, 1st Aid/CPR
Minimum PPE Required: Level D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work:
Specific safety issues/work practices:

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Marcial Montemayor		H+P			
Troy Taylor		H+P			

MEETING CONDUCTED BY

Health & Safety Officer: Ed Gillera (Name (printed)) _____ (Signature)
Site Superintendent: _____ (Name (printed)) _____ (Signature)

ITSI Innovative Technical Solutions, Inc. A CB Group Company

SUMMA Canister ~~Ambient~~ Sample Collection Log

Project No./Task Code: 07163.0064	Date: 4/11/13
Project Name: SAIA	Field Crew: E. Gillera, T. Taylor
Location ID: SAIA-SG02	Sample ID: SAIA-SG02-D05-E0413
Site ID: n/a	Event ID: n/a

Sample Location

Northing: 47.4 33°56'46.9" N	Easting: 118°10'38.4" W	Height: n/a

Sampling System

Canister Serial No.: 1588E	Location Sketch:
Canister Certification Date: 12/14/12	
Canister Leak Check Date: n/a	
Flow Controller Serial No.: n/a	

Sampling Log

Parameter	Start	Stop
Time	1201	1206
Canister Pressure (in Hg)	-28	0
Ambient Temperature	66°F	66°F
Flow Rate (mL/min)	n/a	n/a

Weather Conditions:
66°F, clear, wind 6 mph E, 45% humidity

Observations and Comments:

Laboratory Analytical Method(s):
TO-15

Sampler's Printed Name: Ed Gillera	Sampler's Signature:

ITSI Innovative Technical Solutions, Inc. A CDM Smith Company

Daily Activity Report (DAR)

Project Name: SAIA

Page 1 of 1

Project No./Task Code: 07163.0064

Date: 4/12/13

Description of Work: soil vapor sampling

Visitors / Subcontractors: H&P

Weather: AM - 60°F, cloudy/overcast PM - 68°F, Partly cloudy

Description of Field Activities

0700 Arrive @ Seam Masters property. Meet H&P staff. Conduct H&S briefing.
0715 Set up on SG12 and start purging.
0725 Collect SG12-D15 sample
0820 Set up on SG01 and start purging.
0835 Collect SG12-D25 sample.
0905 Collect SG12-D35 sample. Complete purging @ SG01 location.
0925 Collect SG01-D05 sample.
1004 Set up on SG17 location (5230 McCallum). Start purging.
1005 Collect SG01-D15 sample.
1705 Collect SG01-D25 sample.
1210 Collect SG01-D35 sample. Complete sampling for SG01.
1230 Collect SG17-D05 sample
1240 Set up on SG16 location (Alley btw Southern & McCallum). Start purging.
1300 Collect sample SG17-D15 sample.
1326 Collect sample SG17-D25 sample.
1355 Collect sample SG17-D35 sample. Complete sampling for SG17.
1415 Collect sample SG16-D05 sample.
1503 Collect sample SG16-D15 sample.
1540 Secure area, leave site.

Prepared by: E. Gilera

Signature:

DAR 031411

ITSI Gilbane

TAILGATE SAFETY MEETING

Date: 4/12/13 Time: 0700 Page: 1 of 1
Customer: US EPA R9 Project: SAIA Contract #: EP-S9-08-03 Proj. #: 07163.0064
Work Description: CPT and groundwater sampling

EMERGENCY PROCEDURES

Emergency Contact: 911 Emergency Number: 911
Hospital/Clinic: St. Francis Medical Center Address: 4264 MLK Blvd, Lynwood, CA
Evacuation Procedures: meet at ITSI field vehicle for head count

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Lynwood Fire Dept	310-603-5270	Jeremy Sawyer	303-858-0965
Don Gruber	916-853-1839		

SITE HAZARDS

Physical Hazards	Chemical Hazards (include chemical products)
equipment/vehicular traffic, drill rig, pinch points, pressurized lines, noise, head/back/eye injuries	TCE, cis-1,2-DCE, 1,4-Dioxane, metals
noise, head/back/eye injuries, slips/trips/falls	

SITE ENTRY REQUIREMENTS

Check-In Procedures: check-in w/ ITSI field lead
Training Requirements: HAZWOPER, hazard communication, 1st Aid/CPR
Minimum PPE Required: Level D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work:
Specific safety issues/work practices:

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Troy Taylor		H&P			
Marcus Martumaya		H&P			

MEETING CONDUCTED BY

Health & Safety Officer: Ed Gillera (Name printed) _____ (Signature)
Site Superintendent: _____ (Name printed) _____ (Signature)

ITSI Innovative Technical Solutions, Inc. A Gibbons Company

Daily Activity Report (DAR)

Project Name: SAIA	Page 1 of 1
Project No./Task Code: 07163.0004	Date: 4/15/13
Description of Work: soil vapor sampling	
Visitors / Subcontractors: H&P	
Weather: AM - 57°F, cloudy, 88% humidity PM - 68°F, partly cloudy	

Description of Field Activities

0700 Arrive @ Seam Masters property. Meet H&P staff & conduct H&S tailgate meeting.
0730 Set up on SG16 location (alley btw Southern & McCallum). Begin purge for 25' & 35' sample depths.
0820 Collect SAIA-SG16-D25 sample. Leak detection compound detected in sample @ concentration slightly exceeding 100 ppbv threshold. Recollect & re-run sample.
0900 Set up on SG15 location (adjacent to SG16). Start purge.
0910 Collect SAIA-SG16-D35 sample.
0945 Complete purge for SG15 sample depths. Set up on SG08 location (NE corner of Seam Masters property).
0950 Collect SAIA-~~SG16~~ SG15 - D05 sample
1014 Collect SAIA-SG15-D15 sample.
1038 Collect SAIA-SG15-D25 sample.
1040 Complete purge for SG08. Set up on SG07 location & start purge.
1104 Collect SAIA-SG15-D35 sample.
1305 Complete purge for SG07 sample depths. Collect SAIA-SG08-D5-E04/13 sample.
1338 Collect ~~SAIA-SG08~~ SAIA-SG08-D15 sample.
1408 Collect SAIA-SG08-D25 sample
1434 Collect SAIA-SG08-D35 sample.
1457 Collect SAIA-SG07-D05 sample.
1545 Secure area. Leave site.

Prepared by: E. Gillem Signature:

DAR 031411

ITSI Innovative Technical Solutions, Inc. A Gibbons Company

SUMMA Canister ~~Ambient~~ Sample Collection Log

Project No./Task Code: 07163.0064	Date: 4/15/13
Project Name: SAIA	Field Crew: E. Giltera, T. Taylor
Location ID: n/a	Sample ID: SAIA-SG08-D05-0413
Site ID: n/a	Event ID: n/a

Sample Location

Northing:	Easting:	Height:
33° 56' 46.6" N	118° 10' 37.1" W	n/a

Sampling System

Canister Serial No.: 1583E	Location Sketch:
Canister Certification Date: 12/14/12	
Canister Leak Check Date: n/a	
Flow Controller Serial No.: n/a	

Sampling Log

Parameter	Start	Stop
Time	1305	1310
Canister Pressure (in Hg)	-28	0
Ambient Temperature	57°F	57°F
Flow Rate (mL/min)	n/a	n/a

Weather Conditions:

57°F, light rain, 83% humidity; wind 0 mph

Observations and Comments:

Sample location suspected to be w/in source area w/ relatively high concentrations.

Laboratory Analytical Method(s):

TO-15

Sampler's Printed Name: Ed Giltera	Sampler's Signature:

TAILGATE SAFETY MEETING

Date: 4/15/13 Time: 0700 Page: 1 of 1
Customer: US EPA Project: SAJA Contract #: _____ Proj. #: 07163.0064
Work Description: soil vapor sampling

EMERGENCY PROCEDURES

Emergency Contact: 911 Emergency Number: 911
Hospital/Clinic: St. Francis Medical Cntr Address: 3630 E. Imperial Hwy, Lynwood
Evacuation Procedures: meet @ ITSI field vehicle

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Fire Dept.	310-603-5270	Jeremy Sawyer	303-858-0965
Don Gruber	916-853-1839		

SITE HAZARDS

Physical Hazards	Chemical Hazards (include chemical products)
Equip/vehicular traffic, pressurized lines,	TCE, cis-1,2-DCE, PCE, metals
electrical hazards, slips/trips/falls,	
head/back/hand/eye protection	

SITE ENTRY REQUIREMENTS

Check-In Procedures: check-in w/ ITSI field lead
Training Requirements: Hazwoper, 8-hr refresher, medical clearance
Minimum PPE Required: Level D
Special Precautions: _____

TODAY'S SPECIFIC SAFETY ISSUES

Today's work: soil vapor sampling
Specific safety issues/work practices: vehicular traffic

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Manuel Montes		H&P			
Troy Taylor		H&P			

MEETING CONDUCTED BY

Health & Safety Officer: Ed Gillera (Name printed) _____ (Signature)
Site Superintendent: _____ (Name printed) _____ (Signature)

1240

ITSI Innovative Technical Solutions, Inc. A Gilbane Company

Daily Activity Report (DAR)

Project Name: SAIA	Page 1 of 1
Project No./Task Code: 07163.0004	Date: 4/14/13
Description of Work: soil vapor sampling	
Visitors / Subcontractors: H+P	
Weather: AM-53°F, mostly sunny, 71% humidity PM-63°F, clear/sunny	

Description of Field Activities

0700 Arrive @ Seam Masters property. Conduct H+S tailgate mtg.
0715 Set up on SG07 location. Begin purge for 15' & 25' sample depths.
0803 Collect SG07-D15 sample.
0830 Set up on SG05 location. Begin purge for 5' & 15' sample depths.
0850 Collect SG07-D25 sample.
0900 Start purge for 25' & 35' sample depths (SG05).
0950 Set up on SG11 location (NW corner of Seam Masters property), start purge. Collect sample SG07-D35 sample
1035 Complete purge for SG05 sample locations.
1030 Collect sample SG05-D05 sample.
1105 Complete purge for SG11 sample locations.
1110 Collect sample SG05-D15 sample.
1154 Collect sample SG05-D25 sample
1214 Collect sample SG05-D35. Complete sampling @ SG05 location.
1240 Collect sample SG11-D05 sample.
1251 Set up on SG18 location (w/in ELG metals property, adjacent to MW-8).
1340 Complete purge for SG18 sample locations.
1342 Collect sample SAIA SG11-D25-EQ413 sample.
1403 Collect sample SG11-D35. Complete sampling @ SG11. Secure area and leave Seam Masters property.
1420 Set up @ ELG Metals property.
1433 Collect SG18-D05 sample.
1452 Collect SG18-D15 sample.
1515 Collect SG18-D25 sample.
1535 Leave ELG Metals property. Drop samples for shipping.
1630 Drop samples off @ FedEx for shipment to US EPA RQ laboratory.

Prepared by: E. Gillera	Signature:

DAR 031411

ITSI Innovative Technical Solutions, Inc. A CDM Smith Company

SUMMA Canister ~~Ambient~~ Sample Collection Log

Project No./Task Code: 07163.0064	Date: 4/16/13
Project Name: SAIA	Field Crew: E. Gillera, T. Taylor
Location ID: n/a	Sample ID: SAIA-SG11-D25-E0413
Site ID: n/a	Event ID: n/a

Sample Location

Northing: 33°56' 47.8" N	Easting: 118° 10' 41.9" W	Height: n/a

Sampling System

Canister Serial No.: 1577E	Location Sketch:
Canister Certification Date: 12/14/12	
Canister Leak Check Date: n/a	
Flow Controller Serial No.: n/a	

Sampling Log

Parameter	Start	Stop
Time	1342	1347
Canister Pressure (in Hg)	-28	0
Ambient Temperature	63° F	63° F
Flow Rate (mL/min)	n/a	n/a

Weather Conditions:
63° F, clear, 41% humidity, winds 17mph W

Observations and Comments:
Location w/in C.S. Pallet area. Vapor probes installed adjacent to (south side) of the former steel oil tank containment area.

Laboratory Analytical Method(s):
TO-15

Sampler's Printed Name: E. Gillera	Sampler's Signature:

ITSI Gilbane

TAILGATE SAFETY MEETING

Date: 4/16/13 Time: 0700 Page: 1 of 1
Customer: US EPA R9 Project: SAIA Contract #: EP-S9-08-03 Proj. #: 07163.0064
Work Description: CPT and groundwater sampling

EMERGENCY PROCEDURES

Emergency Contact: 911 Emergency Number: 911
Hospital/Clinic: St. Francis Medical Center Address: 4264 MLK Blvd, Lynwood, CA
Evacuation Procedures: meet at ITSI field vehicle for head count

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Lynwood Fire Dept	310-603-5270	Jeremy Sawyer	303-858-0965
Don Gruber	916-853-1839		

SITE HAZARDS

Physical Hazards	Chemical Hazards (include chemical products)
equipment/vehicular traffic, drill rig, pinch points, pressurized lines, noise, head/back/eye injuries	TCE, cis-1,2-DCE, 1,4-Dioxane, metals
noise, head/back/eye injuries, slips/trips/falls	

SITE ENTRY REQUIREMENTS

Check-In Procedures: check-in w/ ITSI field lead
Training Requirements: HAZWOPER, hazard communication, 1st Aid/CPR
Minimum PPE Required: Level D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work:
Specific safety issues/work practices:

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Mr. Montemayor		H&P			
Troy Taylor		H&P			

MEETING CONDUCTED BY

Health & Safety Officer: Ed Gillera (Name (printed)) (Signature)
Site Superintendent: (Name (printed)) (Signature)

1123

ITSI Innovative Technical Solutions, Inc. A CB&I Company

Daily Activity Report (DAR)

Project Name: SAFA	Page 1 of 1
Project No./Task Code: 07163.0064	Date: 4/17/13
Description of Work: soil vapor sampling	
Visitors / Subcontractors: H&P	
Weather: AM - 55°F, clear, 28% humidity; wind 3mph W / PM - 73°F, sunny	

Description of Field Activities

0700 Arrive @ ELG Metals facility. Conduct H&S tailgate meeting.
0715 Set up on SG18 location (adjacent to MW-8). Begin purge on 35' sample depth.
0755 Complete sampling @ SG18. Secure area. Leave ELG Metals property.
0840 Arrive @ Reliable Steel property. Set up on JW-SG6 location. Start purge for 5' & 15' sample depths.
0910 Begin purge for 25' & 35' sample depths.
0940 Complete purge for 25' & 35' sample depths. Set up on JW-SG5 location. Start purge.
0915 Collect sample JW-SG6-D05
0938 Collect sample JW-SG6-D15
1015 Unable to purge from JW-SG5-D15 sample depth. Pulling vaccum even @ very low (<10 mL/min) flow rate. No sample will be collected @ 15' depth.
1050 Complete purge @ ~~SG~~ JW-SG5 location. Set up on JW-SG4 location. Start purge.
1020 Collect sample JW-SG6-D25.
1123 Collect JW-SG06-D35-E0413 sample. Complete sampling for JW-SG06.
1235 Collect JW-SG05-D05 sample. Complete purge for JW-SG04 location.
1300 Set up on JW-SG03 location, start purge.
1258 Collect ~~JW-SG25~~ JW-SG05-D25 sample.
1348 Collect JW-SG05-D35 sample.
M05 Collect JW-SG04-D05 sample.
M35 Collect JW-SG04-D15 sample.
~~1517 Collect JW-SG04-D25 sample.~~
1517 Collect JW-SG04-D35-E0413 sample.
1550 Secure area. Leave Reliable Steel facility.

Prepared by: E. Gillera	Signature:

DAR 031411

ITSI Innovative Technical Solutions, Inc. A Gilbane Company

SUMMA Canister ~~Ambient~~ Sample Collection Log

Project No./Task Code: 07163.0064	Date: 4/17/13
Project Name: SAIA	Field Crew: E. Gillera, T. Taylor
Location ID: n/a	Sample ID: JW-SG06-D35-E0413
Site ID: n/a	Event ID: n/a

Sample Location

Northing: 33° 57' ~~10.5"~~ ~~3.0"~~ 5.6" N	Easting: 118° 10' 11.8" W	Height: n/a

Sampling System

Canister Serial No.: 1580 E	Location Sketch:
Canister Certification Date: 12/14/12	
Canister Leak Check Date: n/a	
Flow Controller Serial No.: n/a	

Sampling Log

Parameter	Start	Stop
Time	1123	1128
Canister Pressure (in Hg)	-28	0
Ambient Temperature	63° F	63° F
Flow Rate (mL/min)	n/a	n/a

Weather Conditions:

63° F, clear, 21 % humidity, wind 7 mph NNW

Observations and Comments:

Laboratory Analytical Method(s):

TO-15

Sampler's Printed Name: E. Gillera	Sampler's Signature:

SUMMA Canister Ambient Sample Collection Log

Project No./Task Code: 07163.0064	Date: 4/17/13
Project Name: SAIA	Field Crew: E. Gillera, T. Taylor
Location ID: n/a	Sample ID: VN-SG04-035-E0413
Site ID: n/a	Event ID: n/a

Sample Location

Northing:	Easting:	Height:
33° 57' 0.8" N	118° 10' 39.6 W	n/a

Sampling System

Canister Serial No.: 1578E	Location Sketch:
Canister Certification Date: 12/14/12	
Canister Leak Check Date: n/a	
Flow Controller Serial No.: n/a	

Sampling Log

Parameter	Start	Stop
Time	1517	1522
Canister Pressure (in Hg)	-28	0
Ambient Temperature	70° F	70° F
Flow Rate (mL/min)	n/a	n/a

Weather Conditions:
70° F, clear/sunny, 25% humidity, wind 15 mph WSW

Observations and Comments:

Laboratory Analytical Method(s):
TO-15

Sampler's Printed Name:	Sampler's Signature:
E. Gillera	

ITSI Gilbane

TAILGATE SAFETY MEETING

Date: 4/17/13 Time: 0700 Page: 1 of 1
Customer: US EPA R9 Project: SAIA Contract #: EP-S9-08-03 Proj. #: 07163.0064
Work Description: CPT and groundwater sampling

EMERGENCY PROCEDURES

Emergency Contact: 911 Emergency Number: 911
Hospital/Clinic: St. Francis Medical Center Address: 4264 MLK Blvd, Lynwood, CA
Evacuation Procedures: meet at ITSI field vehicle for head count

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Lynwood Fire Dept	310-603-5270	Jeremy Sawyer	303-858-0965
Don Gruber	916-853-1839		

SITE HAZARDS

Physical Hazards	Chemical Hazards (include chemical products)
equipment/vehicular traffic, drill rig, pinch points, pressurized lines, noise, head/back/eye injuries	TCE, cis-1,2-DCE, 1,4-Dioxane, metals
noise, head/back/eye injuries, slips/trips/falls	

SITE ENTRY REQUIREMENTS

Check-In Procedures: check-in w/ ITSI field lead
Training Requirements: HAZWOPER, hazard communication, 1st Aid/CPR
Minimum PPE Required: Level D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work:
Specific safety issues/work practices:

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Marcus Martinez		H+P			
Troy Taylor		H&P			

MEETING CONDUCTED BY

Health & Safety Officer: Ed Gillera (Name printed) _____ (Signature)
Site Superintendent: _____ (Name printed) _____ (Signature)

ITSI Innovative Technical Solutions, Inc. A Gilbane Company

Daily Activity Report (DAR)

Project Name: SAIA	Page 1 of 1
Project No./Task Code: 07163.0064	Date: 4/18/13
Description of Work: soil vapor sampling, well abandonment	
Visitors / Subcontractors: H&P, Gregg Drilling	
Weather: AM-66°F, clear, 13% humidity, wind 10 mph ENE	

Description of Field Activities

0700 Arrive @ Reliable Steel property. Meet H&P staff, conduct H&S tailgate meeting.
0710 Set up on VW-SG4 location.
0720 Arrive @ Seam Masters property. Meet Gregg Drilling staff & conduct H&S mtg. Gregg staff will be pulling out vapor probes/tubing, adding grout (if necessary) and patching surface w/ concrete or asphalt.
0725 Return to Reliable Steel. Unable to purge VW-SG4-D25 location. Pulling vacuum (100" Hg) @ purge rate of <5 mL/min. No sample from this location.
0745 Collect sample from VW-SG3-D05.
0835 Unable to purge required volume @ VW-SG3-D15. Pulling vacuum (100" Hg) @ purge rate of <5 mL/min. No sample from this location.
0904 No sample @ VW-SG3-D25 location due to vacuum in hole. Collect sample VW-SG3-D35.
0944 Arrive @ United Motor Club property. Set up on VW-SG1, start purge.
1011 Collect VW-SG1-D05 sample.
1030 Complete well abandonment @ Seam Masters property. Move to well locations on Southern Ave, alleyway, & McCallum.
1100 Set up on VW-SG2 location, begin purge.
1110 Collect VW-SG1-D25
1138 Collect VW-SG1-D35
1159 Collect VW-SG2-D05
1245 Collect VW-SG2-D25-E0413 sample.
1350 Complete well abandonment @ Reliable Steel & ELG metals. Move to United Motor Co locations.
1322 Collect sample VW-SG2-D15.
1345 Collect sample VW-SG2-D35. Complete sampling @ SG2. abandon well.
1410 Leave United Motor Co property. Prep samples for shipping.
1600 Drop off samples @ FedEx.

Prepared by: E. Gillera	Signature:

DAR 031411

ITSI Innovative Technical Solutions, Inc. A Gibbons Company

SUMMA Canister ~~Ambient~~ Sample Collection Log

Project No./Task Code: 07163.0064	Date: 4/18/13
Project Name: SAIA	Field Crew: E. Cillera, T. Taylor
Location ID: n/a	Sample ID: JW-SG02-D25-E0413
Site ID: n/a	Event ID: n/a

Sample Location

Northing:	Easting:	Height:
33° 57' 5.1" N	118° 10' 41.9" W	n/a

Sampling System

Canister Serial No.: 1554E	Location Sketch:
Canister Certification Date: 12/14/12	
Canister Leak Check Date: n/a	
Flow Controller Serial No.: n/a	

Sampling Log

Parameter	Start	Stop
Time	1245	1250
Canister Pressure (in Hg)	-28	-2
Ambient Temperature	70°F	70°F
Flow Rate (mL/min)	n/a	n/a

Weather Conditions:
70°F, clear/sunny, 14% humidity, wind 3 mph ESE

Observations and Comments:

Laboratory Analytical Method(s):
TO-15

Sampler's Printed Name:	Sampler's Signature:
E. Cillera	

ITSI Gilbane

TAILGATE SAFETY MEETING

Date: 04/18/13 Time: 0700 Page: 1 of 1
Customer: US EPA R9 Project: SAIA Contract #: EP-S9-08-03 Proj. #: 07163.0064
Work Description: CPT and groundwater sampling

EMERGENCY PROCEDURES

Emergency Contact: 911 Emergency Number: 911
Hospital/Clinic: St. Francis Medical Center Address: 4264 MLK Blvd, Lynwood, CA
Evacuation Procedures: meet at ITSI field vehicle for head count

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Lynwood Fire Dept	310-603-5270	Jeremy Sawyer	303-858-0965
Don Gruber	916-853-1839		

SITE HAZARDS

Physical Hazards	Chemical Hazards (include chemical products)
equipment/vehicular traffic, drill rig, pinch points, pressurized lines, noise, head/back/eye injuries	TCE, cis-1,2-DCE, 1,4-Dioxane, metals
noise, head/back/eye injuries, slips/trips/falls	

SITE ENTRY REQUIREMENTS

Check-In Procedures: check-in w/ ITSI field lead
Training Requirements: HAZWOPER, hazard communication, 1st Aid/CPR
Minimum PPE Required: Level D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work:
Specific safety issues/work practices:

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Marcial Manenajer		H+P			
Troy Taylor		H&P			
JEFF MARIFIAN		GDT			
DAVID JOHNSON		GDT			

MEETING CONDUCTED BY

Health & Safety Officer: Ed Gillera (Name printed) _____ (Signature)
Site Superintendent: _____ (Name printed) _____ (Signature)

GREGG DRILLING & TESTING

Project Field Bill

2726 Walnut Avenue, Signal Hill, CA 90755
Ph: (562) 427-6899 Fax: (562) 427-3314
www.greggdrilling.com

Company: ITSI
Site Name: Southern Ave. Industrial
Address: 5211 Southern Ave.
Cross Street:
City: South Gate
State: CA
Field Rep: Ed Gillera

Job Number: D1130085
Task Number: -2
Rate Code: DRI1
Start Date: 4-18-2013
End Date: 4-19-2013
Equipment: CREW
Crew: _____
Date: _____

ITEM	UNITS	QUANTITY
RIG NO./TYPE	HOUR	9
MOB-DEMOB-TRAVEL	HOUR	1
PER DIEM	MAN/NGT	
PREMIUM TIME	MAN/HR	
ADDITIONAL TECHNICIAN	HOUR	
STANDBY/MOVE TIME	HOUR	
STEAM CLEANING AT YARD	DAY	
GROUT PUMP/STEAM CLEANER	DAY	
MUD SYSTEM	DAY	
FORKLIFT/BOBCAT/LOADER	DAY	
WATER TRUCK TENDER	DAY	
SERVICE TRUCK	DAY	1
SERVICE RUNS	HOUR	
CONST./HAND AUGER CREW (2 men)	HOUR	8
CONCRETE CORING DIA.	EACH	
P.P.E. UPGRADE TIME	HOUR	

BORING #	DEPTH	INTERVAL/TYPE OF SAMPLING	SIZE OF WELL
		ABANDON 24 VAPOR	
		PROBE LOCATIONS	
		4 IN EACH	
		PATCH 18 W/ CONCRETE	
		PATCH 6 W/ ASPHALT	

Time Leave Yard: 0630 Time Arrive Site: 0700
Time Return Yard: 1930 Time Leave Site: 1900
Lunch Start: 11:30 Lunch Finish: 12:00
SUBCONTRACTOR - ADDITIONAL EQUIPMENT:
DLJ ARMS
EQUIPMENT DAMAGE:

ITEMS	UNITS	QUANTITY
SEISMIC CPT (Interval Test)	TEST	
UVOST RENTAL	DAY	
RESISTIVITY RENTAL	DAY	
BACKFILL TEST LOCATIONS	FOOT	
BENTONITE CHIPS	BAG	
BENTONITE PELLETS	PAIL	
BENTONITE DRILL MUD	BAG	
BENTONITE GROUT	BAG	
FILTER SAND	BAG	
ASPHALT PATCH	BAG	1
READY-MIX CONCRETE	BAG	
PORTLAND CEMENT/QUICK SET	BAG	2
WOOD PLUGS	EACH	
DISPOSABLE BAILERS	EACH	
PVC CASING 3/4" 2" 4" OTHER	FOOT	
PVC SCREEN 3/4" 2" 4" OTHER	FOOT	
THREADED FITTINGS 3/4" 2" 4" OTHER	EACH	
SLIP FITTINGS 3/4" 2" 4" OTHER	EACH	
LOCKING CAPS 2" 4" OTHER	EACH	
MONITORING WELL BOX (WATERTIGHT)	EACH	
ANODIZED STAND PIPE	EACH	
GROUNDWATER SAMPLE CONSUMABLES	EACH	
1/4", 1/2" TUBING	FOOT	
DISPOSABLE TIPS	EACH	
SAMPLE RINGS & CAPS	EACH	
55-GALLON DRUM	EACH	
CORE BOXES	EACH	

Section 13751 through 13754 of the California Water Code requires that a report be filed for every groundwater well installation or abandonment. If the client does not elect to submit this report, Gregg Drilling & Testing, Inc. will complete the appropriate paperwork for a $20 fee per well.

Client to complete ☐ GDT to complete ☐

The named parties are hereby notified that if charges for above labor, services, equipment or materials furnished or to be furnished are not paid for in full, the improved property referred to above may be subject to mechanics lien (per Section 1181, et. seq. to the California Code of Civil Procedure) and construction funds are subject to "Stop notice" action (per Section 1190.1, California Code of Civil Procedure).

TERMS: NET 30 days. [redacted]. 1.5% per month finance charge on accounts 30 days past due. The undersigned accepts the terms as stated above for services rendered.

Project Name: SAIA P.O./Task #_____

Signature of Field Representative _____

Printed Name Ed Gillera Date 4.18.13

WE CAN ASSUME NO RESPONSIBILITY FOR DAMAGE OF UNDERGROUND UTILITIES. In the event of adverse and/or hazardous dilling conditions, client will be informed if rate changes and/or responsibility for replacement of lost of damaged equipment. Minimum call out $1200.

Also applicable to cancellations within 24 hrs. of scheduled start.

USA Clearance No._____

Daily Activity Report (DAR)

Project Name: SAIA RI/FS	Page 1 of 1
Project No./Task Code: 07163.0064.FI0301	Date: April 14, 2014
Description of Work: Soil sampling and installation of temporary soil gas sampling wells	
Visitors / Subcontractors: none/Gregg Drilling and Testing	
Weather: mild to warm	

Description of Field Activities

0700 Complete detailed Health and Safety Briefing, discuss scope of field activities and progression of work with subcontractor. Off load direct push drill rig and move to SAIA-SB/SG23 location.

0800 cut concrete surface with 4-inch diameter solid stem auger flight (concrete approx .8 inches thick). Complete hand auger borehole to 5 ft. bgs for utility clearance. Advance borehole with direct push technique and collect continuous soil samples to 35 feet bgs.

0945 Construct temporary soil gas sampling well with sampling intervals at 4.5 to 5.0 ft. ; 14.5 to 15.0 ft; 24.5 to 25.0 ft.; and 34.5 to 35.5 ft. bgs.

1000 Move to SAIA-SB/SG25, cut concrete surface as described above (approx. 4 in thick). Direct push and sample to 35 ft bgs.

1050 Construct temporary soil gas sampling well with sampling intervals at 4.5 to 5.0 ft.; 14.5 to 15.0 ft.; 24.5 to 25.0 ft. and 34.5 to 35 ft. bgs.

1140 Move direct push drill rig to SAIA-SB/SG27. Cut concrete surface as described above (4 in thick). GDT crew takes lunch.

1230 Complete hand auger borehole to 5 ft bgs for utility clearance. Move well construction supplies to site.

Advance soil boring and collect continuous soil samples to 35 ft. bgs. Construct temporary soil gas sampling well with completions at 4.5 to 5.0 ft.; 14.5 to 15.0 ft.; 24.5 to 25.0 ft. and 34.5 to 35.0 ft. bgs.

1410 Move direct push drill rig to SAIA-SB/SG28 location. This location was moved approximately 20 feet west of the location shown on the Proposed Onsite Soil Gas Sampling Locations figure to more closely match the soil boring location completed for SB12 during the initial phase of site characterization sampling completed at SAIA.

1500 Cut concrete surface as described above (surface approximately 3 inches thick at this location). Complete hand auger boring to 5 ft. bgs for utility clearance. Direct push soil boring and sample to 35 ft. bgs. Move well construction materials to site and construct temporary soil gas sampling well with completions at 4.5 to 5.0 ft.; 14.5 to 15.0 ft.; 24.5 to 25.0 ft.; and 34.5 to 35.0 ft. bgs.

1550 Prepare soil samples and documentation for shipment to analytical laboratories. GDT loaded drilling rig and support equipment, completed paperwork and left site.

1620 Travel to Fed Ex to complete sample shipment documentation

1650 Relinquished soil samples to Fed Ex.

Prepared by: Peter Phillips	Signature:

Daily Activity Report (DAR)

Project Name: SAIA RI/FS	Page 1 of 1
Project No./Task Code: 07163.0064.FI0301	Date: April 15, 2014
Description of Work: Soil sampling and installation of temporary soil gas sampling wells	
Visitors / Subcontractors: none/Gregg Drilling and Testing	
Weather: mild to warm	

Description of Field Activities

0700 Complete tail gate safety meeting, unload direct push, limited access drill rig from trailer, move to SAIA-SB/SG30.

0730 Attempt to complete utility clearance hand auger at identified location, obstruction at approximately 1.5 feet bgs. Move approx. 2 feet north and successfully complete utility clearance hand auger boring to 5 ft. bgs. Drill and continuously sample to 35 ft. bgs. Install temporary soil gas sampling well with completions at 4.5 to 5.0 ft.; 14.5 to 15.0 ft.; 24.5 to 25.0 ft.; and 34.5 to 35.0 ft. bgs (NOTE: all subsequent temporary wells installed during field activities today were constructed with the same completion intervals).

0900 Move drill rig to SAIA-SB/SG31, complete utility hand auger to 5 ft. bgs. Advance direct push boring and collect continuous soil samples to 35 ft. bgs. Construct temporary soil gas sampling well at SAIA-SB/SG31 as described above.

1045 Move drill rig to SAIA-SB/SG32, complete utility hand auger to 5 ft. bgs. Advance direct push boring and collect continuous soil samples to 35 ft. bgs. Construct temporary soil gas sampling well at SAIA-SB/SG32 as described above.

1150 GDT crew lunch break

1225 Move drill rig to SAIA-SB/SG33, complete utility hand auger boring to 5 ft. bgs. Advance direct push boring and collect continuous soil samples to 35 ft. bgs. (NOTE: Moderate to strong petroleum odors were encountered during the advancement of this boring from approximately 12 to 17 ft. bgs. Breathing area PID monitoring values ranging from 0.1 to 0.8 ppm were recorded when odors were first noticed and for the duration of the drilling and temporary soil gas well construction activities at SAIA-SB/SG33. Borehole PID monitoring values ranging from 1.2 to 2.7 ppm were recorded during borehole drilling activities as well.) Construct temporary soil gas sampling well at SAIA-SB/SG33 as described above.

1415 Move drill rig to SAIA-SB/SG34, attempt to complete utility clearance hand auger, encountered buried debris (metal slag, vitrified glass, etc.) at approx. 2 ft. bgs, moved 2 feet north of marked location for this boring and successfully completed utility clearance hand auger to 5 ft. bgs. Advance soil boring and collect continuous soil samples to 35 ft. bgs. Construct temporary soil gas sampling well at SAIA-SB/SG34 as described above.

1545 GDT retuned drill rig to transport trailer, loaded rig, secured support equipment and completed daily activity documentation.

1550 Prepare soil samples for shipment to applicable analytical laboratory.

1615 Load coolers, secure site and transport samples to Fed Ex.

1645 Complete sample shipment transportation documentation and relinquish samples to Fed Ex.

Prepared by: Peter Phillips	Signature:

Daily Activity Report (DAR)

Project Name: SAIA RI/FS	Page 1 of 1
Project No./Task Code: 07163.0064.FI0301	Date: April 16. 2014
Description of Work: Soil sampling and installation of temporary soil gas sampling wells	
Visitors / Subcontractors: none/Gregg Drilling and Testing	
Weather: mild to warm	

Description of Field Activities

0700 Complete tail gate safety meeting, position direct push drill rig over SAIA-SB/SG19 location (boring is approximately 27 inches above the ground surface for the SAIA site on a concrete secondary containment structure for a former above ground storage tank). Complete a utility clearance hand auger boring to 5 feet below the surface elevation of the boring. Advance the borehole using the direct push drilling technique to 43 feet below the surface elevation of boring. Relatively strong petroleum odor encountered at approximately 12 feet below the surface elevation of the boring. PID breathing are measurements did not detect recordable concentrations, borehole measurements ranged from 0.7 to 3.9 ppm. Construct a temporary soil gas sampling well with completion intervals at 4.5 to 5.0; 14.5 to 15.0; 24.5 to 25.0 and 34.5 to 35.0 feet below the surface elevation of the boring. This boring was advcanced an additional 7 feet past the designed target depth of the lowest soil gas sampling interval in an attempt to evaluate the total depth of petroleum hydrocarbon affected soil. Evidence of exposure to petroleum hydrocarbons was still observed in the 43-foot sample collected from this boring.

0920 Move direct push drill rig to SAIA-SB/SG24. This location is approximately 24 inches above the ground surface at SAIA on and elevated surface that runs the entire length of the northern boundary of the Site. Advance a utility clearance hand auger to 5 feet below the elevation of this boring. Drill and collect continuous soil samples to 35 ft bgs. Construct a temporary soil gas sampling well with completion intervals of as described for SAIA-SB/SG19.

1055 Move direct push drill rig to SAIA-SB/SG26 location. This location is also approximately 24 inches above the ground surface at the Site along the northern boundary. Complete a hand auger utility clearance boring to 5 feet below the surface elevation of this boring. Drill and collect continuous soil samples to 28 feet. Saturated conditions were encountered at this depth and the boring was backfilled with bentionite pellets to 25 feet below the surface elevation of this boring and a temporary soil gas sampling well was installed with completions at 4.5 to 5.0; 14.5 to 15.0; and 24.5 to 25.0 feet below the elevation of this boring.

1215 GDT crew takes lunch

1255 Gilbane staff and GDT crew travel to ELG Metals to inspect drilling locations scheduled for completion tomorrow and coordinate planned activities with ELG management.

1340 Move direct push drill rig to SAIA-SB/SG29 location. This boring is also located along the northern boundary of the Site approximately 24 inched above the ground surface for SAIA. Complete a hand auger utility clearance boring to 5 feet below the elevation of the boring. Advance the borehole using the direct push drilling technique to 35 feet below the elevation of the boring. Install a temporary soil gas sampling well with the same sampling intervals as described for SAIA-SB/SG19 above.

1510 GDT crew loads direct push drill rig on transport trailer, secures support equipment, completes daily activity documentation

1530 Prepare soil samples for shipment to applicable analytical laboratories and travel to Fed Ex.

1630 Complete soil sample shipping documentation and relinquish soil samples to Fed Ex.

Prepared by: Peter Phillips	Signature:

Daily Activity Report (DAR)

Project Name: SAIA RI/FS	Page 1 of 1
Project No./Task Code: 07163.0064.FI0301	Date: April 17, 2014
Description of Work: Soil sampling and installation of temporary soil gas sampling wells	
Visitors / Subcontractors: none/Gregg Drilling and Testing	
Weather: mild to warm	

Description of Field Activities

0645 Onsite at ELG Metals. Move limited access direct push drill rig and support equipment onsite. Off load drill rig and move to SAIA-SB/SG36. Complete tailgate safety meeting. Cut concrete surface with solid stem auger cutting head and complete the utility clearance hand auger boring to 5 feet bgs.

Install temporary soil gas sampling well with completions at 4.5 to 5.0; 14.5 to 15.0; 24.5 to 25.0; and 34.5 to 35.0 feet below ground surface. Extremely wet conditions encountered from 12 ft bgs to 35 ft. bgs

1000 Move direct push drill rig to SAIA-SB/SG37 location, cut concrete surface, advance utility clearance hand auger boring. Drill and collect continuous soil samples to 35 feet bgs, encounter extremely wet conditions from approximately 12 ft. bgs to 24 ft bgs. Discuss well installation problems associated with wet to saturated subsurface materials in small boreholes with Don Gruber, Project Manager. Decision made to construct temporary soil gas sampling intervals at 4.5 to 5.0 and 14.5 to 15.0 ft. bgs.

1135 GDT crew takes lunch

1230 Move direct push drill rig to SAIA-SB/SG38 location, cut concrete surface and complete utility clearance hand auger boring to 5 feet bgs. Advance borehole with direct push technique and collect continuous soil samples to 35 ft. bgs.

Install temporary soil gas sampling well with completions as described for SAIA-SB/SB36.

1410 Move direct push drill rig to SAIA-SB/SB39 location, cut concrete surface and complete utility clearance hand auger boring to 5 feet bgs. Construct temporary soil gas sampling well with completion intervals as described for SAIA-SB/SG36.

1530 GDT crew loads direct push drill rig on transport trailer and returns to SAIA staging area to complete daily activity documentation.

1545 Prepare soil samples for shipment to applicable analytical laboratory with appropriate documentation.

1635 Travel to Fed Ex and complete sample shipment documentation

1650 Relinquish soil samples to Fed Ex.

Prepared by: Peter Phillips	Signature:

Daily Activity Report (DAR)

Project Name: SAIA RI/FS	Page 1 of 1
Project No./Task Code: 07163.0064.FI0301	Date: April 18, 2014
Description of Work: Soil sampling and installation of temporary soil gas sampling wells	
Visitors / Subcontractors: none/Gregg Drilling and Testing	
Weather: mild	

Description of Field Activities

0645 Tailgate safety meeting, move direct push drill rig and support equipment to SAIA-SB/SG35, complete utility clearance hand auger to 5 feet bgs.

0715 Advance borehole with direct push drilling technique and collect continuous soil samples to 35 ft. bgs. Install temporary soil gas sampling well with completion intervals at 4.5 to 5.0; 14.5 to 15.0; 24.5 to 25.0 and 34.5 to 35.0 ft. bgs.

0830 Move direct push drilling rig and support equipment to SAIA-SB/SG20, cut concrete surface with solid stem auger and advance to 5 ft. bgs. Encounter evidence of petroleum contamination (strong petroleum odor and soil discoloration from approximately 0.5 ft. bgs to 35 ft. bgs.; breathing zone 0.0 ppm, borehole 2.3 ppm)

0845 Advance direct push borehole and collect continuous soil samples to 35 ft. bgs. Construct temporary soil gas sampling well with completion intervals as described for SAIA-SB/SG35. (PID measured volatile constituents in 35 ft bulk soil sample at 12.9 ppm)

1000 Move direct push drill rig to SAIA-SB/SG21. Complete utility clearance hand auger to 5 ft. bg. Advance direct push borehole and collect continuous soil samples to 35 ft. bgs. Construct temporary soil gas sampling well with completion intervals as described for SAIA-SB/SG35. Evidence of petroleum contamination (stained soil and petroleum odor) were encountered from 11 ft. to 35 ft bgs in SB/SG21. (PID measurement of bagged soil from 35 ft. 3.4 ppm)

1145 Move direct push drill rig to SAIA-SB/SG22. GDT crew lunch break

1245 Cut concrete surface with solid stem auger flight. Complete utility clearance hand auger to 5 ft. bgs. Evidence of petroleum contamination and strong petroleum odor from 0.5 ft. to 7 ft. bgs. Breathing zone PID measurement 0.0 ppm, borehole measurement 2.2 ppm. Advance direct push borehole and collect continuous soil samples to 35 ft. bgs. Construct temporary soil gas sampling well with completion intervals as described for SAIA-SB/SG35

1430 GDT crew loads direct push drill rig on transport trailer, loads drilling support equipment and well construction supplies, completes daily activity documentation.

1445 Prepare soil samples for shipment to applicable analytical laboratory, prepare sample shipment documentation

1530 Travel to Fed Ex, complete preparation of shipment documentation

1600 Relinquish soil samples to Fed Ex.

Prepared by:	Signature:

ITSI Gilbane

FIELD ACTIVITY REPORT

Project: SAIA		Date: 4-21-14	Page 1 of 1
Client: US EPA	Contract No.:	Project No.: 07163-0064	
Work Description: soil gas sampling			
Subcontractors/Visitors: H&P			
Weather: AM - 57°F, cloudy / PM - 78°F, clear-sunny			

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0730 Arrive onsite.

0800 H&P arrives onsite. Conduct H&S meeting. Briefing on project objectives.

0815 Set up on SG-22 to conduct purge volume tests. Purge vol. tests will be conducted @ each interval (5', 15', 25', 35'). Conducting 3 purge volumes (1, 3, 10) tests @ each depth interval.

1500 No significant difference in TCE & PCE concentrations determined between 1, 3, & 10 purge volumes for 5', ~~10'~~, & 15' depth intervals.

1515 No significant difference in TCE & PCE concentrations determined between 1, 3, & 10 purge volumes for 25' & 35' depth intervals

1600 Purge volumes for sampling will be:
3 pv for 5' & 15'
1 pv for 25' & 35'

1620 Complete purge volume tests @ SAIA-SG23.

1630 Secure area, leave site.

Prepared by:	E. Gilera	Signature:		Date:	4-21-14

Gilbane

TAILGATE SAFETY MEETING

Date: 4/21/14 Time: 0800 Page: 1 of 1
Customer: US EPA R9 Project: SAIA Contract #: EP-S9-08-03 Proj. #: 07163.0064
Work Description: soil gas sampling

EMERGENCY PROCEDURES

Emergency Contact: 911 Emergency Number: 911
Hospital/Clinic: St. Francis Medical Center Address: 4264 MLK Blvd, Lynwood, CA
Evacuation Procedures: meet at ITSI field vehicle for head count

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Lynwood Fire Dept	310-603-5270	Jeremy Sawyer	303-858-0965
Don Gruber	916-853-1839		

SITE HAZARDS

Physical Hazards	Chemical Hazards (include chemical products)
equipment/vehicular traffic, drill rig, pinch points, pressurized lines, noise, head/back/eye injuries	TCE, cis-1,2-DCE, 1,4-Dioxane, metals
noise, head/back/eye injuries, slips/trips/falls	

SITE ENTRY REQUIREMENTS

Check-In Procedures: check-in w/ Gilbane field lead
Training Requirements: HAZWOPER, hazard communication, 1st Aid/CPR
Minimum PPE Required: Level D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work:
Specific safety issues/work practices:

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Eric Corsan		H+P			
Marcio Montenegro		H+P			

MEETING CONDUCTED BY

Health & Safety Officer: Ed Gillera (Name (printed)) _____ (Signature)
Site Superintendent: _____ (Name (printed)) _____ (Signature)

Gilbane

Daily Activity Report (DAR)

Project Name: SAIA

Page 1 of 1

Project No./Task Code: 07163.0064

Date: 4/22/14

Description of Work: soil gas sampling, soil gas well installation

Visitors / Subcontractors: H&P, Greg Drilling

Weather: AM - 61°F, partly cloudy / PM - 71°F, clear

Description of Field Activities

0700 Arrive @ SAIA property. Meet GOT staff & conduct H&S mtg.
0715 Set up direct push rig @ SAIA-SG40 location (alley between Southern & McCallum).
0755 Meet H&P staff @ ELG Metals. Conduct H&S meeting and brief site walk.
0830 Set up for soil gas sampling @ SAIA-SG39. Start purging.
0850 Complete constructing SAIA-SG40 wells.
0900 Set up direct push rig @ SAIA-SG41 location (~~Duncan~~ McCallum Ave).
1005 Complete constructing SAIA-SG41 wells.
1015 Set up direct push rig on SAIA-SG43 location (Duncan Ave).
1052 Collect split soil gas sample SAIA-SG39-015.
1105 Complete constructing SAIA-SG43 wells.
1120 Set up direct push rig on SAIA-SG42 location (SW corner of Duncan & Adella).
1125 Begin purging SAIA-SG39-25.
1200 Begin purging SAIA-SG39-35.
1250 Complete soil gas sampling @ SAIA-SG39.
1315 Set up soil gas sampling @ SAIA-SG38.
1400 Decommission SAIA-SG39 – Pull out probe/tubes when possible, cut tubing, pour grout seal, and finish surface w/ ~6" concrete.
1440 Set up soil gas sampling @ SAIA-SG37.
1525 Decommission SAIA-SG38.
1555 Complete soil gas sampling @ SAIA-SG37.
1630 Leave ELG metals property.

Prepared by: E. Gillura

Signature:

DAR 031411

Gilbane

TAILGATE SAFETY MEETING

Date: 4-22-14 Time: 0700 Page: 1 of 1
Customer: US EPA R9 Project: SAIA Contract #: EP-S9-08-03 Proj. #: 07163.0064
Work Description: soil gas sampling

EMERGENCY PROCEDURES

Emergency Contact: 911 Emergency Number: 911
Hospital/Clinic: St. Francis Medical Center Address: 4264 MLK Blvd, Lynwood, CA
Evacuation Procedures: meet at ITSI field vehicle for head count

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Lynwood Fire Dept	310-603-5270	Jeremy Sawyer	303-858-0965
Don Gruber	916-853-1839		

SITE HAZARDS

Physical Hazards	Chemical Hazards (include chemical products)
equipment/vehicular traffic, drill rig, pinch points, pressurized lines, noise, head/back/eye injuries	TCE, cis-1,2-DCE, 1,4-Dioxane, metals
noise, head/back/eye injuries, slips/trips/falls	

SITE ENTRY REQUIREMENTS

Check-In Procedures: check-in w/ Gilbane field lead
Training Requirements: HAZWOPER, hazard communication, 1st Aid/CPR
Minimum PPE Required: Level D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work:
Specific safety issues/work practices:

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Ruben Gutierrez		GDT			
Eric Curson		H&P			
Marcial Martinez		H+P			

MEETING CONDUCTED BY

Health & Safety Officer: Ed Gillera (Name (printed)) _____ (Signature)
Site Superintendent: _____ (Name (printed)) _____ (Signature)

Gilbane

SUMMA Canister Sample Collection Log

Project No./Task Code: 07163.0064	Date: 4-22-14
Project Name: SAIA	Field Crew: E. Corson & M. Montemayor
Location ID: SAIA-SB/SG39	Sample ID: SAIA-SG39-15
Site ID: n/a	Event ID: n/a

Sample Location

Northing:	Easting:	Height:

Sampling System

Canister Serial No.: 1579E	Location Sketch: – inside ELG structure on SW corner of property
Canister Certification Date: 4-3-14 (cert file 040314K10)	
Canister Leak Check Date: 4-22-14	
Flow Controller Serial No.: n/a	

Sampling Log

Parameter	Start	Stop
Time	1052	1100
Canister Pressure (in Hg)	-30	-4
Ambient Temperature	64° F	64° F
Flow Rate (mL/min)	n/a	n/a

Weather Conditions:

64° F, overcast, wind from W @ 2mph, 73% humidity, pressure 30.02 in.

(source: www.wunderground)

Observations and Comments:

Laboratory Analytical Method(s):

TO-15

Sampler's Printed Name: Ed Gillera	Sampler's Signature:

Gilbane

Daily Activity Report (DAR)

Project Name: SAIA	Page 1 of 1
Project No./Task Code: 07163.0004	Date: 4-23-14
Description of Work: soil gas sampling	
Visitors / Subcontractors: H&P	
Weather: AM: 60°F, cloudy/PM: 70°F, partly cloudy	

Description of Field Activities

0730 Arrive @ ELG Metals property.
0800 H&P staff arrive. Conduct H&S meeting. Do site walk-through w/ H&P technician.
0820 Set up on SAIA-SG36 (SE corner of ELG property).
1005 Complete sampling @ SAIA-SG36.
1020 Decommission wells SAIA-SG37 & -36. Pull tubing out when possible, cut tubing, pour grout seal, and finish surface w/ concrete (~6").
1040 Complete activities @ ELG property.
1100 Return to SAIA property. Set up on SAIA-SG24.
1120 High concentrations of COCs detected ~~in~~ @ 35'. Conduct multiple sample runs w/ various dilutions.
1410 Complete sampling @ SAIA-SG24.
1430 Set up on SAIA-SG26.
1630 Complete sampling @ SAIA-SG26.
1640 Secure gate and leave site.

Prepared by: E. Gilkes | Signature:

DAR 031411

Gilbane

SUMMA Canister Sample Collection Log

Project No./Task Code: 07163.0064	Date: 4-23-14
Project Name: SAIA	Field Crew: M. Montemayor
Location ID: SAIA-SG24	Sample ID: SAIA-SG24-EQS
Site ID: n/a	Event ID: n/a

Sample Location

Northing:	Easting:	Height:

Sampling System

Canister Serial No.: 1555E	Location Sketch: - NE corner of SAIA property, along rear perimeter wall
Canister Certification Date: 4/3/14 (cert file a1031 4K06)	
Canister Leak Check Date: 4/23/14	
Flow Controller Serial No.: n/a	

Sampling Log

Parameter	Start	Stop
Time	1305	1310
Canister Pressure (in Hg)	-30	-4
Ambient Temperature	71° F	71° F
Flow Rate (mL/min)	n/a	n/a

Weather Conditions:
71° F, clear, winds 5 mph W, 48% humidity, pressure 30.02 in

source: www.wunderground.com

Observations and Comments:

Laboratory Analytical Method(s):
TO-15

Sampler's Printed Name:	Sampler's Signature:
Ed Gillera	

Gilbane

SUMMA Canister Sample Collection Log

Project No./Task Code: 07163.0064	Date: 4/23/14
Project Name: SAIA	Field Crew: M. Montemayor
Location ID: SAIA-SG36	Sample ID: SAIA-SG36035
Site ID: n/a	Event ID: n/a

Sample Location

Northing:	Easting:	Height:

Sampling System

Canister Serial No.: 1581E	Location Sketch: -- SE corner of ELG metals property. Approx. 10' east of historical MW-14
Canister Certification Date: 4/3/14 (cert file 040314K11)	
Canister Leak Check Date: 4/23/14	
Flow Controller Serial No.: n/a	

Sampling Log

Parameter	Start	Stop
Time	1003	1008
Canister Pressure (in Hg)	-30	-2
Ambient Temperature	67° F	67° F
Flow Rate (mL/min)	n/a	n/a

Weather Conditions:

42°F, cloudy, winds 5 mph NSW, 74 % humidity, pressure 30.02 in.

(source: www.wunderground.com)

Observations and Comments:

Laboratory Analytical Method(s):

TO-15

Sampler's Printed Name: Ed Gillera	Sampler's Signature:

Gilbane

TAILGATE SAFETY MEETING

Date: 4-23-14 Time: 0800 Page: 1 of 1
Customer: US EPA R9 Project: SAIA Contract #: EP-S9-08-03 Proj. #: 07163.0064
Work Description: soil gas sampling

EMERGENCY PROCEDURES

Emergency Contact: 911 Emergency Number: 911
Hospital/Clinic: St. Francis Medical Center Address: 4264 MLK Blvd, Lynwood, CA
Evacuation Procedures: meet at ITSI field vehicle for head count

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Lynwood Fire Dept	310-603-5270	Jeremy Sawyer	303-858-0965
Don Gruber	916-853-1839		

SITE HAZARDS

Physical Hazards	Chemical Hazards (include chemical products)
equipment/vehicular traffic, drill rig, pinch points, pressurized lines, noise, head/back/eye injuries	TCE, cis-1,2-DCE, 1,4-Dioxane, metals
noise, head/back/eye injuries, slips/trips/falls	

SITE ENTRY REQUIREMENTS

Check-In Procedures: check-in w/ Gilbane field lead
Training Requirements: HAZWOPER, hazard communication, 1st Aid/CPR
Minimum PPE Required: Level D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work: working around active scrap metals operation.
Specific safety issues/work practices:

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Manual Montemayor		H+P			

MEETING CONDUCTED BY

Health & Safety Officer: Ed Gillera (Name (printed)) _____ (Signature)
Site Superintendent: _____ (Name (printed)) _____ (Signature)

Gilbane

Daily Activity Report (DAR)

Project Name: SAIA	Page 1 of 1
Project No./Task Code: 07163.0064	Date: 4-24-14
Description of Work: soil gas sampling	
Visitors / Subcontractors: H&P	
Weather: AM - 60°F, clear/sunny PM - 73°F, clear	

Description of Field Activities

0730 Arrive @ SAIA site.
0800 H&P staff arrives. Conduct H&S meeting.
0805 Set up on SAIA-SG26 (finish 25' interval).
0820 Set up on SAIA-SG29, begin purging.
0945 Collect split sample SAIA-SG29-ES.
1110 Complete sampling @ SAIA-SG29.
1115 Set up on SAIA-SG28 location. Begin purging.
1300 Strong vacuum @ the 25' interval. Allow well to ~~equilibrate~~ equilibrate before attempting to collect a sample.
1320 No sample for SAIA-SG28-25. Vacuum in well.
1336 Complete sampling @ SAIA-SG28.
1345 Set up @ SAIA-SG31. Begin purging
1515 Complete sampling @ SAIA-SG31.
1520 Set up @ SAIA-SG30. Begin purging.
1625 Complete sampling SAIA-SG30-5 & -15.
1635 Secure gate, leave site.

Prepared by: T. Gilera | Signature:

DAR 031411

Gilbane

SUMMA Canister Sample Collection Log

Project No./Task Code: 07163.0064	Date: 4-24-14
Project Name: SAIA	Field Crew: A. Vaquer & M. Montemayor
Location ID: SAIA-SG29	Sample ID: SAIA-SG29-ES
Site ID: n/a	Event ID: n/a

Sample Location

Northing:	Easting:	Height:

Sampling System

Canister Serial No.: 1578E	Location Sketch: - along rear perimeter wall, near SE corner of ELC metals structure (on other side of wall)
Canister Certification Date: 4/3/14 (cert file 040314K08)	
Canister Leak Check Date: 4/24/14	
Flow Controller Serial No.: n/a	

Sampling Log

Parameter	Start	Stop
Time	0945	0950
Canister Pressure (in Hg)	-30	-4
Ambient Temperature	67°F	67°F
Flow Rate (mL/min)	n/a	n/a

Weather Conditions:
64°F, winds 2 mph WSW, 62% humidity, pressure 30.05 in

source: www.wunderground.com

Observations and Comments:

Laboratory Analytical Method(s):
TO-15

Sampler's Printed Name: Ed Gillera	Sampler's Signature:

Gilbane

TAILGATE SAFETY MEETING

Date: 4-24-14 Time: 0730 Page: 1 of 1
Customer: US EPA R9 Project: SAIA Contract #: EP-S9-08-03 Proj. #: 07163.0064
Work Description: soil gas sampling

EMERGENCY PROCEDURES

Emergency Contact: 911 Emergency Number: 911
Hospital/Clinic: St. Francis Medical Center Address: 4264 MLK Blvd, Lynwood, CA
Evacuation Procedures: meet at ITSI field vehicle for head count

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Lynwood Fire Dept	310-603-5270	Jeremy Sawyer	303-858-0965
Don Gruber	916-853-1839		

SITE HAZARDS

Physical Hazards	Chemical Hazards (include chemical products)
equipment/vehicular traffic, drill rig, pinch points, pressurized lines, noise, head/back/eye injuries	TCE, cis-1,2-DCE, 1,4-Dioxane, metals
noise, head/back/eye injuries, slips/trips/falls	

SITE ENTRY REQUIREMENTS

Check-In Procedures: check-in w/ Gilbane field lead
Training Requirements: HAZWOPER, hazard communication, 1st Aid/CPR
Minimum PPE Required: Level D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work:
Specific safety issues/work practices:

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Andrew Wagner		H&P			
Marcial Montemayor		H&P			

MEETING CONDUCTED BY

Health & Safety Officer: Ed Gillera (Name (printed)) (Signature)
Site Superintendent: (Name (printed)) (Signature)

Gilbane

Daily Activity Report (DAR)

Project Name: SAIA	Page 1 of 1
Project No./Task Code: 09163.0064	Date: 4/25/14
Description of Work: soil gas sampling	
Visitors / Subcontractors: H&P	
Weather: AM - 61°F, partly cloudy / PM - 70°F, cloudy	

Description of Field Activities

0730 Arrive onsite.
0745 H&P arrive - Conduct H&S meeting. Set up on SAIA-SG30.
0904 Collect split sample SAIA-SG30-E25.
0940 Complete sampling @ SAIA-SG30.
0945 Set up on SAIA-SG32. Start purging.
1013 Collect split sample SAIA-SG32-E15.
1055 Complete sampling @ SAIA-SG32.
1100 Set up on SAIA-SG33. Start purging.
1319 Collect split sample SAIA-SG33-E35
1325 Complete sampling @ SAIA-SG33.
1335 Set up on SAIA-SG34. Start purge.
1525 Complete sampling @ SAIA-SG34.
1535 Abandon wells SAIA-24, -26, -29, -30, -31, -32, -33, & -34. - ~~pour grout seal~~
⇒ pull out sample tubing, pour grout seal, and finish surface w/ asphalt, concrete, or native material.
1615 Secure gate, leave site.

Prepared by: E. Gillera

Signature:

DAR 031411

Gilbane

SUMMA Canister Sample Collection Log

Project No./Task Code: 07163.0064	Date: 4/25/14
Project Name: SAIA	Field Crew: K. Schindler & M. Montemayor
Location ID: SAIA-SG33	Sample ID: SAIA-SG33-E25
Site ID: N/A	Event ID: N/A

Sample Location

Northing:	Easting:	Height:

Sampling System

Canister Serial No.: 1580E	Location Sketch:
Canister Certification Date: 4/3/14 (Certfile 040314K10)	
Canister Leak Check Date: 4/25/14	
Flow Controller Serial No.: N/A	

Sampling Log

Parameter	Start	Stop
Time	1319	1325
Canister Pressure (in Hg)	-30	-6
Ambient Temperature	70°F	70° F
Flow Rate (mL/min)	n/a	n/a

Weather Conditions:

70°F, partly cloudy, winds 7mph N, 59% humidity, pressure 29.95 in

Source: www.wunderground.com

Observations and Comments:

Laboratory Analytical Method(s):

TO-15

Sampler's Printed Name: Ed Gillera	Sampler's Signature:

Gilbane

SUMMA Canister Sample Collection Log

Project No./Task Code: 07163.0064	Date: 4/25/14
Project Name: SAIA	Field Crew: K. Schindler & M. Montemayor
Location ID: SAIA-SG30	Sample ID: SAIA-SG30-E25
Site ID: N/A	Event ID: N/A

Sample Location

Northing:	Easting:	Height:

Sampling System

Canister Serial No.: 1502E	Location Sketch:
Canister Certification Date: 4/3/14 (cert file 040314K04)	
Canister Leak Check Date: 4/25/14	
Flow Controller Serial No.: N/A	

Sampling Log

Parameter	Start	Stop
Time	0904	0908
Canister Pressure (in Hg)	-30	-4
Ambient Temperature	63°F	63°F
Flow Rate (mL/min)	N/A	N/A

Weather Conditions:
61°F, winds 3 mph NNW, 81% humidity, pressure 29.97 in

Observations and Comments:

Laboratory Analytical Method(s):
TO-15

Sampler's Printed Name: Ed Gillera	Sampler's Signature:

Gilbane

SUMMA Canister Sample Collection Log

Project No./Task Code: 07163.0064	Date: 4/25/14
Project Name: SAIA	Field Crew: K. Schindler & M. Montemayor
Location ID: SAIA-SG32	Sample ID: SAIA-SG32-E15
Site ID: N/A	Event ID: N/A

Sample Location

Northing:	Easting:	Height:

Sampling System

Canister Serial No.: 1577E	Location Sketch:
Canister Certification Date: 4/3/14 (Cert file 040314K07)	
Canister Leak Check Date: 4/25/14	
Flow Controller Serial No.: n/a	

Sampling Log

Parameter	Start	Stop
Time	1013	1019
Canister Pressure (in Hg)	-30	-4
Ambient Temperature	~67°F	~67°F
Flow Rate (mL/min)	n/a	n/a

Weather Conditions:

67°F, cloudy, winds 6 mph WSW, 63% humidity, pressure 29.99 in.

Observations and Comments:

Laboratory Analytical Method(s):

TO-15

Sampler's Printed Name: Ed Gillera	Sampler's Signature:

Gilbane

TAILGATE SAFETY MEETING

Date: 4/25/14 Time: 0730 Page: 1 of 1
Customer: US EPA R9 Project: SAIA Contract #: EP-S9-08-03 Proj. #: 07163.0064
Work Description: soil gas sampling

EMERGENCY PROCEDURES

Emergency Contact: 911 Emergency Number: 911
Hospital/Clinic: St. Francis Medical Center Address: 4264 MLK Blvd, Lynwood, CA
Evacuation Procedures: meet at ITSI field vehicle for head count

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Lynwood Fire Dept	310-603-5270	Jeremy Sawyer	303-858-0965
Don Gruber	916-853-1839		

SITE HAZARDS

Physical Hazards	Chemical Hazards (include chemical products)
equipment/vehicular traffic, drill rig, pinch points, pressurized lines, noise, head/back/eye injuries	TCE, cis-1,2-DCE, 1,4-Dioxane, metals
noise, head/back/eye injuries, slips/trips/falls	

SITE ENTRY REQUIREMENTS

Check-In Procedures: check-in w/ Gilbane field lead
Training Requirements: HAZWOPER, hazard communication, 1st Aid/CPR
Minimum PPE Required: Level D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work:
Specific safety issues/work practices:

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Marcel Monteagudo		H&P			
Kurt Schneider		H&P			

MEETING CONDUCTED BY

Health & Safety Officer: Ed Gillera (Name printed) _____ (Signature)
Site Superintendent: _____ (Name printed) _____ (Signature)

Gilbane

Daily Activity Report (DAR)

Project Name: SAIA	Page 1 of 1
Project No./Task Code: 07163.0064	Date: 4-28-14
Description of Work: soil gas sampling	
Visitors / Subcontractors: H+P	
Weather: AM- 57° F, clear/sunny PM- 74° F, clear/sunny	

Description of Field Activities

0735 Arrive onsite.
0805 H&P staff arrive onsite. Conduct H&S meeting. Set up on SAIA-SG35 location. Start purging.
0942 Collect split sample SAIA-SG35-E25.
1030 Complete sampling @ SAIA-SG35. Move to next location
1035 Set up on SAIA-SG25 location.
1200 Strong vacuum @ the 25-ft interval. Allow bell to re-equilibrate prior to sampling.
1325 Complete sampling @ SAIA-~~SG27~~ SG25. Move to next location.
1335 Set up on SAIA-SG27.
1342 Collect split sample SAIA-SG27-E5.
1624 Complete sampling for 5', 15', & 25' intervals. 35' interval will be sampled on the following day.
1635 Secure gate and leave site.

Prepared by: E. Cabrera	Signature:

DAR 031411

Gilbane

TAILGATE SAFETY MEETING

Date: 4-28-14 Time: 0730 Page: 1 of 1
Customer: US EPA R9 Project: SAIA Contract #: EP-S9-08-03 Proj. #: 07163.0064
Work Description: soil and soil gas sampling

EMERGENCY PROCEDURES

Emergency Contact: 911 Emergency Number: 911
Hospital/Clinic: St. Francis Medical Center Address: 4264 MLK Blvd, Lynwood, CA
Evacuation Procedures: meet at ITSI field vehicle for head count

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Lynwood Fire Dept	310-603-5270	Jeremy Sawyer	303-858-0965
Don Gruber	916-853-1839		

SITE HAZARDS

Physical Hazards	Chemical Hazards (include chemical products)
equipment/vehicular traffic, drill rig, pinch points, pressurized lines, noise, head/back/eye injuries	TCE, cis-1,2-DCE, 1,4-Dioxane, metals
noise, head/back/eye injuries, slips/trips/falls	

SITE ENTRY REQUIREMENTS

Check-In Procedures: check-in w/ Gilbane field lead
Training Requirements: HAZWOPER, hazard communication, 1st Aid/CPR
Minimum PPE Required: Level D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work:
Specific safety issues/work practices:

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Andrew Wagner		H&P			
Marcial Montemayor		H+P			

MEETING CONDUCTED BY

Health & Safety Officer: Ed Gillera (Name (printed)) _____ (Signature)
Site Superintendent: _____ (Name (printed)) _____ (Signature)

Gilbane

SUMMA Canister Sample Collection Log

Project No./Task Code: 07163.0064	Date: 4-28-14
Project Name: SAIA	Field Crew: M. Montemayor & A. Wagner
Location ID: SAIA-SG35	Sample ID: SAIA-SG35-E25
Site ID: n/a	Event ID: n/a

Sample Location

Northing:	Easting:	Height:

Sampling System

Canister Serial No.: 1554E	Location Sketch:
Canister Certification Date: 4-3-14 (certified 040314K05)	
Canister Leak Check Date: 4-28-14	
Flow Controller Serial No.: n/a	

Sampling Log

Parameter	Start	Stop
Time	0942	0947
Canister Pressure (in Hg)	-30	-4
Ambient Temperature	67°F	67°F
Flow Rate (mL/min)	n/a	n/a

Weather Conditions:

67°F, clear/sunny, winds 2 mph W, 65% humidity, 30.07 in pressure

source: www.wunderground.com

Observations and Comments:

Laboratory Analytical Method(s):

TO-15

Sampler's Printed Name: Ed Gillera	Sampler's Signature:

Gilbane

SUMMA Canister Sample Collection Log

Project No./Task Code: 07163.0064	Date: 4/28/14
Project Name: SAIA	Field Crew: M. Montemayor & A. Wagner
Location ID: SAIA-SG27	Sample ID: SAIA-SG27-ES
Site ID: n/a	Event ID: n/a

Sample Location

Northing:	Easting:	Height:

Sampling System

Canister Serial No.: 1583E	Location Sketch:
Canister Certification Date: 4/3/14 (cert file 040314K12)	
Canister Leak Check Date: 4/28/14	
Flow Controller Serial No.: n/a	

Sampling Log

Parameter	Start	Stop
Time	1342	1347
Canister Pressure (in Hg)	-30	-2
Ambient Temperature	74° F	74° F
Flow Rate (mL/min)	n/a	n/a

Weather Conditions:

74° F, clear/sunny, winds 9 mph N, 45% humidity, 30.02 in pressure

source: www.wunderground.com

Observations and Comments:

Laboratory Analytical Method(s):

TO-15

Sampler's Printed Name:	Sampler's Signature:
Ed Gillera	

Gilbane

Daily Activity Report (DAR)

Project Name: SAIA	Page 1 of 1
Project No./Task Code: 07163.0004	Date: 4-29-14
Description of Work: Soil gas sampling, surveying	
Visitors / Subcontractors: H&P, Calvada	
Weather: AM - 74°F, clear/sunny PM - 88°F, clear/sunny	

Description of Field Activities

0730 Arrive onsite
0755 H&P staff arrive onsite. Conduct H&S meeting. Set up on SAIA-SG27-35. Start purge.
0935 Complete sampling @ SAIA-SG27. Move to next location.
0940 Set up on SAIA-SG19 location. Start purge.
0950 Calvada surveying arrives onsite. Conduct site walk.
1100 High levels of CVCs detected @ shallow intervals & deep intervals (5' & 15'; ~~25'~~ 35') multiple runs/dilutions required.
1435 Complete sampling @ SAIA-SG19.
1440 Set up on SAIA-SG22. Start purge.
1558 Collect split sample SAIA-SG22-E25.
1625 Complete sampling 5', 15', & 25' intervals. 35' ~~sample~~ interval to be sampled on the following day.
1635 Calvada survey crew completing locations on Wood Ave.
1645 Secure gate. Leave site.

Prepared by: E. Gilleva	Signature:

DAR 031411

Gilbane

TAILGATE SAFETY MEETING

Date: 4-29-14 Time: 0730 Page: 1 of 1
Customer: US EPA R9 Project: SAIA Contract #: EP-S9-08-03 Proj. #: 07163.0064
Work Description: soil and soil gas sampling

EMERGENCY PROCEDURES

Emergency Contact: 911 Emergency Number: 911
Hospital/Clinic: St. Francis Medical Center Address: 4264 MLK Blvd, Lynwood, CA
Evacuation Procedures: meet at ITSI field vehicle for head count

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Lynwood Fire Dept	310-603-5270	Jeremy Sawyer	303-858-0965
Don Gruber	916-853-1839		

SITE HAZARDS

Physical Hazards	Chemical Hazards (include chemical products)
equipment/vehicular traffic, drill rig, pinch points, pressurized lines, noise, head/back/eye injuries	TCE, cis-1,2-DCE, 1,4-Dioxane, metals
noise, head/back/eye injuries, slips/trips/falls	

SITE ENTRY REQUIREMENTS

Check-In Procedures: check-in w/ Gilbane field lead
Training Requirements: HAZWOPER, hazard communication, 1st Aid/CPR
Minimum PPE Required: Level D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work:
Specific safety issues/work practices:

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Andrew Wagner		H&P			
Marcel Montemayor		H&P			
MIKE ANDERSEN		CALVADA			
Cesar Mendoza		CALVADA			

MEETING CONDUCTED BY

Health & Safety Officer: Ed Gillera (Name (printed)) (Signature)
Site Superintendent: (Name (printed)) (Signature)

Gilbane

SUMMA Canister Sample Collection Log

Project No./Task Code: 07163.0064	Date: 4/29/14
Project Name: SAIA	Field Crew: M. Montemayor & A. Wagner
Location ID: SAIA-SG22	Sample ID: SAIA-SG22-E25
Site ID: n/a	Event ID: n/a

Sample Location

Northing:	Easting:	Height:

Sampling System

Canister Serial No.: 7341	Location Sketch:
Canister Certification Date: 11/8/13 (cert file 110813M27.D)	
Canister Leak Check Date: 4/29/14	
Flow Controller Serial No.: n/a	

Sampling Log

Parameter	Start	Stop
Time	1558	1603
Canister Pressure (in Hg)	-30	-6
Ambient Temperature	88° F	88° F
Flow Rate (mL/min)	n/a	n/a

Weather Conditions:

88°F, clear, winds 14 mph WSW, 9% humidity, 30.00 in pressure

source: www.wunderground.com

Observations and Comments:

Laboratory Analytical Method(s):

TO-15

Sampler's Printed Name: Ed Gillera	Sampler's Signature:

Gilbane

Daily Activity Report (DAR)

Project Name: SAIA

Page 1 of 1

Project No./Task Code: 07163.0004

Date: 4-30-14

Description of Work: Soil gas sampling

Visitors / Subcontractors: A&P

Weather: AM - 72°F, clear/sunny PM - 93°F, clear/sunny

Description of Field Activities

0730 Arrive onsite.
0800 A&P staff arrives. Conduct HAS meeting.
0805 Set up on SAIA-SG22 (35') and start purge.
0900 Complete sampling @ SAIA-SG22. Move to next location.
0910 Set up on SAIA-SG21 Start purge.
1130 Complete sampling @ SAIA-SG21. Move to next location.
1140 Set up on SAIA-SG20 location. Start purge.
1400 High concentrations of COCs detected @ 5', 15', 25' intervals. Multiple runs/dilutions required.
1620 Multiple runs required @ 25' interval, ~~unable to collect~~ sample for 35-ft interval will be collected the following day.
1635 Secure gate and leave site.

Prepared by: E. Gilbera

Signature:

DAR 031411

Gilbane

TAILGATE SAFETY MEETING

Date: 4/30/14 Time: 0730 Page: 1 of 1
Customer: US EPA R9 Project: SAIA Contract #: EP-S9-08-03 Proj. #: 07163.0064
Work Description: soil and soil gas sampling

EMERGENCY PROCEDURES

Emergency Contact: 911 Emergency Number: 911
Hospital/Clinic: St. Francis Medical Center Address: 4264 MLK Blvd, Lynwood, CA
Evacuation Procedures: meet at ITSI field vehicle for head count

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Lynwood Fire Dept	310-603-5270	Jeremy Sawyer	303-858-0965
Don Gruber	916-853-1839		

SITE HAZARDS

Physical Hazards	Chemical Hazards (include chemical products)
equipment/vehicular traffic, drill rig, pinch points, pressurized lines, noise, head/back/eye injuries	TCE, cis-1,2-DCE, 1,4-Dioxane, metals
noise, head/back/eye injuries, slips/trips/falls	

SITE ENTRY REQUIREMENTS

Check-In Procedures: check-in w/ Gilbane field lead
Training Requirements: HAZWOPER, hazard communication, 1st Aid/CPR
Minimum PPE Required: Level D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work:
Specific safety issues/work practices:

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Andrew Wagner		H&P			
Marcel Martemyer		H+P			

MEETING CONDUCTED BY

Health & Safety Officer: Ed Gillera (Name (printed)) _____ (Signature)
Site Superintendent: _____ (Name (printed)) _____ (Signature)

Gilbane

Daily Activity Report (DAR)

Project Name: SAIA

Page 1 of 1

Project No./Task Code: 07163.0004

Date: 5/1/14

Description of Work: Soil gas sampling

Visitors / Subcontractors: H&P

Weather: AM - 75°F, clear/sunny PM - 94°F, clear/sunny

Description of Field Activities

0730 Arrive onsite.
0800 H&P staff arrives onsite. Conduct H&S meeting.
0805 Set up on SAIA-SG20 ('35' interval). Start purge.
0818 Collect split sample SAIA-SG20-E35.
0900 High concentrations of COCs detected in sample. Multiple runs / dilutions required.
0945 Complete sampling @ SAIA-SG20. Abandon well. Move to next location.
1020 Set up on SAIA-SG40. Start purge.
1315 Complete sampling @ SAIA-SG40. Abandon well. Move to next location.
1320 Set up on SAIA-SG41 location (5215 McCallum). Start purge.
~~1330 Complete sampling @ SAIA-SG41~~
1327 Collect split sample SAIA-SG41-E5.
1530 Complete sampling @ SAIA-SG41. Abandon well. Move to next location.
1600 Set up on SAIA-SG43. Start purge.
1610 Samples for 15', 25', & 35' intervals will be collected the following day.
1630 Secure well, leave area.

Prepared by: E. Gilkey

Signature:

DAR 031411

Gilbane

TAILGATE SAFETY MEETING

Date: 5/1/14 Time: 0730 Page: 1 of 1
Customer: US EPA R9 Project: SAIA Contract #: EP-S9-08-03 Proj. #: 07163.0064
Work Description: soil and soil gas sampling

EMERGENCY PROCEDURES

Emergency Contact: 911 Emergency Number: 911
Hospital/Clinic: St. Francis Medical Center Address: 4264 MLK Blvd, Lynwood, CA
Evacuation Procedures: meet at ITSI field vehicle for head count

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Lynwood Fire Dept	310-603-5270	Jeremy Sawyer	303-858-0965
Don Gruber	916-853-1839		

SITE HAZARDS

Physical Hazards	Chemical Hazards (include chemical products)
equipment/vehicular traffic, drill rig, pinch points, pressurized lines, noise, head/back/eye injuries	TCE, cis-1,2-DCE, 1,4-Dioxane, metals
noise, head/back/eye injuries, slips/trips/falls	

SITE ENTRY REQUIREMENTS

Check-In Procedures: check-in w/ Gilbane field lead
Training Requirements: HAZWOPER, hazard communication, 1st Aid/CPR
Minimum PPE Required: Level D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work:
Specific safety issues/work practices:

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Mavis Martemaggi		H+P			
Andrew Wagner		H+P			

MEETING CONDUCTED BY

Health & Safety Officer: Ed Gillera (Name (printed)) _____ (Signature)
Site Superintendent: _____ (Name (printed)) _____ (Signature)

Gilbane

SUMMA Canister Sample Collection Log

Project No./Task Code: 07163.0064	Date: 5/1/14
Project Name: SAIA	Field Crew: M. Montemayor & A. Wagner
Location ID: SAIA-SG41	Sample ID: SAIA-SG41-ES
Site ID: n/a	Event ID: n/a

Sample Location

Northing:	Easting:	Height:

Sampling System

Canister Serial No.: 7458	Location Sketch: 5215 McCallum
Canister Certification Date: 11/8/2013 (cert file 1108131M28.D)	
Canister Leak Check Date: 5/1/14 ~~cert file~~ 1100	
Flow Controller Serial No.: n/a	

Sampling Log

Parameter	Start	Stop
Time	1327	
Canister Pressure (in Hg)	-30	
Ambient Temperature	94° F	94° F
Flow Rate (mL/min)	n/a	n/a

Weather Conditions:

94°F, clear, winds 7 mph NE, 8% humidity, 30.04 in pressure

www.wunderground.com

Observations and Comments:

Laboratory Analytical Method(s):

TO-15

Sampler's Printed Name:	Sampler's Signature:
Ed Gillera	

Gilbane

SUMMA Canister Sample Collection Log

Project No./Task Code: 07163.0064	Date: 5/1/14
Project Name: SAIA	Field Crew: M. Montemayor & A. Wagner
Location ID: SAIA-SG20	Sample ID: SAIA-SG20-E35
Site ID: n/a	Event ID: n/a

Sample Location

Northing:	Easting:	Height:

Sampling System

Canister Serial No.: 7340	Location Sketch:
Canister Certification Date: 11/8/13 (cert file 110813m26.D)	
Canister Leak Check Date: 4/30/14	
Flow Controller Serial No.: n/a	

Sampling Log

Parameter	Start	Stop
Time	0818	0822
Canister Pressure (in Hg)	-30	-2
Ambient Temperature	75°F	75°F
Flow Rate (mL/min)	n/a	n/a

Weather Conditions:

75°F, winds 5 mph ENE, 19% humidity, pressure 30.09 in

source - www.wunderground.com

Observations and Comments:

Laboratory Analytical Method(s):

TO-15

Sampler's Printed Name: Ed Gillera	Sampler's Signature:

Gilbane

Daily Activity Report (DAR)

Project Name: SAIA	Page 1 of 1
Project No./Task Code: 07163.0064	Date: 5/2/14
Description of Work: soil gas sampling	
Visitors / Subcontractors: H+P	
Weather: AM - 79°F, clear/sunny	

Description of Field Activities

0800 Arrive @ SAIA-SG43 location. Meet H+P staff and conduct HAS meeting.
0810 Set up on SAIA-SG43 (1.5' interval) start purge.
0945 Complete sampling @ SAIA-SG43. Move to next location.
0950 Set up on SAIA-SG42. Start purge.
1155 Complete sampling @ SAIA-SG42.
1200 Abandon wells -SG43 + -SG42.
1220 Leave area.
1230 Prepare split samples for shipping.
1330 Drop off samples @ FedEX for shipment to RI lab.
1400 Leave FedEX.

Prepared by: E. Gilkey

Signature:

DAR 031411

Gilbane

TAILGATE SAFETY MEETING

Date: 5/2/14 Time: 0800 Page: 1 of 1
Customer: US EPA R9 Project: SAIA Contract #: EP-S9-08-03 Proj. #: 07163.0064
Work Description: soil and soil gas sampling

EMERGENCY PROCEDURES

Emergency Contact: 911 Emergency Number: 911
Hospital/Clinic: St. Francis Medical Center Address: 4264 MLK Blvd, Lynwood, CA
Evacuation Procedures: meet at ITSI field vehicle for head count

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Lynwood Fire Dept	310-603-5270	Jeremy Sawyer	303-858-0965
Don Gruber	916-853-1839		

SITE HAZARDS

Physical Hazards	Chemical Hazards (include chemical products)
equipment/vehicular traffic, drill rig, pinch points, pressurized lines, noise, head/back/eye injuries	TCE, cis-1,2-DCE, 1,4-Dioxane, metals
noise, head/back/eye injuries, slips/trips/falls	

SITE ENTRY REQUIREMENTS

Check-In Procedures: check-in w/ Gilbane field lead
Training Requirements: HAZWOPER, hazard communication, 1st Aid/CPR
Minimum PPE Required: Level D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work:
Specific safety issues/work practices:

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Andrew Wagner		H&P			
Marcial Montemayor		H&P			

MEETING CONDUCTED BY

Health & Safety Officer: Ed Gillera (Name (printed)) _____ (Signature)
Site Superintendent: _____ (Name (printed)) _____ (Signature)

Daily Activity Report (DAR)

Gilbane

Project Name: Southern Avenue Industrial Area Superfund Site	Page 1 of 1
Project No./Task Code: J1630064.00	Date: 04/25/2017
Description of Work: Soil gas Investigation + rock	
Visitors / Subcontractors: Greg Drilling	
Weather: Sunny	

Description of Field Activities

7:00 Arrive at site
7:15 Tailgate Safety Meeting
8:00 Start drilling SAIA-SG/SB44 encountered refusal at 13' Proceeded on angle boring
9:20 Installing soil gas probe at 5, ~~15~~, 25, 35
10:00 Moving to SAIA-SG/SB45
10:30 Begin hand augering ie angle
11:10 Bottom of 35 feet
12 50 Install soil gas probe at 5, 15, 25, 35
1330 Sign up paper work
14.00 Take samples to Fedex

Prepared by: Rogisio Leong Signature:

DAR 080614.doc

SAJA

Project ~~Fertis Webb~~ Superfund Site
Project Number J163007200
Location South Gate
Surface Elevation N/A

Logged By Rogerio Leong
Date Drilled 04/25/2017
Total Depth 35'
Boring Diameter 2"
Drillers Gregg Drilling
Method DPT

Boring No. SAJA SG/SB-44
Sheet 1 Of 1

Boring Location Sketch

Depth (Feet)	Sample Interval	Blow Counts	PID (ppm) B-zone/stem/sample	Water Level	Well Construction	Lithology / USCS	DESCRIPTION
0			0				silty sand, dark brown, loose, moist, some gravel, no odor
			0				
5			0				
10							silty clay, dark brown, moist, stiff, no odor
15			0				
20							moist
25			0				clay, dark brown, stiff, moist, no odor
30							
			0				

Casing Diameter _____ Casing Length _____ From _____ To _____
Screen Size _____ Screen Length _____ From _____ To _____
~~Sand Type~~ _____ From _____ To _____
Bentonite Type _____ From _____ To _____
Cement/Grout _____ From _____ To _____
Surface Completion _____

Gilbane

Daily Activity Report (DAR)

Gilbane

Project Name: Southern Avenue Industrial Area Superfund Site	Page 1 of 1
Project No./Task Code: J1630064.00	Date: 04/26/2017
Description of Work: Soil gas Investigation * GW	
Visitors / Subcontractors: Greg Drilling	
Weather: Sunny	

Description of Field Activities

7:00 Tailgate Safety
7:20 DPT rig sets up at SAIA-SG/SB46
7:35 Tailgate with well install Crew.
10:00 Set up at SAIA-SG/SB47
10:15 Drill rig crew start / hand augering for the well install
12:00 Finish installing SAIA-SG/SB47
Drillers drilling at JW-MW-13
13:00 Working on Scribe to ship soil samples out.
14:00 Drillers stopped at 40' with larger augers

Prepared by: Rogerio Leong

Signature:

014451

Gilbane

Local Address: _____

Chain-Of-Custody

Project Name and Number: SAJA / J163006400
Project Manager: Don Gruber
Site Location: City of South Gate, CA

Laboratory Name: USEPA Region 9 Laboratory
Address: 1337 S. 46th Street Bldg 201 Richmond CA 94804
Contact Name: Rich Bauer
Phone: (510) 412 2389

Date: 4/27/2017
Page: 2 of 2

Sample I.D.	Date	Time	Sample Depth (top) True Lic / Preserve	Sample Depth (bottom) Field Pressure	No. of Containers	Sample Matrix	Analysis: TO-15	Preservative: —	Container Type: 400 mL	Special Instructions/Comments: Canister #
SAJA-SG46-05	4/27/17	10:52	-29	-4.5	1	Air	X			1970
SAJA-SG46-15	4/27/17	1109	-30	-8	1	Air	X			885
SAJA-SG46-25	4/27/17	1117	-30	-7	1	Air	X			892
SAJA-SG46-35	4/27/17	1127	-29	-3.5	1	Air	X			1115
SAJA-SG47-05	4/27/17	1142	-29	-5	1	Air	X			1990
SAJA-SG47-15	4/27/17	1152	-30	-9.5	1	Air	X			1061
SAJA-SG47-25	4/27/17	1202	-29	-5	1	Air	X			889
SAJA-SG47-35	4/27/17	1212	-29.5	-9.5	1	Air	X			1101

Sampled By: Rogerio Leang
Signature:
Special Instructions: email results to TBecr@gilbanecO.com
Send Results to: (w/fax #) (925) 256 8998
Turnaround Time: Standard

Sampler: Rogerio Leang

Relinquished By/Affiliation:	Date:	Time:
Rogerio Leang / Gilbane	4/27/17	1400

Courier/Airbill No.:

Received By/Affiliation:	Date:	Time:

Original – Laboratory Yellow – Field/Office

Graphics/Stationery/chain_custody0614.ai

014450

Gilbane

Local Address: _____

Chain-Of-Custody

Project Name and Number: SAJA / J163006400
Project Manager: Don Grubes
Site Location: City of South Gate, CA

Laboratory Name: EPA Region 9 Laboratory
Address: 1337 S. 46th Street Bldg 201
Richmond CA 94804
Contact Name: Sample coordinator
Phone: (510) 412 2389

Date: 4/27/2017
Page: 1 of 2

Sample I.D.	Date	Time	Sample Depth (top) – Initial pressure	Sample Depth (bottom) – Final Pressure	No. of Containers	Sample Matrix	Analysis: TO-15	Preservative: -	Container Type: 400ml	Special Instructions/Comments: Canister #
SAJA - SG44 - 5	04/27/17	0835	-29.5	0	1	Air	X			8601
SAJA - SG44 - 15	4/27/17	0858	-30	4.4	1	Air	X			883
SAJA - SG44 - 25	4/27/17	0915	-29.5	0	1	Air	X			633
SAJA - SG44 - 35	4/27/17	0928	-28.5	-8	1	Air	X			646
SAJA - SG45 - 5	4/27/17	0947	-29	-7	1	Air	X			854
SAJA - SG45 - 15	4/27/17	1015	-30	-4	1	Air	X			Pt 405/1091
SAJA - SG45 - 16	4/27/17	1019	-29	-4.2	1	Air	X			651
SAJA - SG45 - 25	4/27/17	1027	-29	-7	1	Air	X			863
SAJA - SG45 - 35	4/27/17	1037	-30	-7	1	Air	X			1106

Pt

Sampled By: Rogerio Leung
Signature: [signature]
Special Instructions: email to Tber@gilbanecorp.com

Send Results to: (w/fax #) (925) 256 8998
Turnaround Time: Standard

Sampler:

Relinquished By/Affiliation:	Date:	Time:
Rogerio Leung	4/27/17	1400

Courier/Airbill No.:

Received By/Affiliation:	Date:	Time:

Original – Laboratory Yellow – Field/Office

Graphics/Stationery/chain_custody0614.ai

EPA Region 9 Laboratory
Canister Shipment Report

Instructions to Samplers:

The canisters listed below are provided per your request. Please note the following conditions for their use:

- Do not mark or attach adhesive labels to the canisters or the canister box.
- Record sample identification on one side of the supplied wire labels. Please leave one side of the sample tag blank for laboratory use.
- Please return all enclosed canister fittings and devices with the canisters. Note that these devices are designed for a single use.
- Return all canisters 30 days after receipt, even if not used. Contact the Region 9 Laboratory for replacement canisters if needed.
- Identify any canisters or devices that are damaged or contaminated.
- Include a copy of this Shipment Report with the return shipment.

Canister	Type	Status*	Cert. Date	Cert. File
633	400 mL	Certified Clean	2/15/2017	021517K05
646	400 mL	Certified Clean	1/26/2017	012617N07
651	400 mL	Certified Clean	1/26/2017	012617N08
854	400 mL	Certified Clean	1/24/2017	012417NA11
863	400 mL	Certified Clean	2/15/2017	021517K06
883	400 mL	Certified Clean	1/26/2017	012617N09
885	400 mL	Certified Clean	2/15/2017	021517K07
889	400 mL	Certified Clean	2/15/2017	021517K08
892	400 mL	Certified Clean	1/26/2017	012617N10
1061	400 mL	Certified Clean	1/26/2017	012617N11
1091	400 mL	Certified Clean	2/15/2017	021517K09
1098	400 mL	Certified Clean	1/24/2017	012417NA18
1101	400 mL	Certified Clean	1/26/2017	012617N12
1104	400 mL	Certified Clean	1/26/2017	012617N13
1106	400 mL	Certified Clean	1/26/2017	012617N14
1115	400 mL	Certified Clean	1/26/2017	012617N15
1970	400 mL	Certified Clean	1/26/2017	012617N16
1990	400 mL	Certified Clean	1/26/2017	012617N17

+ 18 restrictors
+ 1 gauge check > MEtorp 4/14/17

Canisters individually certified are shown as Certified. Canisters certified in batches are shown as Batch Certified

TAILGATE SAFETY MEETING

Date 04/25/2017 Time 7:00 Project Number: ~~07163.0068~~ 07163.006400

Project: ~~KBVM OU3~~ SAJA

Site Location: ~~Lake Nacimiento, San Luis Obispo County, California~~ City of South Gate

Type of Work: drilling and sampling

Chemicals Used (if any)

Safety Topics Presented

Protective Clothing/Equipment Level D

Chemical Hazards Yes

Physical Hazards Slip trip falls

Emergency Procedures 911

St. Francis Medical Center (310) 603-5270

Hospital ~~Twin Cities Community Hospital Phone No. 805-434-3500~~ Ambulance Phone No. 911

~~1100 Las tablas Road, Templeton, CA 93456~~ 3630 Imperial Hwy, Lynwood, CA

Special Equipment

Other

Attendees

Printed Name	Signature
Darrell Whisler	
BERNIX Aguilar	
JAM GRIZZLE	Samuel P. Grizzle

Conducted By: Rogelio Leong Signature:

Supervisor:

Gilbane TAILGATE SAFETY MEETING

Date 4/26/2017 Time 7:00 Project Number: ~~07163.0068~~ 07163.006400

Project: ~~KBVM OU3~~ SAJA

Site Location: ~~Lake Nacimiento, San Luis Obispo County, California~~ City of South Gate

Type of Work: drilling and sampling

Chemicals Used (if any)

Safety Topics Presented

Protective Clothing/Equipment Level D

Chemical Hazards VOCs

Physical Hazards Slip trip falls

Emergency Procedures 911

Hospital St. Francis Medical Center (310) 603-5270

~~Twin Cities Community Hospital Phone No. 805-434-3500~~ Ambulance Phone No. 911

~~1100 Las tablas Road, Templeton, CA 93456~~ 3630 Imperial Hwy, Lynwood, CA

Special Equipment

Other

Attendees

Printed Name		Signature
Darrell Whisler	GDT	
Neil Ware	GDT	
Anthony Stumpf	GDT	
Juan C. Sifuentes	GDT	
JIM GRIZZLE		

Conducted By: Rogelio Leong Signature:

Supervisor:

Soil Vapor Sample Collection Data

Gilbane

Project Name:	SAIA Superfund Site	Site Location:	City of South Gate
Project Number/Task Code:	J163006400	Date:	4-27-2017
Field Personnel:	Sam Grizzle & Rogerio Leong		
Type of Probe and Advancement Method:	DPT		
Sample ID:	SAIA-SG-44-5		

		Sample Info / Times	Comments
Sample Data	Canister Serial No.	8601	
	Flow Controller Serial No.	NA	
	Sample Depth (Ft.)	5'	
	Tubing length	~~NA~~ 6'	
	Purge Volume and Rate	X3 PV	
	Calculated Duration of Purge (3 tubing volumes)	—	
10-Minute Vacuum-Hold	Time Sample-Train Vacuum-Hold Test Begins	—	
	Initial Canister Vacuum (inches Hg)	-29" Hg	
	Time Sample-Train Vacuum-Hold Test Ends		
	Duration of Vacuum-Hold Test	NA	
	Final Canister Vacuum (inches Hg)	~~29~~ "	
Purge	Time Beginning of Purge	0825	
	Time End of Purge	0830	
	Actual Duration of Purge	5min	
Sample Collection and Tracer Gas Monitoring	Initial Canister Vacuum (inches Hg)	29" Hg	
	Time Canister Opened	0834	
	Measured Helium % initial		
	~~2 min.~~		~~35 min.~~
	4 min.		40 min.
	6min.		45 min.
	8min.		~~50 min.~~
	10 min.		55 min.
	15 min.		60 min.
	20 min.		____ min.
	25 min.		____ min.
	30 min.		____ min.
	~~Comments~~		____ min.
	Time Canister Closed	0835	
	Final Canister Pressure (inches Hg)	0	
	Time of Sample Collection	0835	

Prepared By:	Signature:

Notes: Calculating Purge Volume: Length of tube (ft.) x 5.5 cc/linear foot (1/4" OD Teflon Tube)

Gilbane TAILGATE SAFETY MEETING

Date 4-28-17 Time 0700 Project Number: ~~07163.0068~~ 07163.006400

Project: ~~KBVM OU3~~ SAJA

Site Location: ~~Lake Nacimiento, San Luis Obispo County, California~~ City of South Gate

Type of Work: drilling and sampling

Chemicals Used (if any)

Safety Topics Presented

Protective Clothing/Equipment Level D

Chemical Hazards Yes

Physical Hazards slip trip falls, traffic, overhead machinery, pinch, crush

Emergency Procedures 911

St. Francis Medical Center (310) 603-5270

Hospital ~~Twin Cities Community Hospital Phone No. 805-434-3500~~ Ambulance Phone No. 911

~~1100 Las tablas Road, Templeton, CA 93456~~ 3630 Imperial Hwy, Lynwood, CA

Special Equipment

Other

Attendees

Printed Name	Signature
Sam Grizzle	
Bernix Aguilar	

Conducted By: Rogerio Leung Signature:

Supervisor:

Daily Activity Report (DAR)

Gilbane

Project Name: Southern Avenue Industrial Area Superfund Site	Page 1 of 1
Project No./Task Code: J1630064.00	Date: 04/27/2017
Description of Work: Soilgas Investigation #1006	
Visitors / Subcontractors: Greg Drilling	
Weather: Sunny	

Description of Field Activities

7:00 Tailgate Safety.
~~7:30~~ Drillers continue on NW-13
8:00 set up for soil gas sampling
10:00 Move to SAIA-SG 46-
10:30 Drillers installing well
12:30 End of Soil Gas sampling at all four locations
13:00 Sam leaves to drop samples off at Fedex
14:00 Drillers grouting well NW-13
16:00 Transferring soil cutting to soil Bin
16:15 Setting well box
17:00 Leave site

Prepared by: Rogerio Leong

Signature:

Gilbane TAILGATE SAFETY MEETING

Date 04/27/2017 Time 0845 Project Number: ~~07163.0068~~ 07163.006400

Project: ~~KBVM OU3~~ SAJA

Site Location: ~~Lake Nacimiento, San Luis Obispo County, California~~ City of South Gate

Type of Work: drilling and sampling

Chemicals Used (if any)

Safety Topics Presented

Protective Clothing/Equipment Level D

Chemical Hazards VOCs

Physical Hazards Slip trip falls

Emergency Procedures 911

Hospital St. Francis Medical Center (310) 603-5270
~~Twin Cities Community Hospital Phone No. 805-434-3500~~ Ambulance Phone No. 911
~~1100 Las tablas Road, Templeton, CA 93456~~ 3630 Imperial Hwy, Lynwood, CA

Special Equipment

Other

Attendees

Printed Name	Signature
Juan Siguenza	
Dan Osmyn	
SAM GRIZZLE	

Conducted By: Rogelio Leon Signature:

Supervisor:

Soil Vapor Sample Collection Data

Gilbane

Project Name:	SAIA Superfund Site	Site Location:	City of South Gate
Project Number/Task Code:	J163006400	Date:	4-27-17
Field Personnel:	Sam Grizzle + Rogerio Leon		
Type of Probe and Advancement Method:	DPT Sample ID: SAIA-SG47-35		

Sample ID:

		Sample Info / Times	Comments
Sample Data	Canister Serial No.	1101	
	Flow Controller Serial No.	NA	
	Sample Depth (Ft.)	35'	
	Tubing length	37'	
	Purge Volume and Rate	2 LPM	
	Calculated Duration of Purge (3 tubing volumes)	5 min	
10-Minute Vacuum-Hold	Time Sample-Train Vacuum-Hold Test Begins		
	Initial Canister Vacuum (inches Hg)	-29.5" Hg	
	Time Sample-Train Vacuum-Hold Test Ends		
	Duration of Vacuum-Hold Test		
	Final Canister Vacuum (inches Hg)	-9.5" Hg	
Purge	Time Beginning of Purge	1205	
	Time End of Purge	1210	
	Actual Duration of Purge	5 min	
Sample Collection and Tracer Gas Monitoring	Initial Canister Vacuum (inches Hg)	-29.5" Hg	
	Time Canister Opened		
	Measured Helium % initial		
	2 min.	35 min.	
	4 min.	40 min.	
	6min.	45 min.	
	8min.	50 min.	
	10 min.	55 min.	
	15 min.	60 min.	
	20 min.	____ min.	
	25 min.	____ min.	
	30 min.	____ min.	
	Comments	____ min.	
	Time Canister Closed	1212	
	Final Canister Pressure (inches Hg)	-9.5" Hg	
	Time of Sample Collection	1212	

Prepared By:	**Signature:**

Notes: Calculating Purge Volume: Length of tube (ft.) x 5.5 cc/linear foot (1/4" OD Teflon Tube)

37 x 5.5 = 203.5 ml = 0.203 ml x 3 = 0.6

Soil Vapor Sample Collection Data

Gilbane

Project Name: SAIA Superfund Site | Site Location: City of South Gate

Project Number/Task Code: J163006400 | Date: 4-27-17

Field Personnel: Sam Grizzle + Rogerio Leong

Type of Probe and Advancement Method: DPT | Sample ID: SAIA SG-47-25

Sample ID:

		Sample Info / Times	Comments
Sample Data	Canister Serial No.	889	
	Flow Controller Serial No.	NA	
	Sample Depth (Ft.)	25'	
	Tubing length	27'	
	Purge Volume and Rate	2 LPM	
	Calculated Duration of Purge (3 tubing volumes)	5 min	
10-Minute Vacuum-Hold	Time Sample-Train Vacuum-Hold Test Begins		
	Initial Canister Vacuum (inches Hg)	-29" Hg	
	Time Sample-Train Vacuum-Hold Test Ends		
	Duration of Vacuum-Hold Test		
	Final Canister Vacuum (inches Hg)	-5" Hg	
Purge	Time Beginning of Purge	1155	
	Time End of Purge	1200	
	Actual Duration of Purge	5 min	
Sample Collection and Tracer Gas Monitoring	Initial Canister Vacuum (inches Hg)	-29" Hg	
	Time Canister Opened		
	Measured Helium % initial		
	2 min.		35 min.
	4 min.		40 min.
	6min.		45 min.
	8min.		50 min.
	10 min.		55 min.
	15 min.		60 min.
	20 min.		____ min.
	25 min.		____ min.
	30 min.		____ min.
	Comments		____ min.
	Time Canister Closed	1202	
	Final Canister Pressure (inches Hg)	-5" Hg	
	Time of Sample Collection	1202	

Prepared By: | **Signature:**

Notes: Calculating Purge Volume: Length of tube (ft.) x 5.5 cc/linear foot (1/4" OD Teflon Tube)

Soil Vapor Sample Collection Data

Gilbane

Project Name:	SAIA Superfund Site	Site Location:	City of South Gate
Project Number/Task Code:	J163006400	Date:	4-27-17
Field Personnel:	Sam Grizzle + Rogerio Leong		
Type of Probe and Advancement Method:	DPT	Sample ID:	SAIA-SG47-15

Sample ID:

		Sample Info / Times	Comments
Sample Data	Canister Serial No.	1061	
	Flow Controller Serial No.	NA	
	Sample Depth (Ft.)	15'	
	Tubing length	17'	
	Purge Volume and Rate	2 LPM	
	Calculated Duration of Purge (3 tubing volumes)	5 min	
10-Minute Vacuum-Hold	Time Sample-Train Vacuum-Hold Test Begins		
	Initial Canister Vacuum (inches Hg)	-30" Hg	
	Time Sample-Train Vacuum-Hold Test Ends		
	Duration of Vacuum-Hold Test		
	Final Canister Vacuum (inches Hg)	-9.5" Hg	
Purge	Time Beginning of Purge	1145	
	Time End of Purge	1150	
	Actual Duration of Purge	5 min	
Sample Collection and Tracer Gas Monitoring	Initial Canister Vacuum (inches Hg)	-30" Hg	
	Time Canister Opened		
	Measured Helium % initial		
	~~2 min.~~	~~35 min.~~	
	4 min.	40 min.	
	6min.	45 min.	
	8min.	50 min.	
	10 min.	55 min.	
	15 min.	60 min.	
	20 min.	____ min.	
	25 min.	____ min.	
	30 min.	____ min.	
	~~Comments~~	____ min.	
	Time Canister Closed	1152	
	Final Canister Pressure (inches Hg)	-9.5" Hg	
	Time of Sample Collection	1152	

Prepared By:	**Signature:**

Notes: Calculating Purge Volume: Length of tube (ft.) x 5.5 cc/linear foot (1/4" OD Teflon Tube)

Soil Vapor Sample Collection Data

Gilbane

Project Name: SAIA Superfund Site	Site Location: City of South Gate
Project Number/Task Code: J163006400	Date: 4-27-17
Field Personnel: Sam Grizzle + Rogerio Leong	
Type of Probe and Advancement Method: DPT	Sample ID: SAIA-SG47-05

Sample ID:

		Sample Info / Times	Comments
Sample Data	Canister Serial No.	1990	
	Flow Controller Serial No.	NA	
	Sample Depth (Ft.)	05'	
	Tubing length	07'	
	Purge Volume and Rate	2 LPM	
	Calculated Duration of Purge (3 tubing volumes)	5 min	
10-Minute Vacuum-Hold	Time Sample-Train Vacuum-Hold Test Begins		
	Initial Canister Vacuum (inches Hg)	-29" Hg	
	Time Sample-Train Vacuum-Hold Test Ends		
	Duration of Vacuum-Hold Test		
	Final Canister Vacuum (inches Hg)	-5" Hg	
Purge	Time Beginning of Purge	1135	
	Time End of Purge	1140	
	Actual Duration of Purge	5 min	
Sample Collection and Tracer Gas Monitoring	Initial Canister Vacuum (inches Hg)	-29" Hg	
	Time Canister Opened		
	Measured Helium % initial		
	2 min.	35 min.	
	4 min.	40 min.	
	6min.	45 min.	
	8min.	50 min.	
	10 min.	55 min.	
	15 min.	60 min.	
	20 min.	____ min.	
	25 min.	____ min.	
	30 min.	____ min.	
	Comments	____ min.	
	Time Canister Closed	1142	
	Final Canister Pressure (inches Hg)	-5" Hg	
	Time of Sample Collection	1142	

Prepared By:

Signature:

Notes: Calculating Purge Volume: Length of tube (ft.) x 5.5 cc/linear foot (1/4" OD Teflon Tube)

Soil Vapor Sample Collection Data

Gilbane

Project Name:	SAIA Superfund Site	Site Location:	City of South Gate
Project Number/Task Code:	J163006400	Date:	4-27-17
Field Personnel:	Sam Grizzle + Rogerio Leon		
Type of Probe and Advancement Method:	DPT	Sample ID: SAIA-SG46-35	

Sample ID:

		Sample Info / Times	Comments
Sample Data	Canister Serial No.	1115	
	Flow Controller Serial No.	NA	
	Sample Depth (Ft.)	25'	
	Tubing length	27'	
	Purge Volume and Rate	2 LPM	
	Calculated Duration of Purge (3 tubing volumes)	5 min	
10-Minute Vacuum-Hold	Time Sample-Train Vacuum-Hold Test Begins		
	Initial Canister Vacuum (inches Hg)	-29" Hg	
	Time Sample-Train Vacuum-Hold Test Ends		
	Duration of Vacuum-Hold Test		
	Final Canister Vacuum (inches Hg)	-3.5" Hg	
Purge	Time Beginning of Purge	1120	
	Time End of Purge	1125	
	Actual Duration of Purge	5 min	
Sample Collection and Tracer Gas Monitoring	Initial Canister Vacuum (inches Hg)		
	Time Canister Opened		
	Measured Helium % initial		
	2 min.	35 min.	
	4 min.	40 min.	
	6min.	45 min.	
	8min.	50 min.	
	10 min.	55 min.	
	15 min.	60 min.	
	20 min.	____ min.	
	25 min.	____ min.	
	30 min.	____ min.	
	Comments	____ min.	
	Time Canister Closed	1127	
	Final Canister Pressure (inches Hg)	-3.5" Hg	
	Time of Sample Collection	1127	

Prepared By:

Signature:

Notes: Calculating Purge Volume: Length of tube (ft.) x 5.5 cc/linear foot (1/4" OD Teflon Tube)

Soil Vapor Sample Collection Data

Gilbane

Project Name:	SAIA Superfund site	Site Location:	City of South Gate
Project Number/Task Code:	J163006400	Date:	4-27-17
Field Personnel:	Sam Grizzle + ROGERIO LEONG		
Type of Probe and Advancement Method:	DPT	Sample ID:	SAIA-SG46-25

Sample ID:

		Sample Info / Times	Comments
Sample Data	Canister Serial No.	892	
	Flow Controller Serial No.	NA	
	Sample Depth (Ft.)	25'	
	Tubing length	27'	
	Purge Volume and Rate	2 LPM	
	Calculated Duration of Purge (3 tubing volumes)	5 min	
10-Minute Vacuum-Hold	Time Sample-Train Vacuum-Hold Test Begins		
	Initial Canister Vacuum (inches Hg)	-30" Hg	
	Time Sample-Train Vacuum-Hold Test Ends		
	Duration of Vacuum-Hold Test		
	Final Canister Vacuum (inches Hg)	-7" Hg	
Purge	Time Beginning of Purge	1110	
	Time End of Purge	1115	
	Actual Duration of Purge	5 min	
Sample Collection and Tracer Gas Monitoring	Initial Canister Vacuum (inches Hg)	-30" Hg	
	Time Canister Opened		
	Measured Helium % initial		
	2 min.	35 min.	
	4 min.	40 min.	
	6min.	45 min.	
	8min.	50 min.	
	10 min.	55 min.	
	15 min.	60 min.	
	20 min.	____ min.	
	25 min.	____ min.	
	30 min.	____ min.	
	Comments	____ min.	
	Time Canister Closed	1117	
	Final Canister Pressure (inches Hg)	-7" Hg	
	Time of Sample Collection	1117	

Prepared By:

Signature:

Notes: Calculating Purge Volume: Length of tube (ft.) x 5.5 cc/linear foot (1/4" OD Teflon Tube)

Soil Vapor Sample Collection Data

Gilbane

Project Name: SAIA Superfund Site	Site Location: City of South Gate
Project Number/Task Code: J163006400	Date: 4-27-17
Field Personnel: Sam Grizzle	
Type of Probe and Advancement Method: DPT	Sample ID: SAIA-SG46-15

Sample ID:

		Sample Info / Times	Comments
Sample Data	Canister Serial No.	885	Tight Formation
	Flow Controller Serial No.	NA	
	Sample Depth (Ft.)	15'	
	Tubing length	17'	
	Purge Volume and Rate	2 LPM	
	Calculated Duration of Purge (3 tubing volumes)	5 min	
10-Minute Vacuum-Hold	Time Sample-Train Vacuum-Hold Test Begins		
	Initial Canister Vacuum (inches Hg)	-30" Hg	
	Time Sample-Train Vacuum-Hold Test Ends		
	Duration of Vacuum-Hold Test		
	Final Canister Vacuum (inches Hg)	~~1100~~ -8" Hg	
Purge	Time Beginning of Purge	~~1105~~ 1100	
	Time End of Purge	1105	
	Actual Duration of Purge	5 min	
Sample Collection and Tracer Gas Monitoring	Initial Canister Vacuum (inches Hg)	-30" Hg	
	Time Canister Opened		

Measured Helium % initial

2 min.		35 min.	
4 min.		40 min.	
6min.		45 min.	
8min.		50 min.	
10 min.		55 min.	
15 min.		60 min.	
20 min.		____ min.	
25 min.		____ min.	
30 min.		____ min.	
Comments		____ min.	

Time Canister Closed	1109	
Final Canister Pressure (inches Hg)	-8" Hg	
Time of Sample Collection	1109	

Prepared By:

Signature:

Notes: Calculating Purge Volume: Length of tube (ft.) x 5.5 cc/linear foot (1/4" OD Teflon Tube)

Soil Vapor Sample Collection Data

Gilbane

Project Name:	SAIA Superfund Site	Site Location:	City of South Gate
Project Number/Task Code:	J163006400	Date:	4-27-17
Field Personnel:	Sam Grizzle + Rogerio Leong		
Type of Probe and Advancement Method:	DPT	Sample ID:	SAIA-SG46-05

Sample ID:

		Sample Info / Times	Comments
Sample Data	Canister Serial No.	1970	
	Flow Controller Serial No.	NA	
	Sample Depth (Ft.)	5'	
	Tubing length	7'	
	Purge Volume and Rate	2 LPM	
	Calculated Duration of Purge (3 tubing volumes)	5 min	
10-Minute Vacuum-Hold	Time Sample-Train Vacuum-Hold Test Begins		
	Initial Canister Vacuum (inches Hg)	-29" Hg	
	Time Sample-Train Vacuum-Hold Test Ends		
	Duration of Vacuum-Hold Test		
	Final Canister Vacuum (inches Hg)	-4.5" Hg	
Purge	Time Beginning of Purge	1045	
	Time End of Purge	1050	
	Actual Duration of Purge	5 min	
Sample Collection and Tracer Gas Monitoring	Initial Canister Vacuum (inches Hg)		
	Time Canister Opened		
	Measured Helium % initial		
	2 min.	35 min.	
	4 min.	40 min.	
	6min.	45 min.	
	8min.	50 min.	
	10 min.	55 min.	
	15 min.	60 min.	
	20 min.	____ min.	
	25 min.	____ min.	
	30 min.	____ min.	
	Comments	____ min.	
	Time Canister Closed	1052	
	Final Canister Pressure (inches Hg)	-4.5" Hg	
	Time of Sample Collection	1052	

Prepared By:

Signature:

Notes: Calculating Purge Volume: Length of tube (ft.) x 5.5 cc/linear foot (1/4" OD Teflon Tube)

Soil Vapor Sample Collection Data

Gilbane

Project Name: SAIA Superfund Site | Site Location: City of South Gate

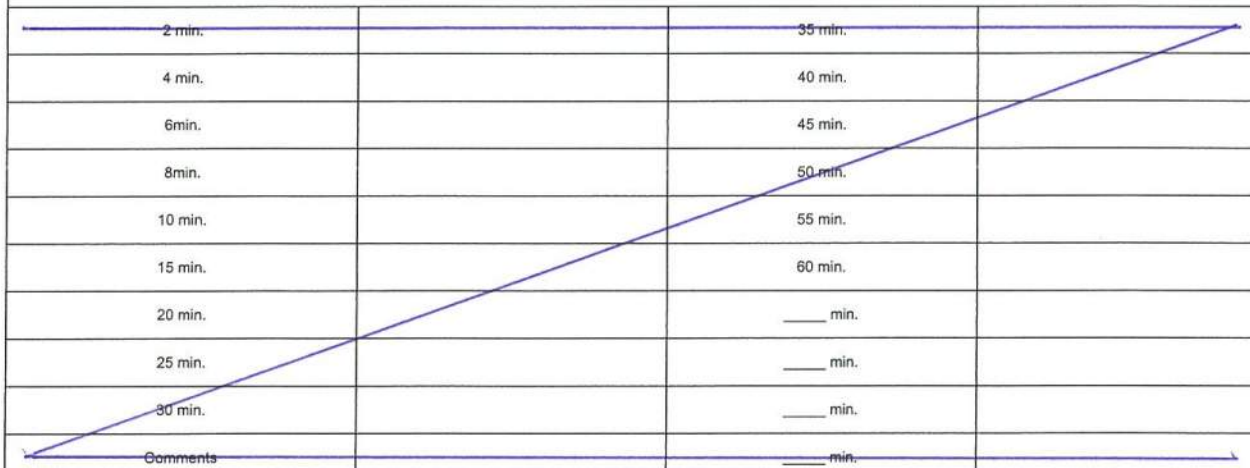
Project Number/Task Code: J163006400 | Date: 4-27-17

Field Personnel: Sam Grizzle + Rogerio Leong

Type of Probe and Advancement Method: DPT | Sample ID #: SAIA-SG45-35

Sample ID:

		Sample Info / Times	Comments
Sample Data	Canister Serial No.	1106	
	Flow Controller Serial No.	NA	
	Sample Depth (Ft.)	35'	
	Tubing length	37'	
	Purge Volume and Rate	2 LPM	
	Calculated Duration of Purge (3 tubing volumes)	5 min	
10-Minute Vacuum-Hold	Time Sample-Train Vacuum-Hold Test Begins		
	Initial Canister Vacuum (inches Hg)	-30" Hg	
	Time Sample-Train Vacuum-Hold Test Ends		
	Duration of Vacuum-Hold Test		
	Final Canister Vacuum (inches Hg)	-7" Hg	
Purge	Time Beginning of Purge	1030	
	Time End of Purge	1035	
	Actual Duration of Purge	5 min	
Sample Collection and Tracer Gas Monitoring	Initial Canister Vacuum (inches Hg)	-30" Hg	
	Time Canister Opened		
	Measured Helium % initial		
	~~2 min.~~		~~35 min.~~
	4 min.		40 min.
	6min.		45 min.
	8min.		~~50 min.~~
	10 min.		55 min.
	15 min.		60 min.
	20 min.		____ min.
	25 min.		____ min.
	30 min.		____ min.
	~~Comments~~		____ min.
	Time Canister Closed	1037	
	Final Canister Pressure (inches Hg)	-7" Hg	
	Time of Sample Collection	1037	



Prepared By: | Signature:

Notes: Calculating Purge Volume: Length of tube (ft.) x 5.5 cc/linear foot (1/4" OD Teflon Tube)

Soil Vapor Sample Collection Data

Gilbane

Project Name:	SAIA Superfund Site	Site Location:	City of South Gate
Project Number/Task Code:	J163006400	Date:	4-27-17
Field Personnel:	Sam Grizzle + ROGERIO LEONG		
Type of Probe and Advancement Method:	DPT	Sample ID:	SAIA-SG-45-25

Sample ID:

		Sample Info / Times	Comments
Sample Data	Canister Serial No.	863	
	Flow Controller Serial No.	NA	
	Sample Depth (Ft.)	25'	
	Tubing length	27'	
	Purge Volume and Rate	2 LPM	
	Calculated Duration of Purge (3 tubing volumes)	5 min	
10-Minute Vacuum-Hold	Time Sample-Train Vacuum-Hold Test Begins		
	Initial Canister Vacuum (inches Hg)	-29" Hg	
	Time Sample-Train Vacuum-Hold Test Ends		
	Duration of Vacuum-Hold Test		
	Final Canister Vacuum (inches Hg)	-7" Hg	
Purge	Time Beginning of Purge	1020	
	Time End of Purge	1025	
	Actual Duration of Purge	5 min	
Sample Collection and Tracer Gas Monitoring	Initial Canister Vacuum (inches Hg)	-29	
	Time Canister Opened		
	Measured Helium % initial		
	2 min.		35 min.
	4 min.		40 min.
	6min.		45 min.
	8min.		50 min.
	10 min.		55 min.
	15 min.		60 min.
	20 min.		____ min.
	25 min.		____ min.
	30 min.		____ min.
	Comments		____ min.
	Time Canister Closed	1027	
	Final Canister Pressure (inches Hg)	-7" Hg	
	Time of Sample Collection	1027	

Prepared By:

Signature:

Notes: Calculating Purge Volume: Length of tube (ft.) x 5.5 cc/linear foot (1/4" OD Teflon Tube)

Soil Vapor Sample Collection Data

Gilbane

Project Name: SAIA Superfund Site | Site Location: City of South Gate

Project Number/Task Code: J163006400 | Date: 4-27-17

Field Personnel: Sam Grizzle + Rogerio Leong

Type of Probe and Advancement Method: DPT Sample ID: SAIA-SG45-15 ; DUP SAIA-SG45-16

Sample ID:

		Sample Info / Times	Comments
Sample Data	Canister Serial No.	~~H04~~ 1091	Duplicate 651
	Flow Controller Serial No.	NA	NA
	Sample Depth (Ft.)	15	15
	Tubing length	17	17
	Purge Volume and Rate	2 LPM	2 LPM
	Calculated Duration of Purge (3 tubing volumes)	5 min	5 min
10-Minute Vacuum-Hold	Time Sample-Train Vacuum-Hold Test Begins		
	Initial Canister Vacuum (inches Hg)	-30" Hg	-29" Hg
	Time Sample-Train Vacuum-Hold Test Ends		
	Duration of Vacuum-Hold Test		
	Final Canister Vacuum (inches Hg)	-4" Hg	-2"
Purge	Time Beginning of Purge	0952	0952 Very tight formation
	Time End of Purge	0957	0957
	Actual Duration of Purge	5 min	5min
Sample Collection and Tracer Gas Monitoring	Initial Canister Vacuum (inches Hg)	-30" Hg	-29" Hg
	Time Canister Opened		
	Measured Helium % initial		
	2 min.		35 min.
	4 min.		40 min.
	6min.		45 min.
	8min.		50 min.
	10 min.		55 min.
	15 min.		60 min.
	20 min.		____ min.
	25 min.		____ min.
	30 min.		____ min.
	Comments		____ min.
	Time Canister Closed	1015	1019
	Final Canister Pressure (inches Hg)	-4" Hg	-2" Hg
	Time of Sample Collection	1015	1019

Prepared By: | Signature:

Notes: Calculating Purge Volume: Length of tube (ft.) x 5.5 cc/linear foot (1/4" OD Teflon Tube)

Soil Vapor Sample Collection Data

Gilbane

Project Name:	SAIA Superfund Site	Site Location:	City of South Gate
Project Number/Task Code:	J163006400	Date:	4-27-17
Field Personnel:	Sam Grizzle + Rogerio Leong		
Type of Probe and Advancement Method:	DPT Sample ID: SAIA SG-45-05		

Sample ID:

		Sample Info / Times	Comments
Sample Data	Canister Serial No.	854	
	Flow Controller Serial No.	NA	
	Sample Depth (Ft.)	5'	
	Tubing length	7'	
	Purge Volume and Rate	2 LPM	
	Calculated Duration of Purge (3 tubing volumes)	5 min	
10-Minute Vacuum-Hold	Time Sample-Train Vacuum-Hold Test Begins	—	
	Initial Canister Vacuum (inches Hg)	— 29" Hg	
	Time Sample-Train Vacuum-Hold Test Ends	—	
	Duration of Vacuum-Hold Test	—	
	Final Canister Vacuum (inches Hg)	-7" Hg	
Purge	Time Beginning of Purge	0940	
	Time End of Purge	0945	
	Actual Duration of Purge	5 min	
Sample Collection and Tracer Gas Monitoring	Initial Canister Vacuum (inches Hg)	29" Hg	
	Time Canister Opened		

Measured Helium % initial

2 min.		35 min.	
4 min.		40 min.	
6min.		45 min.	
8min.		50 min.	
10 min.		55 min.	
15 min.		60 min.	
20 min.		____ min.	
25 min.		____ min.	
30 min.		____ min.	
Comments		____ min.	

Time Canister Closed	0947	
Final Canister Pressure (inches Hg)	-7" Hg	
Time of Sample Collection	0947	

Prepared By:	**Signature:**

Notes: Calculating Purge Volume: Length of tube (ft.) x 5.5 cc/linear foot (1/4" OD Teflon Tube)

Soil Vapor Sample Collection Data

Gilbane

Project Name:	SAIA Superfund Site	Site Location:	City of South Gate
Project Number/Task Code:	J163006400	Date:	4-27-17
Field Personnel:	Sam Grizzle + Rogerio Leong		
Type of Probe and Advancement Method:	DPT	Sample ID:	SAIA_SG44-35

Sample ID:

		Sample Info / Times	Comments
Sample Data	Canister Serial No.	646	
	Flow Controller Serial No.	NA	
	Sample Depth (Ft.)	35'	
	Tubing length	37'	
	Purge Volume and Rate	2 LPM	
	Calculated Duration of Purge (3 tubing volumes)	5 min	
10-Minute Vacuum-Hold	Time Sample-Train Vacuum-Hold Test Begins	—	
	Initial Canister Vacuum (inches Hg)	-28.5" Hg	
	Time Sample-Train Vacuum-Hold Test Ends	—	
	Duration of Vacuum-Hold Test	—	
	Final Canister Vacuum (inches Hg)	-8" Hg	
Purge	Time Beginning of Purge	0920	
	Time End of Purge	0925	
	Actual Duration of Purge	5	
Sample Collection and Tracer Gas Monitoring	Initial Canister Vacuum (inches Hg)	28.5	
	Time Canister Opened	1 min	
	Measured Helium % initial		
	2 min.	35 min.	
	4 min.	40 min.	
	6min.	45 min.	
	8min.	50 min.	
	10 min.	55 min.	
	15 min.	60 min.	
	20 min.	____ min.	
	25 min.	____ min.	
	30 min.	____ min.	
	Comments	____ min.	
	Time Canister Closed	0928	
	Final Canister Pressure (inches Hg)	-8" Hg	
	Time of Sample Collection	0928	

Prepared By:	**Signature:**

Notes: Calculating Purge Volume: Length of tube (ft.) x 5.5 cc/linear foot (1/4" OD Teflon Tube)

Soil Vapor Sample Collection Data

Gilbane

Project Name: SAIA Superfund Site	Site Location: City of South Gate
Project Number/Task Code: J163006400	Date: 4-27-17
Field Personnel: Sam Grizzle & Rogerio Leong	
Type of Probe and Advancement Method: DPT	Sample ID: SAIA-SG44-25

Sample ID:

		Sample Info / Times	Comments
Sample Data	Canister Serial No.	633	
	Flow Controller Serial No.	NA	
	Sample Depth (Ft.)	25 ft.	
	Tubing length	27 ft	
	Purge Volume and Rate	2.0 LPM	
	Calculated Duration of Purge (3 tubing volumes)	5 min.	
10-Minute Vacuum-Hold	Time Sample-Train Vacuum-Hold Test Begins	—	
	Initial Canister Vacuum (inches Hg)	-29.5" Hg	
	Time Sample-Train Vacuum-Hold Test Ends	—	
	Duration of Vacuum-Hold Test	—	
	Final Canister Vacuum (inches Hg)	0	
Purge	Time Beginning of Purge	0908	
	Time End of Purge	0913	
	Actual Duration of Purge	5 min	
Sample Collection and Tracer Gas Monitoring	Initial Canister Vacuum (inches Hg)	29.5" min	
	Time Canister Opened	90 Seconds	
	Measured Helium % initial		
	2 min.		35 min.
	4 min.		40 min.
	6min.		45 min.
	8min.		50 min.
	10 min.		55 min.
	15 min.		60 min.
	20 min.		____ min.
	25 min.		____ min.
	30 min.		____ min.
	Comments		____ min.
	Time Canister Closed	0915	
	Final Canister Pressure (inches Hg)	0	
	Time of Sample Collection	0915	

Prepared By: **Signature:**

Notes: Calculating Purge Volume: Length of tube (ft.) x 5.5 cc/linear foot (1/4" OD Teflon Tube)

Soil Vapor Sample Collection Data

Gilbane

Project Name: SAIA Superfund Site | Site Location: City of South Gate

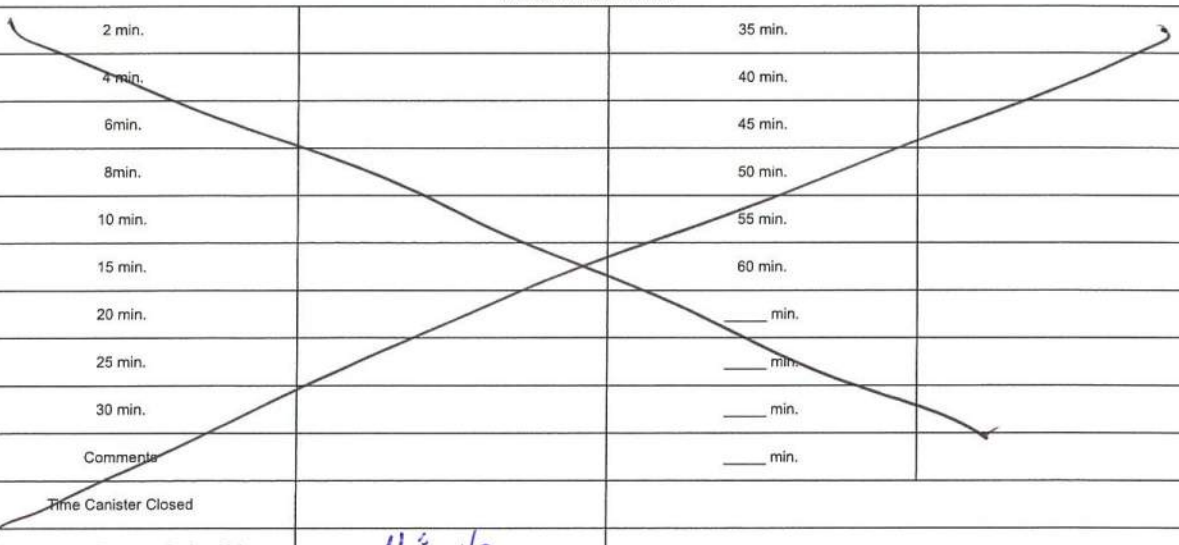
Project Number/Task Code: J163006400 | Date: 4/27/2017

Field Personnel: Sam Grizzle + Rogerio Leong

Type of Probe and Advancement Method: DPT | Sample ID: SAIA-SG44-15

Sample ID:

		Sample Info / Times	Comments
Sample Data	Canister Serial No.	883	
	Flow Controller Serial No.	NA	Stricter
	Sample Depth (Ft.)	15 feet	
	Tubing length	16 ft.	
	Purge Volume and Rate	2.0 LPM	
	Calculated Duration of Purge (3 tubing volumes)	5 minutes	
10-Minute Vacuum-Hold	Time Sample-Train Vacuum-Hold Test Begins	—	
	Initial Canister Vacuum (inches Hg)	-30 in Hg	
	Time Sample-Train Vacuum-Hold Test Ends	—	
	Duration of Vacuum-Hold Test	—	
	Final Canister Vacuum (inches Hg)	-4" Hg	
Purge	Time Beginning of Purge	0850	
	Time End of Purge	0855	
	Actual Duration of Purge	5 minutes	
Sample Collection and Tracer Gas Monitoring	Initial Canister Vacuum (inches Hg)	30 in Hg	
	Time Canister Opened	0856	
	Measured Helium % initial		
	2 min.		35 min.
	4 min.		40 min.
	6min.		45 min.
	8min.		50 min.
	10 min.		55 min.
	15 min.		60 min.
	20 min.		____ min.
	25 min.		____ min.
	30 min.		____ min.
	Comments		____ min.
	Time Canister Closed		
	Final Canister Pressure (inches Hg)	-4" Hg	
	Time of Sample Collection	0858	



Prepared By: | **Signature:**

Notes: Calculating Purge Volume: Length of tube (ft.) x 5.5 cc/linear foot (1/4" OD Teflon Tube)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	Not Required	1	888-423-6030	082016009

GENERATOR

5. Generator's Name and Mailing Address
US EPA Region 9
75 Hawthorne Street SFD-7-3
San Francisco CA 94105
Attn: Karen Jurist
Generator's Phone: 415 972-3170

Generator's Site Address (if different than mailing address)
6211 Southern Ave
South Gate CA 90280

6. Transporter 1 Company Name: American Integrated Services Inc
U.S. EPA ID Number: CAR000148338

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Crosby & Overton, Inc.
1630 W. 17th Street
Long Beach CA 90813
Facility's Phone: 562 432-5445
U.S. EPA ID Number: CAD028408019

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Waste Liquid (Groundwater)	2	DM	110	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Wear proper PPE while handling. Weights or volumes are approximate.
Job# 36009-27-2 Profile# 27578

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: AIS on behalf of Generator - J Sherman
Signature:
Month: 8 Day: 2 Year: 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Eddie LINO
Signature:
Month: 8 Day: 2 Year: 16

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name:
Signature:
Month: Day: Year:

GENERATOR'S/SHIPPER'S INITIAL COPY

52059

American Integrated Services, Inc.

P.O. BOX 92316 LONG BEACH, CA. 90809
Office 310-522-1168 Fax 310-522-1182
24 Hour Emergency Hotline 888-423-6060

TRANSPORTATION WORK ORDER

CUSTOMER NAME: Gilbaine	**JOB #** 36099-27-2	**DATE:** 8-2-16
JOBSITE:		**CONTACT:** Sam Grizzel
ADDRESS: 5211 Southern Ave		**CUSTOMER P.O.:**
CITY: South GATE, CA		

EQUIPMENT:	**Manifest# :**	**Disposal Location:**
☐ LOWBOY **TRUCK #** 416	NON HAZ	
☐ ROLL – OFF ☐ BOX VAN **TRAILER #**_____	082016001	CRRL/RIVERSIDE
☐ VAC TRUCK ☐ STAKE BED		
☐ _____		

Bin #:	**Pickup / Deliver √**	**Return / Destination √**	**BIN LINERS:**
MANIFEST 082016001	2x55DM WATER	ATP yard	☐ USED ___How many ☐ NOT USED
			Tarps:
			☐ Yes
			☐ No

On Site Start	Stop	**DESCRIPTION**
0530	0730	In yard, pre trip, drive to job site,
		Pick up 2x55DM NON-HAZ WATER
		from [illegible] & bring back to yard.

REPORTING TIME	**ENDING TIME**	**TOTAL TIME**	**DEDUCTIBLE TIME**	**NET TIME**
0530				

X _____
DRIVER

X _____
CUSTOMER SIGNATURE

White - Billing • Green - Time Sheet • Yellow - Office • Pink - Driver • Gold - Customer

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAC002739836	1	800-423-6060	011671050 JJK

GENERATOR

5. Generator's Name and Mailing Address

Southern Avenue Industrial Area Superfund Site
75 Hawthorne St.
San Francisco, CA 94105

Generator's Site Address (if different than mailing address)

6211 Southern Avenue
South Gate, CA 90280

Generator's Phone: 415-972-3249

6. Transporter 1 Company Name: American Integrated Services, Inc.

U.S. EPA ID Number: CAR000148338

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Clean Harbors Grassy Mountain, LLC
3 Miles E 7 Miles N of Knolls, Exit 41 off I-80
Grantsville, UT 84029

U.S. EPA ID Number: UTD991301749

Facility's Phone: 435-884-8800

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Waste Polychlorinated Biphenyls, Solid, 9, PG II	2	DM	363	K	261
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

Wear appropriate PPE while handling. Weights or volumes are approximate. 2 x 55 DM
Soil with PCBs
Job#: 33009-14-2 Profile#: CH055886 DW7494669

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] | Signature | Month 07 | Day 19 | Year 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Eddie Lino | Signature: Eddie Lino | Month 07 | Day 19 | Year 13

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name | Signature | Month | Day | Year

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	Not Required	1	888-423-6060	052017020

GENERATOR

5. Generator's Name and Mailing Address
US EPA Region 9
75 Hawthorne Street SFD-7-3
San Francisco CA 94105
Attn: Karen Jurist
Generator's Phone: 415 972-3170

Generator's Site Address (if different than mailing address)
5030 Firestone Blvd.
South Gate CA 90280

6. Transporter 1 Company Name
American Integrated Services Inc
U.S. EPA ID Number
CAR000148338

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Waste Management-Simi Valley Landfill
2801 Madera Road
Simi Valley CA 93065
Facility's Phone: 805 579-7267
U.S. EPA ID Number
Not Required

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Waste Solid (Soil)	001	CM		Y	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Wear proper PPE while handling. Weights or volumes are approximate.
Job# 37011-10-2 Profile# 628709CA

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: AIS on behalf of Generator - J Sherman
Signature: MS
Month Day Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month Day Year

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	Not Required	1	888-423-6060	052017021

GENERATOR

5. Generator's Name and Mailing Address
US EPA Region 9
75 Hawthorne Street SFD-7-3
San Francisco CA 94105
Att: Karen Jurist
Generator's Phone: 415 972-3170

Generator's Site Address (if different than mailing address)
5030 Firestone Blvd.
South Gate CA 90280

6. Transporter 1 Company Name: American Integrated Services Inc
U.S. EPA ID Number: CAR000148338

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Crosby & Overton, Inc.
1630 W. 17th Street
Long Beach CA 90813
Facility's Phone: 562 432-5445
U.S. EPA ID Number: CAD028409019

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous Waste Liquid (Development Water)		DM		G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Wear proper PPE while handling. Weights or volumes are approximate.
Job# 37011-10-2 Profile# 27578

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: AIS on behalf of Generator - J Sherman
Signature
Month Day Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name
Signature
Month Day Year

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

APPENDIX D

SURVEY DATA REPORTS

MONITORING WELLS

WELL	NORTH	EAST	LATITUDE (DD)	LONGITUDE (DD)	TOR (ELEVATION)	FS (ELEVATION)	TOC (ELEVATION)	RISER_HT
MW-01A	1802835.80	6508007.66	33.9461599	-118.1769195	105.26	105.24	104.92	-0.32
MW-01B	1802835.80	6508007.66	33.9461599	-118.1769195	105.26	105.24	104.76	-0.48
MW-01C	1802835.80	6508007.66	33.9461599	-118.1769195	105.26	105.24	104.71	-0.53
MW-02A	1802791.74	6507926.09	33.9460384	-118.1771882	105.34	105.32	104.76	-0.56
MW-02B	1802791.74	6507926.09	33.9460384	-118.1771882	105.34	105.32	104.75	-0.57
MW-02C	1802791.74	6507926.09	33.9460384	-118.1771882	105.34	105.32	104.76	-0.56
MW-03A	1802347.53	6507982.62	33.9448181	-118.1769993	102.62	102.56	102.12	-0.44
MW-03B	1802347.53	6507982.62	33.9448181	-118.1769993	102.62	102.56	102.10	-0.46
MW-03C	1802347.53	6507982.62	33.9448181	-118.1769993	102.62	102.56	102.12	-0.44
MW-04A	1801997.48	6507983.98	33.9438562	-118.1769927	101.45	101.41	100.89	-0.52
MW-04B	1801997.48	6507983.98	33.9438562	-118.1769927	101.45	101.41	101.04	-0.37
MW-04C	1801997.48	6507983.98	33.9438562	-118.1769927	101.45	101.41	100.86	-0.55
MW-05A	1801648.05	6507783.80	33.9428950	-118.1776507	100.56	100.57	99.84	-0.73
MW-05B	1801648.05	6507783.80	33.9428950	-118.1776507	100.56	100.57	99.91	-0.66
MW-05C	1801648.05	6507783.80	33.9428950	-118.1776507	100.56	100.57	99.84	-0.73
MW-06A	1801560.92	6508477.60	33.9426590	-118.1753628	100.75	100.71	100.34	-0.37
MW-06B	1801560.92	6508477.60	33.9426590	-118.1753628	100.75	100.71	100.10	-0.61
MW-06C	1801560.92	6508477.60	33.9426590	-118.1753628	100.75	100.71	100.19	-0.52
MW-07	1802778.32	6507931.05	33.9460016	-118.1771718	105.20	105.20	104.64	-0.56
MW-08	1801659.23	6507681.99	33.9429253	-118.1779864	100.67	100.71	100.15	-0.56

SOIL BORINGS

WELL	NORTH	EAST	LATITUDE (DD)	LONGITUDE (DD)	FS (ELEVATION)
SAIA CPT-10	1801663.69	6507665.97	33.9429375	-118.1780393	100.48
SAIA CPT-11	1801645.88	6507795.29	33.9428891	-118.1776128	100.26
SAIA CPT-12	1801586.37	6508261.66	33.9427279	-118.1760749	100.26
SAIA CPT-13	1801563.03	6508463.32	33.9426647	-118.1754099	100.34
SAIA CPT-2	1803005.78	6508325.60	33.9466285	-118.1758723	104.99
SAIA CPT-3	1802539.05	6508159.22	33.9453452	-118.1764181	103.03
SAIA CPT-4	1802694.97	6507954.80	33.9457727	-118.1770930	104.03
SAIA CPT-5	1802525.46	6507990.37	33.9453070	-118.1769748	103.19
SAIA CPT-6	1802329.89	6507945.63	33.9447694	-118.1771211	102.48
SAIA CPT-7	1802301.47	6508174.44	33.9446924	-118.1763666	102.01
SAIA CPT-8	1801987.74	6508051.66	33.9438298	-118.1767696	101.47
SAIA CPT-9	1802036.69	6508313.90	33.9439655	-118.1759052	101.07
SAIA-SB/SG01	1802811.64	6507738.95	33.9460922	-118.1778054	105.34
SAIA-SB/SG02	1802924.35	6507806.11	33.9464022	-118.1775846	105.31
SAIA-SB/SG03	1802927.41	6507913.12	33.9464112	-118.1772318	105.24
SAIA-SB/SG04	1802866.10	6507904.17	33.9462426	-118.1772609	105.29
SAIA-SB/SG05	1802783.35	6507883.39	33.9460151	-118.1773290	105.13
SAIA-SB/SG06	1802758.59	6508037.30	33.9459479	-118.1768214	104.87
SAIA-SB/SG07	1802784.31	6507979.20	33.9460182	-118.1770131	105.12
SAIA-SB/SG08	1802850.43	6508004.38	33.9462001	-118.1769304	105.27
SAIA-SB/SG09	1802882.53	6507976.29	33.9462881	-118.1770233	105.35
SAIA-SB/SG10	1802902.59	6508001.39	33.9463434	-118.1769406	105.32
SAIA-SB/SG11	1802999.15	6507601.16	33.9466068	-118.1782608	105.63
SAIA-SB/SG12	1802962.19	6507714.25	33.9465058	-118.1778877	105.24
SAIA-SB/SG13	1802703.09	6507900.46	33.9457947	-118.1772722	104.25
SAIA-SB/SG14	1802684.13	6508027.41	33.9457432	-118.1768536	104.29
SAIA-SB/SG15	1802536.00	6507926.05	33.9453357	-118.1771869	103.26
SAIA-SB/SG16	1802528.55	6507980.49	33.9453155	-118.1770073	103.16
SAIA-SB/SG17	1802329.18	6507952.73	33.9447675	-118.1770977	102.44
SAIA-SB/SG-19	1802948.31	6508028.90	33.9464691	-118.1768502	107.46
SAIA-SB/SG-20	1802874.02	6508042.29	33.9462651	-118.1768056	105.72
SAIA-SB/SG-21	1802806.05	6508078.55	33.9460785	-118.1766856	105.29
SAIA-SB/SG-22	1802717.94	6508085.14	33.9458364	-118.1766634	105.21
SAIA-SB/SG-23	1802739.78	6507942.03	33.9458957	-118.1771354	104.83
SAIA-SB/SG-24	1802982.03	6507966.48	33.9465615	-118.1770562	106.59
SAIA-SB/SG-25	1802758.98	6507803.04	33.9459478	-118.1775937	104.89
SAIA-SB/SG-26	1802993.35	6507889.23	33.9465922	-118.1773109	106.40
SAIA-SB/SG-27	1802849.42	6507801.88	33.9461963	-118.1775981	105.30
SAIA-SB/SG-28	1802973.90	6507779.80	33.9465382	-118.1776716	105.25
SAIA-SB/SG-29	1803013.64	6507754.80	33.9466473	-118.1777543	106.00
SAIA-SB/SG-30	1802788.95	6507696.42	33.9460296	-118.1779454	104.86
SAIA-SB/SG-31	1802873.15	6507696.27	33.9462610	-118.1779464	105.27
SAIA-SB/SG-32	1802900.73	6507613.27	33.9463364	-118.1782203	105.30
SAIA-SB/SG-33	1802993.01	6507652.34	33.9465901	-118.1780920	105.66
SAIA-SB/SG-34	1802943.03	6507549.64	33.9464523	-118.1784303	105.56
SAIA-SB/SG-35	1802873.47	6507488.15	33.9462609	-118.1786326	105.33
SAIA-SB/SG-40	1802555.99	6507751.98	33.9453898	-118.1777609	103.57
SAIA-SB/SG-41	1802376.83	6507773.11	33.9448976	-118.1776902	102.75
SAIA-SB/SG-42	1802012.71	6507724.75	33.9438968	-118.1778475	101.21
SAIA-SB/SG-43	1801993.67	6507998.67	33.9438458	-118.1769443	101.47
SAIA-SB12	1802967.03	6507803.36	33.9465195	-118.1775939	105.28

Professional's Name:
Armando D. Dupont

Professional's License Type:
Professional Land Surveyor

Professional's License Number:
7780

NOTE:
RISER_HT - RISER HEIGHT
RISER HEIGHT: THE MEASURED DISTANCE FROM GROUND SURFACE TO TOP OF WELL CASING
DD: DECIMAL DEGREES
TOR: TOP OF RIM
TOC: TOP OF CASING
FS: FINISHED SURFACE

BENCHMARK:
THE ELEVATIONS SHOWN HEREON ARE BASED UPON THE CSRC GPS MONUMENT "HOLP"
ELEVATION = 97.60 FEET (NAVD 88)

COORDINATES:
THE COORDINATES SHOWN HEREON ARE BASED UPON THE STATE PLANE COORDINATE SYSTEM (NAD 83),
CALIFORNIA ZONE V, BASED UPON STATIC GPS OBSERVATION, HOLDING CSRC GPS MONUMENT "HOLP"

GLOBAL_ID	FIELD_PT_NAME	STATUS	GW_MEAS_DATE	DTFPROD	DTW	RISER_HT	TOT_DEPTH	GW_MEAS_DESC
	MW-01A	ACT				-0.32		
	MW-01B	ACT				-0.48		
	MW-01C	ACT				-0.53		
	MW-02A	ACT				-0.56		
	MW-02B	ACT				-0.57		
	MW-02C	ACT				-0.56		
	MW-03A	ACT				-0.44		
	MW-03B	ACT				-0.46		
	MW-03C	ACT				-0.44		
	MW-04A	ACT				-0.52		
	MW-04B	ACT				-0.37		
	MW-04C	ACT				-0.55		
	MW-05A	ACT				-0.73		
	MW-05B	ACT				-0.66		
	MW-05C	ACT				-0.73		
	MW-06A	ACT				-0.37		
	MW-06B	ACT				-0.61		
	MW-06C	ACT				-0.52		
	MW-07	ACT				-0.56		
	MW-08	ACT				-0.56		
	SAIA CPT-10	ACT						
	SAIA CPT-11	ACT						
	SAIA CPT-12	ACT						
	SAIA CPT-13	ACT						
	SAIA CPT-2	ACT						
	SAIA CPT-3	ACT						
	SAIA CPT-4	ACT						
	SAIA CPT-5	ACT						
	SAIA CPT-6	ACT						
	SAIA CPT-7	ACT						
	SAIA CPT-8	ACT						
	SAIA CPT-9	ACT						
	SAIA-SB/SG01	ACT						
	SAIA-SB/SG02	ACT						
	SAIA-SB/SG03	ACT						
	SAIA-SB/SG04	ACT						
	SAIA-SB/SG05	ACT						
	SAIA-SB/SG06	ACT						
	SAIA-SB/SG07	ACT						
	SAIA-SB/SG08	ACT						
	SAIA-SB/SG09	ACT						
	SAIA-SB/SG10	ACT						
	SAIA-SB/SG11	ACT						
	SAIA-SB/SG12	ACT						
	SAIA-SB/SG13	ACT						
	SAIA-SB/SG14	ACT						
	SAIA-SB/SG15	ACT						
	SAIA-SB/SG16	ACT						
	SAIA-SB/SG17	ACT						
	SAIA-SB/SG-19	ACT						
	SAIA-SB/SG-20	ACT						
	SAIA-SB/SG-21	ACT						
	SAIA-SB/SG-22	ACT						
	SAIA-SB/SG-23	ACT						
	SAIA-SB/SG-24	ACT						
	SAIA-SB/SG-25	ACT						
	SAIA-SB/SG-26	ACT						
	SAIA-SB/SG-27	ACT						
	SAIA-SB/SG-28	ACT						
	SAIA-SB/SG-29	ACT						
	SAIA-SB/SG-30	ACT						
	SAIA-SB/SG-31	ACT						
	SAIA-SB/SG-32	ACT						
	SAIA-SB/SG-33	ACT						
	SAIA-SB/SG-34	ACT						
	SAIA-SB/SG-35	ACT						
	SAIA-SB/SG-40	ACT						
	SAIA-SB/SG-41	ACT						
	SAIA-SB/SG-42	ACT						
	SAIA-SB/SG-43	ACT						
	SAIA-SB12	ACT						

GLOBAL_ID	FIELD_PT_NAME	FIELD_PT_CLASS	XY_SURVEY_DATE	LATITUDE	LONGITUDE	XY_METHOD	XY_DATUM	XY_ACC_VAL	XY_SURVEY_ORG	GPS_EQUIP_TYPE	XY_SURVEY_DESC
	MW-01A	MW	04/29/2014	33.9461599	-118.1769195	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	MW-01B	MW	04/29/2014	33.9461599	-118.1769195	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	MW-01C	MW	04/29/2014	33.9461599	-118.1769195	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	MW-02A	MW	04/29/2014	33.9460384	-118.1771882	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	MW-02B	MW	04/29/2014	33.9460384	-118.1771882	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	MW-02C	MW	04/29/2014	33.9460384	-118.1771882	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	MW-03A	MW	04/29/2014	33.9448181	-118.1769993	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	MW-03B	MW	04/29/2014	33.9448181	-118.1769993	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	MW-03C	MW	04/29/2014	33.9448181	-118.1769993	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	MW-04A	MW	04/29/2014	33.9438562	-118.1769927	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	MW-04B	MW	04/29/2014	33.9438562	-118.1769927	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	MW-04C	MW	04/29/2014	33.9438562	-118.1769927	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	MW-05A	MW	04/29/2014	33.9428950	-118.1776507	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	MW-05B	MW	04/29/2014	33.9428950	-118.1776507	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	MW-05C	MW	04/29/2014	33.9428950	-118.1776507	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	MW-06A	MW	04/29/2014	33.9426590	-118.1753628	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	MW-06B	MW	04/29/2014	33.9426590	-118.1753628	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	MW-06C	MW	04/29/2014	33.9426590	-118.1753628	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	MW-07	MW	04/29/2014	33.9460016	-118.1771718	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	MW-08	MW	04/29/2014	33.9429253	-118.1779864	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA CPT-10	BH	04/29/2014	33.9429375	-118.1780393	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA CPT-11	BH	04/29/2014	33.9428891	-118.1776128	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA CPT-12	BH	04/29/2014	33.9427279	-118.1760749	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA CPT-13	BH	04/29/2014	33.9426647	-118.1754099	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA CPT-2	BH	04/29/2014	33.9466285	-118.1758723	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA CPT-3	BH	04/29/2014	33.9453452	-118.1764181	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA CPT-4	BH	04/29/2014	33.9457727	-118.1770930	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA CPT-5	BH	04/29/2014	33.9453070	-118.1769748	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA CPT-6	BH	04/29/2014	33.9447694	-118.1771211	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA CPT-7	BH	04/29/2014	33.9446924	-118.1763666	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA CPT-8	BH	04/29/2014	33.9438298	-118.1767696	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA CPT-9	BH	04/29/2014	33.9439655	-118.1759052	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG01	BH	04/29/2014	33.9460922	-118.1778054	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG02	BH	04/29/2014	33.9464022	-118.1775846	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG03	BH	04/29/2014	33.9464112	-118.1772318	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG04	BH	04/29/2014	33.9462426	-118.1772609	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG05	BH	04/29/2014	33.9460151	-118.1773290	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG06	BH	04/29/2014	33.9459479	-118.1768214	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG07	BH	04/29/2014	33.9460182	-118.1770131	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG08	BH	04/29/2014	33.9462001	-118.1769304	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG09	BH	04/29/2014	33.9462881	-118.1770233	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG10	BH	04/29/2014	33.9463434	-118.1769406	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG11	BH	04/29/2014	33.9466068	-118.1782608	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG12	BH	04/29/2014	33.9465058	-118.1778877	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG13	BH	04/29/2014	33.9457947	-118.1772722	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG14	BH	04/29/2014	33.9457432	-118.1768536	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG15	BH	04/29/2014	33.9453357	-118.1771869	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG16	BH	04/29/2014	33.9453155	-118.1770073	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG17	BH	04/29/2014	33.9447675	-118.1770977	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG-19	BH	04/29/2014	33.9464691	-118.1768502	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG-20	BH	04/29/2014	33.9462651	-118.1768056	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG-21	BH	04/29/2014	33.9460785	-118.1766856	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG-22	BH	04/29/2014	33.9458364	-118.1766634	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG-23	BH	04/29/2014	33.9458957	-118.1771354	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG-24	BH	04/29/2014	33.9465615	-118.1770562	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG-25	BH	04/29/2014	33.9459478	-118.1775937	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG-26	BH	04/29/2014	33.9465922	-118.1773109	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG-27	BH	04/29/2014	33.9461963	-118.1775981	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG-28	BH	04/29/2014	33.9465382	-118.1776716	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG-29	BH	04/29/2014	33.9466473	-118.1777543	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG-30	BH	04/29/2014	33.9460296	-118.1779454	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG-31	BH	04/29/2014	33.9462610	-118.1779464	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG-32	BH	04/29/2014	33.9463364	-118.1782203	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG-33	BH	04/29/2014	33.9465901	-118.1780920	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG-34	BH	04/29/2014	33.9464523	-118.1784303	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG-35	BH	04/29/2014	33.9462609	-118.1786326	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG-40	BH	04/29/2014	33.9453898	-118.1777609	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG-41	BH	04/29/2014	33.9448976	-118.1776902	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG-42	BH	04/29/2014	33.9438968	-118.1778475	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB/SG-43	BH	04/29/2014	33.9438458	-118.1769443	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"
	SAIA-SB12	BH	04/29/2014	33.9465195	-118.1775939	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "HOLP"

GLOBAL_ID	FIELD_PT_NAME	ELEV_SURVEY_DATE	ELEVATION (TOC)	ELEV_METHOD	ELEV_DATUM	ELEV_ACC_VAL	ELEV_SURVEY_ORG	RISER_HT	ELEV_DESC
	SAIA-MW01A	04/29/2014	104.92	DIG	88	0.3	CAL VADA SURVEYING, INC.	-0.32	CSRC DATA POINT "HOLP"
	SAIA-MW01B	04/29/2014	104.76	DIG	88	0.3	CAL VADA SURVEYING, INC.	-0.48	CSRC DATA POINT "HOLP"
	SAIA-MW01C	04/29/2014	104.71	DIG	88	0.3	CAL VADA SURVEYING, INC.	-0.53	CSRC DATA POINT "HOLP"
	SAIA-MW02A	04/29/2014	104.76	DIG	88	0.3	CAL VADA SURVEYING, INC.	-0.56	CSRC DATA POINT "HOLP"
	SAIA-MW02B	04/29/2014	104.75	DIG	88	0.3	CAL VADA SURVEYING, INC.	-0.57	CSRC DATA POINT "HOLP"
	SAIA-MW02C	04/29/2014	104.76	DIG	88	0.3	CAL VADA SURVEYING, INC.	-0.56	CSRC DATA POINT "HOLP"
	SAIA-MW03A	04/29/2014	102.12	DIG	88	0.3	CAL VADA SURVEYING, INC.	-0.44	CSRC DATA POINT "HOLP"
	SAIA-MW03B	04/29/2014	102.10	DIG	88	0.3	CAL VADA SURVEYING, INC.	-0.46	CSRC DATA POINT "HOLP"
	SAIA-MW03C	04/29/2014	102.12	DIG	88	0.3	CAL VADA SURVEYING, INC.	-0.44	CSRC DATA POINT "HOLP"
	SAIA-MW04A	04/29/2014	100.89	DIG	88	0.3	CAL VADA SURVEYING, INC.	-0.52	CSRC DATA POINT "HOLP"
	SAIA-MW04B	04/29/2014	101.04	DIG	88	0.3	CAL VADA SURVEYING, INC.	-0.37	CSRC DATA POINT "HOLP"
	SAIA-MW04C	04/29/2014	100.86	DIG	88	0.3	CAL VADA SURVEYING, INC.	-0.55	CSRC DATA POINT "HOLP"
	SAIA-MW05A	04/29/2014	99.84	DIG	88	0.3	CAL VADA SURVEYING, INC.	-0.73	CSRC DATA POINT "HOLP"
	SAIA-MW05B	04/29/2014	99.91	DIG	88	0.3	CAL VADA SURVEYING, INC.	-0.66	CSRC DATA POINT "HOLP"
	SAIA-MW05C	04/29/2014	99.84	DIG	88	0.3	CAL VADA SURVEYING, INC.	-0.73	CSRC DATA POINT "HOLP"
	SAIA-MW06A	04/29/2014	100.34	DIG	88	0.3	CAL VADA SURVEYING, INC.	-0.37	CSRC DATA POINT "HOLP"
	SAIA-MW06B	04/29/2014	100.10	DIG	88	0.3	CAL VADA SURVEYING, INC.	-0.61	CSRC DATA POINT "HOLP"
	SAIA-MW06C	04/29/2014	100.19	DIG	88	0.3	CAL VADA SURVEYING, INC.	-0.52	CSRC DATA POINT "HOLP"
	SAIA-MW-07	04/29/2014	104.64	DIG	88	0.3	CAL VADA SURVEYING, INC.	-0.56	CSRC DATA POINT "HOLP"
	SAIA-MW-08	04/29/2014	100.15	DIG	88	0.3	CAL VADA SURVEYING, INC.	-0.56	CSRC DATA POINT "HOLP"
	SAIA CPT-10	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA CPT-11	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA CPT-12	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA CPT-13	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA CPT-2	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA CPT-3	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA CPT-4	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA CPT-5	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA CPT-6	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA CPT-7	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA CPT-8	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA CPT-9	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG01	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG02	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG03	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG04	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG05	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG06	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG07	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG08	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG09	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG10	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG11	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG12	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG13	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG14	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG15	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG16	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG17	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG-19	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG-20	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG-21	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG-22	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG-23	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG-24	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG-25	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG-26	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG-27	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG-28	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG-29	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG-30	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG-31	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG-32	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG-33	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG-34	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG-35	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG-40	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG-41	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG-42	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB/SG-43	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"
	SAIA-SB12	04/29/2014		CGPS	88	0.3	CAL VADA SURVEYING, INC.		CSRC DATA POINT "HOLP"

MONITORING WELLS

WELL	NORTHING (FEET)	EASTING (FEET)	LATITUDE (DD)	LONGITUDE (DD)	TOR (ELEVATION)	FS (ELEVATION)	TOC (ELEVATION)	RISER_HT
MW-9D	1800995.07	6507491.13	33.9410993	-118.1786118	98.01	98.03	97.59	-0.44
MW-9M	1800995.07	6507491.13	33.9410993	-118.1786118	98.01	98.03	97.41	-0.62
MW-9S	1800995.07	6507491.13	33.9410993	-118.1786118	98.01	98.03	97.51	-0.52
MW-10	1800992.94	6507504.81	33.9410936	-118.1785667	97.90	97.92	97.38	-0.54
MW-11A	1800660.89	6507020.24	33.9401788	-118.1801623	98.38	98.38	97.78	-0.60
MW-11B	1800660.89	6507020.24	33.9401788	-118.1801623	98.38	98.38	97.88	-0.50
MW-11C	1800660.89	6507020.24	33.9401788	-118.1801623	98.38	98.38	97.85	-0.53
MW-12A	1800103.57	6507403.62	33.9386492	-118.1788951	96.98	96.94	96.51	-0.43
MW-12B	1800103.57	6507403.62	33.9386492	-118.1788951	96.98	96.94	96.53	-0.41
MW-12C	1800103.57	6507403.62	33.9386492	-118.1788951	96.98	96.94	96.51	-0.43
MW-13	1800104.70	6507389.77	33.9386522	-118.1789407	96.98	96.95	96.60	-0.35

Professional's Name:
Armando D. Dupont

Professional's License Type:
Professional Land Surveyor

Professional's License Number:
7780

NOTE:
RISER_HT - RISER HEIGHT
RISER HEIGHT: THE MEASURED DISTANCE FROM GROUND SURFACE TO TOP OF WELL CASING
DD: DECIMAL DEGREES
TOR: TOP OF RIM
TOF: TOP OF FLANGE
TOC: TOP OF CASING
NG: NATURAL GROUND
FS: FINISHED SURFACE

DATE OF SURVEY: AUGUST 16, 2016

BENCHMARK:
THE ELEVATIONS SHOWN HEREON ARE BASED UPON THE CSRC DATA POINT "BKMS"
ELEVATION = 154.6 FEET (NAVD 88)

COORDINATES:
THE COORDINATES SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM (CCS 83), ZONE 5, 1983 DATUM, DEFINED BY SECTIONS 8801 TO 8819 OF THE CALIFORNIA PUBLIC RESOURCES CODE, HOLDING THE CSRC DATA POINT "BKMS"

GLOBAL_ID	FIELD_PT_NAME	STATUS	GW_MEAS_DATE	DTFPROD	DTW	RISER_HT	TOT_DEPTH	GW_MEAS_DESC
	MW-9D	ACT				-0.44		
	MW-9M	ACT				-0.62		
	MW-9S	ACT				-0.52		
	MW-10	ACT				-0.54		
	MW-11A	ACT				-0.60		
	MW-11B	ACT				-0.50		
	MW-11C	ACT				-0.53		
	MW-12A	ACT				-0.43		
	MW-12B	ACT				-0.41		
	MW-12C	ACT				-0.43		
	MW-13	ACT				-0.35		

GLOBAL_ID	FIELD_PT_NAME	FIELD_PT_CLASS	XY_SURVEY_DATE	LATITUDE	LONGITUDE	XY_METHOD	XY_DATUM	XY_ACC_VAL	XY_SURVEY_ORG	GPS_EQUIP_TYPE	XY_SURVEY_DESC
	MW-9D	MW	08/16/2016	33.9410993	-118.1786118	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "BKMS"
	MW-9M	MW	08/16/2016	33.9410993	-118.1786118	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "BKMS"
	MW-9S	MW	08/16/2016	33.9410993	-118.1786118	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "BKMS"
	MW-10	MW	08/16/2016	33.9410936	-118.1785667	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "BKMS"
	MW-11A	MW	08/16/2016	33.9401788	-118.1801623	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "BKMS"
	MW-11B	MW	08/16/2016	33.9401788	-118.1801623	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "BKMS"
	MW-11C	MW	08/16/2016	33.9401788	-118.1801623	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "BKMS"
	MW-12A	MW	08/16/2016	33.9386492	-118.1788951	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "BKMS"
	MW-12B	MW	08/16/2016	33.9386492	-118.1788951	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "BKMS"
	MW-12C	MW	08/16/2016	33.9386492	-118.1788951	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "BKMS"
	MW-13	MW	08/16/2016	33.9386522	-118.1789407	CGPS	NAD83	3	CAL VADA SURVEYING, INC.	L530	CSRC DATA POINT "BKMS"

GLOBAL_ID	FIELD_PT_NAME	ELEV_SURVEY_DATE	ELEVATION (TOC)	ELEV_METHOD	ELEV_DATUM	ELEV_ACC_VAL	ELEV_SURVEY_ORG	RISER_HT	ELEV_DESC
	MW-9D	08/16/2016	97.59	CGPS	88	0.3	CAL VADA SURVEYING, INC.	-0.44	CSRC DATA POINT "BKMS"
	MW-9M	08/16/2016	97.41	CGPS	88	0.3	CAL VADA SURVEYING, INC.	-0.62	CSRC DATA POINT "BKMS"
	MW-9S	08/16/2016	97.51	CGPS	88	0.3	CAL VADA SURVEYING, INC.	-0.52	CSRC DATA POINT "BKMS"
	MW-10	08/16/2016	97.38	CGPS	88	0.3	CAL VADA SURVEYING, INC.	-0.54	CSRC DATA POINT "BKMS"
	MW-11A	08/16/2016	97.78	CGPS	88	0.3	CAL VADA SURVEYING, INC.	-0.60	CSRC DATA POINT "BKMS"
	MW-11B	08/16/2016	97.88	CGPS	88	0.3	CAL VADA SURVEYING, INC.	-0.50	CSRC DATA POINT "BKMS"
	MW-11C	08/16/2016	97.85	CGPS	88	0.3	CAL VADA SURVEYING, INC.	-0.53	CSRC DATA POINT "BKMS"
	MW-12A	08/16/2016	96.51	CGPS	88	0.3	CAL VADA SURVEYING, INC.	-0.43	CSRC DATA POINT "BKMS"
	MW-12B	08/16/2016	96.53	CGPS	88	0.3	CAL VADA SURVEYING, INC.	-0.41	CSRC DATA POINT "BKMS"
	MW-12C	08/16/2016	96.51	CGPS	88	0.3	CAL VADA SURVEYING, INC.	-0.43	CSRC DATA POINT "BKMS"
	MW-13	08/16/2016	96.60	CGPS	88	0.3	CAL VADA SURVEYING, INC.	-0.35	CSRC DATA POINT "BKMS"

	North (USft)	East (USft)
SAIA CPT-2	718881.075	7267940.624
SAIA CPT-3	718411.509	7267792.776
SAIA CPT-4	718562.548	7267590.967
SAIA CPT-5	718391.855	7267622.622
SAIA CPT-6	718199.362	7267581.763
SAIA CPT-7	718170.618	7267815.288
SAIA CPT-8	717857.223	7267702.398
SAIA CPT-9	717907.001	7267958.378
SAIA CPT-10	717519.876	7267320.567
SAIA CPT-11	717507.393	7267449.958
SAIA CPT-12	717468.073	7267863.063
SAIA CPT-13	717438.511	7268121.684
SAIA HP-10	718622.915	7267516.103
SAIA HP-18	719041.207	7267510.209
SAIA HP-21	718604.425	7267677.414
SAIA HP-36	718691.992	7267064.417
SAIA SG-5	718640.170	7267517.603
SAIA SG-6	718632.373	7267665.300
SAIA SG-7	718650.850	7267605.199
SAIA SG-8	718710.313	7267630.848
SAIA SG-11	718856.388	7267214.460
SAIA SG-13	718570.843	7267527.499
SAIA SG-14	718552.545	7267668.892
SAIA SG-15	718400.669	7267559.858
SAIA SG-16	718396.858	7267613.519
SAIA SG-17	718195.200	7267590.211
SAIA SG-18	719027.206	7267312.341
JW CPT-1	720215.291	7267265.296
JW CPT-2/SG-6	720136.157	7267380.772
JW CPT-3	719772.675	7267448.598
JW SG-1	720241.376	7267294.565
JW SG-2	720234.759	7267280.385
JW SG-3	720205.748	7267255.773
JW SG-4	720226.882	7267264.368
JW SG-5	720200.053	7267310.062

APPENDIX E

ANALYTICAL DATA TABLES AND COMMERICAL LABORATORY ANALYTICAL REPORTS

Appendix E-1	**Analytical Results for Soil Samples**
Appendix E-2	**Analytical Results for Soil Gas Samples**
Appendix E-3	**Analytical Results for Groundwater from Monitoring Wells**
Appendix E-4	**Analytical Results for Discrete-Depth Groundwater Samples**
Appendix E-5	**Analytical Results for Air Samples**
Appendix E-6	**Commercial Laboratory Analytical Reports**

Appendix E-1

Analytical Results for Soil Samples

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Volatiles (in ug/kg)																					
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane (p-Dioxane)	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene
SAIA-SB/SG01	SAIA-SB/SG01-0.5	04/05/2013	N	0.5	1	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<100	<10	<10	<10	<10	<5.2
SAIA-SB/SG01	SAIA-SB/SG01-02	04/05/2013	N	2	2.5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<110	<11	<11	<11	<11	<5.7
SAIA-SB/SG01	SAIA-SB/SG01-05	04/05/2013	N	5	5.5	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<110	<11	<11	<11	<11	<5.3
SAIA-SB/SG01	SAIA-SB/SG01-06	04/05/2013	FD	6	6.5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<100	<10	<10	<10	<10	<5.1
SAIA-SB/SG01	SAIA-SB/SG01-15	04/05/2013	N	15	15.5	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<130	<13	<13	<13	<13	<6.3
SAIA-SB/SG01	SAIA-SB/SG01-06	04/05/2013	FD	16	16.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG01	SAIA-SB/SG01-25	04/05/2013	N	25	25.5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<110	<11	<11	<11	<11	<5.7
SAIA-SB/SG01	SAIA-SB/SG01-35	04/05/2013	N	35	35.5	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<120	<12	<12	<12	<12	<5.8
SAIA-SB/SG02	SAIA-SB/SG02-0.5	04/01/2013	N	0.5	1	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<110	<11	<11	<11	<11	<5.3
SAIA-SB/SG02	SAIA-SB/SG02-02	04/01/2013	N	2	2.5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<110	<11	<11	<11	<11	<5.7
SAIA-SB/SG02	SAIA-SB/SG02-05	04/01/2013	N	5	5.5	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<120	<12	<12	<12	<12	<5.8
SAIA-SB/SG02	SAIA-SB/SG02-15	04/01/2013	N	15	15.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<10	<10	<10	<10	<5
SAIA-SB/SG02	SAIA-SB/SG02-25	04/01/2013	N	25	25.5	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<100	<10	<10	<10	<10	<5.2
SAIA-SB/SG02	SAIA-SB/SG02-35	04/01/2013	N	35	35.5	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<110	<11	<11	<11	<11	<5.6
SAIA-SB/SG03	SAIA-SB/SG03-0.5	04/01/2013	N	0.5	1	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<120	<12	<12	<12	<12	<5.8
SAIA-SB/SG03	SAIA-SB/SG03-02	04/01/2013	N	2	2.5	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<120	<12	<12	<12	<12	<5.9
SAIA-SB/SG03	SAIA-SB/SG03-03	04/01/2013	FD	3	3.5	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<120	<12	<12	<12	<12	<6
SAIA-SB/SG03	SAIA-SB/SG03-05	04/01/2013	N	5	5.5	<6.1	<6.1	<6.1	<6.1	**4.7 J**	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<120	<12	<12	<12	<12	<6.1
SAIA-SB/SG03	SAIA-SB/SG03-15	04/01/2013	N	15	15.5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<110	<11	<11	<11	<11	<5.4
SAIA-SB/SG03	SAIA-SB/SG03-25	04/01/2013	N	25	25.5	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<140	<14	<14	<14	<14	<7.2
SAIA-SB/SG03	SAIA-SB/SG03-35	04/01/2013	N	35	35.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<110	<11	<11	<11	<11	<5.5
SAIA-SB/SG04	SAIA-SB/SG04-0.5	04/01/2013	N	0.5	1	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<120	<12	<12	<12	<12	<6
SAIA-SB/SG04	SAIA-SB/SG04-02	04/01/2013	N	2	2.5	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<130	<13	<13	<13	<13	<6.4

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (in ug/kg)																							
						Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene (Cumene)	m,p-Xylene	Methyl Acetate	Methylcyclohexane	Methylene Chloride	o-Xylene	Styrene	tert-Butyl Methyl Ether (MTBE)
SAIA-SB/SG01	SAIA-SB/SG01-0.5	04/05/2013	N	0.5	1	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
SAIA-SB/SG01	SAIA-SB/SG01-02	04/05/2013	N	2	2.5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7
SAIA-SB/SG01	SAIA-SB/SG01-05	04/05/2013	N	5	5.5	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG01	SAIA-SB/SG01-06	04/05/2013	FD	6	6.5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	**1.9 J**	**3 J**	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG01	SAIA-SB/SG01-15	04/05/2013	N	15	15.5	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3
SAIA-SB/SG01	SAIA-SB/SG01-06	04/05/2013	FD	16	16.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG01	SAIA-SB/SG01-25	04/05/2013	N	25	25.5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7
SAIA-SB/SG01	SAIA-SB/SG01-35	04/05/2013	N	35	35.5	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8
SAIA-SB/SG02	SAIA-SB/SG02-0.5	04/01/2013	N	0.5	1	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG02	SAIA-SB/SG02-02	04/01/2013	N	2	2.5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	**4.6 J**	<5.7	<5.7	<5.7	<5.7	<5.7
SAIA-SB/SG02	SAIA-SB/SG02-05	04/01/2013	N	5	5.5	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8
SAIA-SB/SG02	SAIA-SB/SG02-15	04/01/2013	N	15	15.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-SB/SG02	SAIA-SB/SG02-25	04/01/2013	N	25	25.5	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
SAIA-SB/SG02	SAIA-SB/SG02-35	04/01/2013	N	35	35.5	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG03	SAIA-SB/SG03-0.5	04/01/2013	N	0.5	1	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8
SAIA-SB/SG03	SAIA-SB/SG03-02	04/01/2013	N	2	2.5	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	**1.9 J**	**3.1 J**	**4.8 J**	<5.9	<5.9	<5.9	**7.8 J**	<5.9	<5.9
SAIA-SB/SG03	SAIA-SB/SG03-03	04/01/2013	FD	3	3.5	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	**2.1 J**	**2.9 J**	**5 J**	<6	<6	<6	**8.3 J**	<6	<6
SAIA-SB/SG03	SAIA-SB/SG03-05	04/01/2013	N	5	5.5	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	**5.9 J**	<6.1	<6.1	<6.1	<6.1	**7.6 J**	**11 J**	**25 J**	<6.1	**4.3 J**	<6.1	**34 J**	<6.1	<6.1
SAIA-SB/SG03	SAIA-SB/SG03-15	04/01/2013	N	15	15.5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	**5.7**	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG03	SAIA-SB/SG03-25	04/01/2013	N	25	25.5	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2
SAIA-SB/SG03	SAIA-SB/SG03-35	04/01/2013	N	35	35.5	<5.5	<5.5	<5.5	**2.2 J**	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	**4.6 J**	<5.5	<5.5	<5.5	<5.5	**2.4 J**	**3.9 J**	**7**	<5.5	<5.5	<5.5	**10 J**	<5.5	<5.5
SAIA-SB/SG04	SAIA-SB/SG04-0.5	04/01/2013	N	0.5	1	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	**5.3 J**	<6	<6	<6	<6	<6
SAIA-SB/SG04	SAIA-SB/SG04-02	04/01/2013	N	2	2.5	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Volatiles (ug/kg)							Semivolatiles (in ug/kg)															
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	1,2,4,5-Tetrachlorobenzene	1,4-Dioxane (p-Dioxane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol
SAIA-SB/SG01	SAIA-SB/SG01-0.5	04/05/2013	N	0.5	1	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<180		<180	<180	<180	<180	<180	<360	<180	<180	<180	<180	<180	<180	<360	<180
SAIA-SB/SG01	SAIA-SB/SG01-02	04/05/2013	N	2	2.5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<180	--	<180	<180	<180	<180	<180	<360	<180	<180	<180	<180	<180	<180	<360	<180
SAIA-SB/SG01	SAIA-SB/SG01-05	04/05/2013	N	5	5.5	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG01	SAIA-SB/SG01-06	04/05/2013	FD	6	6.5	<5.1	<5.1	<5.1	**1.5 J**	<5.1	<5.1	<5.1	<180	--	<180	<180	<180	<180	<180	<340	<180	<180	<180	<180	<180	<180	<340	<180
SAIA-SB/SG01	SAIA-SB/SG01-15	04/05/2013	N	15	15.5	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<220	--	<220	<220	<220	<220	<220	<430	<220	<220	<220	<220	<220	<220	<430	<220
SAIA-SB/SG01	SAIA-SB/SG01-06	04/05/2013	FD	16	16.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG01	SAIA-SB/SG01-25	04/05/2013	N	25	25.5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<210	--	<210	<210	<210	<210	<210	<410	<210	<210	<210	<210	<210	<210	<410	<210
SAIA-SB/SG01	SAIA-SB/SG01-35	04/05/2013	N	35	35.5	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<170	--	<170	<170	<170	<170	<170	<340	<170	<170	<170	<170	<170	<170	<340	<170
SAIA-SB/SG02	SAIA-SB/SG02-0.5	04/01/2013	N	0.5	1	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG02	SAIA-SB/SG02-02	04/01/2013	N	2	2.5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<170	--	<170	<170	<170	<170	<170	<340	<170	<170	<170	<170	<170	<170	<340	<170
SAIA-SB/SG02	SAIA-SB/SG02-05	04/01/2013	N	5	5.5	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<190	--	<190	<190	<190	<190	<190	<360	<190	<190	<190	<190	<190	<190	<360	<190
SAIA-SB/SG02	SAIA-SB/SG02-15	04/01/2013	N	15	15.5	<5	<5	<5	<5	<5	<5	<5	<210	--	<210	<210	<210	<210	<210	<400	<210	<210	<210	<210	<210	<210	<400	<210
SAIA-SB/SG02	SAIA-SB/SG02-25	04/01/2013	N	25	25.5	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<200	--	<200	<200	<200	<200	<200	<390	<200	<200	<200	<200	<200	<200	<390	<200
SAIA-SB/SG02	SAIA-SB/SG02-35	04/01/2013	N	35	35.5	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<190	--	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	<190	<190	<370	<190
SAIA-SB/SG03	SAIA-SB/SG03-0.5	04/01/2013	N	0.5	1	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<200	--	<200	<200	<200	<200	<200	<380	<200	<200	<200	<200	**150 J**	<200	<380	<200
SAIA-SB/SG03	SAIA-SB/SG03-02	04/01/2013	N	2	2.5	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	**4,500 J**	<180	<350	<180
SAIA-SB/SG03	SAIA-SB/SG03-03	04/01/2013	FD	3	3.5	<6	**2 J**	<6	<6	<6	<6	<6	<180	--	<180	<180	<180	<180	<180	<360	<180	<180	<180	<180	**4,200 J**	<180	<360	<180
SAIA-SB/SG03	SAIA-SB/SG03-05	04/01/2013	N	5	5.5	<6.1	**3.2 J**	<6.1	<6.1	**2.3 J**	<6.1	<6.1	<220	--	<220	<220	<220	<220	<220	<420	<220	<220	<220	<220	**21,000 J**	<220	<420	<220
SAIA-SB/SG03	SAIA-SB/SG03-15	04/01/2013	N	15	15.5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<210	--	<210	<210	<210	<210	<210	<400	<210	<210	<210	<210	<210	<210	<400	<210
SAIA-SB/SG03	SAIA-SB/SG03-25	04/01/2013	N	25	25.5	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<230	--	<230	<230	<230	<230	<230	<440	<230	<230	<230	<230	**6,500**	<230	<440	<230
SAIA-SB/SG03	SAIA-SB/SG03-35	04/01/2013	N	35	35.5	<5.5	<5.5	<5.5	<5.5	**4.1 J**	<5.5	<5.5	<200	--	<200	<200	<200	<200	<200	<390	<200	<200	<200	<200	<200	<200	<390	<200
SAIA-SB/SG04	SAIA-SB/SG04-0.5	04/01/2013	N	0.5	1	<6	<6	<6	<6	<6	<6	<6	<180	--	<180	<180	<180	<180	<180	<360	<180	<180	<180	<180	<180	<180	<360	<180
SAIA-SB/SG04	SAIA-SB/SG04-02	04/01/2013	N	2	2.5	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<180	--	<180	<180	<180	<180	<180	<340	<180	<180	<180	<180	<180	<180	<340	<180

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Semivolatile (ug/kg)																			
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	3,3'-Dichlorobenzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl phenyl ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl Phenyl Ether	4-Methylphenol (p-Cresol)	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzaldehyde	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
SAIA-SB/SG01	SAIA-SB/SG01-0.5	04/05/2013	N	0.5	1	<180	<360	<360	<180	<180	<180	<180	<180	<360	<360	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG01	SAIA-SB/SG01-02	04/05/2013	N	2	2.5	<180	<360	<360	<180	<180	<180	<180	<180	<360	<360	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG01	SAIA-SB/SG01-05	04/05/2013	N	5	5.5	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG01	SAIA-SB/SG01-06	04/05/2013	FD	6	6.5	<180	<340	<340	<180	<180	<180	<180	<180	<340	<340	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG01	SAIA-SB/SG01-15	04/05/2013	N	15	15.5	<220	<430	<430	<220	<220	<220	<220	<220	<430	<430	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220
SAIA-SB/SG01	SAIA-SB/SG01-06	04/05/2013	FD	16	16.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG01	SAIA-SB/SG01-25	04/05/2013	N	25	25.5	<210	<410	<410	<210	<210	<210	<210	<210	<410	<410	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG01	SAIA-SB/SG01-35	04/05/2013	N	35	35.5	<170	<340	<340	<170	<170	<170	<170	<170	<340	<340	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG02	SAIA-SB/SG02-0.5	04/01/2013	N	0.5	1	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG02	SAIA-SB/SG02-02	04/01/2013	N	2	2.5	<170	<340	<340	<170	<170	<170	<170	<170	<340	<340	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG02	SAIA-SB/SG02-05	04/01/2013	N	5	5.5	<190	<360	<360	<190	<190	<190	<190	<190	<360	<360	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG02	SAIA-SB/SG02-15	04/01/2013	N	15	15.5	<210	<400	<400	<210	<210	<210	<210	<210	<400	<400	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG02	SAIA-SB/SG02-25	04/01/2013	N	25	25.5	<200	<390	<390	<200	<200	<200	<200	<200	<390	<390	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG02	SAIA-SB/SG02-35	04/01/2013	N	35	35.5	<190	<370	<370	<190	<190	<190	<190	<190	<370	<370	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG03	SAIA-SB/SG03-0.5	04/01/2013	N	0.5	1	<200	<380	<380	<200	<200	<200	<200	<200	<380	<380	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG03	SAIA-SB/SG03-02	04/01/2013	N	2	2.5	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	**220**	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG03	SAIA-SB/SG03-03	04/01/2013	FD	3	3.5	<180	<360	<360	<180	<180	<180	<180	<180	<360	<360	**190 J**	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG03	SAIA-SB/SG03-05	04/01/2013	N	5	5.5	<220	<420	<420	<220	<220	<220	<220	<220	<420	<420	**560 J**	<220	<220	<220	<220	<220	<220	<220	<220	<220
SAIA-SB/SG03	SAIA-SB/SG03-15	04/01/2013	N	15	15.5	<210	<400	<400	<210	<210	<210	<210	<210	<400	<400	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG03	SAIA-SB/SG03-25	04/01/2013	N	25	25.5	<230	<440	<440	<230	<230	<230	<230	<230	<440	<440	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230
SAIA-SB/SG03	SAIA-SB/SG03-35	04/01/2013	N	35	35.5	<200	<390	<390	<200	<200	<200	<200	<200	<390	<390	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG04	SAIA-SB/SG04-0.5	04/01/2013	N	0.5	1	<180	<360	<360	<180	<180	<180	<180	<180	<360	<360	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG04	SAIA-SB/SG04-02	04/01/2013	N	2	2.5	<180	<340	<340	<180	<180	<180	<180	<180	<340	<340	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Semivolatiles (in ug/kg)																					
						Benzo(k)fluoranthene	Benzyl butyl phthalate	Biphenyl (Diphenyl)	bis(2-Chloroethoxy) Methane	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	bis(2-Chloroisopropyl) Ether	bis(2-Ethylhexyl) Phthalate	Caprolactam	Carbazole	Chrysene	Di-n-Butyl Phthalate	Di-n-Octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Phthalate	Dimethyl Phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-c,d)pyrene
SAIA-SB/SG01	SAIA-SB/SG01-0.5	04/05/2013	N	0.5	1	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG01	SAIA-SB/SG01-02	04/05/2013	N	2	2.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	**130 J**	<180	<180	<180	<180	<180
SAIA-SB/SG01	SAIA-SB/SG01-05	04/05/2013	N	5	5.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG01	SAIA-SB/SG01-06	04/05/2013	FD	6	6.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG01	SAIA-SB/SG01-15	04/05/2013	N	15	15.5	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220
SAIA-SB/SG01	SAIA-SB/SG01-06	04/05/2013	FD	16	16.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG01	SAIA-SB/SG01-25	04/05/2013	N	25	25.5	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG01	SAIA-SB/SG01-35	04/05/2013	N	35	35.5	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG02	SAIA-SB/SG02-0.5	04/01/2013	N	0.5	1	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG02	SAIA-SB/SG02-02	04/01/2013	N	2	2.5	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG02	SAIA-SB/SG02-05	04/01/2013	N	5	5.5	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG02	SAIA-SB/SG02-15	04/01/2013	N	15	15.5	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG02	SAIA-SB/SG02-25	04/01/2013	N	25	25.5	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG02	SAIA-SB/SG02-35	04/01/2013	N	35	35.5	<190	<190	<190	<190	<190	<190	**94 J**	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG03	SAIA-SB/SG03-0.5	04/01/2013	N	0.5	1	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG03	SAIA-SB/SG03-02	04/01/2013	N	2	2.5	<180	<180	**280**	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	**720**	<180	<180	<180	<180	<180
SAIA-SB/SG03	SAIA-SB/SG03-03	04/01/2013	FD	3	3.5	<180	<180	**230 J**	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	**670 J**	<180	<180	<180	<180	<180
SAIA-SB/SG03	SAIA-SB/SG03-05	04/01/2013	N	5	5.5	<220	<220	**J**	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	**1,500 J**	<220	<220	<220	<220	<220
SAIA-SB/SG03	SAIA-SB/SG03-15	04/01/2013	N	15	15.5	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG03	SAIA-SB/SG03-25	04/01/2013	N	25	25.5	<230	<230	**380**	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	**820**	<230	<230	<230	<230	<230
SAIA-SB/SG03	SAIA-SB/SG03-35	04/01/2013	N	35	35.5	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG04	SAIA-SB/SG04-0.5	04/01/2013	N	0.5	1	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG04	SAIA-SB/SG04-02	04/01/2013	N	2	2.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Semivolatiles (in ug/kg)									Metals by E200.7 (in mg/kg)										
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Isophorone	Naphthalene	Nitrobenzene	n-Nitrosodi-n-propylamine	n-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron
SAIA-SB/SG01	SAIA-SB/SG01-0.5	04/05/2013	N	0.5	1	<180	<180	<180	<180	<180	<360	<180	<180	<180	**14000**	<5.89	**2.8**	**130**	**0.34 J**	**0.13 J**	**11100**	**23.7**	**10.5**	**26.7**	**25300 J**
SAIA-SB/SG01	SAIA-SB/SG01-02	04/05/2013	N	2	2.5	<180	<180	<180	<180	<180	<360	<180	<180	**130 J**	**15,100**	<6.26	**2.8**	**133**	**0.31 J**	**0.1 J**	**8,230**	**27.4**	**11.1**	**23.9**	**27,400 J**
SAIA-SB/SG01	SAIA-SB/SG01-05	04/05/2013	N	5	5.5	<180	<180	<180	<180	<180	<350	<180	<180	<180	**13,600**	<5.26	**1.9**	**118**	**0.32 J**	**0.095 J**	**7,610**	**18.2**	**9.8**	**18.8**	**22,700 J**
SAIA-SB/SG01	SAIA-SB/SG01-06	04/05/2013	FD	6	6.5	<180	<180	<180	<180	<180	<340	<180	<180	<180	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG01	SAIA-SB/SG01-15	04/05/2013	N	15	15.5	<220	<220	<220	<220	<220	<430	<220	<220	<220	**34,400**	<7.69	**4**	**251**	**1.1**	**0.29 J**	**14,400**	**39.9**	**19.1**	**61.9**	**38,600 J**
SAIA-SB/SG01	SAIA-SB/SG01-06	04/05/2013	FD	16	16.5	--	--	--	--	--	--	--	--	--	**13,200**	<5.26	**1.8**	**120**	**0.3 J**	**0.091 J**	**6,970**	**18.3**	**9.7**	**17.6**	**22,800 J**
SAIA-SB/SG01	SAIA-SB/SG01-25	04/05/2013	N	25	25.5	<210	<210	<210	<210	<210	<410	<210	<210	<210	**19,800**	<6.28	**3.7**	**203**	**0.45 J**	<0.523	**9,200**	**27.7**	**14.4**	**24.5**	**31,800 J**
SAIA-SB/SG01	SAIA-SB/SG01-35	04/05/2013	N	35	35.5	<170	<170	<170	<170	<170	<340	<170	<170	<170	**7,580**	<5.96	**10.5**	**77.6**	**0.17 J**	<0.50	**3,860**	**9.8**	**5.8**	**8.5**	**15,800 J**
SAIA-SB/SG02	SAIA-SB/SG02-0.5	04/01/2013	N	0.5	1	<180	<180	<180	<180	<180	<350	<180	<180	<180	**15,200**	**2.5 J**	**4.4**	**146**	<0.50	**0.81**	**7,980**	**20.2**	**10.5**	**19.3**	**25,700**
SAIA-SB/SG02	SAIA-SB/SG02-02	04/01/2013	N	2	2.5	<170	<170	<170	<170	<170	<340	<170	<170	<170	**11,000**	**0.93 J**	**2.3**	**108**	<0.53	**0.59**	**5,580**	**13.9**	**7.7**	**12.8**	**19,900**
SAIA-SB/SG02	SAIA-SB/SG02-05	04/01/2013	N	5	5.5	<190	<190	<190	<190	<190	<360	<190	<190	<190	**25,000**	**1.3 J**	**4.4**	**217**	**0.59**	**1.2**	**13,100**	**32.4**	**15.9**	**29**	**36,600**
SAIA-SB/SG02	SAIA-SB/SG02-15	04/01/2013	N	15	15.5	<210	<210	<210	<210	<210	<400	<210	<210	<210	**16,200**	**1.5 J**	**3.2**	**163**	<0.56	**0.88**	**8,730**	**22.8**	**11.7**	**20.9**	**27,200**
SAIA-SB/SG02	SAIA-SB/SG02-25	04/01/2013	N	25	25.5	<200	<200	<200	<200	<200	<390	<200	<200	<200	**26,800**	**1.1 J**	**7.6**	**216**	**0.68**	**1.2**	**16,600**	**35.6**	**17.4**	**35.1**	**38,900**
SAIA-SB/SG02	SAIA-SB/SG02-35	04/01/2013	N	35	35.5	<190	<190	<190	<190	<190	<370	<190	<190	<190	**11,000**	<8.04	**8.3**	**92.9**	<0.67	<0.67	**7,660**	**23.9**	**6.8**	**12.6**	**19,800**
SAIA-SB/SG03	SAIA-SB/SG03-0.5	04/01/2013	N	0.5	1	<200	**78 J**	<200	<200	<200	<380	**95 J**	<200	<200	**11,300**	**2.7 J**	**3.1**	**102**	<0.50	**0.69**	**10,300**	**23.6**	**8.3**	**228**	**20,800**
SAIA-SB/SG03	SAIA-SB/SG03-02	04/01/2013	N	2	2.5	<180	**1,500 J**	<180	<180	<180	<350	**1,900 J**	<180	<180	**9,640**	**0.98 J**	**2.2**	**86.6**	<0.45	**0.58**	**7,710**	**18.5**	**7**	**13.5**	**19,400**
SAIA-SB/SG03	SAIA-SB/SG03-03	04/01/2013	FD	3	3.5	<180	**1,400 J**	<180	<180	<180	<360	**1,500 J**	<180	<180	**10,000**	**1.3 J**	**2.5**	**88.9**	<0.51	**0.58**	**7,140**	**17.7**	**7**	**15.5**	**18,900**
SAIA-SB/SG03	SAIA-SB/SG03-05	04/01/2013	N	5	5.5	<220	**7,300 J**	<220	<220	<220	<420	**3,700 J**	<220	<220	**23,300**	**1.5 J**	**4.5**	**186**	**0.59**	**1.1**	**13,000**	**29.4**	**14.6**	**34.1**	**31,500**
SAIA-SB/SG03	SAIA-SB/SG03-15	04/01/2013	N	15	15.5	<210	<210	<210	<210	<210	<400	<210	<210	<210	**20,600**	**1.3 J**	**2.7**	**162**	<0.55	**0.89**	**12,800**	**25.6**	**12.1**	**33.2**	**27,900**
SAIA-SB/SG03	SAIA-SB/SG03-25	04/01/2013	N	25	25.5	<230	**2,100**	<230	<230	<230	<440	**2,300**	<230	<230	**18,800**	**1.1 J**	**7.2**	**165**	<0.46	**0.79**	**8,520**	**26.3**	**12.1**	**25**	**27,500**
SAIA-SB/SG03	SAIA-SB/SG03-35	04/01/2013	N	35	35.5	<200	<200	<200	<200	<200	<390	<200	<200	<200	**9,910**	**0.69 J**	**7.8**	**91.5**	<0.51	<0.51	**5,060**	**13.2**	**6.7**	**12.1**	**17,400**
SAIA-SB/SG04	SAIA-SB/SG04-0.5	04/01/2013	N	0.5	1	<180	<180	<180	<180	<180	<360	<180	<180	<180	**15,900**	**2.2 J**	**4.3**	**143**	<0.45	**0.87**	**8,310**	**24.7**	**10.6**	**30.1**	**27,500**
SAIA-SB/SG04	SAIA-SB/SG04-02	04/01/2013	N	2	2.5	<180	<180	<180	<180	<180	<340	<180	<180	<180	**11,900**	**0.67 J**	**2.2**	**106**	<0.48	**0.65**	**7,090**	**16.7**	**8.3**	**13.4**	**22,300**

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Metals by E200.7 (in mg/kg)			Metals by E200.7 (in mg/kg)								Metals by C245_5 (in mg/kg)	PCBs by SW8082 (in ug/kg)				
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Mercury	PCB-1016 (Arochlor 1016)	PCB-1221 (Arochlor 1221)	PCB-1232 (Arochlor 1232)	PCB-1242 (Arochlor 1242)	PCB-1248 (Arochlor 1248)
SAIA-SB/SG01	SAIA-SB/SG01-0.5	04/05/2013	N	0.5	1	**69.6 J**	**7570**	**355**	**16.4**	**4570**	<3.44	<0.98	<491	<2.45	**45.3**	**77.3**	**0.078 J**	<36	<36	<36	<36	<36
SAIA-SB/SG01	SAIA-SB/SG01-02	04/05/2013	N	2	2.5	**6.1 J**	**7,940**	**364**	**16.6**	**4,430**	<3.65	<1.04	<522	<2.61	**51**	**72.3**	**0.027 J**	<36	<36	<36	<36	<36
SAIA-SB/SG01	SAIA-SB/SG01-05	04/05/2013	N	5	5.5	**3.9 J**	**7,200**	**325**	**12.3**	**4,020**	<3.07	<0.88	<438	<2.19	**42.5**	**60**	**0.059 J**	<35	<35	<35	<35	<35
SAIA-SB/SG01	SAIA-SB/SG01-06	04/05/2013	FD	6	6.5	--	--	--	--	--	--	--	--	--	--	--	--	<34	<34	<34	<34	<34
SAIA-SB/SG01	SAIA-SB/SG01-15	04/05/2013	N	15	15.5	**12.4 J**	**14,500**	**502**	**28.9**	**5,490**	<4.49	<1.28	**2,750**	<3.21	**74.8**	**106**	**0.14 J**	<43	<43	<43	<43	<43
SAIA-SB/SG01	SAIA-SB/SG01-06	04/05/2013	FD	16	16.5	**4.4 J**	**7,070**	**325**	**12.2**	**4,000**	<3.07	<0.88	<438	<2.19	**43.3**	**57.9**	**0.026 J**	--	--	--	--	--
SAIA-SB/SG01	SAIA-SB/SG01-25	04/05/2013	N	25	25.5	**4.2 J**	**11,200**	**567**	**18.9**	**5,720**	<3.66	<1.05	**870**	<2.61	**52.3**	**79.7**	**0.072 J**	<41	<41	<41	<41	<41
SAIA-SB/SG01	SAIA-SB/SG01-35	04/05/2013	N	35	35.5	**1.6 J**	**4,430**	**218**	**6**	**2,170**	<3.47	<0.99	<496	<2.48	**28.4**	**33.2**	**0.022 J**	<34	<34	<34	<34	<34
SAIA-SB/SG02	SAIA-SB/SG02-0.5	04/01/2013	N	0.5	1	**70.6**	**8,150**	**368**	**13.4**	**5,340**	<3.47	<0.99	**583**	<2.48	**47.9**	**86.3**	**0.1 J**	<35	<35	<35	<35	<35
SAIA-SB/SG02	SAIA-SB/SG02-02	04/01/2013	N	2	2.5	**20.4**	**6,030**	**276**	**9.4**	**3,660**	<3.69	<1.05	<527	<2.63	**39.2**	**53.7**	**0.032 J**	<34	<34	<34	<34	<34
SAIA-SB/SG02	SAIA-SB/SG02-05	04/01/2013	N	5	5.5	**6.3**	**12,500**	**565**	**22.6**	**6,810**	<3.76	<1.08	**632**	<2.69	**69.4**	**92.9**	**0.057 J**	<36	<36	<36	<36	<36
SAIA-SB/SG02	SAIA-SB/SG02-15	04/01/2013	N	15	15.5	**41.6**	**9,010**	**412**	**15.3**	**5,290**	<3.89	<1.11	<556	<2.78	**50.9**	**92.7**	**0.038 J**	<40	<40	<40	<40	<40
SAIA-SB/SG02	SAIA-SB/SG02-25	04/01/2013	N	25	25.5	**6.4**	**13,100**	**713**	**24.6**	**5,860**	<3.39	<0.97	**1,750**	<2.42	**65**	**89.7**	**0.078 J**	<39	<39	<39	<39	<39
SAIA-SB/SG02	SAIA-SB/SG02-35	04/01/2013	N	35	35.5	**3.3**	**5,470**	**271**	**9.1**	**2,710**	<4.69	<1.34	<670	<3.35	**37.7**	**46.5**	**0.02 J**	<37	<37	<37	<37	<37
SAIA-SB/SG03	SAIA-SB/SG03-0.5	04/01/2013	N	0.5	1	**94.6**	**5,850**	**280**	**19**	**3,600**	<3.47	<0.99	<496	<2.48	**35.6**	**107**	**0.024 J**	<38	<38	<38	<38	<38
SAIA-SB/SG03	SAIA-SB/SG03-02	04/01/2013	N	2	2.5	**4**	**5,140**	**245**	**8.4**	**2,920**	<3.14	<0.90	<449	<2.24	**37.2**	**42.1**	**0.013 J**	<36	<36	<36	<36	<36
SAIA-SB/SG03	SAIA-SB/SG03-03	04/01/2013	FD	3	3.5	**3.9**	**5,260**	**250**	**8.7**	**3,000**	<3.54	<1.01	<505	<2.53	**35.4**	**44.5**	**0.012 J**	<36	<36	<36	<36	<36
SAIA-SB/SG03	SAIA-SB/SG03-05	04/01/2013	N	5	5.5	**7.3**	**11,300**	**513**	**21.4**	**5,310**	<3.69	<1.05	**585**	<2.64	**60.7**	**80.8**	**0.028 J**	<41	<41	<41	<41	<41
SAIA-SB/SG03	SAIA-SB/SG03-15	04/01/2013	N	15	15.5	**4.4**	**10,000**	**386**	**17.1**	**4,860**	<3.82	<1.09	**1,020**	<2.73	**55**	**71**	**0.036 J**	<40	<40	<40	<40	<40
SAIA-SB/SG03	SAIA-SB/SG03-25	04/01/2013	N	25	25.5	**4.9**	**9,530**	**460**	**18.9**	**4,130**	<3.22	<0.92	**1,060**	<2.30	**47.4**	**66.9**	**0.17 J**	<44	<44	<44	<44	<44
SAIA-SB/SG03	SAIA-SB/SG03-35	04/01/2013	N	35	35.5	**1.8**	**5,270**	**242**	**7.8**	**2,810**	<3.60	<1.03	<514	<2.57	**31.9**	**50**	**0.021 J**	<40	<40	<40	<40	<40
SAIA-SB/SG04	SAIA-SB/SG04-0.5	04/01/2013	N	0.5	1	**116**	**9,520**	**702**	**21.9**	**5,150**	<3.14	<0.90	<448	<2.24	**48**	**78.6**	**0.025 J**	<35	<35	<35	<35	<35
SAIA-SB/SG04	SAIA-SB/SG04-02	04/01/2013	N	2	2.5	**4.7**	**6,650**	**326**	**11**	**3,630**	<3.34	<0.95	<477	<2.38	**42.5**	**49.8**	**0.027 J**	<35	<35	<35	<35	<35

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	PCBs by SW8082 (in ug/kg)			
						PCB-1254 (Arochlor 1254)	PCB-1260 (Arochlor 1260)	PCB-1262 (Arochlor 1262)	PCB-1268 (Arochlor 1268)
SAIA-SB/SG01	SAIA-SB/SG01-0.5	04/05/2013	N	0.5	1	<36	<36	<36	<36
SAIA-SB/SG01	SAIA-SB/SG01-02	04/05/2013	N	2	2.5	<36	<36	<36	<36
SAIA-SB/SG01	SAIA-SB/SG01-05	04/05/2013	N	5	5.5	<35	<35	<35	<35
SAIA-SB/SG01	SAIA-SB/SG01-06	04/05/2013	FD	6	6.5	<34	<34	<34	<34
SAIA-SB/SG01	SAIA-SB/SG01-15	04/05/2013	N	15	15.5	<43	<43	<43	<43
SAIA-SB/SG01	SAIA-SB/SG01-06	04/05/2013	FD	16	16.5	--	--	--	--
SAIA-SB/SG01	SAIA-SB/SG01-25	04/05/2013	N	25	25.5	<41	<41	<41	<41
SAIA-SB/SG01	SAIA-SB/SG01-35	04/05/2013	N	35	35.5	<34	<34	<34	<34
SAIA-SB/SG02	SAIA-SB/SG02-0.5	04/01/2013	N	0.5	1	<35	<35	<35	<35
SAIA-SB/SG02	SAIA-SB/SG02-02	04/01/2013	N	2	2.5	<34	<34	<34	<34
SAIA-SB/SG02	SAIA-SB/SG02-05	04/01/2013	N	5	5.5	<36	<36	<36	<36
SAIA-SB/SG02	SAIA-SB/SG02-15	04/01/2013	N	15	15.5	<40	<40	<40	<40
SAIA-SB/SG02	SAIA-SB/SG02-25	04/01/2013	N	25	25.5	<39	<39	<39	<39
SAIA-SB/SG02	SAIA-SB/SG02-35	04/01/2013	N	35	35.5	<37	<37	<37	<37
SAIA-SB/SG03	SAIA-SB/SG03-0.5	04/01/2013	N	0.5	1	<38	<38	<38	<38
SAIA-SB/SG03	SAIA-SB/SG03-02	04/01/2013	N	2	2.5	<36	<36	<36	<36
SAIA-SB/SG03	SAIA-SB/SG03-03	04/01/2013	FD	3	3.5	<36	<36	<36	<36
SAIA-SB/SG03	SAIA-SB/SG03-05	04/01/2013	N	5	5.5	<41	<41	<41	<41
SAIA-SB/SG03	SAIA-SB/SG03-15	04/01/2013	N	15	15.5	<40	<40	<40	<40
SAIA-SB/SG03	SAIA-SB/SG03-25	04/01/2013	N	25	25.5	<44	<44	<44	<44
SAIA-SB/SG03	SAIA-SB/SG03-35	04/01/2013	N	35	35.5	<40	<40	<40	<40
SAIA-SB/SG04	SAIA-SB/SG04-0.5	04/01/2013	N	0.5	1	<35	<35	<35	<35
SAIA-SB/SG04	SAIA-SB/SG04-02	04/01/2013	N	2	2.5	<35	<35	<35	<35

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (in ug/kg)																					
						1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane (p-Dioxane)	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene
SAIA-SB/SG04	SAIA-SB/SG04-05	04/01/2013	N	5	5.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<150	<15	<15	<15	<15	<7.5
SAIA-SB/SG04	SAIA-SB/SG04-15	04/01/2013	N	15	15.5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<100	<10	<10	<10	<10	<5.1
SAIA-SB/SG04	SAIA-SB/SG04-25	04/01/2013	N	25	25.5	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<110	<11	<11	<11	<11	<5.3
SAIA-SB/SG04	SAIA-SB/SG04-35	04/01/2013	N	35	35.5	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<92	<9.2	<9.2	<9.2	<9.2	<4.6
SAIA-SB/SG05	SAIA-SB/SG05-0.5	04/02/2013	N	0.5	1	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<120	<12	<12	<12	<12	<6
SAIA-SB/SG05	SAIA-SB/SG05-02	04/02/2013	N	2	2.5	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<120	<12	<12	<12	<12	<6.1
SAIA-SB/SG05	SAIA-SB/SG05-05	04/02/2013	N	5	5.5	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<120	<12	<12	<12	<12	<6.1
SAIA-SB/SG05	SAIA-SB/SG05-15	04/02/2013	N	15	15.5	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<120	<12	<12	<12	<12	<5.9
SAIA-SB/SG05	SAIA-SB/SG05-25	04/02/2013	N	25	25.5	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<120	<12	<12	<12	<12	<6
SAIA-SB/SG05	SAIA-SB/SG05-35	04/02/2013	N	35	35.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<110	<11	<11	<11	<11	<5.5
SAIA-SB/SG06	SAIA-SB/SG06-0.5	04/03/2013	N	0.5	1	<6.2	<6.2	<6.2	<6.2	**1.4 J**	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<120	<12	<12	<12	**54**	<6.2
SAIA-SB/SG06	SAIA-SB/SG06-02	04/03/2013	N	2	2.5	<5.3	<5.3	<5.3	<5.3	**0.85 J**	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<110	<11	<11	<11	**22**	<5.3
SAIA-SB/SG06	SAIA-SB/SG06-05	04/03/2013	N	5	5.5	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<130	<13	<13	<13	**28**	<6.6
SAIA-SB/SG06	SAIA-SB/SG11-06	04/03/2013	FD	6	6.5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<110	<11	<11	<11	<11	<5.7
SAIA-SB/SG06	SAIA-SB/SG06-15	04/03/2013	N	15	15.5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<110	<11	<11	<11	<11	<5.4
SAIA-SB/SG06	SAIA-SB/SG06-25	04/03/2013	N	25	25.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<10	<10	<10	<10	<5
SAIA-SB/SG06	SAIA-SB/SG06-35	04/03/2013	N	35	35.5	<6	<6	<6	<6	**0.93 J**	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<120	<12	<12	<12	<12	<6
SAIA-SB/SG07	SAIA-SB/SG07-0.5	04/02/2013	N	0.5	1	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<110	<11	<11	<11	<11	<5.5
SAIA-SB/SG07	SAIA-SB/SG07-02	04/02/2013	N	2	2.5	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<100	<10	<10	<10	<10	<5.2
SAIA-SB/SG07	SAIA-SB/SG07-05	04/02/2013	N	5	5.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<10	<10	<10	<10	<5
SAIA-SB/SG07	SAIA-SB/SG07-15	04/02/2013	N	15	15.5	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<110	<11	<11	<11	<11	<5.3
SAIA-SB/SG07	SAIA-SB/SG07-25	04/02/2013	N	25	25.5	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<120	<12	<12	<12	<12	<6.1
SAIA-SB/SG07	SAIA-SB/SG07-35	04/02/2013	N	35	35.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<110	<11	<11	<11	<11	<5.5

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (in ug/kg)																							
						Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene (Cumene)	m,p-Xylene	Methyl Acetate	Methylcyclohexane	Methylene Chloride	o-Xylene	Styrene	tert-Butyl Methyl Ether (MTBE)
SAIA-SB/SG04	SAIA-SB/SG04-05	04/01/2013	N	5	5.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	**4.3 J**	<7.5	<7.5	<7.5	<7.5	<7.5
SAIA-SB/SG04	SAIA-SB/SG04-15	04/01/2013	N	15	15.5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG04	SAIA-SB/SG04-25	04/01/2013	N	25	25.5	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG04	SAIA-SB/SG04-35	04/01/2013	N	35	35.5	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6
SAIA-SB/SG05	SAIA-SB/SG05-0.5	04/02/2013	N	0.5	1	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
SAIA-SB/SG05	SAIA-SB/SG05-02	04/02/2013	N	2	2.5	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG05	SAIA-SB/SG05-05	04/02/2013	N	5	5.5	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG05	SAIA-SB/SG05-15	04/02/2013	N	15	15.5	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG05	SAIA-SB/SG05-25	04/02/2013	N	25	25.5	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
SAIA-SB/SG05	SAIA-SB/SG05-35	04/02/2013	N	35	35.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG06	SAIA-SB/SG06-0.5	04/03/2013	N	0.5	1	<6.2	<6.2	<6.2	<6.2	<6.2	**J**	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG06	SAIA-SB/SG06-02	04/03/2013	N	2	2.5	<5.3	**1 J**	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	**5.7**	**0.98 J**	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG06	SAIA-SB/SG06-05	04/03/2013	N	5	5.5	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	**2.8 J**	<6.6	<6.6	<6.6	**2.1 J**	<6.6	<6.6
SAIA-SB/SG06	SAIA-SB/SG11-06	04/03/2013	FD	6	6.5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	**1 J**	<5.7	<5.7	<5.7	<5.7
SAIA-SB/SG06	SAIA-SB/SG06-15	04/03/2013	N	15	15.5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	**2.5 J**	**120**	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	**3.7 J**	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG06	SAIA-SB/SG06-25	04/03/2013	N	25	25.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	**23**	<5	<5	<5
SAIA-SB/SG06	SAIA-SB/SG06-35	04/03/2013	N	35	35.5	<6	**1.2 J**	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	**7.9**	**1.1 J**	<6	<6	<6	<6
SAIA-SB/SG07	SAIA-SB/SG07-0.5	04/02/2013	N	0.5	1	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG07	SAIA-SB/SG07-02	04/02/2013	N	2	2.5	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
SAIA-SB/SG07	SAIA-SB/SG07-05	04/02/2013	N	5	5.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-SB/SG07	SAIA-SB/SG07-15	04/02/2013	N	15	15.5	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG07	SAIA-SB/SG07-25	04/02/2013	N	25	25.5	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG07	SAIA-SB/SG07-35	04/02/2013	N	35	35.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Volatiles (ug/kg)							Semivolatiles (in ug/kg)															
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	1,2,4,5-Tetrachlorobenzene	1,4-Dioxane (p-Dioxane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol
SAIA-SB/SG04	SAIA-SB/SG04-05	04/01/2013	N	5	5.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<220	--	<220	<220	<220	<220	<220	<430	<220	<220	<220	<220	<220	<220	<430	<220
SAIA-SB/SG04	SAIA-SB/SG04-15	04/01/2013	N	15	15.5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<200	--	<200	<200	<200	<200	<200	<380	<200	<200	<200	<200	<200	<200	<380	<200
SAIA-SB/SG04	SAIA-SB/SG04-25	04/01/2013	N	25	25.5	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<200	--	<200	<200	<200	<200	<200	<390	<200	<200	<200	<200	<200	<200	<390	<200
SAIA-SB/SG04	SAIA-SB/SG04-35	04/01/2013	N	35	35.5	<4.6	<4.6	<4.6	<4.6	**1.5 J**	<4.6	<4.6	<190	--	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	<190	<190	<370	<190
SAIA-SB/SG05	SAIA-SB/SG05-0.5	04/02/2013	N	0.5	1	<6	<6	<6	<6	<6	<6	<6	<190	--	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	<190	<190	<370	<190
SAIA-SB/SG05	SAIA-SB/SG05-02	04/02/2013	N	2	2.5	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG05	SAIA-SB/SG05-05	04/02/2013	N	5	5.5	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<190	--	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	<190	<190	<370	<190
SAIA-SB/SG05	SAIA-SB/SG05-15	04/02/2013	N	15	15.5	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<210	--	<210	<210	<210	<210	<210	<410	<210	<210	<210	<210	<210	<210	<410	<210
SAIA-SB/SG05	SAIA-SB/SG05-25	04/02/2013	N	25	25.5	<6	<6	<6	<6	<6	<6	<6	<200	--	<200	<200	<200	<200	<200	<390	<200	<200	<200	<200	<200	<200	<390	<200
SAIA-SB/SG05	SAIA-SB/SG05-35	04/02/2013	N	35	35.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG06	SAIA-SB/SG06-0.5	04/03/2013	N	0.5	1	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<190	--	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	**1,400**	<190	<370	<190
SAIA-SB/SG06	SAIA-SB/SG06-02	04/03/2013	N	2	2.5	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	**1,200 J**	<180	<350	<180
SAIA-SB/SG06	SAIA-SB/SG06-05	04/03/2013	N	5	5.5	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<200	--	<200	<200	<200	<200	<200	<390	<200	<200	<200	<200	<200	<200	<390	<200
SAIA-SB/SG06	SAIA-SB/SG11-06	04/03/2013	FD	6	6.5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<190	--	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	<190	<190	<370	<190
SAIA-SB/SG06	SAIA-SB/SG06-15	04/03/2013	N	15	15.5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<200	--	<200	<200	<200	<200	<200	<380	<200	<200	<200	<200	**2,400**	<200	<380	<200
SAIA-SB/SG06	SAIA-SB/SG06-25	04/03/2013	N	25	25.5	<5	<5	<5	<5	<5	<5	<5	<200	--	<200	<200	<200	<200	<200	<380	<200	<200	<200	<200	<200	<200	<380	<200
SAIA-SB/SG06	SAIA-SB/SG06-35	04/03/2013	N	35	35.5	<6	<6	<6	<6	<6	<6	<6	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG07	SAIA-SB/SG07-0.5	04/02/2013	N	0.5	1	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<190	--	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	<190	<190	<370	<190
SAIA-SB/SG07	SAIA-SB/SG07-02	04/02/2013	N	2	2.5	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG07	SAIA-SB/SG07-05	04/02/2013	N	5	5.5	<5	<5	<5	<5	<5	<5	<5	<200	--	<200	<200	<200	<200	<200	<390	<200	<200	<200	<200	<200	<200	<390	<200
SAIA-SB/SG07	SAIA-SB/SG07-15	04/02/2013	N	15	15.5	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<210	--	<210	<210	<210	<210	<210	<400	<210	<210	<210	<210	<210	<210	<400	<210
SAIA-SB/SG07	SAIA-SB/SG07-25	04/02/2013	N	25	25.5	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<210	--	<210	<210	<210	<210	<210	<400	<210	<210	<210	<210	<210	<210	<400	<210
SAIA-SB/SG07	SAIA-SB/SG07-35	04/02/2013	N	35	35.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Semivolatile (ug/kg)																			
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	3,3'-Dichlorobenzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl phenyl ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl Phenyl Ether	4-Methylphenol (p-Cresol)	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzaldehyde	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
SAIA-SB/SG04	SAIA-SB/SG04-05	04/01/2013	N	5	5.5	<220	<430	<430	<220	<220	<220	<220	<220	<430	<430	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220
SAIA-SB/SG04	SAIA-SB/SG04-15	04/01/2013	N	15	15.5	<200	<380	<380	<200	<200	<200	<200	<200	<380	<380	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG04	SAIA-SB/SG04-25	04/01/2013	N	25	25.5	<200	<390	<390	<200	<200	<200	<200	<200	<390	<390	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG04	SAIA-SB/SG04-35	04/01/2013	N	35	35.5	<190	<370	<370	<190	<190	<190	<190	<190	<370	<370	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG05	SAIA-SB/SG05-0.5	04/02/2013	N	0.5	1	<190	<370	<370	<190	<190	<190	<190	<190	<370	<370	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG05	SAIA-SB/SG05-02	04/02/2013	N	2	2.5	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG05	SAIA-SB/SG05-05	04/02/2013	N	5	5.5	<190	<370	<370	<190	<190	<190	<190	<190	<370	<370	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG05	SAIA-SB/SG05-15	04/02/2013	N	15	15.5	<210	<410	<410	<210	<210	<210	<210	<210	<410	<410	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG05	SAIA-SB/SG05-25	04/02/2013	N	25	25.5	<200	<390	<390	<200	<200	<200	<200	<200	<390	<390	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG05	SAIA-SB/SG05-35	04/02/2013	N	35	35.5	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG06	SAIA-SB/SG06-0.5	04/03/2013	N	0.5	1	<190	<370	<370	<190	<190	<190	<190	<190	<370	<370	**120 J**	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG06	SAIA-SB/SG06-02	04/03/2013	N	2	2.5	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG06	SAIA-SB/SG06-05	04/03/2013	N	5	5.5	<200	<390	<390	<200	<200	<200	<200	<200	<390	<390	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG06	SAIA-SB/SG11-06	04/03/2013	FD	6	6.5	<190	<370	<370	<190	<190	<190	<190	<190	<370	<370	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG06	SAIA-SB/SG06-15	04/03/2013	N	15	15.5	<200	<380	<380	<200	<200	<200	<200	<200	<380	<380	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG06	SAIA-SB/SG06-25	04/03/2013	N	25	25.5	<200	<380	<380	<200	<200	<200	<200	<200	<380	<380	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG06	SAIA-SB/SG06-35	04/03/2013	N	35	35.5	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG07	SAIA-SB/SG07-0.5	04/02/2013	N	0.5	1	<190	<370	<370	<190	<190	<190	<190	<190	<370	<370	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG07	SAIA-SB/SG07-02	04/02/2013	N	2	2.5	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG07	SAIA-SB/SG07-05	04/02/2013	N	5	5.5	<200	<390	<390	<200	<200	<200	<200	<200	<390	<390	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG07	SAIA-SB/SG07-15	04/02/2013	N	15	15.5	<210	<400	<400	<210	<210	<210	<210	<210	<400	<400	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG07	SAIA-SB/SG07-25	04/02/2013	N	25	25.5	<210	<400	<400	<210	<210	<210	<210	<210	<400	<400	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG07	SAIA-SB/SG07-35	04/02/2013	N	35	35.5	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Semivolatiles (in ug/kg)																					
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Benzo(k)fluoranthene	Benzyl butyl phthalate	Biphenyl (Diphenyl)	bis(2-Chloroethoxy) Methane	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	bis(2-Chloroisopropyl) Ether	bis(2-Ethylhexyl) Phthalate	Caprolactam	Carbazole	Chrysene	Di-n-Butyl Phthalate	Di-n-Octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Phthalate	Dimethyl Phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-c,d)pyrene
SAIA-SB/SG04	SAIA-SB/SG04-05	04/01/2013	N	5	5.5	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220
SAIA-SB/SG04	SAIA-SB/SG04-15	04/01/2013	N	15	15.5	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG04	SAIA-SB/SG04-25	04/01/2013	N	25	25.5	<200	<200	<200	<200	<200	<200	**84 J**	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG04	SAIA-SB/SG04-35	04/01/2013	N	35	35.5	<190	<190	<190	<190	<190	<190	**130 J**	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG05	SAIA-SB/SG05-0.5	04/02/2013	N	0.5	1	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG05	SAIA-SB/SG05-02	04/02/2013	N	2	2.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG05	SAIA-SB/SG05-05	04/02/2013	N	5	5.5	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG05	SAIA-SB/SG05-15	04/02/2013	N	15	15.5	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG05	SAIA-SB/SG05-25	04/02/2013	N	25	25.5	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG05	SAIA-SB/SG05-35	04/02/2013	N	35	35.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG06	SAIA-SB/SG06-0.5	04/03/2013	N	0.5	1	<190	<190	**98 J**	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	**250**	<190	<190	<190	<190	<190
SAIA-SB/SG06	SAIA-SB/SG06-02	04/03/2013	N	2	2.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	**230**	<180	<180	<180	<180	<180
SAIA-SB/SG06	SAIA-SB/SG06-05	04/03/2013	N	5	5.5	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG06	SAIA-SB/SG11-06	04/03/2013	FD	6	6.5	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG06	SAIA-SB/SG06-15	04/03/2013	N	15	15.5	<200	<200	**290**	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG06	SAIA-SB/SG06-25	04/03/2013	N	25	25.5	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG06	SAIA-SB/SG06-35	04/03/2013	N	35	35.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG07	SAIA-SB/SG07-0.5	04/02/2013	N	0.5	1	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG07	SAIA-SB/SG07-02	04/02/2013	N	2	2.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG07	SAIA-SB/SG07-05	04/02/2013	N	5	5.5	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG07	SAIA-SB/SG07-15	04/02/2013	N	15	15.5	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG07	SAIA-SB/SG07-25	04/02/2013	N	25	25.5	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG07	SAIA-SB/SG07-35	04/02/2013	N	35	35.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Semivolatiles (in ug/kg)									Metals by E200.7 (in mg/kg)										
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Isophorone	Naphthalene	Nitrobenzene	n-Nitrosodi-n-propylamine	n-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron
SAIA-SB/SG04	SAIA-SB/SG04-05	04/01/2013	N	5	5.5	<220	<220	<220	<220	<220	<430	<220	<220	<220	**27,900**	**1.1 J**	**4.7**	**227**	**0.79**	**1.2**	**12,900**	**36.1**	**16.3**	**40.8**	**36,200**
SAIA-SB/SG04	SAIA-SB/SG04-15	04/01/2013	N	15	15.5	<200	<200	<200	<200	<200	<380	<200	<200	<200	**19,300**	**1.6 J**	**3.8**	**162**	<0.60	**0.99**	**14,300**	**35.7**	**13.2**	**27.8**	**30,300**
SAIA-SB/SG04	SAIA-SB/SG04-25	04/01/2013	N	25	25.5	<200	<200	<200	<200	<200	<390	<200	<200	<200	**26,300**	**1.5 J**	**13.6**	**236**	**0.64**	**1.4**	**31,300**	**31.2**	**15.3**	**34.7**	**34,500**
SAIA-SB/SG04	SAIA-SB/SG04-35	04/01/2013	N	35	35.5	<190	<190	<190	<190	<190	<370	<190	<190	<190	**8,960**	**0.95 J**	**4.1**	**92**	<0.47	**0.51**	**4,470**	**13.8**	**6.5**	**10.5**	**17,400**
SAIA-SB/SG05	SAIA-SB/SG05-0.5	04/02/2013	N	0.5	1	<190	<190	<190	<190	<190	<370	<190	<190	<190	**14,900**	<6.40	**3.5**	**141**	<0.53	**0.047 J**	**9,660**	**20.2**	**10.3**	**30.5**	**25,100**
SAIA-SB/SG05	SAIA-SB/SG05-02	04/02/2013	N	2	2.5	<180	<180	<180	<180	<180	<350	<180	<180	<180	**9,860**	<5.49	**1.8**	**95.4**	<0.46	<0.46	**5,340**	**11.5**	**6.6**	**11.6**	**17,100**
SAIA-SB/SG05	SAIA-SB/SG05-05	04/02/2013	N	5	5.5	<190	<190	<190	<190	<190	<370	<190	<190	<190	**17,400**	<5.67	**2.9**	**165**	<0.47	**0.054 J**	**9,170**	**22.9**	**12.3**	**22**	**27,000**
SAIA-SB/SG05	SAIA-SB/SG05-15	04/02/2013	N	15	15.5	<210	<210	<210	<210	<210	<410	<210	<210	<210	**17,500**	<5.65	**2.8**	**127**	<0.47	<0.47	**8,070**	**21.8**	**10.8**	**19.7**	**27,300**
SAIA-SB/SG05	SAIA-SB/SG05-25	04/02/2013	N	25	25.5	<200	<200	<200	<200	<200	<390	<200	<200	<200	**17,100**	<5.93	**4.3**	**164**	<0.49	**0.12 J**	**7,090**	**25.4**	**11.8**	**31.6 J**	**26,400**
SAIA-SB/SG05	SAIA-SB/SG05-35	04/02/2013	N	35	35.5	<180	<180	<180	<180	<180	<350	<180	<180	<180	**7,610**	<6.38	**8.7**	**63.9**	<0.53	<0.53	**4,310**	**9.1**	**5 J**	**8.8 J**	**13,600**
SAIA-SB/SG06	SAIA-SB/SG06-0.5	04/03/2013	N	0.5	1	<190	**250**	<190	<190	<190	<370	**420**	<190	<190	**14,600**	<6.48	**2.5**	**130**	<0.54	<0.54	**7,030**	**20.3**	**10.3**	**18.4**	**23,700**
SAIA-SB/SG06	SAIA-SB/SG06-02	04/03/2013	N	2	2.5	<180	**230 J**	<180	<180	<180	<350	**330**	<180	<180	**15,100**	<4.70	**1.6**	**168**	<0.39	<0.39	**5,940**	**18.4**	**12**	**15.1**	**24,600**
SAIA-SB/SG06	SAIA-SB/SG06-05	04/03/2013	N	5	5.5	<200	<200	<200	<200	<200	<390	<200	<200	<200	**19,800**	<6.50	**4.1**	**170**	<0.54	<0.54	**16,700**	**26.1**	**12.3**	**25.7**	**29,600**
SAIA-SB/SG06	SAIA-SB/SG11-06	04/03/2013	FD	6	6.5	<190	<190	<190	<190	<190	<370	<190	<190	<190	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG06	SAIA-SB/SG06-15	04/03/2013	N	15	15.5	<200	**630**	<200	<200	<200	<380	<200	<200	<200	**20,000**	<7.24	**3.6**	**163**	<0.60	<0.60	**18,100**	**25.2**	**13**	**25.6**	**30,200**
SAIA-SB/SG06	SAIA-SB/SG06-25	04/03/2013	N	25	25.5	<200	<200	<200	<200	<200	<380	<200	<200	<200	**17,300**	<6.57	**11.2**	**170**	<0.55	<0.55	**8,310**	**31.5**	**14.1**	**32.2**	**30,800**
SAIA-SB/SG06	SAIA-SB/SG06-35	04/03/2013	N	35	35.5	<180	<180	<180	<180	<180	<350	<180	<180	<180	**11,400**	<4.76	**10.5**	**103**	<0.40	<0.40	**5,290**	**12.9**	**8**	**11.6**	**16,800**
SAIA-SB/SG07	SAIA-SB/SG07-0.5	04/02/2013	N	0.5	1	<190	<190	<190	<190	<190	<370	<190	<190	<190	**15,900**	<6.12	**2.5**	**144**	<0.51	**0.038 J**	**7,240**	**21.4**	**11.1**	**19.7**	**25,900**
SAIA-SB/SG07	SAIA-SB/SG07-02	04/02/2013	N	2	2.5	<180	<180	<180	<180	<180	<350	<180	<180	<180	**10,600**	<5.34	**2.3**	**102**	<0.44	**0.035 J**	**5,370**	**12.9**	**7.5**	**12.9**	**17,200**
SAIA-SB/SG07	SAIA-SB/SG07-05	04/02/2013	N	5	5.5	<200	<200	<200	<200	<200	<390	<200	<200	<200	**19,200**	<6.85	**3.2**	**157**	<0.57	**0.059 J**	**12,800**	**24.7**	**12.2**	**25.1**	**28,700**
SAIA-SB/SG07	SAIA-SB/SG07-15	04/02/2013	N	15	15.5	<210	<210	<210	<210	<210	<400	<210	<210	<210	**24,000**	<5.73	**3.2**	**178**	**0.61**	**0.083 J**	**23,000**	**29.2**	**14.4**	**32.6**	**31,500**
SAIA-SB/SG07	SAIA-SB/SG07-25	04/02/2013	N	25	25.5	<210	<210	<210	<210	<210	<400	<210	<210	<210	**24,600**	<5.53	**9.9**	**204**	**0.72**	**0.019 J**	**11,700**	**38.4**	**19.4**	**53**	**36,500**
SAIA-SB/SG07	SAIA-SB/SG07-35	04/02/2013	N	35	35.5	<180	<180	<180	<180	<180	<350	<180	<180	<180	**9,440**	<6.39	**10.1**	**81**	<0.53	<0.53	**4,540**	**11**	**6.1**	**9.9**	**16,900**

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Metals by E200.7 (in mg/kg)			Metals by E200.7 (in mg/kg)								Metals by C245_5 (in mg/kg)	PCBs by SW8082 (in ug/kg)				
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Mercury	PCB-1016 (Arochlor 1016)	PCB-1221 (Arochlor 1221)	PCB-1232 (Arochlor 1232)	PCB-1242 (Arochlor 1242)	PCB-1248 (Arochlor 1248)
SAIA-SB/SG04	SAIA-SB/SG04-05	04/01/2013	N	5	5.5	**9**	**12,500**	**693**	**25.1**	**5,280**	<3.93	<1.12	**714**	<2.81	**65.6**	**90.6**	**0.11 J**	<43	<43	<43	<43	<43
SAIA-SB/SG04	SAIA-SB/SG04-15	04/01/2013	N	15	15.5	**4.8**	**9,980**	**478**	**26.9**	**4,730**	<4.17	<1.19	**1,690**	<2.98	**59.4**	**75.7**	**0.059 J**	<38	<38	<38	<38	<38
SAIA-SB/SG04	SAIA-SB/SG04-25	04/01/2013	N	25	25.5	**6.6**	**12,600**	**713**	**21.6**	**5,610**	<4.28	<1.22	**1,960**	<3.06	**69.6**	**84.1**	**0.06 J**	<39	<39	<39	<39	<39
SAIA-SB/SG04	SAIA-SB/SG04-35	04/01/2013	N	35	35.5	**1.9**	**5,280**	**230**	**7.7**	**2,950**	<3.27	<0.93	<467	<2.33	**31.8**	**63.5**	**0.02 J**	<37	<37	<37	<37	<37
SAIA-SB/SG05	SAIA-SB/SG05-0.5	04/02/2013	N	0.5	1	**128**	**8,070**	**361**	**13.7**	**5,200**	<3.73	<1.07	<533	<2.67	**45**	**76**	**0.025 J**	<36	<36	<36	<36	<36
SAIA-SB/SG05	SAIA-SB/SG05-02	04/02/2013	N	2	2.5	**4.4**	**5,220**	**231**	**7.6**	**3,270**	<3.20	<0.91	<457	<2.29	**31.1**	**40.8**	**0.034 J**	<35	<35	<35	<35	<35
SAIA-SB/SG05	SAIA-SB/SG05-05	04/02/2013	N	5	5.5	**4.6**	**9,390**	**439**	**16**	**5,300**	<3.31	<0.94	<472	<2.36	**51.2**	**71.7**	**0.034 J**	<37	<37	<37	<37	<37
SAIA-SB/SG05	SAIA-SB/SG05-15	04/02/2013	N	15	15.5	**4.4**	**8,850**	**360**	**14.9**	**4,040**	<3.30	<0.94	**1,470**	<2.35	**49.6**	**63.9**	**0.056 J**	<41	<41	<41	<41	<41
SAIA-SB/SG05	SAIA-SB/SG05-25	04/02/2013	N	25	25.5	**5.7**	**8,540**	**431**	**18.2**	**3,880**	<3.46	<0.99	**1,730**	<2.47	**47.9**	**63.1**	**0.086 J**	<39	<39	<39	<39	<39
SAIA-SB/SG05	SAIA-SB/SG05-35	04/02/2013	N	35	35.5	**1.8**	**3,920**	**190**	**5.6**	**1,880**	<3.72	<1.06	**540**	<2.66	**25.6**	**30.8**	**0.024 J**	<35	<35	<35	<35	<35
SAIA-SB/SG06	SAIA-SB/SG06-0.5	04/03/2013	N	0.5	1	**3.3**	**7,610**	**340**	**13.2**	**4,210**	<3.78	<1.08	<540	<2.70	**44.6**	**59.6**	**0.049 J**	<36	<36	<36	<36	**310**
SAIA-SB/SG06	SAIA-SB/SG06-02	04/03/2013	N	2	2.5	**3.8**	**9,090**	**417**	**13.7**	**5,770**	<2.74	<0.78	<392	<1.96	**45.8**	**67.5**	**0.034 J**	<35	<35	<35	<35	<35
SAIA-SB/SG06	SAIA-SB/SG06-05	04/03/2013	N	5	5.5	**6.1**	**9,470**	**635**	**17.5**	**4,200**	<3.79	<1.08	<542	<2.71	**54.7**	**69**	**0.069 J**	<39	<39	<39	<39	<39
SAIA-SB/SG06	SAIA-SB/SG11-06	04/03/2013	FD	6	6.5	--	--	--	--	--	--	--	--	--	--	--	--	<37	<37	<37	<37	<37
SAIA-SB/SG06	SAIA-SB/SG06-15	04/03/2013	N	15	15.5	**5.1**	**10,700**	**596**	**17.7**	**5,100**	<4.23	<1.21	<604	<3.02	**54.6**	**75.2**	**0.036 J**	<38	<38	<38	<38	<38
SAIA-SB/SG06	SAIA-SB/SG06-25	04/03/2013	N	25	25.5	**7.2**	**10,800**	**534**	**25.2**	**3,940**	<3.83	<1.10	<548	<2.74	**47.9**	**73.9**	**0.14**	<38	<38	<38	<38	<38
SAIA-SB/SG06	SAIA-SB/SG06-35	04/03/2013	N	35	35.5	**2.2**	**5,980**	**261**	**9**	**2,940**	<2.77	<0.79	<396	<1.98	**28.7**	**45.9**	**0.038 J**	<35	<35	<35	<35	<35
SAIA-SB/SG07	SAIA-SB/SG07-0.5	04/02/2013	N	0.5	1	**4.7**	**8,300**	**377**	**14.6**	**5,040**	<3.57	<1.02	<510	<2.55	**47.3**	**66.3**	**0.026 J**	<37	<37	<37	<37	<37
SAIA-SB/SG07	SAIA-SB/SG07-02	04/02/2013	N	2	2.5	**2.7**	**5,780**	**266**	**9.6**	**3,490**	<3.12	<0.89	<445	<2.23	**30.8**	**45.4**	**0.024 J**	<35	<35	<35	<35	<35
SAIA-SB/SG07	SAIA-SB/SG07-05	04/02/2013	N	5	5.5	**5.3**	**9,040**	**481**	**17**	**4,580**	<3.99	<1.14	<571	<2.85	**52.4**	**69.4**	**0.063 J**	<39	<39	<39	<39	<39
SAIA-SB/SG07	SAIA-SB/SG07-15	04/02/2013	N	15	15.5	**6.6**	**12,300**	**587**	**20.3**	**4,920**	<3.34	<0.96	**603**	<2.39	**59.6**	**82.2**	**0.047 J**	<40	<40	<40	<40	<40
SAIA-SB/SG07	SAIA-SB/SG07-25	04/02/2013	N	25	25.5	**12.3**	**12,200**	**621**	**29.5**	**3,800**	<3.22	<0.92	**1,130**	<2.30	**65.2**	**83**	**0.064 J**	<40	<40	<40	<40	<40
SAIA-SB/SG07	SAIA-SB/SG07-35	04/02/2013	N	35	35.5	**2.2**	**4,990**	**233**	**7.1**	**2,640**	<3.73	<1.07	<533	<2.66	**30.6**	**37.9**	**0.024 J**	<35	<35	<35	<35	<35

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	PCBs by SW8082 (in ug/kg)			
						PCB-1254 (Arochlor 1254)	PCB-1260 (Arochlor 1260)	PCB-1262 (Arochlor 1262)	PCB-1268 (Arochlor 1268)
SAIA-SB/SG04	SAIA-SB/SG04-05	04/01/2013	N	5	5.5	<43	<43	<43	<43
SAIA-SB/SG04	SAIA-SB/SG04-15	04/01/2013	N	15	15.5	<38	<38	<38	<38
SAIA-SB/SG04	SAIA-SB/SG04-25	04/01/2013	N	25	25.5	<39	<39	<39	<39
SAIA-SB/SG04	SAIA-SB/SG04-35	04/01/2013	N	35	35.5	<37	<37	<37	<37
SAIA-SB/SG05	SAIA-SB/SG05-0.5	04/02/2013	N	0.5	1	<36	<36	<36	<36
SAIA-SB/SG05	SAIA-SB/SG05-02	04/02/2013	N	2	2.5	<35	<35	<35	<35
SAIA-SB/SG05	SAIA-SB/SG05-05	04/02/2013	N	5	5.5	<37	<37	<37	<37
SAIA-SB/SG05	SAIA-SB/SG05-15	04/02/2013	N	15	15.5	<41	<41	<41	<41
SAIA-SB/SG05	SAIA-SB/SG05-25	04/02/2013	N	25	25.5	<39	<39	<39	<39
SAIA-SB/SG05	SAIA-SB/SG05-35	04/02/2013	N	35	35.5	<35	<35	<35	<35
SAIA-SB/SG06	SAIA-SB/SG06-0.5	04/03/2013	N	0.5	1	**320**	<36	<36	<36
SAIA-SB/SG06	SAIA-SB/SG06-02	04/03/2013	N	2	2.5	**16 J**	<35	<35	<35
SAIA-SB/SG06	SAIA-SB/SG06-05	04/03/2013	N	5	5.5	**3.7 J**	<39	<39	<39
SAIA-SB/SG06	SAIA-SB/SG11-06	04/03/2013	FD	6	6.5	<37	<37	<37	<37
SAIA-SB/SG06	SAIA-SB/SG06-15	04/03/2013	N	15	15.5	**79**	<38	<38	<38
SAIA-SB/SG06	SAIA-SB/SG06-25	04/03/2013	N	25	25.5	<38	<38	<38	<38
SAIA-SB/SG06	SAIA-SB/SG06-35	04/03/2013	N	35	35.5	<35	<35	<35	<35
SAIA-SB/SG07	SAIA-SB/SG07-0.5	04/02/2013	N	0.5	1	<37	<37	<37	<37
SAIA-SB/SG07	SAIA-SB/SG07-02	04/02/2013	N	2	2.5	<35	<35	<35	<35
SAIA-SB/SG07	SAIA-SB/SG07-05	04/02/2013	N	5	5.5	<39	<39	<39	<39
SAIA-SB/SG07	SAIA-SB/SG07-15	04/02/2013	N	15	15.5	<40	<40	<40	<40
SAIA-SB/SG07	SAIA-SB/SG07-25	04/02/2013	N	25	25.5	<40	<40	<40	<40
SAIA-SB/SG07	SAIA-SB/SG07-35	04/02/2013	N	35	35.5	<35	<35	<35	<35

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Volatiles (in ug/kg)																			
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane (p-Dioxane)	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene
SAIA-SB/SG08	SAIA-SB/SG08-0.5	04/03/2013	N	0.5	1	<5.5	<5.5	<5.5	<5.5	**8.2**	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<110	<11	<11	<11	<11	<5.5
SAIA-SB/SG08	SAIA-SB/SG08-02	04/03/2013	FD	1	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG08	SAIA-SB/SG08-02	04/03/2013	FD	2	2.5	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<130	<13	<13	<13	<13	<6.4
SAIA-SB/SG08	SAIA-SB/SG08-05	04/03/2013	N	5	5.5	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<89	<8.9	<8.9	<8.9	<8.9	<4.4
SAIA-SB/SG08	SAIA-SB/SG08-06	04/03/2013	FD	6	6.5	<4.9	<4.9	<4.9	<4.9	**1.8 J**	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<98	<9.8	<9.8	<9.8	<9.8	<4.9
SAIA-SB/SG08	SAIA-SB/SG08-15	04/03/2013	N	15	15.5	<6.9	<6.9	<6.9	<6.9	**27**	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<140	<14	<14	<14	<14	<6.9
SAIA-SB/SG08	SAIA-SB/SG08-25	04/03/2013	N	25	25.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<130	<13	<13	<13	<13	<6.5
SAIA-SB/SG08	SAIA-SB/SG08-35	04/03/2013	N	35	35.5	<6.6	<6.6	<6.6	**1 J**	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<130	<13	<13	<13	<13	<6.6
SAIA-SB/SG09	SAIA-SB/SG09-0.5	04/05/2013	N	0.5	1	**240 J**	<54	<54	**110 J**	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54	<1100	<110	<110	<110	**260 J**	<54
SAIA-SB/SG09	SAIA-SB/SG10-01	04/05/2013	FD	1	1.5	**7.6**	<5.4	<5.4	<5.4	**1.6 J**	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<110	<11	<11	<11	<11	<5.4
SAIA-SB/SG09	SAIA-SB/SG09-02	04/05/2013	N	2	2.5	**4.5 J**	<13	<13	**18 J**	<13	<13	<13	<13	<13	<13	<13	<13	<13	<13	<13	<13	<260	<26	<26	<26	**62 J**	<13
SAIA-SB/SG09	SAIA-SB/SG09-05	04/05/2013	N	5	5.5	**13 J**	<14	<14	**16**	**18**	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<280	<28	<28	<28	**180**	<14
SAIA-SB/SG09	SAIA-SB/SG09-15	04/05/2013	N	15	15.5	**11 J**	<5.7	<5.7	<5.7	**100 J**	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<110	<11	<11	<11	**34 J**	<5.7
SAIA-SB/SG09	SAIA-SB/SG09-25	04/05/2013	N	25	25.5	<7.2	<7.2	<7.2	<7.2	**270 J**	**19 J**	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	**4.1 J**	<7.2	<7.2	<7.2	<140	<14	<14	<14	<14	<7.2
SAIA-SB/SG09	SAIA-SB/SG09-35	04/05/2013	N	35	35.5	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	**1.1 J**	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<120	<12	<12	<12	**26**	<5.8
SAIA-SB/SG10	SAIA-SB/SG10-0.5	04/05/2013	N	0.5	1	**31**	<25	<25	<25	**7.1 J**	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<510	<51	<51	<51	<51	<25
SAIA-SB/SG10	SAIA-SB/SG10-01	04/05/2013	FD	1	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG10	SAIA-SB/SG10-02	04/05/2013	N	2	2.5	**26**	<7	<7	<7	**9.7 J**	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<140	<14	<14	<14	<14	<7
SAIA-SB/SG10	SAIA-SB/SG10-05	04/05/2013	N	5	5.5	**19**	<6.9	<6.9	<6.9	**4.6 J**	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<140	<14	<14	<14	**31**	<6.9
SAIA-SB/SG10	SAIA-SB/SG10-15	04/05/2013	N	15	15.5	**59**	<14	<14	<14	**77 J**	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<290	<29	<29	<29	<29	<14
SAIA-SB/SG10	SAIA-SB/SG10-25	04/05/2013	N	25	25.5	<6.4	<6.4	<6.4	<6.4	**16**	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<130	<13	<13	<13	<13	<6.4
SAIA-SB/SG10	SAIA-SB/SG10-35	04/05/2013	N	35	35.5	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<120	<12	<12	<12	<12	<6.1
SAIA-SB/SG11	SAIA-SB/SG11-0.5	04/03/2013	N	0.5	1	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<110	<11	<11	<11	<11	<5.5

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (in ug/kg)																						
						Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene (Cumene)	m,p-Xylene	Methyl Acetate	Methylcyclohexane	Methylene Chloride	o-Xylene	Styrene	tert-Butyl Methyl Ether (MTBE)
SAIA-SB/SG08	SAIA-SB/SG08-0.5	04/03/2013	N	0.5	1	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	**34**	<5.5	<5.5	<5.5	<5.5	**4.2 J**	**2.2 J**	**15**	<5.5	**2.7 J**	<5.5	**11**	<5.5	<5.5
SAIA-SB/SG08	SAIA-SB/SG08-02	04/03/2013	FD	1	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG08	SAIA-SB/SG08-02	04/03/2013	FD	2	2.5	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	**4.9 J**	<6.4	<6.4	<6.4	**3.9 J**	<6.4	<6.4
SAIA-SB/SG08	SAIA-SB/SG08-05	04/03/2013	N	5	5.5	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	**2.4 J**	<4.4	<4.4	<4.4	<4.4	**1.5 J**	<4.4	**6.1**	<4.4	<4.4	<4.4	**4.7**	<4.4	<4.4
SAIA-SB/SG08	SAIA-SB/SG08-06	04/03/2013	FD	6	6.5	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	**12**	<4.9	<4.9	<4.9	<4.9	**2.9 J**	**2.1 J**	**11**	<4.9	<4.9	<4.9	**8.7**	<4.9	<4.9
SAIA-SB/SG08	SAIA-SB/SG08-15	04/03/2013	N	15	15.5	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	**720 J**	<6.9	<6.9	<6.9	<6.9	**54 J**	**55**	**140**	<6.9	<6.9	<6.9	**130**	**3.7 J**	<6.9
SAIA-SB/SG08	SAIA-SB/SG08-25	04/03/2013	N	25	25.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	**21**	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5
SAIA-SB/SG08	SAIA-SB/SG08-35	04/03/2013	N	35	35.5	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	**18**	<6.6	<6.6	<6.6
SAIA-SB/SG09	SAIA-SB/SG09-0.5	04/05/2013	N	0.5	1	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54	<54	**96 J**	**89 J**	**190 J**	<54	<54	<54	**170 J**	<54	<54
SAIA-SB/SG09	SAIA-SB/SG10-01	04/05/2013	FD	1	1.5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	**86**	<5.4	**1.2 J**	<5.4	<5.4	**1.1 J**	**0.68 J**	**2.5 J**	<5.4	<5.4	<5.4	**1.9 J**	<5.4	<5.4
SAIA-SB/SG09	SAIA-SB/SG09-02	04/05/2013	N	2	2.5	<13	<13	<13	<13	<13	<13	<13	<13	<13	<13	**32 J**	<13	<13	<13	<13	**13 J**	**12 J**	**34 J**	<13	<13	<13	**31 J**	<13	<13
SAIA-SB/SG09	SAIA-SB/SG09-05	04/05/2013	N	5	5.5	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	**430**	<14	**5.4 J**	<14	<14	**8 J**	**8.1 J**	**20 J**	<14	<14	<14	**20 J**	<14	<14
SAIA-SB/SG09	SAIA-SB/SG09-15	04/05/2013	N	15	15.5	<5.7	<5.7	<5.7	<5.7	**0.96 J**	<5.7	<5.7	<5.7	<5.7	<5.7	**590 J**	<5.7	**2.4 J**	<5.7	<5.7	**46 J**	**100 J**	**80 J**	<5.7	<5.7	<5.7	**190 J**	**5.5 J**	<5.7
SAIA-SB/SG09	SAIA-SB/SG09-25	04/05/2013	N	25	25.5	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	**65,000 J**	<7.2	<7.2	<7.2	<7.2	**76 J**	**120 J**	**2,600 J**	<7.2	<7.2	<7.2	**280 J**	**8 J**	<7.2
SAIA-SB/SG09	SAIA-SB/SG09-35	04/05/2013	N	35	35.5	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	**4.8 J**	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	**6.3**	<5.8	<5.8	<5.8	<5.8	<5.8
SAIA-SB/SG10	SAIA-SB/SG10-0.5	04/05/2013	N	0.5	1	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	**360**	<25	<25	<25	<25	**4 J**	<25	**11 J**	**9.7 J**	<25	<25	**7.9 J**	<25	<25
SAIA-SB/SG10	SAIA-SB/SG10-01	04/05/2013	FD	1	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG10	SAIA-SB/SG10-02	04/05/2013	N	2	2.5	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	**1,200 J**	<7	<7	<7	<7	**2.1 J**	**1.3 J**	**5.6 J**	<7	<7	<7	**3.9 J**	<7	<7
SAIA-SB/SG10	SAIA-SB/SG10-05	04/05/2013	N	5	5.5	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	**220**	<6.9	<6.9	<6.9	<6.9	**3.2 J**	**1.8 J**	**9.4**	**5.9 J**	<6.9	<6.9	**6.2 J**	<6.9	<6.9
SAIA-SB/SG10	SAIA-SB/SG10-15	04/05/2013	N	15	15.5	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	**9,900 J**	<14	<14	<14	<14	**4.9 J**	**5.9 J**	**17**	<14	**3 J**	<14	**14**	<14	<14
SAIA-SB/SG10	SAIA-SB/SG10-25	04/05/2013	N	25	25.5	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	**7.5**	<6.4	<6.4	**6 J**	**9.7**	**4 J**	<6.4	**30**	<6.4	**11**	<6.4	<6.4
SAIA-SB/SG10	SAIA-SB/SG10-35	04/05/2013	N	35	35.5	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	**42**	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	**5.8 J**	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG11	SAIA-SB/SG11-0.5	04/03/2013	N	0.5	1	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	**4.7 J**	**1.1 J**	<5.5	<5.5	<5.5	<5.5

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Volatiles (ug/kg)							Semivolatiles (in ug/kg)															
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	1,2,4,5-Tetrachlorobenzene	1,4-Dioxane (p-Dioxane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol
SAIA-SB/SG08	SAIA-SB/SG08-0.5	04/03/2013	N	0.5	1	**2.6 J**	**4.6 J**	<5.5	**2 J**	<5.5	<5.5	<5.5	<190	--	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	**420**	<190	<370	<190
SAIA-SB/SG08	SAIA-SB/SG08-02	04/03/2013	FD	1	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG08	SAIA-SB/SG08-02	04/03/2013	FD	2	2.5	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<190	--	<190	<190	<190	<190	<190	<380	<190	<190	<190	<190	**450**	<190	<380	<190
SAIA-SB/SG08	SAIA-SB/SG08-05	04/03/2013	N	5	5.5	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<170	--	<170	<170	<170	<170	<170	<340	<170	<170	<170	<170	**2,100**	<170	<340	<170
SAIA-SB/SG08	SAIA-SB/SG08-06	04/03/2013	FD	6	6.5	<4.9	**2.1 J**	<4.9	<4.9	<4.9	<4.9	<4.9	<200	--	<200	<200	<200	<200	<200	<390	<200	<200	<200	<200	**2,000**	<200	<390	<200
SAIA-SB/SG08	SAIA-SB/SG08-15	04/03/2013	N	15	15.5	**14**	**30**	<6.9	<6.9	**2,000**	<6.9	<6.9	<200	--	<200	<200	<200	<200	<200	<380	<200	<200	<200	<200	**430**	<200	<380	<200
SAIA-SB/SG08	SAIA-SB/SG08-25	04/03/2013	N	25	25.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<200	--	<200	<200	<200	<200	<200	<380	<200	<200	<200	<200	<200	<200	<380	<200
SAIA-SB/SG08	SAIA-SB/SG08-35	04/03/2013	N	35	35.5	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<210	--	<210	<210	<210	<210	<210	<400	<210	<210	<210	<210	**2,300**	<210	<400	<210
SAIA-SB/SG09	SAIA-SB/SG09-0.5	04/05/2013	N	0.5	1	**330 J**	**57 J**	<54	<54	**32,000 J**	<54	<54	<180	--	<180	<180	<180	<180	<180	<360	<180	<180	<180	<180	**2,700**	<180	<360	<180
SAIA-SB/SG09	SAIA-SB/SG10-01	04/05/2013	FD	1	1.5	**4.1 J**	<5.4	<5.4	<5.4	**120**	<5.4	<5.4	<190	--	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	**630**	<190	<370	<190
SAIA-SB/SG09	SAIA-SB/SG09-02	04/05/2013	N	2	2.5	**50 J**	<13	<13	<13	**4,000 J**	<13	<13	<180	--	<180	<180	<180	<180	<180	<360	<180	<180	<180	<180	**1,500**	<180	<360	<180
SAIA-SB/SG09	SAIA-SB/SG09-05	04/05/2013	N	5	5.5	**34 J**	<14	<14	<14	**3,000 J**	<14	<14	<190	--	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	**2,200**	<190	<370	<190
SAIA-SB/SG09	SAIA-SB/SG09-15	04/05/2013	N	15	15.5	**34 J**	**31 J**	**2.8 J**	<5.7	**2,700 J**	<5.7	<5.7	<200	--	<200	<200	<200	<200	<200	<390	<200	<200	<200	<200	<200	<200	<390	<200
SAIA-SB/SG09	SAIA-SB/SG09-25	04/05/2013	N	25	25.5	**27 J**	**88 J**	**33 J**	<7.2	**60,000 J**	<7.2	<7.2	<220	--	<220	<220	<220	<220	<220	<420	<220	<220	<220	<220	**110 J**	<220	<420	<220
SAIA-SB/SG09	SAIA-SB/SG09-35	04/05/2013	N	35	35.5	<5.8	<5.8	<5.8	<5.8	**26**	<5.8	<5.8	<210	--	<210	<210	<210	<210	<210	<400	<210	<210	<210	<210	<210	<210	<400	<210
SAIA-SB/SG10	SAIA-SB/SG10-0.5	04/05/2013	N	0.5	1	**19 J**	<25	<25	<25	**480**	<25	<25	<190	--	<190	<190	<190	<190	<190	<360	<190	<190	<190	<190	**690**	<190	<360	<190
SAIA-SB/SG10	SAIA-SB/SG10-01	04/05/2013	FD	1	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG10	SAIA-SB/SG10-02	04/05/2013	N	2	2.5	**7.4**	<7	<7	<7	**210**	<7	<7	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	**1,500**	<180	<350	<180
SAIA-SB/SG10	SAIA-SB/SG10-05	04/05/2013	N	5	5.5	**4.7 J**	<6.9	<6.9	<6.9	**40**	<6.9	<6.9	<190	--	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	**2,800 J**	<190	<370	<190
SAIA-SB/SG10	SAIA-SB/SG10-15	04/05/2013	N	15	15.5	<14	<14	**4.3 J**	<14	**5.2 J**	<14	<14	<210	--	<210	<210	<210	<210	<210	<400	<210	<210	<210	<210	**1,700**	<210	<400	<210
SAIA-SB/SG10	SAIA-SB/SG10-25	04/05/2013	N	25	25.5	**4.6 J**	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<210	--	<210	<210	<210	<210	<210	<410	<210	<210	<210	<210	<210	<210	<410	<210
SAIA-SB/SG10	SAIA-SB/SG10-35	04/05/2013	N	35	35.5	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<210	--	<210	<210	<210	<210	<210	<410	<210	<210	<210	<210	<210	<210	<410	<210
SAIA-SB/SG11	SAIA-SB/SG11-0.5	04/03/2013	N	0.5	1	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Semivolatile (ug/kg)																			
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	3,3'-Dichlorobenzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl phenyl ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl Phenyl Ether	4-Methylphenol (p-Cresol)	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzaldehyde	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
SAIA-SB/SG08	SAIA-SB/SG08-0.5	04/03/2013	N	0.5	1	<190	<370	<370	<190	<190	<190	<190	<190	<370	<370	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG08	SAIA-SB/SG08-02	04/03/2013	FD	1	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG08	SAIA-SB/SG08-02	04/03/2013	FD	2	2.5	<190	<380	<380	<190	<190	<190	<190	<190	<380	<380	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG08	SAIA-SB/SG08-05	04/03/2013	N	5	5.5	<170	<340	<340	<170	<170	<170	<170	<170	<340	<340	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG08	SAIA-SB/SG08-06	04/03/2013	FD	6	6.5	<200	<390	<390	<200	<200	<200	<200	<200	<390	<390	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG08	SAIA-SB/SG08-15	04/03/2013	N	15	15.5	<200	<380	<380	<200	<200	<200	<200	<200	<380	<380	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG08	SAIA-SB/SG08-25	04/03/2013	N	25	25.5	<200	<380	<380	<200	<200	<200	<200	<200	<380	<380	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG08	SAIA-SB/SG08-35	04/03/2013	N	35	35.5	<210	<400	<400	<210	<210	<210	<210	<210	<400	<400	**240**	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG09	SAIA-SB/SG09-0.5	04/05/2013	N	0.5	1	<180	<360	<360	<180	<180	<180	<180	<180	<360	<360	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG09	SAIA-SB/SG10-01	04/05/2013	FD	1	1.5	<190	<370	<370	<190	<190	<190	<190	<190	<370	<370	<190	<190	<190	<190	<190	<190	<190	<190	<190	**110 J**
SAIA-SB/SG09	SAIA-SB/SG09-02	04/05/2013	N	2	2.5	<180	<360	<360	<180	<180	<180	<180	<180	<360	<360	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG09	SAIA-SB/SG09-05	04/05/2013	N	5	5.5	<190	<370	<370	<190	<190	<190	<190	<190	<370	<370	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG09	SAIA-SB/SG09-15	04/05/2013	N	15	15.5	<200	<390	<390	<200	<200	<200	<200	<200	<390	<390	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG09	SAIA-SB/SG09-25	04/05/2013	N	25	25.5	<220	<420	<420	<220	<220	<220	<220	<220	<420	<420	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220
SAIA-SB/SG09	SAIA-SB/SG09-35	04/05/2013	N	35	35.5	<210	<400	<400	<210	<210	<210	<210	<210	<400	<400	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG10	SAIA-SB/SG10-0.5	04/05/2013	N	0.5	1	<190	<360	<360	<190	<190	<190	<190	<190	<360	<360	<190	<190	<190	<190	<190	<190	<190	<190	<190	**93 J**
SAIA-SB/SG10	SAIA-SB/SG10-01	04/05/2013	FD	1	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG10	SAIA-SB/SG10-02	04/05/2013	N	2	2.5	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG10	SAIA-SB/SG10-05	04/05/2013	N	5	5.5	<190	<370	<370	<190	<190	<190	<190	<190	<370	<370	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG10	SAIA-SB/SG10-15	04/05/2013	N	15	15.5	<210	<400	<400	<210	<210	<210	<210	<210	<400	<400	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG10	SAIA-SB/SG10-25	04/05/2013	N	25	25.5	<210	<410	<410	<210	<210	<210	<210	<210	<410	<410	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG10	SAIA-SB/SG10-35	04/05/2013	N	35	35.5	<210	<410	<410	<210	<210	<210	<210	<210	<410	<410	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG11	SAIA-SB/SG11-0.5	04/03/2013	N	0.5	1	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Semivolatiles (in ug/kg)																					
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Benzo(k)fluoranthene	Benzyl butyl phthalate	Biphenyl (Diphenyl)	bis(2-Chloroethoxy) Methane	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	bis(2-Chloroisopropyl) Ether	bis(2-Ethylhexyl) Phthalate	Caprolactam	Carbazole	Chrysene	Di-n-Butyl Phthalate	Di-n-Octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Phthalate	Dimethyl Phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-c,d)pyrene
SAIA-SB/SG08	SAIA-SB/SG08-0.5	04/03/2013	N	0.5	1	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG08	SAIA-SB/SG08-02	04/03/2013	FD	1	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG08	SAIA-SB/SG08-02	04/03/2013	FD	2	2.5	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG08	SAIA-SB/SG08-05	04/03/2013	N	5	5.5	<170	<170	**150 J**	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG08	SAIA-SB/SG08-06	04/03/2013	FD	6	6.5	<200	<200	**150 J**	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG08	SAIA-SB/SG08-15	04/03/2013	N	15	15.5	<200	<200	**170 J**	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	**170 J**	<200	<200	<200	<200
SAIA-SB/SG08	SAIA-SB/SG08-25	04/03/2013	N	25	25.5	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG08	SAIA-SB/SG08-35	04/03/2013	N	35	35.5	<210	<210	**270**	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	**520**	<210	<210	<210	<210
SAIA-SB/SG09	SAIA-SB/SG09-0.5	04/05/2013	N	0.5	1	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	**860**	<180	<180	<180	<180
SAIA-SB/SG09	SAIA-SB/SG10-01	04/05/2013	FD	1	1.5	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG09	SAIA-SB/SG09-02	04/05/2013	N	2	2.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG09	SAIA-SB/SG09-05	04/05/2013	N	5	5.5	<190	<190	**170 J**	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG09	SAIA-SB/SG09-15	04/05/2013	N	15	15.5	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG09	SAIA-SB/SG09-25	04/05/2013	N	25	25.5	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220
SAIA-SB/SG09	SAIA-SB/SG09-35	04/05/2013	N	35	35.5	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG10	SAIA-SB/SG10-0.5	04/05/2013	N	0.5	1	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG10	SAIA-SB/SG10-01	04/05/2013	FD	1	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG10	SAIA-SB/SG10-02	04/05/2013	N	2	2.5	<180	<180	**240 J**	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	**160 J**	<180	<180	<180	<180
SAIA-SB/SG10	SAIA-SB/SG10-05	04/05/2013	N	5	5.5	<190	<190	**350 J**	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG10	SAIA-SB/SG10-15	04/05/2013	N	15	15.5	<210	<210	**100 J**	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	**120 J**	<210	<210	<210	<210
SAIA-SB/SG10	SAIA-SB/SG10-25	04/05/2013	N	25	25.5	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG10	SAIA-SB/SG10-35	04/05/2013	N	35	35.5	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG11	SAIA-SB/SG11-0.5	04/03/2013	N	0.5	1	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Semivolatiles (in ug/kg)									Metals by E200.7 (in mg/kg)										
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Isophorone	Naphthalene	Nitrobenzene	n-Nitrosodi-n-propylamine	n-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron
SAIA-SB/SG08	SAIA-SB/SG08-0.5	04/03/2013	N	0.5	1	<190	**190**	<190	<190	<190	<370	**2,900 J**	<190	<190	**13,700**	<6.44	**1.7**	**123**	<0.54	**0.11 J**	**6,550**	**19.1**	**9.8**	**56.6**	**24,000**
SAIA-SB/SG08	SAIA-SB/SG08-02	04/03/2013	FD	1	1.5	--	--	--	--	--	--	--	--	--	**9,180**	<5.80	**1.8**	**96.3**	<0.48	<0.48	**4,120**	**10.9**	**6.7**	**16.5**	**15,700**
SAIA-SB/SG08	SAIA-SB/SG08-02	04/03/2013	FD	2	2.5	<190	**180 J**	<190	<190	<190	<380	**500**	<190	<190	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG08	SAIA-SB/SG08-05	04/03/2013	N	5	5.5	<170	**680**	<170	<170	<170	<340	**490**	<170	<170	**16,900**	<4.96	**3.1**	**136**	<0.41	**0.085 J**	**9,440**	**21.9**	**10.4**	**23**	**24,800**
SAIA-SB/SG08	SAIA-SB/SG08-06	04/03/2013	FD	6	6.5	<200	**730**	<200	<200	<200	<390	**500**	<200	<200	**22,500**	<6.62	**4.8**	**185**	**0.58**	**0.14 J**	**13,100**	**29**	**13.9**	**35**	**32,900**
SAIA-SB/SG08	SAIA-SB/SG08-15	04/03/2013	N	15	15.5	<200	**340**	<200	<200	<200	<380	**340 J**	<200	<200	**22,200**	<6.32	**3.3**	**179**	**0.53**	<0.53	**9,040**	**28.7**	**14.6**	**27.3**	**33,300**
SAIA-SB/SG08	SAIA-SB/SG08-25	04/03/2013	N	25	25.5	<200	<200	<200	<200	<200	<380	<200	<200	<200	**18,900**	<6.01	**5.5**	**152**	<0.50	<0.50	**9,250**	**26.5**	**12.1**	**24.5**	**30,800**
SAIA-SB/SG08	SAIA-SB/SG08-35	04/03/2013	N	35	35.5	<210	**520**	<210	<210	<210	<400	**900**	<210	<210	**7,610**	<5.60	**11.9**	**74.2**	<0.47	<0.47	**5,100**	**8.3**	**5.3**	**8.5**	**14,100**
SAIA-SB/SG09	SAIA-SB/SG09-0.5	04/05/2013	N	0.5	1	<180	**810**	<180	<180	<180	<360	**1,300**	<180	<180	**12,600**	**0.56 J**	**2.7**	**117**	**0.29 J**	**0.31 J**	**7,760**	**20.1**	**9.1**	**351**	**22,100 J**
SAIA-SB/SG09	SAIA-SB/SG10-01	04/05/2013	FD	1	1.5	<190	**180 J**	<190	<190	<190	<370	<190	<190	<190	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG09	SAIA-SB/SG09-02	04/05/2013	N	2	2.5	<180	<180	<180	<180	<180	<360	<180	<180	<180	**11,700**	<5.41	**2.2**	**107**	**0.28 J**	**0.078 J**	**5,900**	**15.8**	**8.2**	**14.8**	**20,400 J**
SAIA-SB/SG09	SAIA-SB/SG09-05	04/05/2013	N	5	5.5	<190	**600**	<190	<190	<190	<370	**490**	<190	<190	**18,700**	<6.83	**3.3**	**154**	**0.48 J**	**0.14 J**	**14,000**	**23.9**	**11.7**	**27.6**	**27,600 J**
SAIA-SB/SG09	SAIA-SB/SG09-15	04/05/2013	N	15	15.5	<200	<200	<200	<200	<200	<390	<200	<200	<200	**23,500**	<6.96	**3.9**	**189**	**0.59**	**0.13 J**	**11,000**	**29.9**	**15.3**	**33.4**	**33,900 J**
SAIA-SB/SG09	SAIA-SB/SG09-25	04/05/2013	N	25	25.5	<220	<220	<220	<220	<220	<420	**120 J**	<220	<220	**14,300**	<6.81	**6.6**	**127**	**0.31 J**	**0.094 J**	**10,700**	**22.3**	**10.7**	**20.8**	**26,200 J**
SAIA-SB/SG09	SAIA-SB/SG09-35	04/05/2013	N	35	35.5	<210	<210	<210	<210	<210	<400	<210	<210	<210	**30,200**	<7.02	**15.5**	**199**	**0.93**	**0.091 J**	**13,500**	**33.5**	**17.7**	**51.5**	**38,700 J**
SAIA-SB/SG10	SAIA-SB/SG10-0.5	04/05/2013	N	0.5	1	<190	**190**	<190	<190	<190	<360	<190	<190	<190	**13,100**	<5.27	**1.7**	**110**	**0.28 J**	**0.095 J**	**7,060**	**17.5**	**9**	**15.8**	**21,900 J**
SAIA-SB/SG10	SAIA-SB/SG10-01	04/05/2013	FD	1	1.5	--	--	--	--	--	--	--	--	--	**12,400**	<5.81	**1.7**	**108**	**0.24 J**	**0.076 J**	**6,230**	**17.5**	**8.9**	**14.8**	**21,900 J**
SAIA-SB/SG10	SAIA-SB/SG10-02	04/05/2013	N	2	2.5	<180	**320**	<180	<180	<180	<350	**280**	<180	<180	**9,270**	<5.94	**1.6**	**87.3**	**0.22 J**	**0.072 J**	**4,350**	**10.7**	**6.6**	**10.7**	**15,400 J**
SAIA-SB/SG10	SAIA-SB/SG10-05	04/05/2013	N	5	5.5	<190	**710 J**	<190	<190	<190	<370	**670 J**	<190	<190	**13,900**	<5.33	**2.5**	**123**	**0.34 J**	**0.12 J**	**7,460**	**18.9**	**9.5**	**19.7**	**22,400 J**
SAIA-SB/SG10	SAIA-SB/SG10-15	04/05/2013	N	15	15.5	<210	**480**	<210	<210	<210	<400	**280**	<210	<210	**18,900**	<5.66	**3.1**	**158**	**0.46 J**	<0.47	**8,210**	**24.5**	**12.3**	**23.1**	**28,900 J**
SAIA-SB/SG10	SAIA-SB/SG10-25	04/05/2013	N	25	25.5	<210	<210	<210	<210	<210	<410	<210	<210	<210	**20,500**	<6.44	**12.5**	**192**	**0.51 J**	**0.038 J**	**11,900**	**26.9**	**13.5**	**26.4**	**29,200 J**
SAIA-SB/SG10	SAIA-SB/SG10-35	04/05/2013	N	35	35.5	<210	<210	<210	<210	<210	<410	<210	<210	<210	**19,500**	<7.16	**5**	**171**	**0.49 J**	**0.18 J**	**10,000**	**25.8**	**12.7**	**30.5 J**	**28,700 J**
SAIA-SB/SG11	SAIA-SB/SG11-0.5	04/03/2013	N	0.5	1	<180	<180	<180	<180	<180	<350	<180	<180	<180	**10,100**	**1.1 J**	**8.1**	**85.5**	<0.51	**0.78**	**3,760**	**57**	**6.4**	**288**	**47,100**

Appendix E-1
Analytical Results for Soil Samples
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						Metals by E200.7 (in mg/kg)			Metals by E200.7 (in mg/kg)								Metals by C245_5 (in mg/kg)	PCBs by SW8082 (in ug/kg)				
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Mercury	PCB-1016 (Arochlor 1016)	PCB-1221 (Arochlor 1221)	PCB-1232 (Arochlor 1232)	PCB-1242 (Arochlor 1242)	PCB-1248 (Arochlor 1248)
SAIA-SB/SG08	SAIA-SB/SG08-0.5	04/03/2013	N	0.5	1	**18.2**	**7,320**	**316**	**12.4**	**4,800**	<3.76	<1.07	<537	<2.68	**43**	**68**	**0.021 J**	<37	<37	<37	<37	**24,000**
SAIA-SB/SG08	SAIA-SB/SG08-02	04/03/2013	FD	1	1.5	**2.3**	**5,100**	**233**	**7.5**	**3,300**	<3.38	<0.97	<483	<2.42	**28.8**	**40.9**	**0.03 J**	--	--	--	--	--
SAIA-SB/SG08	SAIA-SB/SG08-02	04/03/2013	FD	2	2.5	--	--	--	--	--	--	--	--	--	--	--	--	<38	<38	<38	<38	**2,000**
SAIA-SB/SG08	SAIA-SB/SG08-05	04/03/2013	N	5	5.5	**5.1**	**7,510**	**387**	**14.5**	**4,000**	<2.89	<0.83	<413	<2.07	**45.7**	**57.8**	**0.034 J**	<34	<34	<34	<34	**330 J**
SAIA-SB/SG08	SAIA-SB/SG08-06	04/03/2013	FD	6	6.5	**6.9**	**10,000**	**513**	**20**	**5,140**	<3.86	<1.10	<552	<2.76	**60.3**	**78.2**	**0.077 J**	<39	<39	<39	<39	**340 J**
SAIA-SB/SG08	SAIA-SB/SG08-15	04/03/2013	N	15	15.5	**5.9**	**11,700**	**432**	**19.6**	**5,730**	<3.69	<1.05	**539**	<2.64	**63.3**	**85.9**	**0.033 J**	<38	<38	<38	<38	<38
SAIA-SB/SG08	SAIA-SB/SG08-25	04/03/2013	N	25	25.5	**4.7**	**8,720**	**447**	**16.1**	**3,880**	<3.51	<1.00	**520**	<2.50	**54.4**	**60.8**	**0.054 J**	<38	<38	<38	<38	<38
SAIA-SB/SG08	SAIA-SB/SG08-35	04/03/2013	N	35	35.5	**1.8**	**4,130**	**209**	**5.4**	**2,000**	<3.26	<0.93	<466	<2.33	**24.5**	**29.9**	**0.022 J**	<40	<40	<40	<40	<40
SAIA-SB/SG09	SAIA-SB/SG09-0.5	04/05/2013	N	0.5	1	**39.4 J**	**6,640**	**290**	**12.8**	**4,170**	<3.16	<0.90	<451	<2.254	**40**	**156**	**0.4 J**	<36	<36	<36	<36	<36
SAIA-SB/SG09	SAIA-SB/SG10-01	04/05/2013	FD	1	1.5	--	--	--	--	--	--	--	--	--	--	--	--	<37	<37	<37	<37	**360**
SAIA-SB/SG09	SAIA-SB/SG09-02	04/05/2013	N	2	2.5	**3.4 J**	**6,250**	**297**	**10.4**	**3,790**	<3.16	<0.90	<451	<2.26	**37.9**	**48.8**	**0.026 J**	<36	<36	<36	<36	<36
SAIA-SB/SG09	SAIA-SB/SG09-05	04/05/2013	N	5	5.5	**6.2 J**	**8,960**	**487**	**16.1**	**4,360**	<3.99	<1.14	<569	<2.85	**50.7**	**67.1**	**0.032 J**	<37	<37	<37	<37	<37
SAIA-SB/SG09	SAIA-SB/SG09-15	04/05/2013	N	15	15.5	**6.8 J**	**11,800**	**481**	**20.9**	**5,540**	<4.06	<1.16	<580	<2.90	**66**	**88.2**	**0.043 J**	<39	<39	<39	<39	<39
SAIA-SB/SG09	SAIA-SB/SG09-25	04/05/2013	N	25	25.5	**4.2 J**	**7,260**	**405**	**14.1**	**3,180**	<3.97	<1.13	<567	<2.84	**46.2**	**54**	**0.027 J**	<43	<43	<43	<43	<43
SAIA-SB/SG09	SAIA-SB/SG09-35	04/05/2013	N	35	35.5	**8.7 J**	**18,500**	**567**	**24.5**	**5,690**	<4.10	<1.17	**691**	<2.93	**71.6**	**96.4**	**0.12 J**	<40	<40	<40	<40	<40
SAIA-SB/SG10	SAIA-SB/SG10-0.5	04/05/2013	N	0.5	1	**19.5 J**	**6,640**	**289**	**11.3**	**4,230**	<3.07	<0.88	<439	<2.19	**41.3**	**55.8**	**0.016 J**	<36	<36	<36	<36	**400**
SAIA-SB/SG10	SAIA-SB/SG10-01	04/05/2013	FD	1	1.5	**11.4 J**	**6,510**	**289**	**11.2**	**4,170**	<3.39	<0.97	<485	<2.42	**40.4**	**53.9**	**0.044 J**	--	--	--	--	--
SAIA-SB/SG10	SAIA-SB/SG10-02	04/05/2013	N	2	2.5	**5.4 J**	**4,860**	**250**	**7.6**	**3,090**	<3.47	<0.99	<495	<2.48	**29.7**	**40.7**	**0.058 J**	<35	<35	<35	<35	**68**
SAIA-SB/SG10	SAIA-SB/SG10-05	04/05/2013	N	5	5.5	**6.9 J**	**6,830**	**326**	**12.4**	**3,710**	<3.11	<0.89	<445	<2.22	**41.7**	**54.7**	**0.023 J**	<37	<37	<37	<37	**310**
SAIA-SB/SG10	SAIA-SB/SG10-15	04/05/2013	N	15	15.5	**4.6 J**	**9,730**	**397**	**16.9**	**4,650**	<3.30	<0.94	<472	<2.36	**52.5**	**70.2**	**0.03 J**	<39	<39	<39	<39	<39
SAIA-SB/SG10	SAIA-SB/SG10-25	04/05/2013	N	25	25.5	**5.9 J**	**10,700**	**479**	**19.4**	**4,740**	<3.76	<1.07	<537	<2.68	**49.4**	**73.9**	**0.16 J**	<41	<41	<41	<41	<41
SAIA-SB/SG10	SAIA-SB/SG10-35	04/05/2013	N	35	35.5	**4.8 J**	**10,800**	**431 J**	**17.6**	**5,830**	<4.18	<1.19	<597	<2.98	**59.4**	**77**	**0.12 J**	<41	<41	<41	<41	<41
SAIA-SB/SG11	SAIA-SB/SG11-0.5	04/03/2013	N	0.5	1	**80**	**3,720**	**298**	**24.5**	**2,590**	<3.57	<1.02	<510	<2.55	**42.8**	**145**	**0.017 J**	<35	<35	<35	<35	**28 J**

Appendix E-1
Analytical Results for Soil Samples
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Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	PCBs by SW8082 (in ug/kg)			
						PCB-1254 (Arochlor 1254)	PCB-1260 (Arochlor 1260)	PCB-1262 (Arochlor 1262)	PCB-1268 (Arochlor 1268)
SAIA-SB/SG08	SAIA-SB/SG08-0.5	04/03/2013	N	0.5	1	<37	<37	<37	<37
SAIA-SB/SG08	SAIA-SB/SG08-02	04/03/2013	FD	1	1.5	--	--	--	--
SAIA-SB/SG08	SAIA-SB/SG08-02	04/03/2013	FD	2	2.5	<38	<38	<38	<38
SAIA-SB/SG08	SAIA-SB/SG08-05	04/03/2013	N	5	5.5	<34	<34	<34	<34
SAIA-SB/SG08	SAIA-SB/SG08-06	04/03/2013	FD	6	6.5	<39	<39	<39	<39
SAIA-SB/SG08	SAIA-SB/SG08-15	04/03/2013	N	15	15.5	<38	<38	<38	<38
SAIA-SB/SG08	SAIA-SB/SG08-25	04/03/2013	N	25	25.5	<38	<38	<38	<38
SAIA-SB/SG08	SAIA-SB/SG08-35	04/03/2013	N	35	35.5	<40	<40	<40	<40
SAIA-SB/SG09	SAIA-SB/SG09-0.5	04/05/2013	N	0.5	1	<36	<36	<36	<36
SAIA-SB/SG09	SAIA-SB/SG10-01	04/05/2013	FD	1	1.5	<37	<37	<37	<37
SAIA-SB/SG09	SAIA-SB/SG09-02	04/05/2013	N	2	2.5	<36	<36	<36	<36
SAIA-SB/SG09	SAIA-SB/SG09-05	04/05/2013	N	5	5.5	<37	<37	<37	<37
SAIA-SB/SG09	SAIA-SB/SG09-15	04/05/2013	N	15	15.5	<39	<39	<39	<39
SAIA-SB/SG09	SAIA-SB/SG09-25	04/05/2013	N	25	25.5	<43	<43	<43	<43
SAIA-SB/SG09	SAIA-SB/SG09-35	04/05/2013	N	35	35.5	<40	<40	<40	<40
SAIA-SB/SG10	SAIA-SB/SG10-0.5	04/05/2013	N	0.5	1	<36	<36	<36	<36
SAIA-SB/SG10	SAIA-SB/SG10-01	04/05/2013	FD	1	1.5	--	--	--	--
SAIA-SB/SG10	SAIA-SB/SG10-02	04/05/2013	N	2	2.5	<35	<35	<35	<35
SAIA-SB/SG10	SAIA-SB/SG10-05	04/05/2013	N	5	5.5	<37	<37	<37	<37
SAIA-SB/SG10	SAIA-SB/SG10-15	04/05/2013	N	15	15.5	<39	<39	<39	<39
SAIA-SB/SG10	SAIA-SB/SG10-25	04/05/2013	N	25	25.5	<41	<41	<41	<41
SAIA-SB/SG10	SAIA-SB/SG10-35	04/05/2013	N	35	35.5	<41	<41	<41	<41
SAIA-SB/SG11	SAIA-SB/SG11-0.5	04/03/2013	N	0.5	1	<35	<35	<35	<35

Appendix E-1
Analytical Results for Soil Samples
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Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (in ug/kg)																				
						1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane (p-Dioxane)	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene
SAIA-SB/SG11	SAIA-SB/SG11-02	04/03/2013	N	2	2.5	<5.6	**0.75 J**	**0.71 J**	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	**0.76 J**	**0.71 J**	<5.6	**0.69 J**	<5.6	<5.6	<5.6	<110	<11	<11	<11	<11	<5.6
SAIA-SB/SG11	SAIA-SB/SG11-05	04/03/2013	N	5	5.5	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<110	<11	<11	<11	<11	<5.3
SAIA-SB/SG11	SAIA-SB/SG11-15	04/03/2013	N	15	15.5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<110	<11	<11	<11	<11	<5.4
SAIA-SB/SG11	SAIA-SB/SG11-16	04/03/2013	FD	16	16.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG11	SAIA-SB/SG11-25	04/03/2013	N	25	25.5	<5.3	<5.3	**0.75 J**	<5.3	**0.69 J**	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<110	<11	<11	<11	<11	<5.3
SAIA-SB/SG11	SAIA-SB/SG11-35	04/03/2013	N	35	35.5	<5.1	<5.1	**0.8 J**	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<100	<10	<10	<10	<10	<5.1
SAIA-SB/SG19	SAIA-SB19-0.5	04/16/2014	N	0.5	0.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<110	<11	<11	<11	<11	<5.5
SAIA-SB/SG19	SAIA-SB19-0.6	04/16/2014	FD	0.5	0.5	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<120	<12	<12	<12	<12	<6.1
SAIA-SB/SG19	SAIA-SB19-2	04/16/2014	N	2	2	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<110	<11	<11	<11	<11	**0.62 J**
SAIA-SB/SG19	SAIA-SB19-5	04/16/2014	N	5	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<99	<9.9	<9.9	<9.9	<9.9	<5
SAIA-SB/SG19	SAIA-SB19-6	04/16/2014	FD	5	5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<110	<11	<11	<11	<11	<5.4
SAIA-SB/SG19	SAIA-SB19-15	04/16/2014	N	15	15	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<120	<12	<12	<12	<12	<5.8
SAIA-SB/SG19	SAIA-SB19-25	04/16/2014	N	25	25	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<130	<13	<13	<13	<13	<6.4
SAIA-SB/SG19	SAIA-SB19-35	04/16/2014	N	35	35	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<120	<12	<12	<12	<12	<6.2
SAIA-SB/SG20	SAIA-SB20-0.5	04/18/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-2	04/18/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-5	04/18/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-15	04/18/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-25	04/18/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-35	04/18/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG21	SAIA-SB21-0.5	04/18/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG21	SAIA-SB21-2	04/18/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG21	SAIA-SB21-3	04/18/2014	FD	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E-1
Analytical Results for Soil Samples
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Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (in ug/kg)																						
						Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene (Cumene)	m,p-Xylene	Methyl Acetate	Methylcyclohexane	Methylene Chloride	o-Xylene	Styrene	tert-Butyl Methyl Ether (MTBE)
SAIA-SB/SG11	SAIA-SB/SG11-02	04/03/2013	N	2	2.5	<5.6	<5.6	**0.68 J**	<5.6	**0.69 J**	**J**	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	**5.1 J**	**1 J**	<5.6	<5.6	<5.6	**0.76 J**
SAIA-SB/SG11	SAIA-SB/SG11-05	04/03/2013	N	5	5.5	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	**6.4 J**	**1.1 J**	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG11	SAIA-SB/SG11-15	04/03/2013	N	15	15.5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	**0.92 J**	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG11	SAIA-SB/SG11-16	04/03/2013	FD	16	16.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG11	SAIA-SB/SG11-25	04/03/2013	N	25	25.5	<5.3	**0.76 J**	<5.3	<5.3	**0.72 J**	**J**	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	**0.71 J**	**0.73 J**	<5.3	<5.3	<5.3	**0.75 J**
SAIA-SB/SG11	SAIA-SB/SG11-35	04/03/2013	N	35	35.5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG19	SAIA-SB19-0.5	04/16/2014	N	0.5	0.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG19	SAIA-SB19-0.6	04/16/2014	FD	0.5	0.5	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG19	SAIA-SB19-2	04/16/2014	N	2	2	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG19	SAIA-SB19-5	04/16/2014	N	5	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-SB/SG19	SAIA-SB19-6	04/16/2014	FD	5	5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG19	SAIA-SB19-15	04/16/2014	N	15	15	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8
SAIA-SB/SG19	SAIA-SB19-25	04/16/2014	N	25	25	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	**1.3 J**	<6.4	**1.5 J**	<6.4	<6.4
SAIA-SB/SG19	SAIA-SB19-35	04/16/2014	N	35	35	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG20	SAIA-SB20-0.5	04/18/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-2	04/18/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-5	04/18/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-15	04/18/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-25	04/18/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-35	04/18/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG21	SAIA-SB21-0.5	04/18/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG21	SAIA-SB21-2	04/18/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG21	SAIA-SB21-3	04/18/2014	FD	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Volatiles (ug/kg)							Semivolatiles (in ug/kg)															
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	1,2,4,5-Tetrachlorobenzene	1,4-Dioxane (p-Dioxane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol
SAIA-SB/SG11	SAIA-SB/SG11-02	04/03/2013	N	2	2.5	<5.6	<5.6	<5.6	<5.6	<5.6	**0.73 J**	**0.84 J**	<180	--	<180	<180	<180	<180	<180	<360	<180	<180	<180	<180	<180	<180	<360	<180
SAIA-SB/SG11	SAIA-SB/SG11-05	04/03/2013	N	5	5.5	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<190	--	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	<190	<190	<370	<190
SAIA-SB/SG11	SAIA-SB/SG11-15	04/03/2013	N	15	15.5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<210	--	<210	<210	<210	<210	<210	<420	<210	<210	<210	<210	<210	<210	<420	<210
SAIA-SB/SG11	SAIA-SB/SG11-16	04/03/2013	FD	16	16.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG11	SAIA-SB/SG11-25	04/03/2013	N	25	25.5	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<210	--	<210	<210	<210	<210	<210	<400	<210	<210	<210	<210	<210	<210	<400	<210
SAIA-SB/SG11	SAIA-SB/SG11-35	04/03/2013	N	35	35.5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	**0.97 J**	<190	--	<190	<190	<190	<190	<190	<360	<190	<190	<190	<190	<190	<190	<360	<190
SAIA-SB/SG19	SAIA-SB19-0.5	04/16/2014	N	0.5	0.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<170	--	<170	<170	<170	<170	<170	<340	<170	<170	<170	<170	<170	<170	<340	<170
SAIA-SB/SG19	SAIA-SB19-0.6	04/16/2014	FD	0.5	0.5	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<170	--	<170	<170	<170	<170	<170	<340	<170	<170	<170	<170	<170	<170	<340	<170
SAIA-SB/SG19	SAIA-SB19-2	04/16/2014	N	2	2	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<180	--	<180	<180	<180	<180	<180	<340	<180	<180	<180	<180	<180	<180	<340	<180
SAIA-SB/SG19	SAIA-SB19-5	04/16/2014	N	5	5	<5	<5	<5	<5	<5	<5	<5	<170	--	<170	<170	<170	<170	<170	<340	<170	<170	<170	<170	<170	<170	<340	<170
SAIA-SB/SG19	SAIA-SB19-6	04/16/2014	FD	5	5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<170	--	<170	<170	<170	<170	<170	<340	<170	<170	<170	<170	<170	<170	<340	<170
SAIA-SB/SG19	SAIA-SB19-15	04/16/2014	N	15	15	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<200	--	<200	<200	<200	<200	<200	<400	<200	<200	<200	<200	<200	<200	<400	<200
SAIA-SB/SG19	SAIA-SB19-25	04/16/2014	N	25	25	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<200	--	<200	<200	<200	<200	<200	<390	<200	<200	<200	<200	<200	<200	<390	<200
SAIA-SB/SG19	SAIA-SB19-35	04/16/2014	N	35	35	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<200	--	<200	<200	<200	<200	<200	<390	<200	<200	<200	<200	<200	<200	<390	<200
SAIA-SB/SG20	SAIA-SB20-0.5	04/18/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-2	04/18/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-5	04/18/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-15	04/18/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-25	04/18/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-35	04/18/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG21	SAIA-SB21-0.5	04/18/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG21	SAIA-SB21-2	04/18/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG21	SAIA-SB21-3	04/18/2014	FD	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Semivolatile (ug/kg)																			
						3,3'-Dichlorobenzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl phenyl ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl Phenyl Ether	4-Methylphenol (p-Cresol)	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzaldehyde	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
SAIA-SB/SG11	SAIA-SB/SG11-02	04/03/2013	N	2	2.5	<180	<360	<360	<180	<180	<180	<180	<180	<360	<360	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG11	SAIA-SB/SG11-05	04/03/2013	N	5	5.5	<190	<370	<370	<190	<190	<190	<190	<190	<370	<370	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG11	SAIA-SB/SG11-15	04/03/2013	N	15	15.5	<210	<420	<420	<210	<210	<210	<210	<210	<420	<420	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG11	SAIA-SB/SG11-16	04/03/2013	FD	16	16.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG11	SAIA-SB/SG11-25	04/03/2013	N	25	25.5	<210	<400	<400	<210	<210	<210	<210	<210	<400	<400	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG11	SAIA-SB/SG11-35	04/03/2013	N	35	35.5	<190	<360	<360	<190	<190	<190	<190	<190	<360	<360	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG19	SAIA-SB19-0.5	04/16/2014	N	0.5	0.5	<170	<340	<340	<170	<170	<170	<170	<170	<340	<340	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG19	SAIA-SB19-0.6	04/16/2014	FD	0.5	0.5	<170	<340	<340	<170	<170	<170	<170	<170	<340	<340	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG19	SAIA-SB19-2	04/16/2014	N	2	2	<180	<340	<340	<180	<180	<180	<180	<180	<340	<340	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG19	SAIA-SB19-5	04/16/2014	N	5	5	<170	<340	<340	<170	<170	<170	<170	<170	<340	<340	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG19	SAIA-SB19-6	04/16/2014	FD	5	5	<170	<340	<340	<170	<170	<170	<170	<170	<340	<340	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG19	SAIA-SB19-15	04/16/2014	N	15	15	<200	<400	<400	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG19	SAIA-SB19-25	04/16/2014	N	25	25	<200	<390	<390	<200	<200	<200	<200	<200	<390	<390	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG19	SAIA-SB19-35	04/16/2014	N	35	35	<200	<390	<390	<200	<200	<200	<200	<200	<390	<390	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG20	SAIA-SB20-0.5	04/18/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-2	04/18/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-5	04/18/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-15	04/18/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-25	04/18/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-35	04/18/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG21	SAIA-SB21-0.5	04/18/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG21	SAIA-SB21-2	04/18/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG21	SAIA-SB21-3	04/18/2014	FD	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Semivolatiles (in ug/kg)																					
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Benzo(k)fluoranthene	Benzyl butyl phthalate	Biphenyl (Diphenyl)	bis(2-Chloroethoxy) Methane	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	bis(2-Chloroisopropyl) Ether	bis(2-Ethylhexyl) Phthalate	Caprolactam	Carbazole	Chrysene	Di-n-Butyl Phthalate	Di-n-Octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Phthalate	Dimethyl Phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-c,d)pyrene
SAIA-SB/SG11	SAIA-SB/SG11-02	04/03/2013	N	2	2.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG11	SAIA-SB/SG11-05	04/03/2013	N	5	5.5	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG11	SAIA-SB/SG11-15	04/03/2013	N	15	15.5	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG11	SAIA-SB/SG11-16	04/03/2013	FD	16	16.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG11	SAIA-SB/SG11-25	04/03/2013	N	25	25.5	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG11	SAIA-SB/SG11-35	04/03/2013	N	35	35.5	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG19	SAIA-SB19-0.5	04/16/2014	N	0.5	0.5	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG19	SAIA-SB19-0.6	04/16/2014	FD	0.5	0.5	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	**84 J**	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG19	SAIA-SB19-2	04/16/2014	N	2	2	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	**100 J**	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG19	SAIA-SB19-5	04/16/2014	N	5	5	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	**99 J**	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG19	SAIA-SB19-6	04/16/2014	FD	5	5	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	**85 J**	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG19	SAIA-SB19-15	04/16/2014	N	15	15	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	**98 J**	<200	<200	<200	<200
SAIA-SB/SG19	SAIA-SB19-25	04/16/2014	N	25	25	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	**220**	<200	<200	<200	<200
SAIA-SB/SG19	SAIA-SB19-35	04/16/2014	N	35	35	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG20	SAIA-SB20-0.5	04/18/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-2	04/18/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-5	04/18/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-15	04/18/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-25	04/18/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-35	04/18/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG21	SAIA-SB21-0.5	04/18/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG21	SAIA-SB21-2	04/18/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG21	SAIA-SB21-3	04/18/2014	FD	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Semivolatiles (in ug/kg)									Metals by E200.7 (in mg/kg)										
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Isophorone	Naphthalene	Nitrobenzene	n-Nitrosodi-n-propylamine	n-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron
SAIA-SB/SG11	SAIA-SB/SG11-02	04/03/2013	N	2	2.5	<180	<180	<180	<180	<180	<360	<180	<180	<180	**12,200**	<5.72	**3.5**	**111**	<0.48	<0.48	**5,170**	**20.4**	**10.2**	**56.7**	**25,300**
SAIA-SB/SG11	SAIA-SB/SG11-05	04/03/2013	N	5	5.5	<190	<190	<190	<190	<190	<370	<190	<190	<190	**19,200**	<6.64	**2.9**	**182**	<0.55	<0.55	**8,590**	**25.5**	**14**	**20.9**	**30,300**
SAIA-SB/SG11	SAIA-SB/SG11-15	04/03/2013	N	15	15.5	<210	<210	<210	<210	<210	<420	<210	<210	<210	**26,900**	<7.18	**5**	**170**	**0.72**	<0.60	**11,400**	**32**	**15.8**	**30**	**36,800**
SAIA-SB/SG11	SAIA-SB/SG11-16	04/03/2013	FD	16	16.5	--	--	--	--	--	--	--	--	--	**19,100**	<6.76	**3.6**	**175**	<0.56	<0.56	**8,510**	**26.6**	**13.4**	**26.6**	**30,600**
SAIA-SB/SG11	SAIA-SB/SG11-25	04/03/2013	N	25	25.5	<210	<210	<210	<210	<210	<400	<210	<210	<210	**23,500**	<5.60	**3.6**	**229**	**0.5**	<0.47	**11,500**	**32.1**	**15.7**	**30.3**	**32,900**
SAIA-SB/SG11	SAIA-SB/SG11-35	04/03/2013	N	35	35.5	<190	<190	<190	<190	<190	<360	<190	<190	<190	**7,900**	<5.91	**8.4**	**71**	<0.49	<0.49	**4,170**	**10.6**	**5.8**	**6.7**	**16,400**
SAIA-SB/SG19	SAIA-SB19-0.5	04/16/2014	N	0.5	0.5	<170	<170	<170	<170	<170	<340	<170	<170	<170	**11,600**	<4.2	**3.3**	**108**	**0.47**	**0.71**	**8,200**	**20.3**	**9.9**	**4,350**	**21,700**
SAIA-SB/SG19	SAIA-SB19-0.6	04/16/2014	FD	0.5	0.5	<170	<170	<170	<170	<170	<340	<170	<170	<170	**10,900**	<4.5	**3.4**	**104**	**0.44**	**0.8**	**8,680**	**47.5**	**9.8**	**1,690**	**22,700**
SAIA-SB/SG19	SAIA-SB19-2	04/16/2014	N	2	2	<180	<180	<180	<180	<180	<340	<180	<180	<180	**13,900**	<4.8	**3.9**	**121**	**0.59**	**1**	**5,560**	**35.8**	**11**	**3,080**	**24,500**
SAIA-SB/SG19	SAIA-SB19-5	04/16/2014	N	5	5	<170	<170	<170	<170	<170	<340	<170	<170	<170	**9,800**	<4.2	**2.5**	**97.1**	**0.41**	<0.35	**5,060**	**19.9**	**7.8**	**192**	**18,200**
SAIA-SB/SG19	SAIA-SB19-6	04/16/2014	FD	5	5	<170	<170	<170	<170	<170	<340	<170	<170	<170	**10,100**	<4.6	**2.4**	**96.7**	**0.41**	<0.38	**4,890**	**12.5**	**7.8**	**140**	**17,200**
SAIA-SB/SG19	SAIA-SB19-15	04/16/2014	N	15	15	<200	<200	<200	<200	<200	<400	<200	<200	<200	**17,200**	<5.3	**4.7**	**156**	**0.71**	<0.44	**10,200**	**24.9**	**13.2**	**99.6**	**26,700**
SAIA-SB/SG19	SAIA-SB19-25	04/16/2014	N	25	25	<200	<200	<200	<200	<200	<390	<200	<200	<200	**18,500**	<4.9	**4.5**	**164**	**0.78**	<0.41	**10,100**	**23.3**	**14**	**23.8**	**27,100**
SAIA-SB/SG19	SAIA-SB19-35	04/16/2014	N	35	35	<200	<200	<200	<200	<200	<390	<200	<200	<200	**11,200**	<4.6	**3**	**94.5**	**0.47**	<0.39	**5,900**	**15.5**	**8.8**	**14.4**	**19,600**
SAIA-SB/SG20	SAIA-SB20-0.5	04/18/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	**10,500**	<5	**12.7**	**101**	**0.5**	**0.92**	**8,620**	**289**	**11.6**	**1,690**	**42,800**
SAIA-SB/SG20	SAIA-SB20-2	04/18/2014	N	2	2	--	--	--	--	--	--	--	--	--	**11,000**	<5	**3.5**	**105**	**0.37 J**	<0.41	**9,620**	**39.4**	**8.7**	**138**	**21,600**
SAIA-SB/SG20	SAIA-SB20-5	04/18/2014	N	5	5	--	--	--	--	--	--	--	--	--	**18,600**	<5.4	**5.5**	**160**	**0.68**	**0.56**	**15,700**	**28.2**	**13.8**	**30.4**	**28,300**
SAIA-SB/SG20	SAIA-SB20-15	04/18/2014	N	15	15	--	--	--	--	--	--	--	--	--	**20,000**	<4.8	**7.7**	**177**	**0.74**	**0.45**	**12,600**	**27.3**	**14.9**	**26**	**30,300**
SAIA-SB/SG20	SAIA-SB20-25	04/18/2014	N	25	25	--	--	--	--	--	--	--	--	--	**13,800**	<4.9	**9**	**138**	**0.51**	<0.41	**11,600**	**24.8**	**12.5**	**26.3**	**25,200**
SAIA-SB/SG20	SAIA-SB20-35	04/18/2014	N	35	35	--	--	--	--	--	--	--	--	--	**10,200**	<4.4	**27.1**	**96.3**	**0.38**	<0.37	**4,790**	**14.4**	**8.2**	**10**	**19,700**
SAIA-SB/SG21	SAIA-SB21-0.5	04/18/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	**12,200**	<4.8	**5.2**	**122**	**0.43**	**1.4**	**5,090**	**79.8**	**11.3**	**108**	**26,400**
SAIA-SB/SG21	SAIA-SB21-2	04/18/2014	N	2	2	--	--	--	--	--	--	--	--	--	**11,700**	<4.8	**5.3**	**115**	**0.44**	**2.4**	**4,900**	**357**	**12.6**	**176**	**29,200**
SAIA-SB/SG21	SAIA-SB21-3	04/18/2014	FD	2	2	--	--	--	--	--	--	--	--	--	**11,700**	<4.7	**5.2**	**114**	**0.41**	**2.3**	**4,910**	**210**	**11.4**	**246**	**28,400**

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Metals by E200.7 (in mg/kg)			Metals by E200.7 (in mg/kg)								Metals by C245_5 (in mg/kg)	PCBs by SW8082 (in ug/kg)				
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Mercury	PCB-1016 (Arochlor 1016)	PCB-1221 (Arochlor 1221)	PCB-1232 (Arochlor 1232)	PCB-1242 (Arochlor 1242)	PCB-1248 (Arochlor 1248)
SAIA-SB/SG11	SAIA-SB/SG11-02	04/03/2013	N	2	2.5	**13.1**	**6,100**	**360**	**20.2**	**3,950**	<3.33	<0.95	<476	<2.38	**39**	**92.6**	**0.015 J**	<35	<35	<35	<35	<35
SAIA-SB/SG11	SAIA-SB/SG11-05	04/03/2013	N	5	5.5	**5.7**	**10,700**	**499**	**18.1**	**6,350**	<3.87	<1.11	<553	<2.77	**55.5**	**84.1**	**0.031 J**	<37	<37	<37	<37	<37
SAIA-SB/SG11	SAIA-SB/SG11-15	04/03/2013	N	15	15.5	**6.8**	**12,500**	**526**	**22**	**5,610**	<4.19	<1.20	**896 J**	<2.99	**69.1**	**90.2**	**0.075 J**	<42	<42	<42	<42	<42
SAIA-SB/SG11	SAIA-SB/SG11-16	04/03/2013	FD	16	16.5	**6.6**	**10,400**	**480**	**19.8**	**6,180**	<3.94	<1.13	<563	<2.82	**55.4**	**85.4**	**0.03 J**	--	--	--	--	--
SAIA-SB/SG11	SAIA-SB/SG11-25	04/03/2013	N	25	25.5	**5.6**	**12,000**	**561**	**22.8**	**5,900**	<3.27	<0.93	**1,780 J**	<2.33	**60**	**85.2**	**0.12**	<40	<40	<40	<40	<40
SAIA-SB/SG11	SAIA-SB/SG11-35	04/03/2013	N	35	35.5	**2**	**4,390**	**206**	**6.3**	**2,230**	<3.45	<0.99	<493	<2.46	**30**	**33.3**	**0.033 J**	<36	<36	<36	<36	<36
SAIA-SB/SG19	SAIA-SB19-0.5	04/16/2014	N	0.5	0.5	**198**	**5,740**	**278**	**46.3**	**3,600**	**2.6**	<0.7	**332 J**	<1.8	**37.8**	**891**	**0.032 J**	<34	<34	<34	<34	<34
SAIA-SB/SG19	SAIA-SB19-0.6	04/16/2014	FD	0.5	0.5	**196**	**5,510**	**287**	**32.8**	**3,430**	**2.8**	<0.75	**326 J**	<1.9	**37.2**	**885**	**0.034 J**	<34	<34	<34	<34	<34
SAIA-SB/SG19	SAIA-SB19-2	04/16/2014	N	2	2	**337**	**5,800**	**293**	**36.1**	**3,860**	**2.8**	<0.8	**281 J**	<2	**42.4**	**1,250**	**0.031 J**	<35	<35	<35	<35	<35
SAIA-SB/SG19	SAIA-SB19-5	04/16/2014	N	5	5	**40.3**	**5,250**	**239**	**11**	**3,410**	**2.2 J**	<0.71	**244 J**	<1.8	**32**	**98.6**	**0.023 J**	<34	<34	<34	<34	<34
SAIA-SB/SG19	SAIA-SB19-6	04/16/2014	FD	5	5	**23.6 J**	**5,200**	**239**	**9.4**	**3,470**	**1.9 J**	<0.76	**307 J**	<1.9	**31.6**	**80.9**	**0.02 J**	<34	<34	<34	<34	<34
SAIA-SB/SG19	SAIA-SB19-15	04/16/2014	N	15	15	**21.2 J**	**8,600**	**425**	**20**	**4,180**	**2.8 J**	<0.88	**431 J**	<2.2	**52.6**	**94.6**	**0.057 J**	<39	<39	<39	<39	<39
SAIA-SB/SG19	SAIA-SB19-25	04/16/2014	N	25	25	**5.3 J**	**9,170**	**410**	**17.4**	**4,690**	**2.8 J**	<0.82	**477**	<2	**56**	**66.9**	**0.037 J**	<39	<39	<39	<39	<39
SAIA-SB/SG19	SAIA-SB19-35	04/16/2014	N	35	35	**3.3 J**	**5,470**	**273**	**10.5**	**3,330**	**2 J**	<0.77	**272 J**	<1.9	**38.5**	**43.1**	**0.021 J**	<39	<39	<39	<39	<39
SAIA-SB/SG20	SAIA-SB20-0.5	04/18/2014	N	0.5	0.5	**420**	**5,720**	**477**	**196**	**3,880**	**1.7 J**	<0.83	**481**	<2.1	**36.6**	**241**	**0.015 J**	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-2	04/18/2014	N	2	2	**24**	**6,130**	**326**	**19.7**	**4,170**	**0.93 J**	<0.83	**420**	<2.1	**36.2**	**67.9**	**0.015 J**	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-5	04/18/2014	N	5	5	**8**	**8,960**	**864**	**19.8**	**3,860**	**0.74 J**	<0.89	**494**	<2.2	**52.7**	**76**	**0.046 J**	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-15	04/18/2014	N	15	15	**6.4**	**10,700**	**555**	**19.5**	**4,830**	**1.1 J**	<0.8	**584**	<2	**57**	**78.6**	**0.21**	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-25	04/18/2014	N	25	25	**6.1**	**8,550**	**541**	**19.8**	**3,110**	**0.84 J**	<0.82	**348 J**	<2.1	**43.1**	**57.6**	**0.058 J**	--	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-35	04/18/2014	N	35	35	**3**	**6,120**	**328**	**9.4**	**3,070**	**0.33 J**	<0.74	**351 J**	<1.8	**34.8**	**44.8**	**0.025 J**	--	--	--	--	--
SAIA-SB/SG21	SAIA-SB21-0.5	04/18/2014	N	0.5	0.5	**31.5**	**6,640**	**535**	**100**	**4,410**	**1.6 J**	<0.8	**311 J**	<2	**39.6**	**138**	**0.031 J**	--	--	--	--	--
SAIA-SB/SG21	SAIA-SB21-2	04/18/2014	N	2	2	**20.9**	**6,610**	**432**	**223**	**4,230**	**4.3**	<0.8	**314 J**	<2	**36.9**	**142**	**0.024 J**	--	--	--	--	--
SAIA-SB/SG21	SAIA-SB21-3	04/18/2014	FD	2	2	**26.5**	**6,540**	**420**	**103**	**4,190**	**2.5 J**	<0.78	**304 J**	<1.9	**35.7**	**170**	**0.023 J**	--	--	--	--	--

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	PCBs by SW8082 (in ug/kg)			
						PCB-1254 (Arochlor 1254)	PCB-1260 (Arochlor 1260)	PCB-1262 (Arochlor 1262)	PCB-1268 (Arochlor 1268)
SAIA-SB/SG11	SAIA-SB/SG11-02	04/03/2013	N	2	2.5	<35	<35	<35	<35
SAIA-SB/SG11	SAIA-SB/SG11-05	04/03/2013	N	5	5.5	<37	<37	<37	<37
SAIA-SB/SG11	SAIA-SB/SG11-15	04/03/2013	N	15	15.5	<42	<42	<42	<42
SAIA-SB/SG11	SAIA-SB/SG11-16	04/03/2013	FD	16	16.5	--	--	--	--
SAIA-SB/SG11	SAIA-SB/SG11-25	04/03/2013	N	25	25.5	<40	<40	<40	<40
SAIA-SB/SG11	SAIA-SB/SG11-35	04/03/2013	N	35	35.5	<36	<36	<36	<36
SAIA-SB/SG19	SAIA-SB19-0.5	04/16/2014	N	0.5	0.5	**30 J**	**11 J**	<34	<34
SAIA-SB/SG19	SAIA-SB19-0.6	04/16/2014	FD	0.5	0.5	**26 J**	**11 J**	<34	<34
SAIA-SB/SG19	SAIA-SB19-2	04/16/2014	N	2	2	**13 J**	<35	<35	<35
SAIA-SB/SG19	SAIA-SB19-5	04/16/2014	N	5	5	<34	<34	<34	<34
SAIA-SB/SG19	SAIA-SB19-6	04/16/2014	FD	5	5	<34	<34	<34	<34
SAIA-SB/SG19	SAIA-SB19-15	04/16/2014	N	15	15	<39	<39	<39	<39
SAIA-SB/SG19	SAIA-SB19-25	04/16/2014	N	25	25	<39	<39	<39	<39
SAIA-SB/SG19	SAIA-SB19-35	04/16/2014	N	35	35	<39	<39	<39	<39
SAIA-SB/SG20	SAIA-SB20-0.5	04/18/2014	N	0.5	0.5	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-2	04/18/2014	N	2	2	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-5	04/18/2014	N	5	5	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-15	04/18/2014	N	15	15	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-25	04/18/2014	N	25	25	--	--	--	--
SAIA-SB/SG20	SAIA-SB20-35	04/18/2014	N	35	35	--	--	--	--
SAIA-SB/SG21	SAIA-SB21-0.5	04/18/2014	N	0.5	0.5	--	--	--	--
SAIA-SB/SG21	SAIA-SB21-2	04/18/2014	N	2	2	--	--	--	--
SAIA-SB/SG21	SAIA-SB21-3	04/18/2014	FD	2	2	--	--	--	--

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (in ug/kg)																				
						1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane (p-Dioxane)	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene
SAIA-SB/SG21	SAIA-SB21-5	04/18/2014	N	5	5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<110	<11	<11	<11	<11	<5.4
SAIA-SB/SG21	SAIA-SB21-15	04/18/2014	N	15	15	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<130	<13	<13	<13	<13	<6.3
SAIA-SB/SG21	SAIA-SB21-16	04/18/2014	FD	15	15	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<120	<12	<12	<12	<12	<5.8
SAIA-SB/SG21	SAIA-SB21-25	04/18/2014	N	25	25	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<130	<13	<13	<13	<13	<6.7
SAIA-SB/SG21	SAIA-SB21-35	04/18/2014	N	35	35	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<120	<12	<12	<12	<12	<6.1
SAIA-SB/SG22	SAIA-SB22-0.5	04/18/2014	N	0.5	0.5	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<110	<11	<11	<11	<11	<5.6
SAIA-SB/SG22	SAIA-SB22-2	04/18/2014	N	2	2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<120	<12	<12	<12	<12	<6.2
SAIA-SB/SG22	SAIA-SB22-5	04/18/2014	N	5	5	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<120	<12	<12	<12	<12	<6.2
SAIA-SB/SG22	SAIA-SB22-15	04/18/2014	N	15	15	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<110	<11	<11	<11	<11	<5.3
SAIA-SB/SG22	SAIA-SB22-25	04/18/2014	N	25	25	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<130	<13	<13	<13	<13	<6.3
SAIA-SB/SG22	SAIA-SB22-35	04/18/2014	N	35	35	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<120	<12	<12	<12	<12	<5.9
SAIA-SB/SG23	SAIA-SB23-0.5	04/14/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-2	04/14/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-5	04/14/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-15	04/14/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-25	04/14/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-35	04/14/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG24	SAIA-SB24-0.5	04/16/2014	N	0.5	0.5	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<100	<10	<10	<10	<10	<5.2
SAIA-SB/SG24	SAIA-SB24-2	04/16/2014	N	2	2	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<110	<11	<11	<11	<11	<5.6
SAIA-SB/SG24	SAIA-SB24-5	04/16/2014	N	5	5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<110	<11	<11	<11	<11	<5.4
SAIA-SB/SG24	SAIA-SB24-15	04/16/2014	N	15	15	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<120	<12	<12	<12	<12	<5.9
SAIA-SB/SG24	SAIA-SB24-25	04/16/2014	N	25	25	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<130	<13	<13	<13	<13	<6.3
SAIA-SB/SG24	SAIA-SB24-35	04/16/2014	N	35	35	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<110	<11	<11	<11	<11	<5.4

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (in ug/kg)																						
						Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene (Cumene)	m,p-Xylene	Methyl Acetate	Methylcyclohexane	Methylene Chloride	o-Xylene	Styrene	tert-Butyl Methyl Ether (MTBE)
SAIA-SB/SG21	SAIA-SB21-5	04/18/2014	N	5	5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG21	SAIA-SB21-15	04/18/2014	N	15	15	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	**1.9 J**	<6.3	<6.3	<6.3	<6.3	**1.2 J**	<6.3	**4 J**	<6.3	<6.3	<6.3	**1.5 J**	<6.3	<6.3
SAIA-SB/SG21	SAIA-SB21-16	04/18/2014	FD	15	15	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	**0.94 J**	<5.8	**3.3 J**	<5.8	<5.8	<5.8	**1.1 J**	<5.8	<5.8
SAIA-SB/SG21	SAIA-SB21-25	04/18/2014	N	25	25	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7
SAIA-SB/SG21	SAIA-SB21-35	04/18/2014	N	35	35	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG22	SAIA-SB22-0.5	04/18/2014	N	0.5	0.5	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG22	SAIA-SB22-2	04/18/2014	N	2	2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG22	SAIA-SB22-5	04/18/2014	N	5	5	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG22	SAIA-SB22-15	04/18/2014	N	15	15	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG22	SAIA-SB22-25	04/18/2014	N	25	25	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3
SAIA-SB/SG22	SAIA-SB22-35	04/18/2014	N	35	35	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG23	SAIA-SB23-0.5	04/14/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-2	04/14/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-5	04/14/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-15	04/14/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-25	04/14/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-35	04/14/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG24	SAIA-SB24-0.5	04/16/2014	N	0.5	0.5	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
SAIA-SB/SG24	SAIA-SB24-2	04/16/2014	N	2	2	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG24	SAIA-SB24-5	04/16/2014	N	5	5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG24	SAIA-SB24-15	04/16/2014	N	15	15	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG24	SAIA-SB24-25	04/16/2014	N	25	25	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3
SAIA-SB/SG24	SAIA-SB24-35	04/16/2014	N	35	35	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Volatiles (ug/kg)							Semivolatiles (in ug/kg)															
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	1,2,4,5-Tetrachlorobenzene	1,4-Dioxane (p-Dioxane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol
SAIA-SB/SG21	SAIA-SB21-5	04/18/2014	N	5	5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<190	--	<190	<190	<190	<190	<190	<380	<190	<190	<190	<190	<190	<190	<380	<190
SAIA-SB/SG21	SAIA-SB21-15	04/18/2014	N	15	15	**1.1 J**	<6.3	<6.3	<6.3	**2.1 J**	<6.3	<6.3	<200	--	<200	<200	<200	<200	<200	<380	<200	<200	<200	<200	**200**	<200	<380	<200
SAIA-SB/SG21	SAIA-SB21-16	04/18/2014	FD	15	15	**0.95 J**	<5.8	<5.8	<5.8	**1.2 J**	<5.8	<5.8	<190	--	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	**240**	<190	<370	<190
SAIA-SB/SG21	SAIA-SB21-25	04/18/2014	N	25	25	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<200	--	<200	<200	<200	<200	<200	<390	<200	<200	<200	<200	<200	<200	<390	<200
SAIA-SB/SG21	SAIA-SB21-35	04/18/2014	N	35	35	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<180	--	<180	<180	<180	<180	<180	<360	<180	<180	<180	<180	<180	<180	<360	<180
SAIA-SB/SG22	SAIA-SB22-0.5	04/18/2014	N	0.5	0.5	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<190	--	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	<190	<190	<370	<190
SAIA-SB/SG22	SAIA-SB22-2	04/18/2014	N	2	2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<190	--	<190	<190	<190	<190	<190	<360	<190	<190	<190	<190	<190	<190	<360	<190
SAIA-SB/SG22	SAIA-SB22-5	04/18/2014	N	5	5	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<200	--	<200	<200	<200	<200	<200	<390	<200	<200	<200	<200	<200	<200	<390	<200
SAIA-SB/SG22	SAIA-SB22-15	04/18/2014	N	15	15	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<190	--	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	<190	<190	<370	<190
SAIA-SB/SG22	SAIA-SB22-25	04/18/2014	N	25	25	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<220	--	<220	<220	<220	<220	<220	<420	<220	<220	<220	<220	<220	<220	<420	<220
SAIA-SB/SG22	SAIA-SB22-35	04/18/2014	N	35	35	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<180	--	<180	<180	<180	<180	<180	<360	<180	<180	<180	<180	<180	<180	<360	<180
SAIA-SB/SG23	SAIA-SB23-0.5	04/14/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-2	04/14/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-5	04/14/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-15	04/14/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-25	04/14/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-35	04/14/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG24	SAIA-SB24-0.5	04/16/2014	N	0.5	0.5	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG24	SAIA-SB24-2	04/16/2014	N	2	2	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG24	SAIA-SB24-5	04/16/2014	N	5	5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<200	--	<200	<200	<200	<200	<200	<380	<200	<200	<200	<200	<200	<200	<380	<200
SAIA-SB/SG24	SAIA-SB24-15	04/16/2014	N	15	15	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<210	--	<210	<210	<210	<210	<210	<420	<210	<210	<210	<210	<210	<210	<420	<210
SAIA-SB/SG24	SAIA-SB24-25	04/16/2014	N	25	25	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<200	--	<200	<200	<200	<200	<200	<390	<200	<200	<200	<200	<200	<200	<390	<200
SAIA-SB/SG24	SAIA-SB24-35	04/16/2014	N	35	35	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<200	--	<200	<200	<200	<200	<200	<380	<200	<200	<200	<200	<200	<200	<380	<200

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Semivolatile (ug/kg)																			
						3,3'-Dichlorobenzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl phenyl ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl Phenyl Ether	4-Methylphenol (p-Cresol)	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzaldehyde	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
SAIA-SB/SG21	SAIA-SB21-5	04/18/2014	N	5	5	<190	<380	<380	<190	<190	<190	<190	<190	<380	<380	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG21	SAIA-SB21-15	04/18/2014	N	15	15	<200	<380	<380	<200	<200	<200	<200	<200	<380	<380	**81 J**	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG21	SAIA-SB21-16	04/18/2014	FD	15	15	<190	<370	<370	<190	<190	<190	<190	<190	<370	<370	**92 J**	<190	<190	**92 J**	<190	<190	<190	<190	<190	<190
SAIA-SB/SG21	SAIA-SB21-25	04/18/2014	N	25	25	<200	<390	<390	<200	<200	<200	<200	<200	<390	<390	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG21	SAIA-SB21-35	04/18/2014	N	35	35	<180	<360	<360	<180	<180	<180	<180	<180	<360	<360	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG22	SAIA-SB22-0.5	04/18/2014	N	0.5	0.5	<190	<370	<370	<190	<190	<190	<190	<190	<370	<370	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG22	SAIA-SB22-2	04/18/2014	N	2	2	<190	<360	<360	<190	<190	<190	<190	<190	<360	<360	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG22	SAIA-SB22-5	04/18/2014	N	5	5	<200	<390	<390	<200	<200	<200	<200	<200	<390	<390	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG22	SAIA-SB22-15	04/18/2014	N	15	15	<190	<370	<370	<190	<190	<190	<190	<190	<370	<370	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG22	SAIA-SB22-25	04/18/2014	N	25	25	<220	<420	<420	<220	<220	<220	<220	<220	<420	<420	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220
SAIA-SB/SG22	SAIA-SB22-35	04/18/2014	N	35	35	<180	<360	<360	<180	<180	<180	<180	<180	<360	<360	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG23	SAIA-SB23-0.5	04/14/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-2	04/14/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-5	04/14/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-15	04/14/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-25	04/14/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-35	04/14/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG24	SAIA-SB24-0.5	04/16/2014	N	0.5	0.5	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	**55 J**	**74 J**	**44 J**	**79 J**
SAIA-SB/SG24	SAIA-SB24-2	04/16/2014	N	2	2	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	**87 J**	<180	**99 J**
SAIA-SB/SG24	SAIA-SB24-5	04/16/2014	N	5	5	<200	<380	<380	<200	<200	<200	<200	<200	<380	<380	<200	<200	<200	<200	<200	<200	<200	**24 J**	**19 J**	**42 J**
SAIA-SB/SG24	SAIA-SB24-15	04/16/2014	N	15	15	<210	<420	<420	<210	<210	<210	<210	<210	<420	<420	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG24	SAIA-SB24-25	04/16/2014	N	25	25	<200	<390	<390	<200	<200	<200	<200	<200	<390	<390	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG24	SAIA-SB24-35	04/16/2014	N	35	35	<200	<380	<380	<200	<200	<200	<200	<200	<380	<380	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Semivolatiles (in ug/kg)																				
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Benzo(k)fluoranthene	Benzyl butyl phthalate	Biphenyl (Diphenyl)	bis(2-Chloroethoxy) Methane	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	bis(2-Chloroisopropyl) Ether	bis(2-Ethylhexyl) Phthalate	Caprolactam	Carbazole	Chrysene	Di-n-Butyl Phthalate	Di-n-Octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Phthalate	Dimethyl Phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-c,d)pyrene
SAIA-SB/SG21	SAIA-SB21-5	04/18/2014	N	5	5	<190	<190	<190	<190	<190	<190	**370**	<190	<190	<190	<190	<190	<190	<190	**93 J**	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG21	SAIA-SB21-15	04/18/2014	N	15	15	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	**150 J**	<200	<200	<200	<200	<200
SAIA-SB/SG21	SAIA-SB21-16	04/18/2014	FD	15	15	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	**190**	<190	<190	<190	<190	<190
SAIA-SB/SG21	SAIA-SB21-25	04/18/2014	N	25	25	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG21	SAIA-SB21-35	04/18/2014	N	35	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG22	SAIA-SB22-0.5	04/18/2014	N	0.5	0.5	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG22	SAIA-SB22-2	04/18/2014	N	2	2	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG22	SAIA-SB22-5	04/18/2014	N	5	5	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG22	SAIA-SB22-15	04/18/2014	N	15	15	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	**91 J**	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG22	SAIA-SB22-25	04/18/2014	N	25	25	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220
SAIA-SB/SG22	SAIA-SB22-35	04/18/2014	N	35	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG23	SAIA-SB23-0.5	04/14/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-2	04/14/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-5	04/14/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-15	04/14/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-25	04/14/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-35	04/14/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG24	SAIA-SB24-0.5	04/16/2014	N	0.5	0.5	**68 J**	<180	<180	<180	<180	<180	<180	<180	<180	**74 J**	<180	<180	<180	<180	**32 J**	<180	**100 J**	<180	<180	<180	<180	<180	**59 J**
SAIA-SB/SG24	SAIA-SB24-2	04/16/2014	N	2	2	<180	<180	<180	<180	<180	<180	<180	<180	<180	**86 J**	<180	<180	<180	<180	<180	<180	**120 J**	<180	<180	<180	<180	<180	<180
SAIA-SB/SG24	SAIA-SB24-5	04/16/2014	N	5	5	**20 J**	<200	<200	<200	<200	<200	**22 J**	<200	<200	<200	**38 J**	<200	<200	<200	**24 J**	<200	<200	<200	<200	<200	<200	<200	**34 J**
SAIA-SB/SG24	SAIA-SB24-15	04/16/2014	N	15	15	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG24	SAIA-SB24-25	04/16/2014	N	25	25	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG24	SAIA-SB24-35	04/16/2014	N	35	35	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Semivolatiles (in ug/kg)									Metals by E200.7 (in mg/kg)										
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Isophorone	Naphthalene	Nitrobenzene	n-Nitrosodi-n-propylamine	n-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron
SAIA-SB/SG21	SAIA-SB21-5	04/18/2014	N	5	5	<190	<190	<190	<190	<190	<380	<190	<190	<190	**13,500**	**0.59 J**	**3**	**118**	**0.51**	**0.38 J**	**8,360**	**30.2**	**9.2**	**40.9**	**22,300**
SAIA-SB/SG21	SAIA-SB21-15	04/18/2014	N	15	15	<200	**110 J**	<200	<200	<200	<380	**510**	<200	<200	**14,900**	**0.82 J**	**4.2**	**142**	**0.57**	**0.59**	**9,990**	**40.5**	**11.2**	**53.8**	**31,300**
SAIA-SB/SG21	SAIA-SB21-16	04/18/2014	FD	15	15	<190	**140 J**	<190	<190	<190	<370	**650**	<190	<190	**14,500**	**0.76 J**	**3.9**	**137**	**0.6**	**0.87**	**9,420**	**79.4**	**10.8**	**74.4**	**29,600**
SAIA-SB/SG21	SAIA-SB21-25	04/18/2014	N	25	25	<200	<200	<200	<200	<200	<390	<200	<200	<200	**16,900**	**1.2 J**	**11.9**	**202**	**0.66**	**0.14 J**	**21,200**	**28.2**	**13.7**	**32.6**	**30,200**
SAIA-SB/SG21	SAIA-SB21-35	04/18/2014	N	35	35	<180	<180	<180	<180	<180	<360	<180	<180	<180	**9,200**	**0.48 J**	**20.6**	**95.8**	**0.39 J**	**0.02 J**	**4,640**	**11.9**	**6.9**	**11.5**	**18,200**
SAIA-SB/SG22	SAIA-SB22-0.5	04/18/2014	N	0.5	0.5	<190	<190	<190	<190	<190	<370	<190	<190	<190	**13,400**	**0.55 J**	**2**	**131**	**0.47**	**0.18 J**	**7,060**	**19.1**	**9.6**	**76.2**	**22,500**
SAIA-SB/SG22	SAIA-SB22-2	04/18/2014	N	2	2	<190	<190	<190	<190	<190	<360	<190	<190	<190	**14,200**	**0.71 J**	**2.1**	**144**	**0.49**	**0.18 J**	**6,940 J**	**19.2 J**	**10.3**	**28.1**	**24,500 J**
SAIA-SB/SG22	SAIA-SB22-5	04/18/2014	N	5	5	<200	<200	<200	<200	<200	<390	<200	<200	<200	**14,900**	**0.69 J**	**3.5**	**142**	**0.55**	**0.22 J**	**10,500**	**19.3**	**9.7**	**24.7**	**23,700**
SAIA-SB/SG22	SAIA-SB22-15	04/18/2014	N	15	15	<190	<190	<190	<190	<190	<370	<190	<190	<190	**13,100**	**0.55 J**	**3.6**	**122**	**0.49**	**0.19 J**	**9,740**	**19.2**	**9.1**	**60.9**	**22,600**
SAIA-SB/SG22	SAIA-SB22-25	04/18/2014	N	25	25	<220	<220	<220	<220	<220	<420	<220	<220	<220	**23,500**	**0.8 J**	**5.1**	**203**	**0.89**	**0.34 J**	**10,700**	**27.7**	**14.9**	**35.9**	**31,900**
SAIA-SB/SG22	SAIA-SB22-35	04/18/2014	N	35	35	<180	<180	<180	<180	<180	<360	<180	<180	<180	**8,810**	**0.43 J**	**19.2**	**88.8**	**0.33 J**	**0.04 J**	**4,750**	**11.3**	**6.3**	**10.2**	**17,200**
SAIA-SB/SG23	SAIA-SB23-0.5	04/14/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	**14,600**	**0.42 J**	**3.9**	**147**	**0.57**	<0.41	**6,860**	**19.1**	**11.9**	**20.1**	**26,100**
SAIA-SB/SG23	SAIA-SB23-2	04/14/2014	N	2	2	--	--	--	--	--	--	--	--	--	**14,300**	**0.49 J**	**3.6**	**132**	**0.56**	<0.41	**8,210**	**17.9**	**11.1**	**18.8**	**25,000**
SAIA-SB/SG23	SAIA-SB23-5	04/14/2014	N	5	5	--	--	--	--	--	--	--	--	--	**12,800**	**0.34 J**	**3.6**	**113**	**0.54**	<0.42	**9,220**	**16.6**	**10.1**	**17.9**	**22,300**
SAIA-SB/SG23	SAIA-SB23-15	04/14/2014	N	15	15	--	--	--	--	--	--	--	--	--	**26,100**	**0.66 J**	**5.4**	**213**	**1.1**	<0.48	**24,400**	**28.9**	**18.4**	**38.2**	**36,100**
SAIA-SB/SG23	SAIA-SB23-25	04/14/2014	N	25	25	--	--	--	--	--	--	--	--	--	**19,700**	**0.34 J**	**5.9**	**178**	**0.75**	<0.44	**8,110**	**24.6**	**15.1**	**29.3**	**29,100**
SAIA-SB/SG23	SAIA-SB23-35	04/14/2014	N	35	35	--	--	--	--	--	--	--	--	--	**7,760**	**0.2 J**	**9.1**	**75.7**	**0.36 J**	<0.39	**5,600**	**9.3**	**6.1**	**9.6**	**15,600**
SAIA-SB/SG24	SAIA-SB24-0.5	04/16/2014	N	0.5	0.5	<180	<180	<180	<180	<180	<350	**36 J**	<180	**120 J**	**12,200**	**27.8 J**	**5.2**	**337**	**0.49**	**1.3**	**7,890**	**26.9**	**12.4**	**692**	**25,300**
SAIA-SB/SG24	SAIA-SB24-2	04/16/2014	N	2	2	<180	<180	<180	<180	<180	<350	<180	<180	**150 J**	**12,500**	**10 J**	**3.7**	**125**	**0.49**	<0.4	**9,390**	**17.4**	**9.6**	**26.3**	**22,200**
SAIA-SB/SG24	SAIA-SB24-5	04/16/2014	N	5	5	<200	<200	<200	<200	<200	<380	<200	<200	<200	**21,500**	<5.3	**4.7**	**176**	**0.84**	<0.45	**10,400**	**26.8**	**14.5**	**32**	**29,400**
SAIA-SB/SG24	SAIA-SB24-15	04/16/2014	N	15	15	<210	<210	<210	<210	<210	<420	<210	<210	<210	**20,700**	<5.5	**5**	**184**	**0.87**	<0.45	**11,900**	**25.3**	**14.7**	**26**	**29,500**
SAIA-SB/SG24	SAIA-SB24-25	04/16/2014	N	25	25	<200	<200	<200	<200	<200	<390	<200	<200	<200	**17,500**	<5.3	**7**	**168**	**0.66**	<0.44	**12,100**	**25.6**	**13.2**	**34.1**	**27,500**
SAIA-SB/SG24	SAIA-SB24-35	04/16/2014	N	35	35	<200	<200	<200	<200	<200	<380	<200	<200	<200	**12,300**	<5.4	**21.4**	**105**	<0.45	<0.45	**18,300**	**18.1**	**9.8**	**14.9**	**22,400**

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Metals by E200.7 (in mg/kg)			Metals by E200.7 (in mg/kg)								Metals by C245_5 (in mg/kg)	PCBs by SW8082 (in ug/kg)				
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Mercury	PCB-1016 (Arochlor 1016)	PCB-1221 (Arochlor 1221)	PCB-1232 (Arochlor 1232)	PCB-1242 (Arochlor 1242)	PCB-1248 (Arochlor 1248)
SAIA-SB/SG21	SAIA-SB21-5	04/18/2014	N	5	5	**5**	**6,430**	**395**	**43.6**	**3,500**	**3.2**	<0.83	**321 J**	<2.1	**40.8**	**54.3**	<0.11	<38	<38	<38	<38	<38
SAIA-SB/SG21	SAIA-SB21-15	04/18/2014	N	15	15	**7.7**	**7,840**	**461**	**30.3**	**4,390**	**4.8**	<0.82	**427**	<2	**44.9**	**74.8**	<0.1	<38	<38	<38	<38	**7,200**
SAIA-SB/SG21	SAIA-SB21-16	04/18/2014	FD	15	15	**9.7**	**7,760**	**434**	**43.6**	**4,390**	**5.2**	<0.86	**412 J**	<2.2	**47.9**	**88.3**	<0.098	<37	<37	<37	<37	**9,000 J**
SAIA-SB/SG21	SAIA-SB21-25	04/18/2014	N	25	25	**6.4**	**10,600**	**624**	**24.3**	**4,400**	**4.4**	<0.84	**383 J**	<2.1	**50.9**	**65.4**	<0.1	<39	<39	<39	<39	<39
SAIA-SB/SG21	SAIA-SB21-35	04/18/2014	N	35	35	**2.2**	**5,520**	**275**	**8**	**2,850**	**2.8 J**	<0.82	**292 J**	<2.1	**39.8**	**37.1**	<0.1	<36	<36	<36	<36	<36
SAIA-SB/SG22	SAIA-SB22-0.5	04/18/2014	N	0.5	0.5	**12**	**7,420**	**330**	**13.3**	**5,190**	**3.4**	<0.82	**305 J**	<2.1	**43.9**	**65.1**	<0.1	<37	<37	<37	<37	<37
SAIA-SB/SG22	SAIA-SB22-2	04/18/2014	N	2	2	**6.2**	**7,960**	**349 J**	**14**	**5,550 J**	**3.7**	<0.83	**316 J**	<2.1	**45.8 J**	**63.4**	<0.11	<36	<36	<36	<36	<36
SAIA-SB/SG22	SAIA-SB22-5	04/18/2014	N	5	5	**5**	**7,430**	**467**	**14.2**	**4,130**	**3.5**	<0.86	**326 J**	<2.1	**43.9**	**53.8**	<0.11	<39	<39	<39	<39	<39
SAIA-SB/SG22	SAIA-SB22-15	04/18/2014	N	15	15	**7.7**	**7,290**	**410**	**12.9**	**4,100**	**3.3**	<0.77	**405**	<1.9	**42.7**	**60.7**	**0.32**	<37	<37	<37	<37	<37
SAIA-SB/SG22	SAIA-SB22-25	04/18/2014	N	25	25	**7.1**	**11,400**	**459**	**21.9**	**5,160**	**4.4**	<0.99	**648**	<2.5	**64.4**	**73.8**	<0.12	<42	<42	<42	<42	<42
SAIA-SB/SG22	SAIA-SB22-35	04/18/2014	N	35	35	**2.1**	**5,300**	**253**	**7.5**	**2,750**	**2.4 J**	<0.79	**308 J**	<2	**31.7**	**35.5**	<0.093	<36	<36	<36	<36	<36
SAIA-SB/SG23	SAIA-SB23-0.5	04/14/2014	N	0.5	0.5	**6.2**	**8,410**	**384**	**15.3**	**5,640**	**2.9**	<0.82	**475**	<2.1	**46.1**	**67.7**	<0.11	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-2	04/14/2014	N	2	2	**4.6**	**7,400**	**356**	**13.9**	**4,310**	**2.5 J**	<0.82	**415**	<2	**45.7**	**57.1**	<0.1	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-5	04/14/2014	N	5	5	**3.9**	**6,900**	**382**	**13.1**	**4,020**	**2.1 J**	<0.84	**382 J**	<2.1	**40.4**	**52.3**	<0.11	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-15	04/14/2014	N	15	15	**9**	**13,100**	**676**	**25.4**	**5,910**	**3.6**	<0.95	**665**	<2.4	**68.2**	**89.5**	<0.12	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-25	04/14/2014	N	25	25	**5.1**	**10,900**	**482**	**20.4**	**5,260**	**2.9 J**	<0.89	**478**	<2.2	**53.8**	**75.5**	<0.11	--	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-35	04/14/2014	N	35	35	**2.2**	**4,690**	**235**	**6.9**	**2,380**	**1.6 J**	<0.78	**260 J**	<1.9	**27.6**	**34**	<0.11	--	--	--	--	--
SAIA-SB/SG24	SAIA-SB24-0.5	04/16/2014	N	0.5	0.5	**792 J**	**6,020**	**362**	**19.4**	**3,840**	**2.7**	<0.78	**371 J**	<2	**42.3**	**440**	**0.035 J**	<35	<35	<35	<35	<35
SAIA-SB/SG24	SAIA-SB24-2	04/16/2014	N	2	2	**227 J**	**6,460**	**334**	**12.1**	**4,040**	**2.4 J**	<0.81	**371 J**	<2	**43**	**63.9**	**0.015 J**	<36	<36	<36	<36	<36
SAIA-SB/SG24	SAIA-SB24-5	04/16/2014	N	5	5	**25.9 J**	**8,830**	**452**	**20.3**	**5,300**	**2.7 J**	<0.89	**424 J**	<2.2	**58**	**76.5**	**0.093 J**	<38	<38	<38	<38	<38
SAIA-SB/SG24	SAIA-SB24-15	04/16/2014	N	15	15	**5.8 J**	**10,000**	**451**	**18.5**	**4,900**	**3.1 J**	<0.91	**472**	<2.3	**59.9**	**72.9**	**0.062 J**	<41	<41	<41	<41	<41
SAIA-SB/SG24	SAIA-SB24-25	04/16/2014	N	25	25	**48.6 J**	**8,680**	**475**	**18.4**	**4,200**	**2.6 J**	<0.88	**442**	<2.2	**54**	**68.9**	**0.072 J**	<39	<39	<39	<39	<39
SAIA-SB/SG24	SAIA-SB24-35	04/16/2014	N	35	35	**3.4 J**	**6,810**	**385**	**12**	**3,670**	**2.4 J**	<0.89	**478**	<2.2	**46.8**	**47.8**	**0.18**	<38	<38	<38	<38	<38

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	PCBs by SW8082 (in ug/kg)			
						PCB-1254 (Arochlor 1254)	PCB-1260 (Arochlor 1260)	PCB-1262 (Arochlor 1262)	PCB-1268 (Arochlor 1268)
SAIA-SB/SG21	SAIA-SB21-5	04/18/2014	N	5	5	**170**	**150**	<38	<38
SAIA-SB/SG21	SAIA-SB21-15	04/18/2014	N	15	15	<38	<38	<38	<38
SAIA-SB/SG21	SAIA-SB21-16	04/18/2014	FD	15	15	<37	**2,400 J**	<37	<37
SAIA-SB/SG21	SAIA-SB21-25	04/18/2014	N	25	25	<39	<39	<39	<39
SAIA-SB/SG21	SAIA-SB21-35	04/18/2014	N	35	35	<36	<36	<36	<36
SAIA-SB/SG22	SAIA-SB22-0.5	04/18/2014	N	0.5	0.5	**260**	<37	<37	<37
SAIA-SB/SG22	SAIA-SB22-2	04/18/2014	N	2	2	**130**	<36	<36	<36
SAIA-SB/SG22	SAIA-SB22-5	04/18/2014	N	5	5	**140 J**	<39	<39	<39
SAIA-SB/SG22	SAIA-SB22-15	04/18/2014	N	15	15	**45**	<37	<37	<37
SAIA-SB/SG22	SAIA-SB22-25	04/18/2014	N	25	25	<42	<42	<42	<42
SAIA-SB/SG22	SAIA-SB22-35	04/18/2014	N	35	35	<36	<36	<36	<36
SAIA-SB/SG23	SAIA-SB23-0.5	04/14/2014	N	0.5	0.5	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-2	04/14/2014	N	2	2	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-5	04/14/2014	N	5	5	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-15	04/14/2014	N	15	15	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-25	04/14/2014	N	25	25	--	--	--	--
SAIA-SB/SG23	SAIA-SB23-35	04/14/2014	N	35	35	--	--	--	--
SAIA-SB/SG24	SAIA-SB24-0.5	04/16/2014	N	0.5	0.5	<35	<35	<35	<35
SAIA-SB/SG24	SAIA-SB24-2	04/16/2014	N	2	2	<36	<36	<36	<36
SAIA-SB/SG24	SAIA-SB24-5	04/16/2014	N	5	5	<38	<38	<38	<38
SAIA-SB/SG24	SAIA-SB24-15	04/16/2014	N	15	15	<41	<41	<41	<41
SAIA-SB/SG24	SAIA-SB24-25	04/16/2014	N	25	25	<39	<39	<39	<39
SAIA-SB/SG24	SAIA-SB24-35	04/16/2014	N	35	35	<38	<38	<38	<38

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (in ug/kg)																					
						1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane (p-Dioxane)	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene
SAIA-SB/SG25	SAIA-SB25-0.5	04/14/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-2	04/14/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-5	04/14/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-15	04/14/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-25	04/14/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-35	04/14/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG26	SAIA-SB26-0.5	04/16/2014	N	0.5	0.5	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	**6.6**	<5.2	**48**	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<100	<10	<10	<10	<10	<5.2
SAIA-SB/SG26	SAIA-SB26-0.6	04/16/2014	FD	0.5	0.5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<100	<10	<10	<10	<10	<5.1
SAIA-SB/SG26	SAIA-SB26-2	04/16/2014	N	2	2	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<110	<11	<11	<11	<11	<5.5
SAIA-SB/SG26	SAIA-SB26-5	04/16/2014	N	5	5	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<100	<10	<10	<10	<10	<5.2
SAIA-SB/SG26	SAIA-SB26-15	04/16/2014	N	15	15	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<120	<12	<12	<12	<12	<6.1
SAIA-SB/SG26	SAIA-SB26-16	04/16/2014	FD	15	15	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<120	<12	<12	<12	<12	<6
SAIA-SB/SG26	SAIA-SB26-25	04/16/2014	N	25	25	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<120	<12	<12	<12	<12	<6.2
SAIA-SB/SG27	SAIA-SB27-0.5	04/14/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-2	04/14/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-5	04/14/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-15	04/14/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-25	04/14/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-35	04/14/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG28	SAIA-SB28-0.5	04/14/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG28	SAIA-SB28-2	04/14/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG28	SAIA-SB28-5	04/14/2014	N	5	5	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<120	<12	<12	<12	<12	<6.2
SAIA-SB/SG28	SAIA-SB28-15	04/14/2014	N	15	15	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<130	<13	<13	<13	<13	<6.3

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Volatiles (in ug/kg)																					
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene (Cumene)	m,p-Xylene	Methyl Acetate	Methylcyclohexane	Methylene Chloride	o-Xylene	Styrene	tert-Butyl Methyl Ether (MTBE)
SAIA-SB/SG25	SAIA-SB25-0.5	04/14/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-2	04/14/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-5	04/14/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-15	04/14/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-25	04/14/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-35	04/14/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG26	SAIA-SB26-0.5	04/16/2014	N	0.5	0.5	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
SAIA-SB/SG26	SAIA-SB26-0.6	04/16/2014	FD	0.5	0.5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG26	SAIA-SB26-2	04/16/2014	N	2	2	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG26	SAIA-SB26-5	04/16/2014	N	5	5	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
SAIA-SB/SG26	SAIA-SB26-15	04/16/2014	N	15	15	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG26	SAIA-SB26-16	04/16/2014	FD	15	15	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
SAIA-SB/SG26	SAIA-SB26-25	04/16/2014	N	25	25	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG27	SAIA-SB27-0.5	04/14/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-2	04/14/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-5	04/14/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-15	04/14/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-25	04/14/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-35	04/14/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG28	SAIA-SB28-0.5	04/14/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG28	SAIA-SB28-2	04/14/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG28	SAIA-SB28-5	04/14/2014	N	5	5	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG28	SAIA-SB28-15	04/14/2014	N	15	15	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Volatiles (ug/kg)							Semivolatiles (in ug/kg)															
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	1,2,4,5-Tetrachlorobenzene	1,4-Dioxane (p-Dioxane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol
SAIA-SB/SG25	SAIA-SB25-0.5	04/14/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-2	04/14/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-5	04/14/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-15	04/14/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-25	04/14/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-35	04/14/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG26	SAIA-SB26-0.5	04/16/2014	N	0.5	0.5	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG26	SAIA-SB26-0.6	04/16/2014	FD	0.5	0.5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<180	--	<180	<180	<180	<180	<180	<340	<180	<180	<180	<180	<180	<180	<340	<180
SAIA-SB/SG26	SAIA-SB26-2	04/16/2014	N	2	2	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG26	SAIA-SB26-5	04/16/2014	N	5	5	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG26	SAIA-SB26-15	04/16/2014	N	15	15	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<200	--	<200	<200	<200	<200	<200	<390	<200	<200	<200	<200	<200	<200	<390	<200
SAIA-SB/SG26	SAIA-SB26-16	04/16/2014	FD	15	15	<6	<6	<6	<6	<6	<6	<6	<210	--	<210	<210	<210	<210	<210	<410	<210	<210	<210	<210	<210	<210	<410	<210
SAIA-SB/SG26	SAIA-SB26-25	04/16/2014	N	25	25	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<210	--	<210	<210	<210	<210	<210	<400	<210	<210	<210	<210	<210	<210	<400	<210
SAIA-SB/SG27	SAIA-SB27-0.5	04/14/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-2	04/14/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-5	04/14/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-15	04/14/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-25	04/14/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-35	04/14/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG28	SAIA-SB28-0.5	04/14/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG28	SAIA-SB28-2	04/14/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG28	SAIA-SB28-5	04/14/2014	N	5	5	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<190	--	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	<190	<190	<370	<190
SAIA-SB/SG28	SAIA-SB28-15	04/14/2014	N	15	15	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<220	--	<220	<220	<220	<220	<220	<430	<220	<220	<220	<220	<220	<220	<430	<220

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Semivolatile (ug/kg)																			
						3,3'-Dichlorobenzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl phenyl ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl Phenyl Ether	4-Methylphenol (p-Cresol)	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzaldehyde	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
SAIA-SB/SG25	SAIA-SB25-0.5	04/14/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-2	04/14/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-5	04/14/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-15	04/14/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-25	04/14/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-35	04/14/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG26	SAIA-SB26-0.5	04/16/2014	N	0.5	0.5	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG26	SAIA-SB26-0.6	04/16/2014	FD	0.5	0.5	<180	<340	<340	<180	<180	<180	<180	<180	<340	<340	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG26	SAIA-SB26-2	04/16/2014	N	2	2	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG26	SAIA-SB26-5	04/16/2014	N	5	5	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG26	SAIA-SB26-15	04/16/2014	N	15	15	<200	<390	<390	<200	<200	<200	<200	<200	<390	<390	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG26	SAIA-SB26-16	04/16/2014	FD	15	15	<210	<410	<410	<210	<210	<210	<210	<210	<410	<410	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG26	SAIA-SB26-25	04/16/2014	N	25	25	<210	<400	<400	<210	<210	<210	<210	<210	<400	<400	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG27	SAIA-SB27-0.5	04/14/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-2	04/14/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-5	04/14/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-15	04/14/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-25	04/14/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-35	04/14/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG28	SAIA-SB28-0.5	04/14/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG28	SAIA-SB28-2	04/14/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG28	SAIA-SB28-5	04/14/2014	N	5	5	<190	<370	<370	<190	<190	<190	<190	<190	<370	<370	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG28	SAIA-SB28-15	04/14/2014	N	15	15	<220	<430	<430	<220	<220	<220	<220	<220	<430	<430	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Semivolatiles (in ug/kg)																					
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Benzo(k)fluoranthene	Benzyl butyl phthalate	Biphenyl (Diphenyl)	bis(2-Chloroethoxy) Methane	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	bis(2-Chloroisopropyl) Ether	bis(2-Ethylhexyl) Phthalate	Caprolactam	Carbazole	Chrysene	Di-n-Butyl Phthalate	Di-n-Octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Phthalate	Dimethyl Phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-c,d)pyrene
SAIA-SB/SG25	SAIA-SB25-0.5	04/14/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-2	04/14/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-5	04/14/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-15	04/14/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-25	04/14/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-35	04/14/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG26	SAIA-SB26-0.5	04/16/2014	N	0.5	0.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG26	SAIA-SB26-0.6	04/16/2014	FD	0.5	0.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG26	SAIA-SB26-2	04/16/2014	N	2	2	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG26	SAIA-SB26-5	04/16/2014	N	5	5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG26	SAIA-SB26-15	04/16/2014	N	15	15	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG26	SAIA-SB26-16	04/16/2014	FD	15	15	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG26	SAIA-SB26-25	04/16/2014	N	25	25	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG27	SAIA-SB27-0.5	04/14/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-2	04/14/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-5	04/14/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-15	04/14/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-25	04/14/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-35	04/14/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG28	SAIA-SB28-0.5	04/14/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG28	SAIA-SB28-2	04/14/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG28	SAIA-SB28-5	04/14/2014	N	5	5	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG28	SAIA-SB28-15	04/14/2014	N	15	15	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Semivolatiles (in ug/kg)									Metals by E200.7 (in mg/kg)									
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Isophorone	Naphthalene	Nitrobenzene	n-Nitrosodi-n-propylamine	n-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron
SAIA-SB/SG25	SAIA-SB25-0.5	04/14/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	**11,800**	**1.4 J**	**4.1**	**122**	**0.47**	<0.38	**15,400**	**16.6**	**9.4**	**23.6**	**21,100**
SAIA-SB/SG25	SAIA-SB25-2	04/14/2014	N	2	2	--	--	--	--	--	--	--	--	--	**16,800**	**11.8**	<0.87	**165**	**0.66**	<0.43	**9,380**	**21.6**	**11.4**	**23.1**	**28,600**
SAIA-SB/SG25	SAIA-SB25-5	04/14/2014	N	5	5	--	--	--	--	--	--	--	--	--	**20,200**	**0.47 J**	**5.2**	**195**	**0.82**	<0.42	**12,500**	**26**	**16.6**	**28.5**	**31,800**
SAIA-SB/SG25	SAIA-SB25-15	04/14/2014	N	15	15	--	--	--	--	--	--	--	--	--	**18,400**	**0.59 J**	**5.4**	**159**	**0.76**	<0.42	**12,000**	**22.6**	**13.7**	**25**	**28,700**
SAIA-SB/SG25	SAIA-SB25-25	04/14/2014	N	25	25	--	--	--	--	--	--	--	--	--	**21,500**	**0.43 J**	**6.7**	**205**	**0.88**	<0.43	**8,910**	**28.2**	**17.8**	**31.6**	**35,200**
SAIA-SB/SG25	SAIA-SB25-35	04/14/2014	N	35	35	--	--	--	--	--	--	--	--	--	**8,300**	<4.8	**11.1**	**91.5**	**0.38 J**	<0.4	**4,340**	**10.3**	**6.7**	**9.8**	**16,800**
SAIA-SB/SG26	SAIA-SB26-0.5	04/16/2014	N	0.5	0.5	<180	<180	<180	<180	<180	<350	<180	<180	<180	**9,650**	**20.1 J**	**6.2**	**189**	**0.47**	**26.7**	**4,150**	**240**	**21.6**	**187**	**22,100**
SAIA-SB/SG26	SAIA-SB26-0.6	04/16/2014	FD	0.5	0.5	<180	<180	<180	<180	<180	<340	<180	<180	<180	**10,200**	**29.3 J**	**6.7**	**211**	**0.44**	**31**	**6,970**	**234**	**21.3**	**199**	**22,000**
SAIA-SB/SG26	SAIA-SB26-2	04/16/2014	N	2	2	<180	<180	<180	<180	<180	<350	<180	<180	<180	**11,900**	**64.1 J**	**6.5**	**169**	**0.44**	**40.5**	**5,590**	**200**	**17.2**	**359**	**26,800**
SAIA-SB/SG26	SAIA-SB26-5	04/16/2014	N	5	5	<180	<180	<180	<180	<180	<350	<180	<180	<180	**11,800**	**10 J**	**2.1**	**115**	**0.41**	**3.2**	**6,800**	**19.9**	**8.1**	**20.5**	**22,700**
SAIA-SB/SG26	SAIA-SB26-15	04/16/2014	N	15	15	<200	<200	<200	<200	<200	<390	<200	<200	<200	**21,700**	<5	**4.2**	**170**	**0.73**	**0.89**	**14,300**	**24.2**	**13.2**	**26.3**	**31,400**
SAIA-SB/SG26	SAIA-SB26-16	04/16/2014	FD	15	15	<210	<210	<210	<210	<210	<410	<210	<210	<210	**20,600**	<5.2	**3.9**	**167**	**0.71**	**0.91**	**13,700**	**24**	**13.3**	**25.3**	**31,500**
SAIA-SB/SG26	SAIA-SB26-25	04/16/2014	N	25	25	<210	<210	<210	<210	<210	<400	<210	<210	<210	**22,300**	<5.1	**4**	**198**	**0.77**	**0.86**	**14,100**	**23.6**	**14**	**27.6**	**30,600**
SAIA-SB/SG27	SAIA-SB27-0.5	04/14/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	**9,650**	**21**	**11**	**320**	**0.41**	<0.39	**7,110**	**35.8**	**8.4**	**36.1**	**22,900**
SAIA-SB/SG27	SAIA-SB27-2	04/14/2014	N	2	2	--	--	--	--	--	--	--	--	--	**14,600**	**0.55 J**	**3.5**	**148**	**0.58**	<0.38	**7,870**	**19.4**	**11.9**	**19.5**	**25,600**
SAIA-SB/SG27	SAIA-SB27-5	04/14/2014	N	5	5	--	--	--	--	--	--	--	--	--	**17,900**	**0.43 J**	**4.5**	**186**	**0.68**	<0.37	**8,710**	**23.5**	**14.6**	**23.7**	**29,700**
SAIA-SB/SG27	SAIA-SB27-15	04/14/2014	N	15	15	--	--	--	--	--	--	--	--	--	**16,500**	**0.44 J**	**5.1**	**142**	**0.69**	<0.42	**10,200**	**22.7**	**12.8**	**23**	**29,200**
SAIA-SB/SG27	SAIA-SB27-25	04/14/2014	N	25	25	--	--	--	--	--	--	--	--	--	**27,100**	**0.33 J**	**7**	**233**	**1.1**	<0.46	**11,700**	**31.9**	**18.5**	**42.3**	**36,600**
SAIA-SB/SG27	SAIA-SB27-35	04/14/2014	N	35	35	--	--	--	--	--	--	--	--	--	**9,560**	**0.14 J**	**13.1**	**104**	**0.4**	<0.38	**5,120**	**11.4**	**7.4**	**11.9**	**17,600**
SAIA-SB/SG28	SAIA-SB28-0.5	04/14/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	**13,000**	**4 J**	**3.9**	**128**	**0.51**	<0.42	**8,690**	**17.9**	**10**	**19.3**	**24,200**
SAIA-SB/SG28	SAIA-SB28-2	04/14/2014	N	2	2	--	--	--	--	--	--	--	--	--	**11,900**	**0.32 J**	**3.4**	**115**	**0.47**	<0.38	**7,530**	**16**	**9.2**	**14.3**	**21,800**
SAIA-SB/SG28	SAIA-SB28-5	04/14/2014	N	5	5	<190	<190	<190	<190	<190	<370	<190	<190	<190	**14,700**	**0.34 J**	**4**	**131**	**0.61**	<0.44	**9,810**	**17.9**	**11.5**	**20.3**	**23,400**
SAIA-SB/SG28	SAIA-SB28-15	04/14/2014	N	15	15	<220	<220	<220	<220	<220	<430	<220	<220	<220	**32,000**	**0.78 J**	**9.6**	**270**	**1.3**	<0.47	**19,400**	**33.7**	**21.3**	**51.5**	**41,700**

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Metals by E200.7 (in mg/kg)			Metals by E200.7 (in mg/kg)								Metals by C245_5 (in mg/kg)	PCBs by SW8082 (in ug/kg)				
						Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Mercury	PCB-1016 (Arochlor 1016)	PCB-1221 (Arochlor 1221)	PCB-1232 (Arochlor 1232)	PCB-1242 (Arochlor 1242)	PCB-1248 (Arochlor 1248)
SAIA-SB/SG25	SAIA-SB25-0.5	04/14/2014	N	0.5	0.5	**107**	**6,360**	**313**	**13**	**3,740**	**2.1 J**	<0.76	**285 J**	<1.9	**36.8**	**78.2**	<0.11	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-2	04/14/2014	N	2	2	**4.8**	**8,970**	**419**	**18.4**	**5,230**	**7.5**	<0.87	**376 J**	**12.6**	**49.8**	**68.7**	<0.11	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-5	04/14/2014	N	5	5	**5.8**	**11,100**	**506**	**22.4**	**5,770**	**2.9 J**	<0.85	**453**	<2.1	**59.5**	**81.5**	<0.11	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-15	04/14/2014	N	15	15	**5.4**	**9,990**	**488**	**18.4**	**5,050**	**2.9 J**	<0.85	**658**	<2.1	**53**	**69.9**	<0.1	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-25	04/14/2014	N	25	25	**6.8**	**11,700**	**578**	**24.6**	**5,900**	**4.1**	<0.86	**1,610**	<2.1	**59.9**	**81.1**	<0.11	--	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-35	04/14/2014	N	35	35	**2.4**	**4,790**	**233**	**7.2**	**2,450**	**1.5 J**	<0.8	**520**	<2	**30**	**35**	<0.11	--	--	--	--	--
SAIA-SB/SG26	SAIA-SB26-0.5	04/16/2014	N	0.5	0.5	**1,360 J**	**4,310**	**404**	**152**	**2,080**	**2.9**	**1.9**	**334 J**	<2	**39.1**	**1,350**	**0.21**	<35	<35	<35	<35	<35
SAIA-SB/SG26	SAIA-SB26-0.6	04/16/2014	FD	0.5	0.5	**1,850 J**	**4,490**	**418**	**136**	**2,450**	**2.7**	**2.4**	**331 J**	<2	**41.6**	**1,550**	**0.15**	<34	<34	<34	<34	<34
SAIA-SB/SG26	SAIA-SB26-2	04/16/2014	N	2	2	**2,620 J**	**5,560**	**364**	**77.6**	**3,320**	**3.7**	**2.4**	<389	<1.9	**48.4**	**1,240**	**0.1**	<35	<35	<35	<35	<35
SAIA-SB/SG26	SAIA-SB26-5	04/16/2014	N	5	5	**41.6 J**	**5,860**	**384**	**13.1**	**3,790**	**2.6 J**	<0.77	<386	<1.9	**44.2**	**150**	**0.024 J**	<35	<35	<35	<35	<35
SAIA-SB/SG26	SAIA-SB26-15	04/16/2014	N	15	15	**6.8 J**	**9,300**	**452**	**19.5**	**4,660**	**3.2**	<0.84	**561**	<2.1	**63.3**	**70.1**	**0.14**	<39	<39	<39	<39	<39
SAIA-SB/SG26	SAIA-SB26-16	04/16/2014	FD	15	15	**6.2 J**	**9,000**	**448**	**19.1**	**4,520**	**3**	<0.86	**524**	<2.2	**63.3**	**66.6**	**0.048 J**	<41	<41	<41	<41	<41
SAIA-SB/SG26	SAIA-SB26-25	04/16/2014	N	25	25	**6.4 J**	**10,400**	**466**	**20**	**5,460**	**3**	<0.86	**649**	<2.1	**59.2**	**72.8**	**0.051 J**	**2.4 J**	<40	<40	<40	<40
SAIA-SB/SG27	SAIA-SB27-0.5	04/14/2014	N	0.5	0.5	**906**	**4,780**	**286**	**14.6**	**3,410**	**2.7**	<0.77	**752**	<1.9	**50.7**	**531**	<0.094	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-2	04/14/2014	N	2	2	**6.7**	**8,050**	**365**	**15.5**	**5,040**	**2.5 J**	<0.77	**555**	<1.9	**45.7**	**64.2**	<0.1	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-5	04/14/2014	N	5	5	**7.7**	**10,500**	**469**	**19.2**	**6,290**	**2.7**	<0.73	**523**	<1.8	**54.2**	**76.9**	<0.093	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-15	04/14/2014	N	15	15	**10.2**	**9,000**	**407**	**18.2**	**4,270**	**3.1**	<0.83	**1,690**	<2.1	**55.5**	**67.9**	<0.1	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-25	04/14/2014	N	25	25	**9.2**	**12,600**	**531**	**27.1**	**5,230**	**3.5**	<0.93	**2,020**	<2.3	**74.3**	**88.2**	**0.23**	--	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-35	04/14/2014	N	35	35	**2.3**	**5,740**	**279**	**8.5**	**3,030**	**1.8 J**	<0.76	**615**	<1.9	**30.6**	**40.6**	<0.095	--	--	--	--	--
SAIA-SB/SG28	SAIA-SB28-0.5	04/14/2014	N	0.5	0.5	**93.9**	**6,890**	**305**	**13.6**	**4,760**	**2.6 J**	<0.85	**523**	<2.1	**43.4**	**70.6**	<0.1	--	--	--	--	--
SAIA-SB/SG28	SAIA-SB28-2	04/14/2014	N	2	2	**6.7**	**6,360**	**288**	**11.9**	**3,980**	**2.5 J**	<0.75	**407**	<1.9	**40.5**	**49.4**	<0.097	--	--	--	--	--
SAIA-SB/SG28	SAIA-SB28-5	04/14/2014	N	5	5	**6.3**	**7,700**	**369**	**14.9**	**4,480**	**2.2 J**	<0.88	**592**	<2.2	**44.2**	**58.5**	<0.11	<37	<37	<37	<37	<37
SAIA-SB/SG28	SAIA-SB28-15	04/14/2014	N	15	15	**11.1**	**13,900**	**643**	**31.6**	**5,230**	**4.3**	<0.95	**2,340**	<2.4	**82.4**	**99.7**	**0.18**	<44	<44	<44	<44	<44

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	PCBs by SW8082 (in ug/kg)			
						PCB-1254 (Arochlor 1254)	PCB-1260 (Arochlor 1260)	PCB-1262 (Arochlor 1262)	PCB-1268 (Arochlor 1268)
SAIA-SB/SG25	SAIA-SB25-0.5	04/14/2014	N	0.5	0.5	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-2	04/14/2014	N	2	2	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-5	04/14/2014	N	5	5	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-15	04/14/2014	N	15	15	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-25	04/14/2014	N	25	25	--	--	--	--
SAIA-SB/SG25	SAIA-SB25-35	04/14/2014	N	35	35	--	--	--	--
SAIA-SB/SG26	SAIA-SB26-0.5	04/16/2014	N	0.5	0.5	<35	**7,300 J**	<35	<35
SAIA-SB/SG26	SAIA-SB26-0.6	04/16/2014	FD	0.5	0.5	<34	**3,000 J**	<34	<34
SAIA-SB/SG26	SAIA-SB26-2	04/16/2014	N	2	2	<35	**5,700 J**	<35	<35
SAIA-SB/SG26	SAIA-SB26-5	04/16/2014	N	5	5	<35	**25 J**	<35	<35
SAIA-SB/SG26	SAIA-SB26-15	04/16/2014	N	15	15	<39	<39	<39	<39
SAIA-SB/SG26	SAIA-SB26-16	04/16/2014	FD	15	15	<41	<41	<41	<41
SAIA-SB/SG26	SAIA-SB26-25	04/16/2014	N	25	25	<40	**3.7 J**	<40	<40
SAIA-SB/SG27	SAIA-SB27-0.5	04/14/2014	N	0.5	0.5	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-2	04/14/2014	N	2	2	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-5	04/14/2014	N	5	5	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-15	04/14/2014	N	15	15	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-25	04/14/2014	N	25	25	--	--	--	--
SAIA-SB/SG27	SAIA-SB27-35	04/14/2014	N	35	35	--	--	--	--
SAIA-SB/SG28	SAIA-SB28-0.5	04/14/2014	N	0.5	0.5	--	--	--	--
SAIA-SB/SG28	SAIA-SB28-2	04/14/2014	N	2	2	--	--	--	--
SAIA-SB/SG28	SAIA-SB28-5	04/14/2014	N	5	5	<37	<37	<37	<37
SAIA-SB/SG28	SAIA-SB28-15	04/14/2014	N	15	15	<44	<44	<44	<44

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (in ug/kg)																				
						1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane (p-Dioxane)	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene
SAIA-SB/SG28	SAIA-SB28-25	04/14/2014	N	25	25	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<120	<12	<12	<12	<12	<6.1
SAIA-SB/SG28	SAIA-SB28-35	04/14/2014	N	35	35	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<120	<12	<12	<12	<12	<6.2
SAIA-SB/SG29	SAIA-SB29-0.5	04/16/2014	N	0.5	0.5	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<120	<12	<12	<12	<12	<6
SAIA-SB/SG29	SAIA-SB29-2	04/16/2014	N	2	2	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<110	<11	<11	<11	<11	<5.6
SAIA-SB/SG29	SAIA-SB29-5	04/16/2014	N	5	5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<110	<11	<11	<11	<11	<5.7
SAIA-SB/SG29	SAIA-SB29-6	04/16/2014	FD	5	5	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<120	<12	<12	<12	<12	<5.9
SAIA-SB/SG29	SAIA-SB29-15	04/16/2014	N	15	15	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<120	<12	<12	<12	<12	<5.9
SAIA-SB/SG29	SAIA-SB29-25	04/16/2014	N	25	25	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<140	<14	<14	<14	<14	<7.2
SAIA-SB/SG29	SAIA-SB29-35	04/16/2014	N	35	35	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<110	<11	<11	<11	<11	<5.3
SAIA-SB/SG30	SAIA-SB30-0.5	04/15/2014	N	0.5	0.5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<110	<11	<11	<11	<11	<5.7
SAIA-SB/SG30	SAIA-SB30-2	04/15/2014	N	2	2	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<110	<11	<11	<11	<11	<5.4
SAIA-SB/SG30	SAIA-SB30-5	04/15/2014	N	5	5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<100	<10	<10	<10	<10	<5.1
SAIA-SB/SG30	SAIA-SB30-15	04/15/2014	N	15	15	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<140	<14	<14	<14	<14	<6.9
SAIA-SB/SG30	SAIA-SB30-25	04/15/2014	N	25	25	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<120	<12	<12	<12	<12	<5.9
SAIA-SB/SG30	SAIA-SB30-35	04/15/2014	N	35	35	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<98	<9.8	<9.8	<9.8	<9.8	<4.9
SAIA-SB/SG31	SAIA-SB31-0.5	04/15/2014	N	0.5	0.5	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<130	<13	<13	<13	<13	<6.4
SAIA-SB/SG31	SAIA-SB31-2	04/15/2014	N	2	2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<110	<11	<11	<11	<11	<5.3
SAIA-SB/SG31	SAIA-SB31-5	04/15/2014	N	5	5	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<120	<12	<12	<12	<12	<5.9
SAIA-SB/SG31	SAIA-SB31-15	04/15/2014	N	15	15	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<120	<12	<12	<12	<12	<5.9
SAIA-SB/SG31	SAIA-SB31-25	04/15/2014	N	25	25	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<120	<12	<12	<12	<12	<6.2
SAIA-SB/SG31	SAIA-SB31-35	04/15/2014	N	35	35	<5.6	<5.6	**1 J**	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<110	<11	<11	<11	<11	<5.6
SAIA-SB/SG31	SAIA-SB31-36	04/15/2014	FD	35	35	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<110	<11	<11	<11	<11	<5.4
SAIA-SB/SG32	SAIA-SB32-0.5	04/15/2014	N	0.5	0.5	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<110	<11	<11	<11	<11	<5.6

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (in ug/kg)																							
						Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene (Cumene)	m,p-Xylene	Methyl Acetate	Methylcyclohexane	Methylene Chloride	o-Xylene	Styrene	tert-Butyl Methyl Ether (MTBE)
SAIA-SB/SG28	SAIA-SB28-25	04/14/2014	N	25	25	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG28	SAIA-SB28-35	04/14/2014	N	35	35	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG29	SAIA-SB29-0.5	04/16/2014	N	0.5	0.5	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
SAIA-SB/SG29	SAIA-SB29-2	04/16/2014	N	2	2	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG29	SAIA-SB29-5	04/16/2014	N	5	5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7
SAIA-SB/SG29	SAIA-SB29-6	04/16/2014	FD	5	5	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG29	SAIA-SB29-15	04/16/2014	N	15	15	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG29	SAIA-SB29-25	04/16/2014	N	25	25	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2
SAIA-SB/SG29	SAIA-SB29-35	04/16/2014	N	35	35	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG30	SAIA-SB30-0.5	04/15/2014	N	0.5	0.5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7
SAIA-SB/SG30	SAIA-SB30-2	04/15/2014	N	2	2	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG30	SAIA-SB30-5	04/15/2014	N	5	5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG30	SAIA-SB30-15	04/15/2014	N	15	15	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9
SAIA-SB/SG30	SAIA-SB30-25	04/15/2014	N	25	25	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG30	SAIA-SB30-35	04/15/2014	N	35	35	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
SAIA-SB/SG31	SAIA-SB31-0.5	04/15/2014	N	0.5	0.5	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
SAIA-SB/SG31	SAIA-SB31-2	04/15/2014	N	2	2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG31	SAIA-SB31-5	04/15/2014	N	5	5	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG31	SAIA-SB31-15	04/15/2014	N	15	15	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG31	SAIA-SB31-25	04/15/2014	N	25	25	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG31	SAIA-SB31-35	04/15/2014	N	35	35	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG31	SAIA-SB31-36	04/15/2014	FD	35	35	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG32	SAIA-SB32-0.5	04/15/2014	N	0.5	0.5	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Volatiles (ug/kg)							Semivolatiles (in ug/kg)															
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	1,2,4,5-Tetrachlorobenzene	1,4-Dioxane (p-Dioxane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol
SAIA-SB/SG28	SAIA-SB28-25	04/14/2014	N	25	25	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<210	--	<210	<210	<210	<210	<210	<410	<210	<210	<210	<210	<210	<210	<410	<210
SAIA-SB/SG28	SAIA-SB28-35	04/14/2014	N	35	35	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<180	--	<180	<180	<180	<180	<180	<360	<180	<180	<180	<180	<180	<180	<360	<180
SAIA-SB/SG29	SAIA-SB29-0.5	04/16/2014	N	0.5	0.5	<6	<6	<6	<6	<6	<6	<6	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG29	SAIA-SB29-2	04/16/2014	N	2	2	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<180	--	<180	<180	<180	<180	<180	<360	<180	<180	<180	<180	<180	<180	<360	<180
SAIA-SB/SG29	SAIA-SB29-5	04/16/2014	N	5	5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<200	--	<200	<200	<200	<200	<200	<400	<200	<200	<200	<200	<200	<200	<400	<200
SAIA-SB/SG29	SAIA-SB29-6	04/16/2014	FD	5	5	<5.9	**1.2 J**	<5.9	<5.9	<5.9	<5.9	<5.9	<210	--	<210	<210	<210	<210	<210	<400	<210	<210	<210	<210	<210	<210	<400	<210
SAIA-SB/SG29	SAIA-SB29-15	04/16/2014	N	15	15	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<190	--	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	<190	<190	<370	<190
SAIA-SB/SG29	SAIA-SB29-25	04/16/2014	N	25	25	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<210	--	<210	<210	<210	<210	<210	<410	<210	<210	<210	<210	<210	<210	<410	<210
SAIA-SB/SG29	SAIA-SB29-35	04/16/2014	N	35	35	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG30	SAIA-SB30-0.5	04/15/2014	N	0.5	0.5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG30	SAIA-SB30-2	04/15/2014	N	2	2	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<180	--	<180	<180	<180	<180	<180	<340	<180	<180	<180	<180	<180	<180	<340	<180
SAIA-SB/SG30	SAIA-SB30-5	04/15/2014	N	5	5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<180	--	<180	<180	<180	<180	<180	<340	<180	<180	<180	<180	<180	<180	<340	<180
SAIA-SB/SG30	SAIA-SB30-15	04/15/2014	N	15	15	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<190	--	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	<190	<190	<370	<190
SAIA-SB/SG30	SAIA-SB30-25	04/15/2014	N	25	25	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<190	--	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	<190	<190	<370	<190
SAIA-SB/SG30	SAIA-SB30-35	04/15/2014	N	35	35	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<180	--	<180	<180	<180	<180	<180	<340	<180	<180	<180	<180	<180	<180	<340	<180
SAIA-SB/SG31	SAIA-SB31-0.5	04/15/2014	N	0.5	0.5	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<190	--	<190	<190	<190	<190	<190	<360	<190	<190	<190	<190	<190	<190	<360	<190
SAIA-SB/SG31	SAIA-SB31-2	04/15/2014	N	2	2	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<190	--	<190	<190	<190	<190	<190	<360	<190	<190	<190	<190	<190	<190	<360	<190
SAIA-SB/SG31	SAIA-SB31-5	04/15/2014	N	5	5	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<190	--	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	<190	<190	<370	<190
SAIA-SB/SG31	SAIA-SB31-15	04/15/2014	N	15	15	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<200	--	<200	<200	<200	<200	<200	<390	<200	<200	<200	<200	<200	<200	<390	<200
SAIA-SB/SG31	SAIA-SB31-25	04/15/2014	N	25	25	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<220	--	<220	<220	<220	<220	<220	<430	<220	<220	<220	<220	<220	<220	<430	<220
SAIA-SB/SG31	SAIA-SB31-35	04/15/2014	N	35	35	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<180	--	<180	<180	<180	<180	<180	<340	<180	<180	<180	<180	<180	<180	<340	<180
SAIA-SB/SG31	SAIA-SB31-36	04/15/2014	FD	35	35	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<180	--	<180	<180	<180	<180	<180	<340	<180	<180	<180	<180	<180	<180	<340	<180
SAIA-SB/SG32	SAIA-SB32-0.5	04/15/2014	N	0.5	0.5	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<180	--	<180	<180	<180	<180	<180	<360	<180	<180	<180	<180	<180	<180	<360	<180

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Semivolatile (ug/kg)																			
						3,3'-Dichlorobenzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl phenyl ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl Phenyl Ether	4-Methylphenol (p-Cresol)	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzaldehyde	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
SAIA-SB/SG28	SAIA-SB28-25	04/14/2014	N	25	25	<210	<410	<410	<210	<210	<210	<210	<210	<410	<410	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG28	SAIA-SB28-35	04/14/2014	N	35	35	<180	<360	<360	<180	<180	<180	<180	<180	<360	<360	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG29	SAIA-SB29-0.5	04/16/2014	N	0.5	0.5	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	**85 J**	**130 J**	<180	**120 J**
SAIA-SB/SG29	SAIA-SB29-2	04/16/2014	N	2	2	<180	<360	<360	<180	<180	<180	<180	<180	<360	<360	<180	<180	<180	<180	<180	<180	**12 J**	<180	<180	<180
SAIA-SB/SG29	SAIA-SB29-5	04/16/2014	N	5	5	<200	<400	<400	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG29	SAIA-SB29-6	04/16/2014	FD	5	5	<210	<400	<400	<210	<210	<210	<210	<210	<400	<400	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG29	SAIA-SB29-15	04/16/2014	N	15	15	<190	<370	<370	<190	<190	<190	<190	<190	<370	<370	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG29	SAIA-SB29-25	04/16/2014	N	25	25	<210	<410	<410	<210	<210	<210	<210	<210	<410	<410	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG29	SAIA-SB29-35	04/16/2014	N	35	35	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG30	SAIA-SB30-0.5	04/15/2014	N	0.5	0.5	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG30	SAIA-SB30-2	04/15/2014	N	2	2	<180	<340	<340	<180	<180	<180	<180	<180	<340	<340	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG30	SAIA-SB30-5	04/15/2014	N	5	5	<180	<340	<340	<180	<180	<180	<180	<180	<340	<340	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG30	SAIA-SB30-15	04/15/2014	N	15	15	<190	<370	<370	<190	<190	<190	<190	<190	<370	<370	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG30	SAIA-SB30-25	04/15/2014	N	25	25	<190	<370	<370	<190	<190	<190	<190	<190	<370	<370	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG30	SAIA-SB30-35	04/15/2014	N	35	35	<180	<340	<340	<180	<180	<180	<180	<180	<340	<340	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG31	SAIA-SB31-0.5	04/15/2014	N	0.5	0.5	<190	<360	<360	<190	<190	<190	<190	<190	<360	<360	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG31	SAIA-SB31-2	04/15/2014	N	2	2	<190	<360	<360	<190	<190	<190	<190	<190	<360	<360	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG31	SAIA-SB31-5	04/15/2014	N	5	5	<190	<370	<370	<190	<190	<190	<190	<190	<370	<370	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG31	SAIA-SB31-15	04/15/2014	N	15	15	<200	<390	<390	<200	<200	<200	<200	<200	<390	<390	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG31	SAIA-SB31-25	04/15/2014	N	25	25	<220	<430	<430	<220	<220	<220	<220	<220	<430	<430	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220
SAIA-SB/SG31	SAIA-SB31-35	04/15/2014	N	35	35	<180	<340	<340	<180	<180	<180	<180	<180	<340	<340	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG31	SAIA-SB31-36	04/15/2014	FD	35	35	<180	<340	<340	<180	<180	<180	<180	<180	<340	<340	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG32	SAIA-SB32-0.5	04/15/2014	N	0.5	0.5	<180	<360	<360	<180	<180	<180	<180	<180	<360	<360	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Semivolatiles (in ug/kg)																					
						Benzo(k)fluoranthene	Benzyl butyl phthalate	Biphenyl (Diphenyl)	bis(2-Chloroethoxy) Methane	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	bis(2-Chloroisopropyl) Ether	bis(2-Ethylhexyl) Phthalate	Caprolactam	Carbazole	Chrysene	Di-n-Butyl Phthalate	Di-n-Octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Phthalate	Dimethyl Phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-c,d)pyrene
SAIA-SB/SG28	SAIA-SB28-25	04/14/2014	N	25	25	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG28	SAIA-SB28-35	04/14/2014	N	35	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG29	SAIA-SB29-0.5	04/16/2014	N	0.5	0.5	**120 J**	<180	<180	<180	<180	<180	**150 J**	<180	<180	**120 J**	<180	<180	<180	<180	**85 J**	<180	**140 J**	<180	<180	<180	<180	<180	**86 J**
SAIA-SB/SG29	SAIA-SB29-2	04/16/2014	N	2	2	<180	<180	<180	<180	<180	<180	**49 J**	<180	<180	**16 J**	<180	<180	**17 J**	<180	**30 J**	<180	**12 J**	<180	<180	<180	<180	<180	<180
SAIA-SB/SG29	SAIA-SB29-5	04/16/2014	N	5	5	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG29	SAIA-SB29-6	04/16/2014	FD	5	5	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG29	SAIA-SB29-15	04/16/2014	N	15	15	<190	<190	<190	<190	<190	<190	**100 J**	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG29	SAIA-SB29-25	04/16/2014	N	25	25	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG29	SAIA-SB29-35	04/16/2014	N	35	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG30	SAIA-SB30-0.5	04/15/2014	N	0.5	0.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG30	SAIA-SB30-2	04/15/2014	N	2	2	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG30	SAIA-SB30-5	04/15/2014	N	5	5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG30	SAIA-SB30-15	04/15/2014	N	15	15	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG30	SAIA-SB30-25	04/15/2014	N	25	25	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG30	SAIA-SB30-35	04/15/2014	N	35	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG31	SAIA-SB31-0.5	04/15/2014	N	0.5	0.5	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG31	SAIA-SB31-2	04/15/2014	N	2	2	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG31	SAIA-SB31-5	04/15/2014	N	5	5	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG31	SAIA-SB31-15	04/15/2014	N	15	15	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG31	SAIA-SB31-25	04/15/2014	N	25	25	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220
SAIA-SB/SG31	SAIA-SB31-35	04/15/2014	N	35	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG31	SAIA-SB31-36	04/15/2014	FD	35	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG32	SAIA-SB32-0.5	04/15/2014	N	0.5	0.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Semivolatiles (in ug/kg)									Metals by E200.7 (in mg/kg)										
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Isophorone	Naphthalene	Nitrobenzene	n-Nitrosodi-n-propylamine	n-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron
SAIA-SB/SG28	SAIA-SB28-25	04/14/2014	N	25	25	<210	<210	<210	<210	<210	<410	<210	<210	<210	**19,300**	**0.4 J**	**15.3**	**180**	**0.72**	<0.45	**22,400**	**22.9**	**14.1**	**26.8**	**28,900**
SAIA-SB/SG28	SAIA-SB28-35	04/14/2014	N	35	35	<180	<180	<180	<180	<180	<360	<180	<180	<180	**10,800**	**0.19 J**	**13.7**	**105**	**0.42**	<0.39	**13,800**	**12.7**	**8.6**	**11.7**	**18,900**
SAIA-SB/SG29	SAIA-SB29-0.5	04/16/2014	N	0.5	0.5	<180	<180	<180	<180	<180	<350	<180	<180	**180**	**11,300**	<4.9	**5.1**	**119**	**0.49**	**0.58 J**	**5,500**	**158 J**	**197 J**	**89.9**	**30,600**
SAIA-SB/SG29	SAIA-SB29-2	04/16/2014	N	2	2	<180	<180	<180	<180	<180	<360	<180	<180	**19 J**	**13,200**	<4.7	**2.6**	**124**	**0.48**	**0.7**	**7,130**	**24.2**	**13.7**	**20.5**	**24,700**
SAIA-SB/SG29	SAIA-SB29-5	04/16/2014	N	5	5	<200	<200	<200	<200	<200	<400	<200	<200	<200	**19,100**	<5.2	**3.5**	**176**	**0.68**	**1**	**9,500**	**46.8**	**25**	**28.9**	**31,700**
SAIA-SB/SG29	SAIA-SB29-6	04/16/2014	FD	5	5	<210	<210	<210	<210	<210	<400	<210	<210	<210	**14,700**	<5.4	**2.8**	**138**	**0.5**	**0.62**	**7,720**	**21.3**	**10.1**	**17.9**	**23,800**
SAIA-SB/SG29	SAIA-SB29-15	04/16/2014	N	15	15	<190	<190	<190	<190	<190	<370	<190	<190	<190	**14,100**	<4.7	**2.9**	**120**	**0.59**	<0.39	**8,130**	**53**	**25.2**	**27.4**	**23,900**
SAIA-SB/SG29	SAIA-SB29-25	04/16/2014	N	25	25	<210	<210	<210	<210	<210	<410	<210	<210	<210	**21,300**	<5.3	**4.7**	**188**	**0.81**	<0.44	**15,300**	**26.7**	**15.5**	**28.8**	**33,000**
SAIA-SB/SG29	SAIA-SB29-35	04/16/2014	N	35	35	<180	<180	<180	<180	<180	<350	<180	<180	<180	**11,100**	<4.7	**12.9**	**104**	**0.42**	<0.4	**9,900**	**13.7**	**8.3**	**11.2**	**19,500**
SAIA-SB/SG30	SAIA-SB30-0.5	04/15/2014	N	0.5	0.5	<180	<180	<180	<180	<180	<350	<180	<180	<180	**16,800**	**0.99 J**	**4.1**	**152**	**0.62**	<0.39	**11,600**	**22.1**	**13.1**	**21.3**	**28,000**
SAIA-SB/SG30	SAIA-SB30-2	04/15/2014	N	2	2	<180	<180	<180	<180	<180	<340	<180	<180	<180	**15,800**	**0.7 J**	**4.3**	**156**	**0.61**	<0.38	**9,900**	**19.1**	**12.1**	**21**	**25,300 J**
SAIA-SB/SG30	SAIA-SB30-5	04/15/2014	N	5	5	<180	<180	<180	<180	<180	<340	<180	<180	<180	**14,300**	**0.6 J**	**3.8**	**143**	**0.58**	<0.37	**8,890**	**18**	**11.4**	**18.5**	**23,900**
SAIA-SB/SG30	SAIA-SB30-15	04/15/2014	N	15	15	<190	<190	<190	<190	<190	<370	<190	<190	<190	**20,400**	**0.45 J**	**5.5**	**167**	**0.81**	<0.39	**13,500**	**23.5**	**15.3**	**26.9**	**30,000**
SAIA-SB/SG30	SAIA-SB30-25	04/15/2014	N	25	25	<190	<190	<190	<190	<190	<370	<190	<190	<190	**21,500**	**0.6 J**	**6.2**	**182**	**0.8**	<0.4	**19,500**	**25.9**	**16.5**	**31.4**	**31,200**
SAIA-SB/SG30	SAIA-SB30-35	04/15/2014	N	35	35	<180	<180	<180	<180	<180	<340	<180	<180	<180	**8,380**	<4.6	**10**	**76.6**	**0.36 J**	<0.39	**5,660**	**10.1**	**6.7**	**10.3**	**15,700**
SAIA-SB/SG31	SAIA-SB31-0.5	04/15/2014	N	0.5	0.5	<190	<190	<190	<190	<190	<360	<190	<190	<190	**13,900**	**1.5 J**	**5**	**141**	**0.52**	<0.41	**6,990**	**17**	**10.8**	**20**	**22,500**
SAIA-SB/SG31	SAIA-SB31-2	04/15/2014	N	2	2	<190	<190	<190	<190	<190	<360	<190	<190	<190	**14,400**	**0.43 J**	**4.7**	**144**	**0.53**	<0.41	**7,480**	**17.6**	**11.3**	**19.2**	**22,900**
SAIA-SB/SG31	SAIA-SB31-5	04/15/2014	N	5	5	<190	<190	<190	<190	<190	<370	<190	<190	<190	**15,900**	**0.36 J**	**4**	**152**	**0.63**	<0.42	**9,460**	**19.2**	**11.7**	**21**	**24,600**
SAIA-SB/SG31	SAIA-SB31-15	04/15/2014	N	15	15	<200	<200	<200	<200	<200	<390	<200	<200	<200	**22,200**	**0.33 J**	**5.9**	**199**	**0.94**	<0.44	**10,800**	**24.4**	**15.1**	**30.4**	**29,900**
SAIA-SB/SG31	SAIA-SB31-25	04/15/2014	N	25	25	<220	<220	<220	<220	<220	<430	<220	<220	<220	**29,300**	**0.85 J**	**10.2**	**250**	**1.3**	<0.47	**13,100**	**36.8**	**22**	**49.4**	**40,000**
SAIA-SB/SG31	SAIA-SB31-35	04/15/2014	N	35	35	<180	<180	<180	<180	<180	<340	<180	<180	<180	**8,090**	<4.7	**10**	**84**	**0.33 J**	<0.39	**4,710**	**8.8**	**6.2**	**8.5**	**14,100**
SAIA-SB/SG31	SAIA-SB31-36	04/15/2014	FD	35	35	<180	<180	<180	<180	<180	<340	<180	<180	<180	**7,570**	**0.16 J**	**9.1**	**75.6**	**0.32 J**	<0.38	**4,260**	**7.9**	**5.7**	**8.2**	**13,000**
SAIA-SB/SG32	SAIA-SB32-0.5	04/15/2014	N	0.5	0.5	<180	<180	<180	<180	<180	<360	<180	<180	<180	**12,600**	**1.1 J**	**4.2**	**138**	**0.49**	**0.99**	**5,530**	**16.3**	**11.9**	**18.3**	**20,900**

Appendix E-1
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						Metals by E200.7 (in mg/kg)			Metals by E200.7 (in mg/kg)								Metals by C245_5 (in mg/kg)	PCBs by SW8082 (in ug/kg)				
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Mercury	PCB-1016 (Arochlor 1016)	PCB-1221 (Arochlor 1221)	PCB-1232 (Arochlor 1232)	PCB-1242 (Arochlor 1242)	PCB-1248 (Arochlor 1248)
SAIA-SB/SG28	SAIA-SB28-25	04/14/2014	N	25	25	**5.8**	**10,500**	**659**	**19.2**	**4,960**	**3 J**	<0.91	**1,020**	<2.3	**53.4**	**68.2**	<0.11	<40	<40	<40	<40	<40
SAIA-SB/SG28	SAIA-SB28-35	04/14/2014	N	35	35	**2.6**	**6,790**	**342**	**10.2**	**3,650**	**2.1 J**	<0.77	**577**	<1.9	**32.8**	**45.7**	<0.1	<35	<35	<35	<35	<35
SAIA-SB/SG29	SAIA-SB29-0.5	04/16/2014	N	0.5	0.5	**209**	**5,960**	**944**	**49.8**	**3,450**	**6**	**2.7**	**297 J**	<2	**84.1**	**441**	**0.041 J**	<35	<35	<35	<35	<35
SAIA-SB/SG29	SAIA-SB29-2	04/16/2014	N	2	2	**13.8 J**	**6,470**	**344**	**13.9**	**4,420**	**2.9**	<0.78	<388	<1.9	**47.3**	**75.3**	**0.023 J**	<36	<36	<36	<36	<36
SAIA-SB/SG29	SAIA-SB29-5	04/16/2014	N	5	5	**18.3 J**	**8,540**	**444**	**20.4**	**5,300**	**4.2**	**1**	<435	<2.2	**66.8**	**86.6**	**0.032 J**	<39	<39	<39	<39	<39
SAIA-SB/SG29	SAIA-SB29-6	04/16/2014	FD	5	5	**5.5 J**	**6,570**	**321**	**13.3**	**4,140**	**2.5 J**	<0.89	<446	<2.2	**46**	**54.4**	**0.082 J**	<40	<40	<40	<40	<40
SAIA-SB/SG29	SAIA-SB29-15	04/16/2014	N	15	15	**32.3**	**7,050**	**340**	**19.6**	**3,890**	**2.9**	**0.71 J**	**410**	<1.9	**54.2**	**110**	**0.037 J**	<37	<37	<37	<37	<37
SAIA-SB/SG29	SAIA-SB29-25	04/16/2014	N	25	25	**6**	**11,100**	**550**	**21.1**	**5,460**	**3 J**	**0.31 J**	**932**	<2.2	**63**	**77.4**	**0.066 J**	<40	<40	<40	<40	<40
SAIA-SB/SG29	SAIA-SB29-35	04/16/2014	N	35	35	**2.7**	**6,630**	**337**	**9.8**	**3,780**	**1.9 J**	**0.23 J**	**432**	<2	**35.2**	**46.2**	**0.015 J**	<35	<35	<35	<35	<35
SAIA-SB/SG30	SAIA-SB30-0.5	04/15/2014	N	0.5	0.5	**16.6**	**8,610**	**421**	**17.4**	**5,320**	**3.5**	<0.79	**428**	<2	**52.8**	**71.9**	**0.11**	<35	<35	<35	<35	<35
SAIA-SB/SG30	SAIA-SB30-2	04/15/2014	N	2	2	**14.9**	**8,360**	**397 J**	**16.3**	**4,960**	**2.6**	<0.75	**603**	<1.9	**45.6 J**	**64.9 J**	<0.11	<34	<34	<34	<34	<34
SAIA-SB/SG30	SAIA-SB30-5	04/15/2014	N	5	5	**11.9**	**7,900**	**345**	**15.3**	**4,700**	**2.3 J**	<0.73	**491**	<1.8	**42.8**	**62.8**	<0.09	<34	<34	<34	<34	<34
SAIA-SB/SG30	SAIA-SB30-15	04/15/2014	N	15	15	**6.5**	**9,850**	**440**	**20.2**	**5,030**	**2.8**	<0.78	**1,850**	<1.9	**55.7**	**72.9**	<0.095	<37	<37	<37	<37	<37
SAIA-SB/SG30	SAIA-SB30-25	04/15/2014	N	25	25	**6.4**	**10,800**	**570**	**23**	**5,170**	**2.9**	<0.8	**1,430**	<2	**54.8**	**77.9**	<0.1	<37	<37	<37	<37	<37
SAIA-SB/SG30	SAIA-SB30-35	04/15/2014	N	35	35	**2.3**	**4,990**	**233**	**7.6**	**2,620**	**1.8 J**	<0.77	**449**	<1.9	**27.9**	**34.9**	<0.094	<34	<34	<34	<34	<34
SAIA-SB/SG31	SAIA-SB31-0.5	04/15/2014	N	0.5	0.5	**47.6**	**7,420**	**352**	**14.3**	**4,970**	**2.3 J**	<0.82	**328 J**	<2.1	**39.3**	**68.7**	<0.1	<36	<36	<36	<36	<36
SAIA-SB/SG31	SAIA-SB31-2	04/15/2014	N	2	2	**9.9**	**7,670**	**353**	**14.8**	**5,060**	**2.1 J**	<0.82	**353 J**	<2.1	**40.4**	**59.6**	<0.097	<36	<36	<36	<36	<36
SAIA-SB/SG31	SAIA-SB31-5	04/15/2014	N	5	5	**6.3**	**7,820**	**368**	**15.1**	**4,120**	**2.3 J**	<0.85	**450**	<2.1	**44.5**	**59.1**	<0.11	<37	<37	<37	<37	<37
SAIA-SB/SG31	SAIA-SB31-15	04/15/2014	N	15	15	**8**	**10,100**	**393**	**20.5**	**4,780**	**2.9 J**	<0.88	**955**	<2.2	**57.9**	**74.9**	<0.11	<39	<39	<39	<39	<39
SAIA-SB/SG31	SAIA-SB31-25	04/15/2014	N	25	25	**12.4**	**13,300**	**581**	**33**	**4,940**	**3.5**	<0.95	**1,740**	<2.4	**76.8**	**94.4**	<0.11	<43	<43	<43	<43	<43
SAIA-SB/SG31	SAIA-SB31-35	04/15/2014	N	35	35	**2.1**	**4,560**	**221**	**7**	**2,400**	**1.4 J**	<0.78	**376 J**	<1.9	**24.3**	**33.7**	<0.09	<34	<34	<34	<34	<34
SAIA-SB/SG31	SAIA-SB31-36	04/15/2014	FD	35	35	**2.1**	**4,230**	**200**	**6.4**	**2,230**	**1.2 J**	<0.75	**371 J**	<1.9	**22.3**	**31.3**	<0.099	<34	<34	<34	<34	<34
SAIA-SB/SG32	SAIA-SB32-0.5	04/15/2014	N	0.5	0.5	**45.1**	**6,800**	**411**	**24.1**	**4,780**	**1.8 J**	<0.77	**272 J**	<1.9	**36.3**	**470**	<0.11	<36	<36	<36	<36	<36

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Analytical Results for Soil Samples
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Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	PCBs by SW8082 (in ug/kg)			
						PCB-1254 (Arochlor 1254)	PCB-1260 (Arochlor 1260)	PCB-1262 (Arochlor 1262)	PCB-1268 (Arochlor 1268)
SAIA-SB/SG28	SAIA-SB28-25	04/14/2014	N	25	25	<40	<40	<40	<40
SAIA-SB/SG28	SAIA-SB28-35	04/14/2014	N	35	35	<35	<35	<35	<35
SAIA-SB/SG29	SAIA-SB29-0.5	04/16/2014	N	0.5	0.5	**29 J**	**29 J**	<35	<35
SAIA-SB/SG29	SAIA-SB29-2	04/16/2014	N	2	2	<36	**10 J**	<36	<36
SAIA-SB/SG29	SAIA-SB29-5	04/16/2014	N	5	5	<39	**5.3 J**	<39	<39
SAIA-SB/SG29	SAIA-SB29-6	04/16/2014	FD	5	5	<40	**15 J**	<40	<40
SAIA-SB/SG29	SAIA-SB29-15	04/16/2014	N	15	15	**91**	**72**	<37	<37
SAIA-SB/SG29	SAIA-SB29-25	04/16/2014	N	25	25	<40	<40	<40	<40
SAIA-SB/SG29	SAIA-SB29-35	04/16/2014	N	35	35	<35	**390**	<35	<35
SAIA-SB/SG30	SAIA-SB30-0.5	04/15/2014	N	0.5	0.5	<35	<35	<35	<35
SAIA-SB/SG30	SAIA-SB30-2	04/15/2014	N	2	2	<34	<34	<34	<34
SAIA-SB/SG30	SAIA-SB30-5	04/15/2014	N	5	5	<34	<34	<34	<34
SAIA-SB/SG30	SAIA-SB30-15	04/15/2014	N	15	15	<37	<37	<37	<37
SAIA-SB/SG30	SAIA-SB30-25	04/15/2014	N	25	25	<37	<37	<37	<37
SAIA-SB/SG30	SAIA-SB30-35	04/15/2014	N	35	35	<34	<34	<34	<34
SAIA-SB/SG31	SAIA-SB31-0.5	04/15/2014	N	0.5	0.5	<36	<36	<36	<36
SAIA-SB/SG31	SAIA-SB31-2	04/15/2014	N	2	2	<36	<36	<36	<36
SAIA-SB/SG31	SAIA-SB31-5	04/15/2014	N	5	5	<37	<37	<37	<37
SAIA-SB/SG31	SAIA-SB31-15	04/15/2014	N	15	15	<39	<39	<39	<39
SAIA-SB/SG31	SAIA-SB31-25	04/15/2014	N	25	25	<43	<43	<43	<43
SAIA-SB/SG31	SAIA-SB31-35	04/15/2014	N	35	35	<34	<34	<34	<34
SAIA-SB/SG31	SAIA-SB31-36	04/15/2014	FD	35	35	<34	<34	<34	<34
SAIA-SB/SG32	SAIA-SB32-0.5	04/15/2014	N	0.5	0.5	**47 J**	**12 J**	<36	<36

Appendix E-1
Analytical Results for Soil Samples
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Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (in ug/kg)																				
						1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane (p-Dioxane)	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene
SAIA-SB/SG32	SAIA-SB32-2	04/15/2014	N	2	2	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<100	<10	<10	<10	<10	<5.1
SAIA-SB/SG32	SAIA-SB32-5	04/15/2014	N	5	5	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<120	<12	<12	<12	<12	<5.9
SAIA-SB/SG32	SAIA-SB32-15	04/15/2014	N	15	15	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<110	<11	<11	<11	<11	<5.3
SAIA-SB/SG32	SAIA-SB32-25	04/15/2014	N	25	25	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<110	<11	<11	<11	<11	<5.5
SAIA-SB/SG32	SAIA-SB32-35	04/15/2014	N	35	35	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<100	<10	<10	<10	<10	<5.1
SAIA-SB/SG33	SAIA-SB33-0.5	04/15/2014	N	0.5	0.5	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<110	<11	<11	<11	<11	<5.6
SAIA-SB/SG33	SAIA-SB33-2	04/15/2014	N	2	2	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<110	<11	<11	<11	<11	<5.5
SAIA-SB/SG33	SAIA-SB33-5	04/15/2014	N	5	5	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<110	<11	<11	<11	<11	<5.6
SAIA-SB/SG33	SAIA-SB33-15	04/15/2014	N	15	15	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<110	<11	<11	<11	<11	<5.3
SAIA-SB/SG33	SAIA-SB33-25	04/15/2014	N	25	25	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<130	<13	<13	<13	<13	<6.4
SAIA-SB/SG33	SAIA-SB33-35	04/15/2014	N	35	35	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<100	<10	<10	<10	<10	<5.1
SAIA-SB/SG34	SAIA-SB34-0.5	04/15/2014	N	0.5	0.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<99	<9.9	<9.9	<9.9	<9.9	<5
SAIA-SB/SG34	SAIA-SB34-2	04/15/2014	N	2	2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<120	<12	<12	<12	<12	<6.2
SAIA-SB/SG34	SAIA-SB34-5	04/15/2014	N	5	5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<110	<11	<11	<11	<11	<5.5
SAIA-SB/SG34	SAIA-SB34-15	04/15/2014	N	15	15	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<100	<10	<10	<10	<10	<5.1
SAIA-SB/SG34	SAIA-SB34-16	04/15/2014	FD	15	15	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<110	<11	<11	<11	<11	<5.6
SAIA-SB/SG34	SAIA-SB34-25	04/15/2014	N	25	25	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<120	<12	<12	<12	<12	<6.1
SAIA-SB/SG34	SAIA-SB34-35	04/15/2014	N	35	35	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<110	<11	<11	<11	<11	<5.4
SAIA-SB/SG35	SAIA-SB35-0.5	04/18/2014	N	0.5	0.5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<110	<11	<11	<11	<11	<5.4
SAIA-SB/SG35	SAIA-SB35-2	04/18/2014	N	2	2	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<100	<10	<10	<10	<10	<5.1
SAIA-SB/SG35	SAIA-SB35-3	04/18/2014	FD	2	2	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<110	<11	<11	<11	<11	<5.7
SAIA-SB/SG35	SAIA-SB35-5	04/18/2014	N	5	5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<110	<11	<11	<11	<11	<5.7
SAIA-SB/SG35	SAIA-SB35-15	04/18/2014	N	15	15	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<120	<12	<12	<12	<12	<6.2

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (in ug/kg)																							
						Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene (Cumene)	m,p-Xylene	Methyl Acetate	Methylcyclohexane	Methylene Chloride	o-Xylene	Styrene	tert-Butyl Methyl Ether (MTBE)
SAIA-SB/SG32	SAIA-SB32-2	04/15/2014	N	2	2	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG32	SAIA-SB32-5	04/15/2014	N	5	5	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG32	SAIA-SB32-15	04/15/2014	N	15	15	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	**13**	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG32	SAIA-SB32-25	04/15/2014	N	25	25	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG32	SAIA-SB32-35	04/15/2014	N	35	35	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG33	SAIA-SB33-0.5	04/15/2014	N	0.5	0.5	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG33	SAIA-SB33-2	04/15/2014	N	2	2	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG33	SAIA-SB33-5	04/15/2014	N	5	5	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	**7.6 J**	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG33	SAIA-SB33-15	04/15/2014	N	15	15	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG33	SAIA-SB33-25	04/15/2014	N	25	25	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
SAIA-SB/SG33	SAIA-SB33-35	04/15/2014	N	35	35	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	**10 J**	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG34	SAIA-SB34-0.5	04/15/2014	N	0.5	0.5	<5	<5	<5	<5	<5	<5	<5	<5	**8.7**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-SB/SG34	SAIA-SB34-2	04/15/2014	N	2	2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG34	SAIA-SB34-5	04/15/2014	N	5	5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG34	SAIA-SB34-15	04/15/2014	N	15	15	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG34	SAIA-SB34-16	04/15/2014	FD	15	15	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG34	SAIA-SB34-25	04/15/2014	N	25	25	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG34	SAIA-SB34-35	04/15/2014	N	35	35	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG35	SAIA-SB35-0.5	04/18/2014	N	0.5	0.5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG35	SAIA-SB35-2	04/18/2014	N	2	2	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG35	SAIA-SB35-3	04/18/2014	FD	2	2	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7
SAIA-SB/SG35	SAIA-SB35-5	04/18/2014	N	5	5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7
SAIA-SB/SG35	SAIA-SB35-15	04/18/2014	N	15	15	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Volatiles (ug/kg)							Semivolatiles (in ug/kg)															
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	1,2,4,5-Tetrachlorobenzene	1,4-Dioxane (p-Dioxane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol
SAIA-SB/SG32	SAIA-SB32-2	04/15/2014	N	2	2	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<180	--	<180	<180	<180	<180	<180	<360	<180	<180	<180	<180	<180	<180	<360	<180
SAIA-SB/SG32	SAIA-SB32-5	04/15/2014	N	5	5	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<210	--	<210	<210	<210	<210	<210	<400	<210	<210	<210	<210	<210	<210	<400	<210
SAIA-SB/SG32	SAIA-SB32-15	04/15/2014	N	15	15	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG32	SAIA-SB32-25	04/15/2014	N	25	25	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<200	--	<200	<200	<200	<200	<200	<400	<200	<200	<200	<200	<200	<200	<400	<200
SAIA-SB/SG32	SAIA-SB32-35	04/15/2014	N	35	35	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG33	SAIA-SB33-0.5	04/15/2014	N	0.5	0.5	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<180	--	<180	<180	<180	<180	<180	<360	<180	<180	<180	<180	<180	<180	<360	<180
SAIA-SB/SG33	SAIA-SB33-2	04/15/2014	N	2	2	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<180	--	<180	<180	<180	<180	<180	<360	<180	<180	<180	<180	<180	<180	<360	<180
SAIA-SB/SG33	SAIA-SB33-5	04/15/2014	N	5	5	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<190	--	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	<190	<190	<370	<190
SAIA-SB/SG33	SAIA-SB33-15	04/15/2014	N	15	15	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<190	--	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	<190	<190	<370	<190
SAIA-SB/SG33	SAIA-SB33-25	04/15/2014	N	25	25	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<210	--	<210	<210	<210	<210	<210	<400	<210	<210	<210	<210	**590**	<210	<400	<210
SAIA-SB/SG33	SAIA-SB33-35	04/15/2014	N	35	35	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG34	SAIA-SB34-0.5	04/15/2014	N	0.5	0.5	<5	<5	<5	<5	<5	<5	<5	<170	--	<170	<170	<170	<170	<170	<340	<170	<170	<170	<170	<170	<170	<340	<170
SAIA-SB/SG34	SAIA-SB34-2	04/15/2014	N	2	2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<170	--	<170	<170	<170	<170	<170	<340	<170	<170	<170	<170	<170	<170	<340	<170
SAIA-SB/SG34	SAIA-SB34-5	04/15/2014	N	5	5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<170	--	<170	<170	<170	<170	<170	<340	<170	<170	<170	<170	<170	<170	<340	<170
SAIA-SB/SG34	SAIA-SB34-15	04/15/2014	N	15	15	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG34	SAIA-SB34-16	04/15/2014	FD	15	15	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<190	--	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	<190	<190	<370	<190
SAIA-SB/SG34	SAIA-SB34-25	04/15/2014	N	25	25	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<210	--	<210	<210	<210	<210	<210	<410	<210	<210	<210	<210	<210	<210	<410	<210
SAIA-SB/SG34	SAIA-SB34-35	04/15/2014	N	35	35	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<170	--	<170	<170	<170	<170	<170	<340	<170	<170	<170	<170	<170	<170	<340	<170
SAIA-SB/SG35	SAIA-SB35-0.5	04/18/2014	N	0.5	0.5	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG35	SAIA-SB35-2	04/18/2014	N	2	2	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG35	SAIA-SB35-3	04/18/2014	FD	2	2	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<190	--	<190	<190	<190	<190	<190	<360	<190	<190	<190	<190	<190	<190	<360	<190
SAIA-SB/SG35	SAIA-SB35-5	04/18/2014	N	5	5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG35	SAIA-SB35-15	04/18/2014	N	15	15	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<190	--	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	<190	<190	<370	<190

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Semivolatile (ug/kg)																			
						3,3'-Dichlorobenzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl phenyl ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl Phenyl Ether	4-Methylphenol (p-Cresol)	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzaldehyde	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
SAIA-SB/SG32	SAIA-SB32-2	04/15/2014	N	2	2	<180	<360	<360	<180	<180	<180	<180	<180	<360	<360	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG32	SAIA-SB32-5	04/15/2014	N	5	5	<210	<400	<400	<210	<210	<210	<210	<210	<400	<400	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG32	SAIA-SB32-15	04/15/2014	N	15	15	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG32	SAIA-SB32-25	04/15/2014	N	25	25	<200	<400	<400	<200	<200	<200	<200	<200	<400	<400	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG32	SAIA-SB32-35	04/15/2014	N	35	35	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG33	SAIA-SB33-0.5	04/15/2014	N	0.5	0.5	<180	<360	<360	<180	<180	<180	<180	<180	<360	<360	<180	<180	<180	<180	<180	<180	<180	**88 J**	<180	<180
SAIA-SB/SG33	SAIA-SB33-2	04/15/2014	N	2	2	<180	<360	<360	<180	<180	<180	<180	<180	<360	<360	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG33	SAIA-SB33-5	04/15/2014	N	5	5	<190	<370	<370	<190	<190	<190	<190	<190	<370	<370	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG33	SAIA-SB33-15	04/15/2014	N	15	15	<190	<370	<370	<190	<190	<190	<190	<190	<370	<370	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG33	SAIA-SB33-25	04/15/2014	N	25	25	<210	<400	<400	<210	<210	<210	<210	<210	<400	<400	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG33	SAIA-SB33-35	04/15/2014	N	35	35	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG34	SAIA-SB34-0.5	04/15/2014	N	0.5	0.5	<170	<340	<340	<170	<170	<170	<170	<170	<340	<340	<170	<170	<170	<170	<170	<170	<170	**81 J**	<170	<170
SAIA-SB/SG34	SAIA-SB34-2	04/15/2014	N	2	2	<170	<340	<340	<170	<170	<170	<170	<170	<340	<340	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG34	SAIA-SB34-5	04/15/2014	N	5	5	<170	<340	<340	<170	<170	<170	<170	<170	<340	<340	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG34	SAIA-SB34-15	04/15/2014	N	15	15	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG34	SAIA-SB34-16	04/15/2014	FD	15	15	<190	<370	<370	<190	<190	<190	<190	<190	<370	<370	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG34	SAIA-SB34-25	04/15/2014	N	25	25	<210	<410	<410	<210	<210	<210	<210	<210	<410	<410	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG34	SAIA-SB34-35	04/15/2014	N	35	35	<170	<340	<340	<170	<170	<170	<170	<170	<340	<340	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG35	SAIA-SB35-0.5	04/18/2014	N	0.5	0.5	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG35	SAIA-SB35-2	04/18/2014	N	2	2	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG35	SAIA-SB35-3	04/18/2014	FD	2	2	<190	<360	<360	<190	<190	<190	<190	<190	<360	<360	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG35	SAIA-SB35-5	04/18/2014	N	5	5	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG35	SAIA-SB35-15	04/18/2014	N	15	15	<190	<370	<370	<190	<190	<190	<190	<190	<370	<370	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Semivolatiles (in ug/kg)																					
						Benzo(k)fluoranthene	Benzyl butyl phthalate	Biphenyl (Diphenyl)	bis(2-Chloroethoxy) Methane	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	bis(2-Chloroisopropyl) Ether	bis(2-Ethylhexyl) Phthalate	Caprolactam	Carbazole	Chrysene	Di-n-Butyl Phthalate	Di-n-Octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Phthalate	Dimethyl Phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-c,d)pyrene
SAIA-SB/SG32	SAIA-SB32-2	04/15/2014	N	2	2	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG32	SAIA-SB32-5	04/15/2014	N	5	5	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG32	SAIA-SB32-15	04/15/2014	N	15	15	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG32	SAIA-SB32-25	04/15/2014	N	25	25	<200	<200	<200	<200	<200	<200	**340**	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG32	SAIA-SB32-35	04/15/2014	N	35	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG33	SAIA-SB33-0.5	04/15/2014	N	0.5	0.5	**80 J**	<180	<180	<180	<180	<180	<180	<180	<180	**110 J**	<180	<180	<180	<180	<180	<180	**80 J**	<180	<180	<180	<180	<180
SAIA-SB/SG33	SAIA-SB33-2	04/15/2014	N	2	2	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG33	SAIA-SB33-5	04/15/2014	N	5	5	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG33	SAIA-SB33-15	04/15/2014	N	15	15	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG33	SAIA-SB33-25	04/15/2014	N	25	25	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG33	SAIA-SB33-35	04/15/2014	N	35	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG34	SAIA-SB34-0.5	04/15/2014	N	0.5	0.5	**73 J**	<170	<170	<170	<170	<170	<170	<170	<170	**100 J**	<170	<170	<170	<170	<170	<170	**71 J**	<170	<170	<170	<170	<170
SAIA-SB/SG34	SAIA-SB34-2	04/15/2014	N	2	2	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG34	SAIA-SB34-5	04/15/2014	N	5	5	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG34	SAIA-SB34-15	04/15/2014	N	15	15	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG34	SAIA-SB34-16	04/15/2014	FD	15	15	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG34	SAIA-SB34-25	04/15/2014	N	25	25	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG34	SAIA-SB34-35	04/15/2014	N	35	35	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170	<170
SAIA-SB/SG35	SAIA-SB35-0.5	04/18/2014	N	0.5	0.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG35	SAIA-SB35-2	04/18/2014	N	2	2	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG35	SAIA-SB35-3	04/18/2014	FD	2	2	<190	<190	<190	<190	<190	<190	**87 J**	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB/SG35	SAIA-SB35-5	04/18/2014	N	5	5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG35	SAIA-SB35-15	04/18/2014	N	15	15	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Semivolatiles (in ug/kg)									Metals by E200.7 (in mg/kg)									
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Isophorone	Naphthalene	Nitrobenzene	n-Nitrosodi-n-propylamine	n-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron
SAIA-SB/SG32	SAIA-SB32-2	04/15/2014	N	2	2	<180	<180	<180	<180	<180	<360	<180	<180	<180	**11,600**	**0.2 J**	**3.7**	**114**	**0.43**	<0.38	**6,060**	**14.3**	**9.2**	**13.8**	**19,500**
SAIA-SB/SG32	SAIA-SB32-5	04/15/2014	N	5	5	<210	<210	<210	<210	<210	<400	<210	<210	<210	**18,600**	**0.34 J**	**4.3**	**181**	**0.74**	<0.44	**10,500**	**22.9**	**14.5**	**24**	**28,300**
SAIA-SB/SG32	SAIA-SB32-15	04/15/2014	N	15	15	<180	<180	<180	<180	<180	<350	<180	<180	<180	**15,600**	<4.7	**3.1**	**146**	**0.66**	<0.39	**7,340**	**22**	**12.2**	**20.9**	**24,800**
SAIA-SB/SG32	SAIA-SB32-25	04/15/2014	N	25	25	<200	<200	<200	<200	<200	<400	<200	<200	<200	**20,700**	<5.2	**5.7**	**211**	**0.85**	<0.43	**11,600**	**28.4**	**16.9**	**34.6**	**30,800**
SAIA-SB/SG32	SAIA-SB32-35	04/15/2014	N	35	35	<180	<180	<180	<180	<180	<350	<180	<180	<180	**7,840**	<4.4	**8.9**	**73.8**	<0.37	<0.37	**4,340**	**10.2**	**6.7**	**9.4**	**15,500**
SAIA-SB/SG33	SAIA-SB33-0.5	04/15/2014	N	0.5	0.5	<180	<180	<180	<180	<180	<360	<180	<180	**94 J**	**10,500**	<4.7	**3.3**	**115**	**0.41**	<0.39	**6,050**	**15.3**	**8.7**	**25.8**	**20,300**
SAIA-SB/SG33	SAIA-SB33-2	04/15/2014	N	2	2	<180	<180	<180	<180	<180	<360	<180	<180	<180	**10,600**	<4.4	**2.8**	**111**	**0.42**	<0.36	**6,450**	**14.4**	**8.6**	**14.9**	**18,700**
SAIA-SB/SG33	SAIA-SB33-5	04/15/2014	N	5	5	<190	<190	<190	<190	<190	<370	<190	<190	<190	**18,000**	<4.5	**3.9**	**178**	**0.73**	<0.37	**9,800**	**22.3**	**14.1 J**	**22.7**	**27,500**
SAIA-SB/SG33	SAIA-SB33-15	04/15/2014	N	15	15	<190	<190	<190	<190	<190	<370	<190	<190	<190	**13,900**	<4.6	**2.8**	**128**	**0.57**	<0.38	**6,640**	**18.6**	**11.1**	**17.6**	**23,400**
SAIA-SB/SG33	SAIA-SB33-25	04/15/2014	N	25	25	<210	**150 J**	<210	<210	<210	<400	<210	<210	<210	**25,000**	<5.3	**10.3**	**239**	**1.1**	<0.44	**14,400**	**33.9**	**19.8**	**43.8**	**35,600**
SAIA-SB/SG33	SAIA-SB33-35	04/15/2014	N	35	35	<180	<180	<180	<180	<180	<350	<180	<180	<180	**9,910**	<4.8	**10.1**	**101**	<0.4	<0.4	**8,470**	**12**	**8.2**	**11.9**	**17,100**
SAIA-SB/SG34	SAIA-SB34-0.5	04/15/2014	N	0.5	0.5	<170	<170	<170	<170	<170	<340	<170	<170	**81 J**	**9,600**	**10**	**12.1**	**156**	**0.88**	<0.39	**14,300**	**1,020**	**16.3**	**212**	**55,400**
SAIA-SB/SG34	SAIA-SB34-2	04/15/2014	N	2	2	<170	<170	<170	<170	<170	<340	<170	<170	<170	**11,600**	<4.2	**3**	**118**	**0.44**	<0.35	**7,910**	**17.5**	**9.9**	**18.9**	**21,300**
SAIA-SB/SG34	SAIA-SB34-5	04/15/2014	N	5	5	<170	<170	<170	<170	<170	<340	<170	<170	<170	**17,100**	<4.8	**3.5**	**174**	**0.69**	<0.4	**8,390**	**22.4**	**13.8**	**22.1**	**28,100**
SAIA-SB/SG34	SAIA-SB34-15	04/15/2014	N	15	15	<180	<180	<180	<180	<180	<350	<180	<180	<180	**12,100**	<4.7	**3.4**	**111**	**0.52**	<0.39	**20,200**	**16.4**	**9.6**	**14**	**21,200**
SAIA-SB/SG34	SAIA-SB34-16	04/15/2014	FD	15	15	<190	<190	<190	<190	<190	<370	<190	<190	<190	**13,900**	<4.4	**3.7**	**129**	**0.58**	<0.37	**12,300**	**18.8**	**11.3**	**16.2**	**23,200**
SAIA-SB/SG34	SAIA-SB34-25	04/15/2014	N	25	25	<210	<210	<210	<210	<210	<410	<210	<210	<210	**28,800**	<5.7	**10.7**	**240**	**1.3**	<0.47	**15,500**	**36.1**	**24.6**	**55.2**	**41,900**
SAIA-SB/SG34	SAIA-SB34-35	04/15/2014	N	35	35	<170	<170	<170	<170	<170	<340	<170	<170	<170	**7,760**	**19.1**	<0.71	**73.8**	**0.36**	**0.28 J**	**3,730**	**9.3**	**4.4**	**8**	**13,700**
SAIA-SB/SG35	SAIA-SB35-0.5	04/18/2014	N	0.5	0.5	<180	<180	<180	<180	<180	<350	<180	<180	<180	**14,400**	**0.92 J**	**2.8**	**151**	**0.51**	**0.29 J**	**8,030**	**19.5**	**10.7**	**20.5**	**24,700**
SAIA-SB/SG35	SAIA-SB35-2	04/18/2014	N	2	2	<180	<180	<180	<180	<180	<350	<180	<180	<180	**13,100**	**0.69 J**	**2.6**	**131**	**0.45**	**0.21 J**	**7,280**	**17.7**	**9.3**	**19.7**	**22,100**
SAIA-SB/SG35	SAIA-SB35-3	04/18/2014	FD	2	2	<190	<190	<190	<190	<190	<360	<190	<190	<190	**14,400**	**0.69 J**	**2.6**	**143**	**0.51**	**0.22 J**	**7,960**	**19.3**	**10.2**	**18.3**	**24,200**
SAIA-SB/SG35	SAIA-SB35-5	04/18/2014	N	5	5	<180	<180	<180	<180	<180	<350	<180	<180	<180	**14,300**	**0.65 J**	**2.8**	**127**	**0.55**	**0.18 J**	**7,930**	**17.5**	**9.4**	**17.5**	**23,000**
SAIA-SB/SG35	SAIA-SB35-15	04/18/2014	N	15	15	<190	<190	<190	<190	<190	<370	<190	<190	<190	**14,100**	**0.59 J**	**2.9**	**136**	**0.5**	**0.17 J**	**6,660**	**18.3**	**10**	**15.6**	**24,400**

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Metals by E200.7 (in mg/kg)			Metals by E200.7 (in mg/kg)								Metals by C245_5 (in mg/kg)	PCBs by SW8082 (in ug/kg)				
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Mercury	PCB-1016 (Arochlor 1016)	PCB-1221 (Arochlor 1221)	PCB-1232 (Arochlor 1232)	PCB-1242 (Arochlor 1242)	PCB-1248 (Arochlor 1248)
SAIA-SB/SG32	SAIA-SB32-2	04/15/2014	N	2	2	**5.1**	**6,180**	**285**	**11.9**	**4,100**	**1.9 J**	<0.76	**281 J**	<1.9	**35.6**	**54.5**	<0.096	<36	<36	<36	<36	<36
SAIA-SB/SG32	SAIA-SB32-5	04/15/2014	N	5	5	**6.7**	**10,200**	**461**	**19.6**	**5,920**	**2.6 J**	<0.88	**492**	<2.2	**50.8**	**85.3**	<0.1	<40	<40	<40	<40	<40
SAIA-SB/SG32	SAIA-SB32-15	04/15/2014	N	15	15	**4.8**	**8,140**	**323**	**15.8**	**4,260**	**2.8**	<0.79	**783**	<2	**47**	**60.4**	**0.031 J**	<35	<35	<35	<35	<35
SAIA-SB/SG32	SAIA-SB32-25	04/15/2014	N	25	25	**7.3**	**10,700**	**508**	**25.1**	**4,560**	**3.2**	<0.86	**1,220**	<2.2	**53.7**	**75.5**	**0.12**	<40	<40	<40	<40	<40
SAIA-SB/SG32	SAIA-SB32-35	04/15/2014	N	35	35	**2**	**4,540**	**224**	**7.1**	**2,440**	**1.9 J**	<0.73	**325 J**	<1.8	**28.7**	**33.2**	**0.032 J**	<35	<35	<35	<35	<35
SAIA-SB/SG33	SAIA-SB33-0.5	04/15/2014	N	0.5	0.5	**59**	**5,710**	**323**	**12.4**	**4,000**	**2.3 J**	<0.79	**337 J**	<2	**34.4**	**103**	**0.017 J**	<36	<36	<36	<36	<36
SAIA-SB/SG33	SAIA-SB33-2	04/15/2014	N	2	2	**12.5**	**5,910**	**291**	**11**	**4,090**	**2 J**	<0.73	**286 J**	<1.8	**34**	**56**	**0.021 J**	<36	<36	<36	<36	<36
SAIA-SB/SG33	SAIA-SB33-5	04/15/2014	N	5	5	**5.1 J**	**10,000**	**460**	**18 J**	**5,560**	**3.2**	<0.74	**531**	<1.9	**50.5**	**72.7**	**0.041 J**	<37	<37	<37	<37	<37
SAIA-SB/SG33	SAIA-SB33-15	04/15/2014	N	15	15	**4.1**	**8,030**	**323**	**14.5**	**4,450**	**2.6 J**	<0.77	**462**	<1.9	**44.2**	**57.9**	**0.026 J**	<37	<37	<37	<37	<37
SAIA-SB/SG33	SAIA-SB33-25	04/15/2014	N	25	25	**11.1**	**12,200**	**596**	**29.5**	**4,970**	**3.9**	<0.88	**1,460**	<2.2	**64.9**	**84.9**	**0.1 J**	<40	<40	<40	<40	<40
SAIA-SB/SG33	SAIA-SB33-35	04/15/2014	N	35	35	**2**	**6,260**	**291**	**9**	**3,540**	**2.3 J**	<0.8	**502**	<2	**30.6**	**43.5**	**0.027 J**	<34	<34	<34	<34	<34
SAIA-SB/SG34	SAIA-SB34-0.5	04/15/2014	N	0.5	0.5	**184**	**2,460**	**1,920**	**585**	**1,470**	**5.9**	<0.77	**566**	**0.36 J**	**39.6**	**268**	**0.016 J**	<34	<34	<34	<34	<34
SAIA-SB/SG34	SAIA-SB34-2	04/15/2014	N	2	2	**22.1**	**6,360**	**350**	**13.4**	**4,600**	**2.4**	<0.7	**277 J**	<1.7	**38**	**70.2**	**0.025 J**	<34	<34	<34	<34	<34
SAIA-SB/SG34	SAIA-SB34-5	04/15/2014	N	5	5	**8.6**	**9,820**	**475**	**18.1**	**7,750**	**3.2**	<0.81	**338 J**	<2	**51.6**	**80.8**	**0.024 J**	<34	<34	<34	<34	<34
SAIA-SB/SG34	SAIA-SB34-15	04/15/2014	N	15	15	**3.1**	**7,370**	**343**	**12.6**	**3,690**	**2.5 J**	<0.79	**1,170**	<2	**40.9**	**49.9**	**0.027 J**	<35	<35	<35	<35	<35
SAIA-SB/SG34	SAIA-SB34-16	04/15/2014	FD	15	15	**3.6**	**7,960**	**344**	**15**	**4,070**	**2.9**	<0.73	**1,360**	<1.8	**44.9**	**56.1**	**0.027 J**	<37	<37	<37	<37	<37
SAIA-SB/SG34	SAIA-SB34-25	04/15/2014	N	25	25	**13.9**	**13,500**	**751**	**36.1**	**4,560**	**4.5**	<0.95	**2,200**	<2.4	**79.3**	**92.2**	**0.02 J**	<41	<41	<41	<41	<41
SAIA-SB/SG34	SAIA-SB34-35	04/15/2014	N	35	35	<0.71	**4,410**	**214**	**8.7**	**2,510**	**11.3**	<0.71	**407**	**26.2**	**24.2**	**31**	**0.066 J**	<34	<34	<34	<34	<34
SAIA-SB/SG35	SAIA-SB35-0.5	04/18/2014	N	0.5	0.5	**16.2**	**7,760**	**385**	**15**	**5,330**	**3.7**	<0.76	**324 J**	<1.9	**45.3**	**79.7**	<0.1	<35	<35	<35	<35	<35
SAIA-SB/SG35	SAIA-SB35-2	04/18/2014	N	2	2	**6.5**	**6,830**	**330**	**13.3**	**4,570**	**3.4**	<0.78	**299 J**	<1.9	**41.6**	**52.3**	<0.11	<35	<35	<35	<35	<35
SAIA-SB/SG35	SAIA-SB35-3	04/18/2014	FD	2	2	**5.4**	**7,560**	**361**	**14.2**	**5,110**	**3.8**	<0.84	**334 J**	<2.1	**44.5**	**59**	<0.1	<36	<36	<36	<36	<36
SAIA-SB/SG35	SAIA-SB35-5	04/18/2014	N	5	5	**4.4**	**7,130**	**354**	**12.9**	**4,050**	**3.3**	<0.83	**388 J**	<2.1	**44.7**	**51.5**	<0.1	<35	<35	<35	<35	<35
SAIA-SB/SG35	SAIA-SB35-15	04/18/2014	N	15	15	**3.3**	**8,260**	**330**	**12.9**	**4,480**	**3.7**	<0.77	**1,270**	<1.9	**49.2**	**53.6**	<0.095	<37	<37	<37	<37	<37

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	PCBs by SW8082 (in ug/kg)			
						PCB-1254 (Arochlor 1254)	PCB-1260 (Arochlor 1260)	PCB-1262 (Arochlor 1262)	PCB-1268 (Arochlor 1268)
SAIA-SB/SG32	SAIA-SB32-2	04/15/2014	N	2	2	**49 J**	**12 J**	<36	<36
SAIA-SB/SG32	SAIA-SB32-5	04/15/2014	N	5	5	**16 J**	<40	<40	<40
SAIA-SB/SG32	SAIA-SB32-15	04/15/2014	N	15	15	**20 J**	<35	<35	<35
SAIA-SB/SG32	SAIA-SB32-25	04/15/2014	N	25	25	<40	<40	<40	<40
SAIA-SB/SG32	SAIA-SB32-35	04/15/2014	N	35	35	<35	<35	<35	<35
SAIA-SB/SG33	SAIA-SB33-0.5	04/15/2014	N	0.5	0.5	<36	<36	<36	<36
SAIA-SB/SG33	SAIA-SB33-2	04/15/2014	N	2	2	<36	<36	<36	<36
SAIA-SB/SG33	SAIA-SB33-5	04/15/2014	N	5	5	<37	<37	<37	<37
SAIA-SB/SG33	SAIA-SB33-15	04/15/2014	N	15	15	<37	<37	<37	<37
SAIA-SB/SG33	SAIA-SB33-25	04/15/2014	N	25	25	<40	<40	<40	<40
SAIA-SB/SG33	SAIA-SB33-35	04/15/2014	N	35	35	<34	<34	<34	<34
SAIA-SB/SG34	SAIA-SB34-0.5	04/15/2014	N	0.5	0.5	<34	<34	<34	<34
SAIA-SB/SG34	SAIA-SB34-2	04/15/2014	N	2	2	<34	<34	<34	<34
SAIA-SB/SG34	SAIA-SB34-5	04/15/2014	N	5	5	<34	<34	<34	<34
SAIA-SB/SG34	SAIA-SB34-15	04/15/2014	N	15	15	<35	<35	<35	<35
SAIA-SB/SG34	SAIA-SB34-16	04/15/2014	FD	15	15	<37	<37	<37	<37
SAIA-SB/SG34	SAIA-SB34-25	04/15/2014	N	25	25	<41	<41	<41	<41
SAIA-SB/SG34	SAIA-SB34-35	04/15/2014	N	35	35	<34	<34	<34	<34
SAIA-SB/SG35	SAIA-SB35-0.5	04/18/2014	N	0.5	0.5	<35	<35	<35	<35
SAIA-SB/SG35	SAIA-SB35-2	04/18/2014	N	2	2	<35	<35	<35	<35
SAIA-SB/SG35	SAIA-SB35-3	04/18/2014	FD	2	2	<36	<36	<36	<36
SAIA-SB/SG35	SAIA-SB35-5	04/18/2014	N	5	5	<35	<35	<35	<35
SAIA-SB/SG35	SAIA-SB35-15	04/18/2014	N	15	15	<37	<37	<37	<37

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (in ug/kg)																				
						1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane (p-Dioxane)	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene
SAIA-SB/SG35	SAIA-SB35-25	04/18/2014	N	25	25	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<130	<13	<13	<13	<13	<6.4
SAIA-SB/SG35	SAIA-SB35-35	04/18/2014	N	35	35	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<110	<11	<11	<11	<11	<5.3
SAIA-SB/SG36	SAIA-SB36-0.5	04/17/2014	N	0.5	0.5	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<120	<12	<12	<12	<12	<5.8
SAIA-SB/SG36	SAIA-SB36-2	04/17/2014	N	2	2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<10	<10	<10	<10	<5
SAIA-SB/SG36	SAIA-SB36-5	04/17/2014	N	5	5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<110	<11	<11	<11	<11	<5.5
SAIA-SB/SG36	SAIA-SB36-15	04/17/2014	N	15	15	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<130	<13	<13	<13	<13	<6.4
SAIA-SB/SG36	SAIA-SB36-25	04/17/2014	N	25	25	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<130	<13	<13	<13	<13	<6.7
SAIA-SB/SG36	SAIA-SB36-26	04/17/2014	FD	25	25	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<130	<13	<13	<13	<13	<6.5
SAIA-SB/SG36	SAIA-SB36-35	04/17/2014	N	35	35	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<120	<12	<12	<12	<12	<6.1
SAIA-SB/SG37	SAIA-SB37-0.5	04/17/2014	N	0.5	0.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<99	<9.9	<9.9	<9.9	<9.9	<5
SAIA-SB/SG37	SAIA-SB37-2	04/17/2014	N	2	2	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<110	<11	<11	<11	<11	<5.6
SAIA-SB/SG37	SAIA-SB37-5	04/17/2014	N	5	5	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<120	<12	<12	<12	<12	<6.2
SAIA-SB/SG37	SAIA-SB37-6	04/17/2014	FD	5	5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<100	<10	<10	<10	<10	<5.1
SAIA-SB/SG37	SAIA-SB37-15	04/17/2014	N	15	15	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<130	<13	<13	<13	<13	<6.6
SAIA-SB/SG37	SAIA-SB37-25	04/17/2014	N	25	25	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<130	<13	<13	<13	<13	<6.7
SAIA-SB/SG37	SAIA-SB37-35	04/17/2014	N	35	35	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<100	<10	<10	<10	<10	<5.1
SAIA-SB/SG38	SAIA-SB38-0.5	04/17/2014	N	0.5	0.5	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<130	<13	<13	<13	<13	<6.4
SAIA-SB/SG38	SAIA-SB38-2	04/17/2014	N	2	2	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<100	<10	<10	<10	<10	<5.1
SAIA-SB/SG38	SAIA-SB38-5	04/17/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG38	SAIA-SB38-15	04/17/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG38	SAIA-SB38-25	04/17/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG38	SAIA-SB38-35	04/17/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-0.5	04/17/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (in ug/kg)																							
						Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene (Cumene)	m,p-Xylene	Methyl Acetate	Methylcyclohexane	Methylene Chloride	o-Xylene	Styrene	tert-Butyl Methyl Ether (MTBE)
SAIA-SB/SG35	SAIA-SB35-25	04/18/2014	N	25	25	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
SAIA-SB/SG35	SAIA-SB35-35	04/18/2014	N	35	35	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3
SAIA-SB/SG36	SAIA-SB36-0.5	04/17/2014	N	0.5	0.5	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8
SAIA-SB/SG36	SAIA-SB36-2	04/17/2014	N	2	2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-SB/SG36	SAIA-SB36-5	04/17/2014	N	5	5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG36	SAIA-SB36-15	04/17/2014	N	15	15	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
SAIA-SB/SG36	SAIA-SB36-25	04/17/2014	N	25	25	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7
SAIA-SB/SG36	SAIA-SB36-26	04/17/2014	FD	25	25	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5
SAIA-SB/SG36	SAIA-SB36-35	04/17/2014	N	35	35	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG37	SAIA-SB37-0.5	04/17/2014	N	0.5	0.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-SB/SG37	SAIA-SB37-2	04/17/2014	N	2	2	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB/SG37	SAIA-SB37-5	04/17/2014	N	5	5	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG37	SAIA-SB37-6	04/17/2014	FD	5	5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG37	SAIA-SB37-15	04/17/2014	N	15	15	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6
SAIA-SB/SG37	SAIA-SB37-25	04/17/2014	N	25	25	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7
SAIA-SB/SG37	SAIA-SB37-35	04/17/2014	N	35	35	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG38	SAIA-SB38-0.5	04/17/2014	N	0.5	0.5	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4
SAIA-SB/SG38	SAIA-SB38-2	04/17/2014	N	2	2	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1
SAIA-SB/SG38	SAIA-SB38-5	04/17/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG38	SAIA-SB38-15	04/17/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG38	SAIA-SB38-25	04/17/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG38	SAIA-SB38-35	04/17/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-0.5	04/17/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Volatiles (ug/kg)							Semivolatiles (in ug/kg)															
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	1,2,4,5-Tetrachlorobenzene	1,4-Dioxane (p-Dioxane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol
SAIA-SB/SG35	SAIA-SB35-25	04/18/2014	N	25	25	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<200	--	<200	<200	<200	<200	<200	<380	<200	<200	<200	<200	<200	<200	<380	<200
SAIA-SB/SG35	SAIA-SB35-35	04/18/2014	N	35	35	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<180	--	<180	<180	<180	<180	<180	<340	<180	<180	<180	<180	<180	<180	<340	<180
SAIA-SB/SG36	SAIA-SB36-0.5	04/17/2014	N	0.5	0.5	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG36	SAIA-SB36-2	04/17/2014	N	2	2	<5	<5	<5	<5	<5	<5	<5	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG36	SAIA-SB36-5	04/17/2014	N	5	5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG36	SAIA-SB36-15	04/17/2014	N	15	15	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<230	--	<230	<230	<230	<230	<230	<460	<230	<230	<230	<230	<230	<230	<460	<230
SAIA-SB/SG36	SAIA-SB36-25	04/17/2014	N	25	25	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<210	--	<210	<210	<210	<210	<210	<410	<210	<210	<210	<210	<210	<210	<410	<210
SAIA-SB/SG36	SAIA-SB36-26	04/17/2014	FD	25	25	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<210	--	<210	<210	<210	<210	<210	<410	<210	<210	<210	<210	<210	<210	<410	<210
SAIA-SB/SG36	SAIA-SB36-35	04/17/2014	N	35	35	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<180	--	<180	<180	<180	<180	<180	<360	<180	<180	<180	<180	<180	<180	<360	<180
SAIA-SB/SG37	SAIA-SB37-0.5	04/17/2014	N	0.5	0.5	<5	<5	<5	<5	<5	<5	<5	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG37	SAIA-SB37-2	04/17/2014	N	2	2	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG37	SAIA-SB37-5	04/17/2014	N	5	5	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG37	SAIA-SB37-6	04/17/2014	FD	5	5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG37	SAIA-SB37-15	04/17/2014	N	15	15	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<200	--	<200	<200	<200	<200	<200	<390	<200	<200	<200	<200	<200	<200	<390	<200
SAIA-SB/SG37	SAIA-SB37-25	04/17/2014	N	25	25	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<220	--	<220	<220	<220	<220	<220	<420	<220	<220	<220	<220	<220	<220	<420	<220
SAIA-SB/SG37	SAIA-SB37-35	04/17/2014	N	35	35	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG38	SAIA-SB38-0.5	04/17/2014	N	0.5	0.5	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<190	--	<190	<190	<190	<190	<190	<360	<190	<190	<190	<190	<190	<190	<360	<190
SAIA-SB/SG38	SAIA-SB38-2	04/17/2014	N	2	2	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB/SG38	SAIA-SB38-5	04/17/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG38	SAIA-SB38-15	04/17/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG38	SAIA-SB38-25	04/17/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG38	SAIA-SB38-35	04/17/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-0.5	04/17/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Semivolatile (ug/kg)																			
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	3,3'-Dichlorobenzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl phenyl ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl Phenyl Ether	4-Methylphenol (p-Cresol)	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzaldehyde	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
SAIA-SB/SG35	SAIA-SB35-25	04/18/2014	N	25	25	<200	<380	<380	<200	<200	<200	<200	<200	<380	<380	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG35	SAIA-SB35-35	04/18/2014	N	35	35	<180	<340	<340	<180	<180	<180	<180	<180	<340	<340	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG36	SAIA-SB36-0.5	04/17/2014	N	0.5	0.5	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	**79 J**	**110 J**	**90 J**	<180
SAIA-SB/SG36	SAIA-SB36-2	04/17/2014	N	2	2	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	**610**	**1,100**	**910**	**800**
SAIA-SB/SG36	SAIA-SB36-5	04/17/2014	N	5	5	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	**370**	**630**	**430**	**510**
SAIA-SB/SG36	SAIA-SB36-15	04/17/2014	N	15	15	<230	<460	<460	<230	<230	<230	<230	<230	<460	<460	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230
SAIA-SB/SG36	SAIA-SB36-25	04/17/2014	N	25	25	<210	<410	<410	<210	<210	<210	<210	<210	<410	<410	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG36	SAIA-SB36-26	04/17/2014	FD	25	25	<210	<410	<410	<210	<210	<210	<210	<210	<410	<410	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG36	SAIA-SB36-35	04/17/2014	N	35	35	<180	<360	<360	<180	<180	<180	<180	<180	<360	<360	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG37	SAIA-SB37-0.5	04/17/2014	N	0.5	0.5	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	**54 J**	**70 J**	**55 J**	**55 J**
SAIA-SB/SG37	SAIA-SB37-2	04/17/2014	N	2	2	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG37	SAIA-SB37-5	04/17/2014	N	5	5	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG37	SAIA-SB37-6	04/17/2014	FD	5	5	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG37	SAIA-SB37-15	04/17/2014	N	15	15	<200	<390	<390	<200	<200	<200	<200	<200	<390	<390	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG37	SAIA-SB37-25	04/17/2014	N	25	25	<220	<420	<420	<220	<220	<220	<220	<220	<420	<420	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220
SAIA-SB/SG37	SAIA-SB37-35	04/17/2014	N	35	35	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG38	SAIA-SB38-0.5	04/17/2014	N	0.5	0.5	<190	<360	<360	<190	<190	<190	<190	<190	<360	<360	<190	<190	<190	**140 J**	<190	<190	**330**	**390**	**250**	**230**
SAIA-SB/SG38	SAIA-SB38-2	04/17/2014	N	2	2	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG38	SAIA-SB38-5	04/17/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG38	SAIA-SB38-15	04/17/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG38	SAIA-SB38-25	04/17/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG38	SAIA-SB38-35	04/17/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-0.5	04/17/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Semivolatiles (in ug/kg)																					
						Benzo(k)fluoranthene	Benzyl butyl phthalate	Biphenyl (Diphenyl)	bis(2-Chloroethoxy) Methane	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	bis(2-Chloroisopropyl) Ether	bis(2-Ethylhexyl) Phthalate	Caprolactam	Carbazole	Chrysene	Di-n-Butyl Phthalate	Di-n-Octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Phthalate	Dimethyl Phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-c,d)pyrene
SAIA-SB/SG35	SAIA-SB35-25	04/18/2014	N	25	25	<200	<200	<200	<200	<200	<200	**120 J**	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG35	SAIA-SB35-35	04/18/2014	N	35	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG36	SAIA-SB36-0.5	04/17/2014	N	0.5	0.5	**100 J**	<180	<180	<180	<180	<180	<180	<180	<180	**120 J**	<180	<180	<180	<180	<180	<180	**120 J**	<180	<180	<180	<180	<180	**73 J**
SAIA-SB/SG36	SAIA-SB36-2	04/17/2014	N	2	2	**940**	<180	<180	<180	<180	<180	<180	<180	<180	**1,100**	<180	<180	<180	<180	<180	<180	**590**	<180	<180	<180	<180	<180	**700**
SAIA-SB/SG36	SAIA-SB36-5	04/17/2014	N	5	5	**500**	<180	<180	<180	<180	<180	<180	<180	<180	**620**	**190**	<180	<180	<180	**84 J**	<180	**320**	<180	<180	<180	<180	<180	**420**
SAIA-SB/SG36	SAIA-SB36-15	04/17/2014	N	15	15	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230
SAIA-SB/SG36	SAIA-SB36-25	04/17/2014	N	25	25	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG36	SAIA-SB36-26	04/17/2014	FD	25	25	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210
SAIA-SB/SG36	SAIA-SB36-35	04/17/2014	N	35	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG37	SAIA-SB37-0.5	04/17/2014	N	0.5	0.5	**60 J**	<180	<180	<180	<180	<180	<180	<180	<180	**78 J**	<180	<180	<180	<180	<180	<180	**70 J**	<180	<180	<180	<180	<180	<180
SAIA-SB/SG37	SAIA-SB37-2	04/17/2014	N	2	2	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG37	SAIA-SB37-5	04/17/2014	N	5	5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG37	SAIA-SB37-6	04/17/2014	FD	5	5	<180	<180	<180	<180	<180	<180	**100 J**	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG37	SAIA-SB37-15	04/17/2014	N	15	15	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB/SG37	SAIA-SB37-25	04/17/2014	N	25	25	<220	<220	<220	<220	<220	<220	**360**	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220	<220
SAIA-SB/SG37	SAIA-SB37-35	04/17/2014	N	35	35	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG38	SAIA-SB38-0.5	04/17/2014	N	0.5	0.5	**310**	<190	<190	<190	<190	<190	<190	<190	<190	**510**	**120 J**	<190	<190	<190	<190	<190	**480**	<190	<190	<190	<190	<190	**220**
SAIA-SB/SG38	SAIA-SB38-2	04/17/2014	N	2	2	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	**89 J**	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB/SG38	SAIA-SB38-5	04/17/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG38	SAIA-SB38-15	04/17/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG38	SAIA-SB38-25	04/17/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG38	SAIA-SB38-35	04/17/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-0.5	04/17/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Semivolatiles (in ug/kg)									Metals by E200.7 (in mg/kg)										
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Isophorone	Naphthalene	Nitrobenzene	n-Nitrosodi-n-propylamine	n-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron
SAIA-SB/SG35	SAIA-SB35-25	04/18/2014	N	25	25	<200	<200	<200	<200	<200	<380	<200	<200	<200	**17,600**	**0.58 J**	**3**	**159**	**0.65**	**0.23 J**	**9,050**	**22.9**	**10.8**	**24.1**	**24,700**
SAIA-SB/SG35	SAIA-SB35-35	04/18/2014	N	35	35	<180	<180	<180	<180	<180	<340	<180	<180	<180	**6,810**	**0.39 J**	**6.8**	**56**	**0.24 J**	**0.02 J**	**4,740**	**9**	**4.6**	**6.7**	**13,400**
SAIA-SB/SG36	SAIA-SB36-0.5	04/17/2014	N	0.5	0.5	<180	<180	<180	<180	<180	<350	<180	<180	**120 J**	**10,700**	<4.8	**4.9**	**104**	**0.52**	**0.51**	**9,730**	**19.8**	**8.1**	**46.1**	**24,200**
SAIA-SB/SG36	SAIA-SB36-2	04/17/2014	N	2	2	<180	<180	<180	<180	<180	<350	**86 J**	<180	**760**	**4,520**	<4.7	**4.7**	**41.2**	**0.45**	<0.39	**3,920**	**19.2**	**5.4**	**60.2**	**32,900**
SAIA-SB/SG36	SAIA-SB36-5	04/17/2014	N	5	5	<180	<180	<180	<180	<180	<350	<180	<180	**420**	**6,920**	<4.5	**9.3**	**48.6**	**0.6**	<0.37	**2,310**	**38.6**	**6.8**	**128**	**50,200**
SAIA-SB/SG36	SAIA-SB36-15	04/17/2014	N	15	15	<230	<230	<230	<230	<230	<460	<230	<230	<230	**33,400**	<5.9	**7.2**	**260**	**1.4**	<0.49	**15,500**	**38**	**21.2**	**51.4**	**41,100**
SAIA-SB/SG36	SAIA-SB36-25	04/17/2014	N	25	25	<210	<210	<210	<210	<210	<410	<210	<210	<210	**20,000**	<5.2	**6.4**	**197**	**0.82**	<0.43	**13,100**	**26.3**	**14.3**	**29.8**	**30,400**
SAIA-SB/SG36	SAIA-SB36-26	04/17/2014	FD	25	25	<210	<210	<210	<210	<210	<410	<210	<210	<210	**20,400**	<5.8	**8.3**	**195**	**0.85**	<0.48	**14,300**	**27.7**	**14.4**	**33.8**	**31,200**
SAIA-SB/SG36	SAIA-SB36-35	04/17/2014	N	35	35	<180	<180	<180	<180	<180	<360	<180	<180	<180	**8,310**	<4.8	**8.7**	**72.4**	**0.4**	<0.4	**4,720**	**11.2**	**5.8**	**13.1**	**17,700**
SAIA-SB/SG37	SAIA-SB37-0.5	04/17/2014	N	0.5	0.5	<180	<180	<180	<180	<180	<350	<180	<180	**79 J**	**15,000**	**48.9**	**43.8**	**345**	**2.1**	<0.38	**33,300**	**147**	**21.4**	**463**	**206,000**
SAIA-SB/SG37	SAIA-SB37-2	04/17/2014	N	2	2	<180	<180	<180	<180	<180	<350	<180	<180	<180	**17,700**	**13.2**	**12.1**	**313**	**1.4**	<0.39	**34,800**	**103**	**10.6**	**204**	**93,100**
SAIA-SB/SG37	SAIA-SB37-5	04/17/2014	N	5	5	<180	<180	<180	<180	<180	<350	<180	<180	<180	**11,600**	<5.1	**2.7**	**111**	**0.44**	<0.42	**11,800**	**16.6**	**8.5**	**14.2**	**22,100**
SAIA-SB/SG37	SAIA-SB37-6	04/17/2014	FD	5	5	<180	<180	<180	<180	<180	<350	<180	<180	<180	**11,100**	<4.9	**2.5**	**102**	**0.48**	<0.4	**11,800**	**16**	**8.4**	**13.4**	**22,200**
SAIA-SB/SG37	SAIA-SB37-15	04/17/2014	N	15	15	<200	<200	<200	<200	<200	<390	<200	<200	<200	**17,400**	<5.4	**3.6**	**149**	**0.73**	<0.45	**9,520**	**22**	**12.1**	**22.5**	**26,500**
SAIA-SB/SG37	SAIA-SB37-25	04/17/2014	N	25	25	<220	<220	<220	<220	<220	<420	<220	<220	<220	**24,200**	<5.2	**7**	**219**	**0.94**	<0.43	**21,200**	**33.9**	**15.1**	**35.4**	**32,600**
SAIA-SB/SG37	SAIA-SB37-35	04/17/2014	N	35	35	<180	<180	<180	<180	<180	<350	<180	<180	<180	**8,260**	<4.6	**9.2**	**73.9**	**0.36 J**	<0.38	**4,570**	**11**	**6**	**8.4**	**16,100**
SAIA-SB/SG38	SAIA-SB38-0.5	04/17/2014	N	0.5	0.5	<190	<190	<190	<190	<190	<360	**410**	<190	**570**	**14,200**	<4.9	**5.5**	**130**	**0.65**	<0.41	**17,400**	**105**	**9.8**	**33.4**	**25,600**
SAIA-SB/SG38	SAIA-SB38-2	04/17/2014	N	2	2	<180	<180	<180	<180	<180	<350	<180	<180	<180	**12,200**	<4.6	**2.5**	**112**	**0.49**	<0.38	**7,140**	**19.4**	**8.6**	**17**	**22,100**
SAIA-SB/SG38	SAIA-SB38-5	04/17/2014	N	5	5	--	--	--	--	--	--	--	--	--	**25,800**	<5.5	**7.1**	**220**	**0.92**	**0.88**	**13,600**	**33.6**	**19.5**	**37.4**	**36,600**
SAIA-SB/SG38	SAIA-SB38-15	04/17/2014	N	15	15	--	--	--	--	--	--	--	--	--	**20,000**	<5.5	**7.1**	**184**	**0.72**	**0.54 J**	**16,300**	**26.2 J**	**14.8**	**26.9**	**30,700 J**
SAIA-SB/SG38	SAIA-SB38-25	04/17/2014	N	25	25	--	--	--	--	--	--	--	--	--	**21,500**	<5.3	**7.4**	**186**	**0.83**	**0.59**	**10,200**	**32.4**	**16**	**33**	**31,600**
SAIA-SB/SG38	SAIA-SB38-35	04/17/2014	N	35	35	--	--	--	--	--	--	--	--	--	**6,870**	<4.4	**10**	**61.7**	**0.25 J**	<0.36	**6,190**	**10.4**	**5.6**	**7**	**16,000**
SAIA-SB/SG39	SAIA-SB39-0.5	04/17/2014	N	0.5	0.5	--	--	--	--	--	--	--	--	--	**9,880**	**5.3**	**9.5**	**106**	**0.48**	**1.9**	**14,600**	**26.5**	**9**	**55.8**	**34,000**

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Metals by E200.7 (in mg/kg)			Metals by E200.7 (in mg/kg)								Metals by C245_5 (in mg/kg)	PCBs by SW8082 (in ug/kg)				
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Mercury	PCB-1016 (Arochlor 1016)	PCB-1221 (Arochlor 1221)	PCB-1232 (Arochlor 1232)	PCB-1242 (Arochlor 1242)	PCB-1248 (Arochlor 1248)
SAIA-SB/SG35	SAIA-SB35-25	04/18/2014	N	25	25	**4.9**	**8,750**	**383**	**15.9**	**4,150**	**3.5**	<0.91	**1,670**	<2.3	**48.7**	**57.6**	<0.1	<39	<39	<39	<39	<39
SAIA-SB/SG35	SAIA-SB35-35	04/18/2014	N	35	35	**1.8**	**3,860**	**190**	**5.6**	**2,020**	**2.1 J**	<0.72	**385**	<1.8	**25.1**	**25.8**	<0.1	<34	<34	<34	<34	<34
SAIA-SB/SG36	SAIA-SB36-0.5	04/17/2014	N	0.5	0.5	**237**	**5,480**	**413**	**16.3**	**2,990**	**2.4 J**	**0.33 J**	**522**	<2	**38.2**	**257**	**0.13**	<35	<35	<35	<35	<35
SAIA-SB/SG36	SAIA-SB36-2	04/17/2014	N	2	2	**57**	**1,740**	**467**	**26.5**	**853**	**3.5**	**0.25 J**	**300 J**	**0.49 J**	**19.7**	**72.8**	**0.046 J**	<35	<35	<35	<35	<35
SAIA-SB/SG36	SAIA-SB36-5	04/17/2014	N	5	5	**45.3**	**1,810**	**503**	**37.9**	**994**	**4.9**	**0.4 J**	**428**	**1.5 J**	**29.2**	**59.1**	<0.095	<35	<35	<35	<35	<35
SAIA-SB/SG36	SAIA-SB36-15	04/17/2014	N	15	15	**13**	**14,200**	**600**	**30.9**	**5,130**	**3.4**	**0.37 J**	**700**	<2.4	**78.4**	**98**	**0.13**	<46	<46	<46	<46	<46
SAIA-SB/SG36	SAIA-SB36-25	04/17/2014	N	25	25	**7.3**	**10,100**	**593**	**20.4**	**4,930**	**2.6 J**	**0.27 J**	**482**	<2.1	**57.2**	**72.4**	**0.065 J**	<41	<41	<41	<41	<41
SAIA-SB/SG36	SAIA-SB36-26	04/17/2014	FD	25	25	**8.4**	**10,300**	**573**	**22.2**	**4,580**	**3.1 J**	**0.29 J**	**481 J**	<2.4	**58.1**	**71.9**	**0.1 J**	<41	<41	<41	<41	<41
SAIA-SB/SG36	SAIA-SB36-35	04/17/2014	N	35	35	**4.4**	**4,260**	**248**	**7.5**	**2,320**	**1.7 J**	**0.13 J**	**317 J**	<2	**27.7**	**32.6**	**0.058 J**	<36	<36	<36	<36	<36
SAIA-SB/SG37	SAIA-SB37-0.5	04/17/2014	N	0.5	0.5	**543**	**3,860**	**5,120**	**170**	**2,060**	**7.4**	**0.42 J**	**1,520**	**5**	**81.7**	**127**	**0.019 J**	<35	<35	<35	<35	<35
SAIA-SB/SG37	SAIA-SB37-2	04/17/2014	N	2	2	**451**	**3,720**	**5,260**	**76**	**2,750**	**5.1**	**0.64 J**	**1,350**	**1.6 J**	**56.3**	**308**	**0.17**	<35	<35	<35	<35	<35
SAIA-SB/SG37	SAIA-SB37-5	04/17/2014	N	5	5	**3.5**	**6,480**	**370**	**10.9**	**3,870**	**1.9 J**	**0.14 J**	**347 J**	<2.1	**44.2**	**47.2**	**0.038 J**	<35	<35	<35	<35	<35
SAIA-SB/SG37	SAIA-SB37-6	04/17/2014	FD	5	5	**3.2**	**6,340**	**370**	**10.6**	**3,700**	**2.1 J**	**0.13 J**	**337 J**	<2	**44.5**	**46.3**	**0.021 J**	<35	<35	<35	<35	<35
SAIA-SB/SG37	SAIA-SB37-15	04/17/2014	N	15	15	**5.1**	**8,700**	**415**	**15.8**	**4,370**	**2.4 J**	**0.1 J**	**454**	<2.3	**52.4**	**63.6**	**0.068 J**	<39	<39	<39	<39	<39
SAIA-SB/SG37	SAIA-SB37-25	04/17/2014	N	25	25	**18**	**10,800**	**1,080**	**21.1**	**5,350**	**2.8 J**	**0.17 J**	**1,190**	<2.2	**66.9**	**85.9**	**0.04 J**	<42	<42	<42	<42	<42
SAIA-SB/SG37	SAIA-SB37-35	04/17/2014	N	35	35	**2.3**	**4,290**	**226**	**6.8**	**2,440**	**1.5 J**	**0.09 J**	**397**	<1.9	**32.3**	**33**	**0.039 J**	<35	<35	<35	<35	<35
SAIA-SB/SG38	SAIA-SB38-0.5	04/17/2014	N	0.5	0.5	**112**	**6,600**	**635**	**19.4**	**3,960**	**2 J**	**0.21 J**	**725**	<2.1	**43.8**	**130**	**0.071 J**	<36	<36	<36	<36	<36
SAIA-SB/SG38	SAIA-SB38-2	04/17/2014	N	2	2	**11**	**6,150**	**449**	**12.2**	**4,060**	**1.7 J**	**0.06 J**	**391**	<1.9	**41.9**	**49.6**	**0.047 J**	<35	<35	<35	<35	<35
SAIA-SB/SG38	SAIA-SB38-5	04/17/2014	N	5	5	**10.3**	**11,600**	**556**	**27.2**	**5,970**	**1.2 J**	<0.92	**842**	<2.3	**66.5**	**92.6**	**0.071 J**	--	--	--	--	--
SAIA-SB/SG38	SAIA-SB38-15	04/17/2014	N	15	15	**6.4**	**10,100**	**588**	**20.1**	**4,690**	**1.7 J**	**0.06 J**	**1,240**	<2.3	**59.2**	**74.7**	**0.079 J**	--	--	--	--	--
SAIA-SB/SG38	SAIA-SB38-25	04/17/2014	N	25	25	**9**	**9,920**	**468**	**23**	**4,470**	**1.7 J**	<0.88	**1,180**	<2.2	**59.6**	**81.1**	**0.12**	--	--	--	--	--
SAIA-SB/SG38	SAIA-SB38-35	04/17/2014	N	35	35	**2**	**4,240**	**231**	**6.3**	**2,060**	**0.96 J**	<0.73	**352 J**	<1.8	**29.7**	**41.9**	**0.015 J**	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-0.5	04/17/2014	N	0.5	0.5	**205**	**5,170**	**540**	**20.8**	**2,650**	**1.3 J**	<0.76	**579**	<1.9	**37.3**	**369**	**0.11**	--	--	--	--	--

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	PCBs by SW8082 (in ug/kg)			
						PCB-1254 (Arochlor 1254)	PCB-1260 (Arochlor 1260)	PCB-1262 (Arochlor 1262)	PCB-1268 (Arochlor 1268)
SAIA-SB/SG35	SAIA-SB35-25	04/18/2014	N	25	25	<39	<39	<39	<39
SAIA-SB/SG35	SAIA-SB35-35	04/18/2014	N	35	35	<34	<34	<34	<34
SAIA-SB/SG36	SAIA-SB36-0.5	04/17/2014	N	0.5	0.5	**12 J**	<35	<35	<35
SAIA-SB/SG36	SAIA-SB36-2	04/17/2014	N	2	2	<35	**19 J**	<35	<35
SAIA-SB/SG36	SAIA-SB36-5	04/17/2014	N	5	5	<35	<35	<35	<35
SAIA-SB/SG36	SAIA-SB36-15	04/17/2014	N	15	15	<46	<46	<46	<46
SAIA-SB/SG36	SAIA-SB36-25	04/17/2014	N	25	25	<41	<41	<41	<41
SAIA-SB/SG36	SAIA-SB36-26	04/17/2014	FD	25	25	<41	<41	<41	<41
SAIA-SB/SG36	SAIA-SB36-35	04/17/2014	N	35	35	<36	<36	<36	<36
SAIA-SB/SG37	SAIA-SB37-0.5	04/17/2014	N	0.5	0.5	<35	<35	<35	<35
SAIA-SB/SG37	SAIA-SB37-2	04/17/2014	N	2	2	<35	**41**	<35	<35
SAIA-SB/SG37	SAIA-SB37-5	04/17/2014	N	5	5	<35	<35	<35	<35
SAIA-SB/SG37	SAIA-SB37-6	04/17/2014	FD	5	5	<35	<35	<35	<35
SAIA-SB/SG37	SAIA-SB37-15	04/17/2014	N	15	15	<39	<39	<39	<39
SAIA-SB/SG37	SAIA-SB37-25	04/17/2014	N	25	25	<42	<42	<42	<42
SAIA-SB/SG37	SAIA-SB37-35	04/17/2014	N	35	35	<35	<35	<35	<35
SAIA-SB/SG38	SAIA-SB38-0.5	04/17/2014	N	0.5	0.5	<36	**9.9 J**	<36	<36
SAIA-SB/SG38	SAIA-SB38-2	04/17/2014	N	2	2	<35	<35	<35	<35
SAIA-SB/SG38	SAIA-SB38-5	04/17/2014	N	5	5	--	--	--	--
SAIA-SB/SG38	SAIA-SB38-15	04/17/2014	N	15	15	--	--	--	--
SAIA-SB/SG38	SAIA-SB38-25	04/17/2014	N	25	25	--	--	--	--
SAIA-SB/SG38	SAIA-SB38-35	04/17/2014	N	35	35	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-0.5	04/17/2014	N	0.5	0.5	--	--	--	--

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (in ug/kg)																					
						1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane (p-Dioxane)	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene
SAIA-SB/SG39	SAIA-SB39-2	04/17/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-3	04/17/2014	FD	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-5	04/17/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-15	04/17/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-25	04/17/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-35	04/17/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG44	SAIA-SB44-0.5	04/25/2017	N	0	0.5	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	--	<12	<12	<12	<12	<6
SAIA-SB/SG44	SAIA-SB44-2	04/25/2017	N	1	2	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	--	<11	<11	<11	<11	<5.5
SAIA-SB/SG44	SAIA-SB44-5	04/25/2017	N	4	5	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	--	<13	<13	<13	<13	<6.7
SAIA-SB/SG44	SAIA-SB44-15	04/25/2017	N	14	15	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	--	<13	<13	<13	<13	<6.3
SAIA-SB/SG44	SAIA-SB44-25	04/25/2017	N	24	25	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	--	<12	<12	<12	<12	<6.2
SAIA-SB/SG44	SAIA-SB44-26	04/25/2017	FD	24	25	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	--	<11	<11	<11	<11	<5.4
SAIA-SB/SG44	SAIA-SB44-35	04/25/2017	N	34	35	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	--	<12	<12	<12	<12	<6
SAIA-SB/SG45	SAIA-SB45-0.5	04/25/2017	N	0	0.5	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	--	<15	<15	<15	<15	<7.3
SAIA-SB/SG45	SAIA-SB45-2	04/25/2017	N	1	2	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	--	<15	<15	<15	<15	<7.4
SAIA-SB/SG45	SAIA-SB45-5	04/25/2017	N	4	5	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	--	<12	<12	<12	<12	<5.8
SAIA-SB/SG45	SAIA-SB45-15	04/25/2017	N	14	15	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	--	<14	<14	<14	<14	<6.8
SAIA-SB/SG45	SAIA-SB45-25	04/25/2017	N	24	25	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	--	<12	<12	<12	<12	<6.2
SAIA-SB/SG45	SAIA-SB45-35	04/25/2017	N	34	35	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	--	<12	<12	<12	<12	<6.1
SAIA-SB/SG46	SAIA-SB46-0.5	04/26/2017	N	0	0.5	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	--	<18	<18	<18	<18	<8.9
SAIA-SB/SG46	SAIA-SB46-0.6	04/26/2017	FD	0	0.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	--	<15	<15	<15	<15	<7.5
SAIA-SB/SG46	SAIA-SB46-2	04/26/2017	N	1	2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	--	<10	<10	<10	<10	<5.2
SAIA-SB/SG46	SAIA-SB46-5	04/26/2017	N	4	5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	--	<13	<13	<13	<13	<6.5

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (in ug/kg)																							
						Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene (Cumene)	m,p-Xylene	Methyl Acetate	Methylcyclohexane	Methylene Chloride	o-Xylene	Styrene	tert-Butyl Methyl Ether (MTBE)
SAIA-SB/SG39	SAIA-SB39-2	04/17/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-3	04/17/2014	FD	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-5	04/17/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-15	04/17/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-25	04/17/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-35	04/17/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG44	SAIA-SB44-0.5	04/25/2017	N	0	0.5	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
SAIA-SB/SG44	SAIA-SB44-2	04/25/2017	N	1	2	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG44	SAIA-SB44-5	04/25/2017	N	4	5	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7
SAIA-SB/SG44	SAIA-SB44-15	04/25/2017	N	14	15	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3
SAIA-SB/SG44	SAIA-SB44-25	04/25/2017	N	24	25	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG44	SAIA-SB44-26	04/25/2017	FD	24	25	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4
SAIA-SB/SG44	SAIA-SB44-35	04/25/2017	N	34	35	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
SAIA-SB/SG45	SAIA-SB45-0.5	04/25/2017	N	0	0.5	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3
SAIA-SB/SG45	SAIA-SB45-2	04/25/2017	N	1	2	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4
SAIA-SB/SG45	SAIA-SB45-5	04/25/2017	N	4	5	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8
SAIA-SB/SG45	SAIA-SB45-15	04/25/2017	N	14	15	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8
SAIA-SB/SG45	SAIA-SB45-25	04/25/2017	N	24	25	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
SAIA-SB/SG45	SAIA-SB45-35	04/25/2017	N	34	35	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG46	SAIA-SB46-0.5	04/26/2017	N	0	0.5	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9
SAIA-SB/SG46	SAIA-SB46-0.6	04/26/2017	FD	0	0.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5
SAIA-SB/SG46	SAIA-SB46-2	04/26/2017	N	1	2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2
SAIA-SB/SG46	SAIA-SB46-5	04/26/2017	N	4	5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Volatiles (ug/kg)							Semivolatiles (in ug/kg)															
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	1,2,4,5-Tetrachlorobenzene	1,4-Dioxane (p-Dioxane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol
SAIA-SB/SG39	SAIA-SB39-2	04/17/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-3	04/17/2014	FD	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-5	04/17/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-15	04/17/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-25	04/17/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-35	04/17/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG44	SAIA-SB44-0.5	04/25/2017	N	0	0.5	<6	<6	<6	<6	<6	<6	<6	<200	<78	<200	<200	<200	<200	<200	<390	<200	<200	<200	<200	<200	<390	<200	<200
SAIA-SB/SG44	SAIA-SB44-2	04/25/2017	N	1	2	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<190	<75	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	<190	<370	<190	<190
SAIA-SB/SG44	SAIA-SB44-5	04/25/2017	N	4	5	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<220	<85	<220	<220	<220	<220	<220	<420	<220	<220	<220	<220	<220	<420	<220	<220
SAIA-SB/SG44	SAIA-SB44-15	04/25/2017	N	14	15	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<200	<80	<200	<200	<200	<200	<200	<400	<200	<200	<200	<200	<200	<400	<200	<200
SAIA-SB/SG44	SAIA-SB44-25	04/25/2017	N	24	25	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<220	<88	<220	<220	<220	<220	<220	<430	<220	<220	<220	<220	<220	<430	<220	<220
SAIA-SB/SG44	SAIA-SB44-26	04/25/2017	FD	24	25	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<200	<79	<200	<200	<200	<200	<200	<390	<200	<200	<200	<200	<200	<390	<200	<200
SAIA-SB/SG44	SAIA-SB44-35	04/25/2017	N	34	35	<6	<6	<6	<6	<6	<6	<6	<220	<87	<220	<220	<220	<220	<220	<430	<220	<220	<220	<220	<220	<430	<220	<220
SAIA-SB/SG45	SAIA-SB45-0.5	04/25/2017	N	0	0.5	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<190	<76	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	<190	<370	<190	<190
SAIA-SB/SG45	SAIA-SB45-2	04/25/2017	N	1	2	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<200	<78	<200	<200	<200	<200	<200	<380	<200	<200	<200	<200	<200	<380	<200	<200
SAIA-SB/SG45	SAIA-SB45-5	04/25/2017	N	4	5	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<210	<81	<210	<210	<210	<210	<210	<400	<210	<210	<210	<210	<210	<400	<210	<210
SAIA-SB/SG45	SAIA-SB45-15	04/25/2017	N	14	15	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<230	<90	<230	<230	<230	<230	<230	<440	<230	<230	<230	<230	<230	<440	<230	<230
SAIA-SB/SG45	SAIA-SB45-25	04/25/2017	N	24	25	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<230	<90	<230	<230	<230	<230	<230	<450	<230	<230	<230	<230	<230	<450	<230	<230
SAIA-SB/SG45	SAIA-SB45-35	04/25/2017	N	34	35	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<230	<90	<230	<230	<230	<230	<230	<440	<230	<230	<230	<230	<230	<440	<230	<230
SAIA-SB/SG46	SAIA-SB46-0.5	04/26/2017	N	0	0.5	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	<180	<72	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<350	<180	<180
SAIA-SB/SG46	SAIA-SB46-0.6	04/26/2017	FD	0	0.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<190	<76	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	<190	<370	<190	<190
SAIA-SB/SG46	SAIA-SB46-2	04/26/2017	N	1	2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<190	<74	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	<190	<370	<190	<190
SAIA-SB/SG46	SAIA-SB46-5	04/26/2017	N	4	5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<200	<78	<200	<200	<200	<200	<200	<390	<200	<200	<200	<200	<200	<390	<200	<200

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Semivolatile (ug/kg)																			
						3,3'-Dichlorobenzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl phenyl ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl Phenyl Ether	4-Methylphenol (p-Cresol)	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzaldehyde	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
SAIA-SB/SG39	SAIA-SB39-2	04/17/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-3	04/17/2014	FD	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-5	04/17/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-15	04/17/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-25	04/17/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-35	04/17/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG44	SAIA-SB44-0.5	04/25/2017	N	0	0.5	<390	<390	<390	<200	<200	<390	<200	<390	<390	<390	<200	<200	<390	<200	<390	<390	<200	<200	<200	<200
SAIA-SB/SG44	SAIA-SB44-2	04/25/2017	N	1	2	<370	<370	<370	<190	<190	<370	<190	<370	<370	<370	<190	<190	<370	<190	<370	<370	**45 J**	<190	<190	<190
SAIA-SB/SG44	SAIA-SB44-5	04/25/2017	N	4	5	<420	<420	<420	<220	<220	<420	<220	<420	<420	<420	<220	<220	<420	<220	<420	<420	<220	<220	<220	<220
SAIA-SB/SG44	SAIA-SB44-15	04/25/2017	N	14	15	<400	<400	<400	<200	<200	<400	<200	<400	<400	<400	<200	<200	<400	<200	<400	<400	<200	<200	<200	<200
SAIA-SB/SG44	SAIA-SB44-25	04/25/2017	N	24	25	<430	<430	<430	<220	<220	<430	<220	<430	<430	<430	<220	<220	<430	<220	<430	<430	<220	<220	<220	<220
SAIA-SB/SG44	SAIA-SB44-26	04/25/2017	FD	24	25	<390	<390	<390	<200	<200	<390	<200	<390	<390	<390	<200	<200	<390	<200	<390	<390	<200	<200	<200	<200
SAIA-SB/SG44	SAIA-SB44-35	04/25/2017	N	34	35	<430	<430	<430	<220	<220	<430	<220	<430	<430	<430	<220	<220	<430	<220	<430	<430	<220	<220	<220	<220
SAIA-SB/SG45	SAIA-SB45-0.5	04/25/2017	N	0	0.5	<370	<370	<370	<190	<190	<370	<190	<370	<370	<370	<190	<190	<370	<190	<370	<370	<190	<190	<190	<190
SAIA-SB/SG45	SAIA-SB45-2	04/25/2017	N	1	2	<380	<380	<380	<200	<200	<380	<200	<380	<380	<380	<200	<200	<380	<200	<380	<380	<200	<200	<200	<200
SAIA-SB/SG45	SAIA-SB45-5	04/25/2017	N	4	5	<400	<400	<400	<210	<210	<400	<210	<400	<400	<400	<210	<210	<400	<210	<400	<400	<210	<210	<210	<210
SAIA-SB/SG45	SAIA-SB45-15	04/25/2017	N	14	15	<440	<440	<440	<230	<230	<440	<230	<440	<440	<440	<230	<230	<440	<230	<440	<440	<230	<230	<230	<230
SAIA-SB/SG45	SAIA-SB45-25	04/25/2017	N	24	25	<450	<450	<450	<230	<230	<450	<230	<450	<450	<450	<230	<230	<450	<230	<450	<450	<230	<230	<230	<230
SAIA-SB/SG45	SAIA-SB45-35	04/25/2017	N	34	35	<440	<440	<440	<230	<230	<440	<230	<440	<440	<440	<230	<230	<440	<230	<440	<440	<230	<230	<230	<230
SAIA-SB/SG46	SAIA-SB46-0.5	04/26/2017	N	0	0.5	<350	<350	<350	<180	<180	<350	<180	<350	<350	<350	<180	<180	<350	<180	<350	<350	<180	<180	<180	<180
SAIA-SB/SG46	SAIA-SB46-0.6	04/26/2017	FD	0	0.5	<370	<370	<370	<190	<190	<370	<190	<370	<370	<370	<190	<190	<370	<190	<370	<370	<190	<190	<190	<190
SAIA-SB/SG46	SAIA-SB46-2	04/26/2017	N	1	2	<370	<370	<370	<190	<190	<370	<190	<370	<370	<370	<190	<190	<370	<190	<370	<370	<190	<190	<190	<190
SAIA-SB/SG46	SAIA-SB46-5	04/26/2017	N	4	5	<390	<390	<390	<200	<200	<390	<200	<390	<390	<390	<200	<200	<390	<200	<390	<390	<200	<200	<200	<200

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Semivolatiles (in ug/kg)																					
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Benzo(k)fluoranthene	Benzyl butyl phthalate	Biphenyl (Diphenyl)	bis(2-Chloroethoxy) Methane	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	bis(2-Chloroisopropyl) Ether	bis(2-Ethylhexyl) Phthalate	Caprolactam	Carbazole	Chrysene	Di-n-Butyl Phthalate	Di-n-Octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Phthalate	Dimethyl Phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-c,d)pyrene
SAIA-SB/SG39	SAIA-SB39-2	04/17/2014	N	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-3	04/17/2014	FD	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-5	04/17/2014	N	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-15	04/17/2014	N	15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-25	04/17/2014	N	25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-35	04/17/2014	N	35	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-SB/SG44	SAIA-SB44-0.5	04/25/2017	N	0	0.5	<200	<200	<200	<200	<390	<390	<200	<390	<390	<200	<200	<200	<200	**220**	<200	<390	<390	<200	<200	<200	<390	<200	<200
SAIA-SB/SG44	SAIA-SB44-2	04/25/2017	N	1	2	<190	<190	<190	<190	<370	<370	<190	<370	<370	**120 J**	<190	<190	<190	**240**	<190	<370	**120 J**	<190	<190	<190	<370	<190	<190
SAIA-SB/SG44	SAIA-SB44-5	04/25/2017	N	4	5	<220	<220	<220	<220	<420	<420	<220	<420	<420	<220	<220	<220	<220	**350**	<220	<420	<420	<220	<220	<220	<420	<220	<220
SAIA-SB/SG44	SAIA-SB44-15	04/25/2017	N	14	15	<200	<200	<200	<200	<400	<400	<200	<400	<400	<200	<200	<200	<200	**540**	<200	<400	<400	<200	<200	<200	<400	<200	<200
SAIA-SB/SG44	SAIA-SB44-25	04/25/2017	N	24	25	<220	<220	<220	<220	<430	<430	<220	<430	<430	<220	<220	<220	<220	**530**	<220	<430	<430	<220	<220	<220	<430	<220	<220
SAIA-SB/SG44	SAIA-SB44-26	04/25/2017	FD	24	25	<200	<200	<200	<200	<390	<390	<200	<390	<390	<200	<200	<200	<200	**400**	<200	<390	<390	<200	<200	<200	<390	<200	<200
SAIA-SB/SG44	SAIA-SB44-35	04/25/2017	N	34	35	<220	<220	<220	<220	<430	<430	<220	<430	<430	<220	<220	<220	<220	**390**	<220	<430	<430	<220	<220	<220	<430	<220	<220
SAIA-SB/SG45	SAIA-SB45-0.5	04/25/2017	N	0	0.5	<190	<190	<190	<190	<370	<370	<190	<370	<370	**56 J**	<190	<190	<190	**210**	<190	<370	**42 J**	<190	<190	<190	<370	<190	<190
SAIA-SB/SG45	SAIA-SB45-2	04/25/2017	N	1	2	<200	<200	<200	<200	<380	<380	<200	<380	<380	<200	<200	<200	<200	**250**	<200	<380	<380	<200	<200	<200	<380	<200	<200
SAIA-SB/SG45	SAIA-SB45-5	04/25/2017	N	4	5	<210	<210	<210	<210	<400	<400	<210	<400	<400	<210	<210	<210	<210	**710**	<210	<400	<400	<210	<210	<210	<400	<210	<210
SAIA-SB/SG45	SAIA-SB45-15	04/25/2017	N	14	15	<230	<230	<230	<230	<440	<440	<230	<440	<440	<230	<230	<230	<230	**430**	<230	<440	<440	<230	<230	<230	<440	<230	<230
SAIA-SB/SG45	SAIA-SB45-25	04/25/2017	N	24	25	<230	<230	<230	<230	<450	<450	<230	<450	<450	<230	<230	<230	<230	**320**	<230	<450	<450	<230	<230	<230	<450	<230	<230
SAIA-SB/SG45	SAIA-SB45-35	04/25/2017	N	34	35	<230	<230	<230	<230	<440	<440	<230	<440	<440	<230	<230	<230	<230	**320**	<230	<440	<440	<230	<230	<230	<440	<230	<230
SAIA-SB/SG46	SAIA-SB46-0.5	04/26/2017	N	0	0.5	<180	<180	<180	<180	<350	<350	<180	<350	<350	<180	<180	<180	<180	**77 J**	<180	<350	<350	<180	<180	<180	<350	<180	<180
SAIA-SB/SG46	SAIA-SB46-0.6	04/26/2017	FD	0	0.5	<190	<190	<190	<190	<370	<370	<190	<370	<370	<190	<190	<190	<190	**100 J**	<190	<370	<370	<190	<190	<190	<370	<190	<190
SAIA-SB/SG46	SAIA-SB46-2	04/26/2017	N	1	2	<190	<190	<190	<190	<370	<370	<190	<370	<370	<190	<190	<190	<190	**160**	<190	<370	<370	<190	<190	<190	<370	<190	<190
SAIA-SB/SG46	SAIA-SB46-5	04/26/2017	N	4	5	<200	<200	<200	<200	<390	<390	<200	<390	<390	<200	<200	<200	<200	**230**	<200	<390	<390	<200	<200	<200	<390	<200	<200

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Semivolatiles (in ug/kg)									Metals by E200.7 (in mg/kg)									
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Isophorone	Naphthalene	Nitrobenzene	n-Nitrosodi-n-propylamine	n-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron
SAIA-SB/SG39	SAIA-SB39-2	04/17/2014	N	2	2	--	--	--	--	--	--	--	--	--	**8,490**	<4.7	**7.4**	**95.4**	**0.38 J**	**1.1**	**10,800**	**28.9**	**7.4**	**50.5**	**20,900**
SAIA-SB/SG39	SAIA-SB39-3	04/17/2014	FD	2	2	--	--	--	--	--	--	--	--	--	**8,330**	<4.5	**7.1**	**94**	**0.37**	**1.6**	**12,500**	**25.2**	**7**	**47.4**	**22,200**
SAIA-SB/SG39	SAIA-SB39-5	04/17/2014	N	5	5	--	--	--	--	--	--	--	--	--	**12,600**	<4.6	**4**	**117**	**0.44**	**0.4**	**8,870**	**19.4**	**10.2**	**15.2**	**23,100**
SAIA-SB/SG39	SAIA-SB39-15	04/17/2014	N	15	15	--	--	--	--	--	--	--	--	--	**18,800**	<5.4	**5.7**	**163**	**0.66**	**0.52**	**8,170**	**25.9**	**14.1**	**25.3**	**28,700**
SAIA-SB/SG39	SAIA-SB39-25	04/17/2014	N	25	25	--	--	--	--	--	--	--	--	--	**27,000**	<5.8	**9**	**244**	**1**	**0.78**	**11,300**	**50.3**	**24.3**	**61.4**	**38,900**
SAIA-SB/SG39	SAIA-SB39-35	04/17/2014	N	35	35	--	--	--	--	--	--	--	--	--	**8,380**	<4.4	**11.4**	**73.7**	**0.32 J**	<0.37	**9,930**	**12.2**	**6.8**	**8.8**	**16,700**
SAIA-SB/SG44	SAIA-SB44-0.5	04/25/2017	N	0	0.5	<200	<200	<200	<200	<200	<390	<200	<390	<200	**10,100**	**1.4 J**	**4 J**	**88.8**	<0.54	**0.7**	**4,370**	**21.7**	**8.5**	**27.1**	**17,900**
SAIA-SB/SG44	SAIA-SB44-2	04/25/2017	N	1	2	<190	<190	<190	<190	<190	<370	**80 J**	<370	**150 J**	**15,400**	**1.3 J**	**2.6 J**	**116**	<0.58	<0.58	**11,100**	**21.5**	**11.5**	**20**	**22,500**
SAIA-SB/SG44	SAIA-SB44-5	04/25/2017	N	4	5	<220	<220	<220	<220	<220	<420	<220	<420	<220	**21,200**	**1.7 J**	**2.8 J**	**162**	<0.62	<0.62	**14,200**	**26.9**	**15.3**	**23.9**	**28,900**
SAIA-SB/SG44	SAIA-SB44-15	04/25/2017	N	14	15	<200	<200	<200	<200	<200	<400	<200	**48 J**	<200	**17,400**	**1.4 J**	**2 J**	**123**	<0.59	<0.59	**12,800**	**21.5**	**13.1**	**18.9**	**24,600**
SAIA-SB/SG44	SAIA-SB44-25	04/25/2017	N	24	25	<220	<220	<220	<220	<220	<430	<220	<430	<220	**29,700**	**1.7 J**	**3.8 J**	**194**	**0.82 J**	<0.65	**12,500**	**33.3**	**17.8**	**38.4**	**33,700**
SAIA-SB/SG44	SAIA-SB44-26	04/25/2017	FD	24	25	<200	<200	<200	<200	<200	<390	<200	<390	<200	**23,800**	**1.8 J**	**3.8 J**	**167**	**0.64 J**	<0.63	**23,200**	**27.7**	**16.1**	**25.7**	**30,400**
SAIA-SB/SG44	SAIA-SB44-35	04/25/2017	N	34	35	<220	<220	<220	<220	<220	<430	<220	<430	<220	**29,000**	**1.9 J**	**4.3 J**	**195**	**0.77 J**	<0.64	**9,200**	**33.7**	**17.9**	**46.2**	**33,500**
SAIA-SB/SG45	SAIA-SB45-0.5	04/25/2017	N	0	0.5	<190	<190	<190	<190	<190	<370	<190	<370	**64 J**	**14,100**	**2.3 J**	**3.9 J**	**127**	<0.56	**1.5**	**7,620**	**30.5**	**12**	**47.1**	**32,600**
SAIA-SB/SG45	SAIA-SB45-2	04/25/2017	N	1	2	<200	<200	<200	<200	<200	<380	<200	<380	<200	**19,000**	**1.3 J**	**2.4 J**	**138**	<0.6	<0.6	**9,570**	**23.8**	**13.8**	**21.2**	**26,400**
SAIA-SB/SG45	SAIA-SB45-5	04/25/2017	N	4	5	<210	<210	<210	<210	<210	<400	<210	**60 J**	<210	**16,500**	**2.5 J**	**5.2 J**	**131**	<0.58	**0.68**	**9,230**	**28**	**13**	**45.7**	**29,100**
SAIA-SB/SG45	SAIA-SB45-15	04/25/2017	N	14	15	<230	<230	<230	<230	<230	<440	<230	**57 J**	<230	**23,200**	**1.5 J**	**1.9 J**	**145**	**0.62 J**	<0.61	**11,600**	**26.8**	**14.8**	**26.7**	**28,300**
SAIA-SB/SG45	SAIA-SB45-25	04/25/2017	N	24	25	<230	<230	<230	<230	<230	<450	<230	**49 J**	<230	**36,900**	**2.1 J**	**4.2 J**	**223**	**0.94 J**	<0.68	**23,100**	**38.7**	**22**	**46.8**	**40,300**
SAIA-SB/SG45	SAIA-SB45-35	04/25/2017	N	34	35	<230	<230	<230	<230	<230	<440	<230	**50 J**	<230	**28,500**	**2.1 J**	**8 J**	**189**	**0.81 J**	<0.65	**17,200**	**37.3**	**19.8**	**42**	**35,200**
SAIA-SB/SG46	SAIA-SB46-0.5	04/26/2017	N	0	0.5	<180	<180	<180	<180	<180	<350	<180	<350	<180	**11,200**	**1.7 J**	**4.1**	**117**	<0.54	**1.4**	**7,930**	**22.4**	**9.7**	**33.3 J**	**21,900**
SAIA-SB/SG46	SAIA-SB46-0.6	04/26/2017	FD	0	0.5	<190	<190	<190	<190	<190	<370	<190	<370	<190	**10,400**	**1.6 J**	**3.7**	**103**	<0.54	**1.1**	**6,700**	**19.6**	**10.2**	**28.8 J**	**21,300**
SAIA-SB/SG46	SAIA-SB46-2	04/26/2017	N	1	2	<190	<190	<190	<190	<190	<370	<190	<370	<190	**15,000**	**0.55 J**	**1.3**	**127**	<0.6	<0.6	**9,840**	**18.7**	**12.1**	**16 J**	**23,100**
SAIA-SB/SG46	SAIA-SB46-5	04/26/2017	N	4	5	<200	<200	<200	<200	<200	<390	<200	<390	<200	**13,200**	**0.36 J**	**1.1**	**118**	<0.57	<0.57	**9,340**	**17.1**	**10.8**	**15 J**	**20,900**

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Metals by E200.7 (in mg/kg)			Metals by E200.7 (in mg/kg)								Metals by C245_5 (in mg/kg)	PCBs by SW8082 (in ug/kg)				
						Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Mercury	PCB-1016 (Arochlor 1016)	PCB-1221 (Arochlor 1221)	PCB-1232 (Arochlor 1232)	PCB-1242 (Arochlor 1242)	PCB-1248 (Arochlor 1248)
SAIA-SB/SG39	SAIA-SB39-2	04/17/2014	N	2	2	**200**	**4,250**	**510**	**20.5**	**2,090**	**0.73 J**	<0.78	**396**	<1.9	**31.9**	**207**	**0.46**	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-3	04/17/2014	FD	2	2	**213**	**4,190**	**467**	**17.6**	**2,090**	**0.83 J**	**0.07 J**	**441**	<1.9	**30.8**	**257**	**0.11**	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-5	04/17/2014	N	5	5	**10.4**	**6,980**	**429**	**13.4**	**4,190**	**0.75 J**	<0.77	**426**	<1.9	**42.6**	**60.7**	**0.045 J**	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-15	04/17/2014	N	15	15	**7.6**	**9,830**	**442**	**19.9**	**4,950**	**0.88 J**	<0.89	**607**	<2.2	**54.5**	**75.5**	**0.072 J**	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-25	04/17/2014	N	25	25	**17.6**	**14,100**	**693**	**40.8**	**4,070**	**0.98 J**	<0.96	**1,190**	<2.4	**71.4**	**93.7**	**0.07 J**	--	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-35	04/17/2014	N	35	35	**2.4**	**5,160**	**286**	**7.9**	**2,600**	**0.79 J**	<0.73	**391**	<1.8	**30.1**	**37.9**	**0.02 J**	--	--	--	--	--
SAIA-SB/SG44	SAIA-SB44-0.5	04/25/2017	N	0	0.5	**116**	**4,620**	**285**	**15.9**	**2,260**	<3.8	<1.1	<537	<2.7	**35.6**	**217**	**0.039 J**	<39	<39	<39	<39	<39
SAIA-SB/SG44	SAIA-SB44-2	04/25/2017	N	1	2	**23.6**	**7,460**	**376**	**15.7**	**3,870**	**0.73 J**	<1.2	<577	<2.9	**45.3**	**96.5**	**0.042 J**	<37	<37	<37	<37	<37
SAIA-SB/SG44	SAIA-SB44-5	04/25/2017	N	4	5	**5.9**	**10,500**	**451**	**18**	**5,380**	**0.67 J**	<1.2	**638**	<3.1	**59.6**	**81**	**0.068 J**	<42	<42	<42	<42	<42
SAIA-SB/SG44	SAIA-SB44-15	04/25/2017	N	14	15	**4.1**	**8,990**	**392**	**13.8**	**4,190**	**0.41 J**	<1.2	<588	<2.9	**52.2**	**67.7**	**0.042 J**	<39	<39	<39	<39	<39
SAIA-SB/SG44	SAIA-SB44-25	04/25/2017	N	24	25	**8.4 J**	**11,800**	**439**	**23.3**	**4,700**	<4.5	<1.3	**1,340**	<3.2	**68.5**	**93.5**	**0.097 J**	<43	<43	<43	<43	<43
SAIA-SB/SG44	SAIA-SB44-26	04/25/2017	FD	24	25	**6.2**	**10,700**	**559**	**18.4**	**4,800**	**0.81 J**	<1.3	**1,100**	<3.2	**64.6**	**83.3**	**0.078 J**	<39	<39	<39	<39	<39
SAIA-SB/SG44	SAIA-SB44-35	04/25/2017	N	34	35	**8.2 J**	**11,800**	**419**	**23.3**	**4,730**	**2.1 J**	<1.3	**1,230**	<3.2	**71.7**	**91.3**	**0.12 J**	<43	<43	<43	<43	<43
SAIA-SB/SG45	SAIA-SB45-0.5	04/25/2017	N	0	0.5	**306**	**6,370**	**496**	**23.2**	**3,470**	**0.73 J**	<1.1	<561	<2.8	**44.5**	**308**	**0.14**	<37	<37	<37	<37	<37
SAIA-SB/SG45	SAIA-SB45-2	04/25/2017	N	1	2	**6.3**	**8,370**	**392**	**15.3**	**4,400**	<4.2	<1.2	<595	<3	**55.4**	**72.8**	**0.063 J**	<39	<39	<39	<39	<39
SAIA-SB/SG45	SAIA-SB45-5	04/25/2017	N	4	5	**122**	**7,570**	**412**	**19.7**	**3,840**	<4.1	<1.2	<579	<2.9	**52.4**	**212**	**0.13**	<40	<40	<40	<40	<40
SAIA-SB/SG45	SAIA-SB45-15	04/25/2017	N	14	15	**6.4**	**9,760**	**466**	**17.3**	**4,540**	<4.3	<1.2	**716**	<3.1	**62.2**	**78**	**0.081 J**	<44	<44	<44	<44	<44
SAIA-SB/SG45	SAIA-SB45-25	04/25/2017	N	24	25	**9.3 J**	**14,700**	**572**	**27.6**	**5,170**	<4.7	<1.4	**1,480**	<3.4	**88.8**	**108**	**0.12 J**	<45	<45	<45	<45	<45
SAIA-SB/SG45	SAIA-SB45-35	04/25/2017	N	34	35	**10.1 J**	**12,600**	**615**	**27.4**	**4,410**	**0.85 J**	<1.3	<654	<3.3	**75.1**	**94.1**	**0.15**	<44	<44	<44	<44	<44
SAIA-SB/SG46	SAIA-SB46-0.5	04/26/2017	N	0	0.5	**305**	**5,660**	**484**	**21.3**	**3,040**	<3.8	<1.1	<539	<2.7	**37.5**	**306**	**0.082 J**	<35	<35	<35	<35	<35
SAIA-SB/SG46	SAIA-SB46-0.6	04/26/2017	FD	0	0.5	**243**	**5,440**	**388**	**17.8**	**2,870**	**0.38 J**	<1.1	<543	<2.7	**35.2**	**245**	**0.087 J**	<38	<38	<38	<38	<38
SAIA-SB/SG46	SAIA-SB46-2	04/26/2017	N	1	2	**8.3**	**7,730**	**381**	**12.9**	**4,510**	<4.2	<1.2	<599	<3	**44.9**	**68.9**	**0.053 J**	<37	<37	<37	<37	<37
SAIA-SB/SG46	SAIA-SB46-5	04/26/2017	N	4	5	**18.6**	**6,950**	**344**	**11.5**	**4,030**	**0.49 J**	<1.1	<569	<2.8	**40.6**	**72.3**	**0.046 J**	<39	<39	<39	<39	<39

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	PCBs by SW8082 (in ug/kg)			
						PCB-1254 (Arochlor 1254)	PCB-1260 (Arochlor 1260)	PCB-1262 (Arochlor 1262)	PCB-1268 (Arochlor 1268)
SAIA-SB/SG39	SAIA-SB39-2	04/17/2014	N	2	2	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-3	04/17/2014	FD	2	2	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-5	04/17/2014	N	5	5	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-15	04/17/2014	N	15	15	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-25	04/17/2014	N	25	25	--	--	--	--
SAIA-SB/SG39	SAIA-SB39-35	04/17/2014	N	35	35	--	--	--	--
SAIA-SB/SG44	SAIA-SB44-0.5	04/25/2017	N	0	0.5	<39	<39	<39	<39
SAIA-SB/SG44	SAIA-SB44-2	04/25/2017	N	1	2	<37	**4.5 J**	<37	<37
SAIA-SB/SG44	SAIA-SB44-5	04/25/2017	N	4	5	<42	<42	<42	<42
SAIA-SB/SG44	SAIA-SB44-15	04/25/2017	N	14	15	<39	<39	<39	<39
SAIA-SB/SG44	SAIA-SB44-25	04/25/2017	N	24	25	<43	<43	<43	<43
SAIA-SB/SG44	SAIA-SB44-26	04/25/2017	FD	24	25	<39	<39	<39	<39
SAIA-SB/SG44	SAIA-SB44-35	04/25/2017	N	34	35	<43	<43	<43	<43
SAIA-SB/SG45	SAIA-SB45-0.5	04/25/2017	N	0	0.5	<37	**23 J**	<37	<37
SAIA-SB/SG45	SAIA-SB45-2	04/25/2017	N	1	2	<39	<39	<39	<39
SAIA-SB/SG45	SAIA-SB45-5	04/25/2017	N	4	5	<40	<40	<40	<40
SAIA-SB/SG45	SAIA-SB45-15	04/25/2017	N	14	15	<44	<44	<44	<44
SAIA-SB/SG45	SAIA-SB45-25	04/25/2017	N	24	25	<45	<45	<45	<45
SAIA-SB/SG45	SAIA-SB45-35	04/25/2017	N	34	35	<44	<44	<44	<44
SAIA-SB/SG46	SAIA-SB46-0.5	04/26/2017	N	0	0.5	<35	**8 J**	<35	<35
SAIA-SB/SG46	SAIA-SB46-0.6	04/26/2017	FD	0	0.5	<38	**13 J**	<38	<38
SAIA-SB/SG46	SAIA-SB46-2	04/26/2017	N	1	2	<37	<37	<37	<37
SAIA-SB/SG46	SAIA-SB46-5	04/26/2017	N	4	5	<39	<39	<39	<39

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (in ug/kg)																				
						1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane (p-Dioxane)	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene
SAIA-SB/SG46	SAIA-SB46-15	04/26/2017	N	14	15	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	--	<11	<11	<11	<11	<5.5
SAIA-SB/SG46	SAIA-SB46-25	04/26/2017	N	24	25	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	--	<12	<12	<12	<12	<6.1
SAIA-SB/SG46	SAIA-SB46-35	04/26/2017	N	34	35	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	--	<12	<12	<12	<12	<5.9
SAIA-SB/SG47	SAIA-SB47-0.5	04/26/2017	N	0	0.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	--	<13	<13	<13	<13	<6.5
SAIA-SB/SG47	SAIA-SB47-2	04/26/2017	N	1	2	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	--	<12	<12	<12	<12	<5.9
SAIA-SB/SG47	SAIA-SB47-3	04/26/2017	FD	1	2	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	--	<14	<14	<14	<14	<7
SAIA-SB/SG47	SAIA-SB47-5	04/26/2017	N	4	5	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	--	<19	<19	<19	<19	<9.3
SAIA-SB/SG47	SAIA-SB47-15	04/26/2017	N	14	15	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	--	<12	<12	<12	<12	<6.1
SAIA-SB/SG47	SAIA-SB47-25	04/26/2017	N	24	25	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	--	<12	<12	<12	<12	<6.1
SAIA-SB/SG47	SAIA-SB47-35	04/26/2017	N	34	35	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	--	<13	<13	<13	<13	<6.5
SAIA-SB12	SAIA-SB12-0.5	04/02/2013	N	0.5	1	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<110	<11	<11	<11	<11	<5.6
SAIA-SB12	SAIA-SB12-02	04/02/2013	N	2	2.5	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<120	<12	<12	<12	<12	<5.9
SAIA-SB12	SAIA-SB12-05	04/02/2013	N	5	5.5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<110	<11	<11	<11	<11	<5.7
SAIA-SB12	SAIA-SB12-15	04/02/2013	N	15	15.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<110	<11	<11	<11	<11	<5.5
SAIA-SB12	SAIA-SB12-25	04/02/2013	N	25	25.5	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<120	<12	<12	<12	<12	<6
SAIA-SB12	SAIA-SB12-35	04/02/2013	N	35	35.5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<100	<10	<10	<10	<10	<5.1

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (in ug/kg)																							
						Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene (Cumene)	m,p-Xylene	Methyl Acetate	Methylcyclohexane	Methylene Chloride	o-Xylene	Styrene	tert-Butyl Methyl Ether (MTBE)
SAIA-SB/SG46	SAIA-SB46-15	04/26/2017	N	14	15	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB/SG46	SAIA-SB46-25	04/26/2017	N	24	25	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG46	SAIA-SB46-35	04/26/2017	N	34	35	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG47	SAIA-SB47-0.5	04/26/2017	N	0	0.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5
SAIA-SB/SG47	SAIA-SB47-2	04/26/2017	N	1	2	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB/SG47	SAIA-SB47-3	04/26/2017	FD	1	2	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7	<7
SAIA-SB/SG47	SAIA-SB47-5	04/26/2017	N	4	5	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3
SAIA-SB/SG47	SAIA-SB47-15	04/26/2017	N	14	15	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG47	SAIA-SB47-25	04/26/2017	N	24	25	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
SAIA-SB/SG47	SAIA-SB47-35	04/26/2017	N	34	35	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5
SAIA-SB12	SAIA-SB12-0.5	04/02/2013	N	0.5	1	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6
SAIA-SB12	SAIA-SB12-02	04/02/2013	N	2	2.5	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
SAIA-SB12	SAIA-SB12-05	04/02/2013	N	5	5.5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7
SAIA-SB12	SAIA-SB12-15	04/02/2013	N	15	15.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5
SAIA-SB12	SAIA-SB12-25	04/02/2013	N	25	25.5	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6
SAIA-SB12	SAIA-SB12-35	04/02/2013	N	35	35.5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Volatiles (ug/kg)							Semivolatiles (in ug/kg)															
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	1,2,4,5-Tetrachlorobenzene	1,4-Dioxane (p-Dioxane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol
SAIA-SB/SG46	SAIA-SB46-15	04/26/2017	N	14	15	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<210	<83	<210	<210	<210	<210	<210	<410	<210	<210	<210	<210	<210	<410	<210	<210
SAIA-SB/SG46	SAIA-SB46-25	04/26/2017	N	24	25	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<220	<88	<220	<220	<220	<220	<220	<430	<220	<220	<220	<220	<220	<430	<220	<220
SAIA-SB/SG46	SAIA-SB46-35	04/26/2017	N	34	35	<5.9	<5.9	<5.9	<5.9	**7.1**	<5.9	<5.9	<220	<85	<220	<220	<220	<220	<220	<420	<220	<220	<220	<220	<220	<420	<220	<220
SAIA-SB/SG47	SAIA-SB47-0.5	04/26/2017	N	0	0.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<180	<73	<180	<180	<180	<180	<180	<360	<180	<180	<180	<180	<180	<360	<180	<180
SAIA-SB/SG47	SAIA-SB47-2	04/26/2017	N	1	2	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<190	<74	<190	<190	<190	<190	<190	<360	<190	<190	<190	<190	<190	<360	<190	<190
SAIA-SB/SG47	SAIA-SB47-3	04/26/2017	FD	1	2	<7	<7	<7	<7	<7	<7	<7	<190	<75	<190	<190	<190	<190	<190	<370	<190	<190	<190	<190	<190	<370	<190	<190
SAIA-SB/SG47	SAIA-SB47-5	04/26/2017	N	4	5	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<9.3	<190	<76	<190	<190	<190	<190	<190	<380	<190	<190	<190	<190	<190	<380	<190	<190
SAIA-SB/SG47	SAIA-SB47-15	04/26/2017	N	14	15	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<210	<84	<210	<210	<210	<210	<210	<410	<210	<210	<210	<210	<210	<410	<210	<210
SAIA-SB/SG47	SAIA-SB47-25	04/26/2017	N	24	25	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<220	<87	<220	<220	<220	<220	<220	<430	<220	<220	<220	<220	<220	<430	<220	<220
SAIA-SB/SG47	SAIA-SB47-35	04/26/2017	N	34	35	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<220	<87	<220	<220	<220	<220	<220	<430	<220	<220	<220	<220	<220	<430	<220	<220
SAIA-SB12	SAIA-SB12-0.5	04/02/2013	N	0.5	1	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	**120 J**	<180	<350	<180
SAIA-SB12	SAIA-SB12-02	04/02/2013	N	2	2.5	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180
SAIA-SB12	SAIA-SB12-05	04/02/2013	N	5	5.5	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<190	--	<190	<190	<190	<190	<190	<380	<190	<190	<190	<190	<190	<190	<380	<190
SAIA-SB12	SAIA-SB12-15	04/02/2013	N	15	15.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<200	--	<200	<200	<200	<200	<200	<380	<200	<200	<200	<200	<200	<200	<380	<200
SAIA-SB12	SAIA-SB12-25	04/02/2013	N	25	25.5	<6	<6	<6	<6	<6	<6	<6	<230	--	<230	<230	<230	<230	<230	<450	<230	<230	<230	<230	<230	<230	<450	<230
SAIA-SB12	SAIA-SB12-35	04/02/2013	N	35	35.5	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<180	--	<180	<180	<180	<180	<180	<350	<180	<180	<180	<180	<180	<180	<350	<180

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Semivolatile (ug/kg)																			
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	3,3'-Dichlorobenzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl phenyl ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl Phenyl Ether	4-Methylphenol (p-Cresol)	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzaldehyde	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
SAIA-SB/SG46	SAIA-SB46-15	04/26/2017	N	14	15	<410	<410	<410	<210	<210	<410	<210	<410	<410	<410	<210	<210	<410	<210	<410	<410	<210	<210	<210	<210
SAIA-SB/SG46	SAIA-SB46-25	04/26/2017	N	24	25	<430	<430	<430	<220	<220	<430	<220	<430	<430	<430	<220	<220	<430	<220	<430	<430	<220	<220	<220	<220
SAIA-SB/SG46	SAIA-SB46-35	04/26/2017	N	34	35	<420	<420	<420	<220	<220	<420	<220	<420	<420	<420	<220	<220	<420	<220	<420	<420	<220	<220	<220	<220
SAIA-SB/SG47	SAIA-SB47-0.5	04/26/2017	N	0	0.5	<360	<360	<360	<180	<180	<360	<180	<360	<360	<360	**42 J**	<180	<360	**78 J**	<360	<360	**370**	**360**	**390**	**110 J**
SAIA-SB/SG47	SAIA-SB47-2	04/26/2017	N	1	2	<360	<360	<360	<190	<190	<360	<190	<360	<360	<360	<190	<190	<360	<190	<360	<360	<190	<190	<190	<190
SAIA-SB/SG47	SAIA-SB47-3	04/26/2017	FD	1	2	<370	<370	<370	<190	<190	<370	<190	<370	<370	<370	<190	<190	<370	<190	<370	<370	<190	<190	<190	<190
SAIA-SB/SG47	SAIA-SB47-5	04/26/2017	N	4	5	<380	<380	<380	<190	<190	<380	<190	<380	<380	<380	<190	<190	<380	<190	<380	<380	<190	<190	<190	<190
SAIA-SB/SG47	SAIA-SB47-15	04/26/2017	N	14	15	<410	<410	<410	<210	<210	<410	<210	<410	<410	<410	<210	<210	<410	<210	<410	<410	<210	<210	<210	<210
SAIA-SB/SG47	SAIA-SB47-25	04/26/2017	N	24	25	<430	<430	<430	<220	<220	<430	<220	<430	<430	<430	<220	<220	<430	<220	<430	<430	<220	<220	<220	<220
SAIA-SB/SG47	SAIA-SB47-35	04/26/2017	N	34	35	<430	<430	<430	<220	<220	<430	<220	<430	<430	<430	<220	<220	<430	<220	<430	<430	<220	<220	<220	<220
SAIA-SB12	SAIA-SB12-0.5	04/02/2013	N	0.5	1	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB12	SAIA-SB12-02	04/02/2013	N	2	2.5	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB12	SAIA-SB12-05	04/02/2013	N	5	5.5	<190	<380	<380	<190	<190	<190	<190	<190	<380	<380	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB12	SAIA-SB12-15	04/02/2013	N	15	15.5	<200	<380	<380	<200	<200	<200	<200	<200	<380	<380	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB12	SAIA-SB12-25	04/02/2013	N	25	25.5	<230	<450	<450	<230	<230	<230	<230	<230	<450	<450	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230
SAIA-SB12	SAIA-SB12-35	04/02/2013	N	35	35.5	<180	<350	<350	<180	<180	<180	<180	<180	<350	<350	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Semivolatiles (in ug/kg)																					
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Benzo(k)fluoranthene	Benzyl butyl phthalate	Biphenyl (Diphenyl)	bis(2-Chloroethoxy) Methane	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	bis(2-Chloroisopropyl) Ether	bis(2-Ethylhexyl) Phthalate	Caprolactam	Carbazole	Chrysene	Di-n-Butyl Phthalate	Di-n-Octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Phthalate	Dimethyl Phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-c,d)pyrene
SAIA-SB/SG46	SAIA-SB46-15	04/26/2017	N	14	15	<210	<210	<210	<210	<410	<410	<210	<410	<410	<210	<210	<210	<210	**360 J**	<210	<410	<410	<210	<210	<210	<410	<210	<210
SAIA-SB/SG46	SAIA-SB46-25	04/26/2017	N	24	25	<220	<220	<220	<220	<430	<430	<220	<430	<430	<220	<220	<220	<220	**360**	<220	<430	<430	<220	<220	<220	<430	<220	<220
SAIA-SB/SG46	SAIA-SB46-35	04/26/2017	N	34	35	<220	<220	<220	<220	<420	<420	<220	<420	<420	<220	<220	<220	<220	**280**	<220	<420	<420	<220	<220	<220	<420	<220	<220
SAIA-SB/SG47	SAIA-SB47-0.5	04/26/2017	N	0	0.5	**270**	<180	<180	<180	<360	<360	<180	<360	**83 J**	**510**	**43 J**	**69 J**	<180	**220**	<180	<360	**1,000**	**94 J**	<180	<180	<360	<180	**130 J**
SAIA-SB/SG47	SAIA-SB47-2	04/26/2017	N	1	2	<190	<190	<190	<190	<360	<360	<190	<360	<360	<190	<190	<190	<190	**330**	<190	<360	<360	<190	<190	<190	<360	<190	<190
SAIA-SB/SG47	SAIA-SB47-3	04/26/2017	FD	1	2	<190	<190	<190	<190	<370	<370	<190	<370	<370	<190	<190	<190	<190	**300**	<190	<370	<370	<190	<190	<190	<370	<190	<190
SAIA-SB/SG47	SAIA-SB47-5	04/26/2017	N	4	5	<190	<190	<190	<190	<380	<380	<190	<380	<380	<190	<190	<190	<190	**340**	<190	<380	<380	<190	<190	<190	<380	<190	<190
SAIA-SB/SG47	SAIA-SB47-15	04/26/2017	N	14	15	<210	<210	<210	<210	<410	<410	<210	<410	<410	<210	<210	<210	<210	**360**	<210	<410	<410	<210	<210	<210	<410	<210	<210
SAIA-SB/SG47	SAIA-SB47-25	04/26/2017	N	24	25	<220	<220	<220	<220	<430	<430	<220	<430	<430	<220	<220	<220	<220	**500**	<220	<430	<430	<220	<220	<220	<430	<220	<220
SAIA-SB/SG47	SAIA-SB47-35	04/26/2017	N	34	35	<220	<220	<220	<220	<430	<430	<220	<430	<430	<220	<220	<220	<220	**510**	<220	<430	<430	<220	<220	<220	<430	<220	<220
SAIA-SB12	SAIA-SB12-0.5	04/02/2013	N	0.5	1	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB12	SAIA-SB12-02	04/02/2013	N	2	2.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180
SAIA-SB12	SAIA-SB12-05	04/02/2013	N	5	5.5	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190	<190
SAIA-SB12	SAIA-SB12-15	04/02/2013	N	15	15.5	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
SAIA-SB12	SAIA-SB12-25	04/02/2013	N	25	25.5	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230	<230
SAIA-SB12	SAIA-SB12-35	04/02/2013	N	35	35.5	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180	<180

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Semivolatiles (in ug/kg)									Metals by E200.7 (in mg/kg)									
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Isophorone	Naphthalene	Nitrobenzene	n-Nitrosodi-n-propylamine	n-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron
SAIA-SB/SG46	SAIA-SB46-15	04/26/2017	N	14	15	<210	<210	<210	<210	<210	<410	<210	**51 J**	<210	**25,000**	**0.57 J**	**3.7**	**173**	**0.69**	<0.64	**15,000**	**28.7**	**16.1**	**30.7 J**	**30,300**
SAIA-SB/SG46	SAIA-SB46-25	04/26/2017	N	24	25	<220	<220	<220	<220	<220	<430	<220	**53 J**	<220	**32,600**	**0.5 J**	**9.5**	**218**	**0.89**	<0.65	**13,400**	**35.5**	**20.7**	**40.7 J**	**38,400**
SAIA-SB/SG46	SAIA-SB46-35	04/26/2017	N	34	35	<220	<220	<220	<220	<220	<420	<220	**46 J**	<220	**25,500**	**0.52 J**	**22.1**	**179**	**0.71**	<0.62	**21,400**	**28.7**	**16.7**	**29.9 J**	**32,700**
SAIA-SB/SG47	SAIA-SB47-0.5	04/26/2017	N	0	0.5	<180	**66 J**	<180	<180	<180	<360	**1,000**	**43 J**	**860**	**12,500**	**1.4 J**	**2.6**	**116**	<0.55	**0.92**	**7,460**	**23.1**	**10.6**	**55.7 J**	**20,800**
SAIA-SB/SG47	SAIA-SB47-2	04/26/2017	N	1	2	<190	<190	<190	<190	<190	<360	<190	**67 J**	<190	**13,300**	**0.51 J**	**0.93 J**	**115**	<0.56	<0.56	**7,420**	**17**	**11.1**	**13.9 J**	**21,200**
SAIA-SB/SG47	SAIA-SB47-3	04/26/2017	FD	1	2	<190	<190	<190	<190	<190	<370	<190	**65 J**	<190	**14,500**	**0.38 J**	**1.5**	**121**	<0.58	<0.58	**8,050**	**18.5**	**11.8**	**15.8 J**	**22,800**
SAIA-SB/SG47	SAIA-SB47-5	04/26/2017	N	4	5	<190	<190	<190	<190	<190	<380	<190	**78 J**	<190	**14,500**	**0.35 J**	**1.3**	**120**	<0.56	<0.56	**7,950**	**18.2**	**11.8**	**16.4 J**	**22,300**
SAIA-SB/SG47	SAIA-SB47-15	04/26/2017	N	14	15	<210	<210	<210	<210	<210	<410	<210	**97 J**	<210	**17,600**	**0.36 J**	**1.8**	**131**	<0.61	<0.61	**15,200**	**22.1**	**13.4**	**18.2 J**	**26,000**
SAIA-SB/SG47	SAIA-SB47-25	04/26/2017	N	24	25	<220	<220	<220	<220	<220	<430	<220	**100 J**	<220	**33,100**	**0.53 J**	**2.6**	**235**	**0.94**	<0.67	**20,600**	**34.9**	**20.5**	**42.1 J**	**37,200**
SAIA-SB/SG47	SAIA-SB47-35	04/26/2017	N	34	35	<220	<220	<220	<220	<220	<430	<220	**120 J**	<220	**26,000**	**0.37 J**	**13.6**	**211**	**0.68**	<0.66	**13,200**	**30**	**20**	**28.5 J**	**35,900**
SAIA-SB12	SAIA-SB12-0.5	04/02/2013	N	0.5	1	<180	<180	<180	<180	<180	<350	<180	<180	<180	**13,300**	**8 J**	**2.7**	**126**	<0.51	<0.51	**7,550**	**18**	**9.6**	**15.5**	**23,300**
SAIA-SB12	SAIA-SB12-02	04/02/2013	N	2	2.5	<180	<180	<180	<180	<180	<350	<180	<180	<180	**11,600**	<5.51	**2.1**	**109**	<0.46	<0.46	**6,290**	**14.6**	**8.2**	**11.8**	**19,300**
SAIA-SB12	SAIA-SB12-05	04/02/2013	N	5	5.5	<190	<190	<190	<190	<190	<380	<190	<190	<190	**21,200**	R	**2.9**	**198**	<0.53	<0.53	**9,990**	**28.1**	**15**	**23.8 J**	**32,200**
SAIA-SB12	SAIA-SB12-15	04/02/2013	N	15	15.5	<200	<200	<200	<200	<200	<380	<200	<200	<200	**18,600**	<6.34	**3**	**160**	<0.53	<0.53	**10,300**	**24.8**	**12.4**	**21.4**	**28,500**
SAIA-SB12	SAIA-SB12-25	04/02/2013	N	25	25.5	<230	<230	<230	<230	<230	<450	<230	<230	<230	**14,300**	<6.32	**10.3**	**141**	<0.53	<0.53	**7,480**	**25.9**	**11.7**	**23.3**	**27,000**
SAIA-SB12	SAIA-SB12-35	04/02/2013	N	35	35.5	<180	<180	<180	<180	<180	<350	<180	<180	<180	**9,990**	<4.50	**11.8**	**92.5**	<0.37	<0.37	**4,450**	**12.3**	**7.6**	**9.8**	**17,800**

Appendix E-1
Analytical Results for Soil Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

						Metals by E200.7 (in mg/kg)			Metals by E200.7 (in mg/kg)								Metals by C245_5 (in mg/kg)	PCBs by SW8082 (in ug/kg)				
Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Mercury	PCB-1016 (Arochlor 1016)	PCB-1221 (Arochlor 1221)	PCB-1232 (Arochlor 1232)	PCB-1242 (Arochlor 1242)	PCB-1248 (Arochlor 1248)
SAIA-SB/SG46	SAIA-SB46-15	04/26/2017	N	14	15	**6.7**	**11,100**	**522**	**20.9**	**5,280**	**0.71 J**	<1.3	**921**	<3.2	**62.9**	**93.7**	**0.064 J**	<41	<41	<41	<41	<41
SAIA-SB/SG46	SAIA-SB46-25	04/26/2017	N	24	25	**8.5**	**14,100**	**572**	**26.9**	**5,510**	<4.6	<1.3	**1,280**	<3.2	**76.5**	**112**	**0.048 J**	<43	<43	<43	<43	<43
SAIA-SB/SG46	SAIA-SB46-35	04/26/2017	N	34	35	**7.1**	**11,700**	**578**	**21.4**	**4,800**	<4.4	<1.2	**678**	<3.1	**63.8**	**90.4**	**0.18**	<42	<42	<42	<42	<42
SAIA-SB/SG47	SAIA-SB47-0.5	04/26/2017	N	0	0.5	**137**	**6,190**	**359**	**20.3**	**3,550**	**0.52 J**	<1.1	<546	<2.7	**39.5**	**176**	**0.064 J**	<36	<36	<36	<36	<36
SAIA-SB/SG47	SAIA-SB47-2	04/26/2017	N	1	2	**8**	**6,950**	**346**	**11.2**	**4,240**	**0.45 J**	<1.1	<559	<2.8	**41.5**	**64.6**	**0.032 J**	<36	<36	<36	<36	<36
SAIA-SB/SG47	SAIA-SB47-3	04/26/2017	FD	1	2	**19.1**	**7,470**	**388**	**12.5**	**4,490**	<4.1	<1.2	<580	<2.9	**44.5**	**79.7**	**0.045 J**	<37	<37	<37	<37	<37
SAIA-SB/SG47	SAIA-SB47-5	04/26/2017	N	4	5	**8.8**	**7,400**	**357**	**12.6**	**4,280**	<3.9	<1.1	<560	<2.8	**43.6**	**69.4**	**0.04 J**	<38	<38	<38	<38	<38
SAIA-SB/SG47	SAIA-SB47-15	04/26/2017	N	14	15	**7.6**	**8,970**	**500**	**14.8**	**4,850**	**0.44 J**	<1.2	**767**	<3	**54.1**	**75.1**	**0.052 J**	<41	<41	<41	<41	<41
SAIA-SB/SG47	SAIA-SB47-25	04/26/2017	N	24	25	**9.3**	**13,800**	**667**	**26.2**	**5,540**	**0.65 J**	<1.3	**941**	<3.3	**75.6**	**115**	**0.17**	<43	<43	<43	<43	<43
SAIA-SB/SG47	SAIA-SB47-35	04/26/2017	N	34	35	**6**	**13,200**	**604**	**22.5**	**6,340**	**3 J**	<1.3	<661	<3.3	**71.2**	**104**	**0.082 J**	<43	<43	<43	<43	<43
SAIA-SB12	SAIA-SB12-0.5	04/02/2013	N	0.5	1	**446**	**7,290**	**334**	**12.6**	**4,720**	<3.55	<1.01	<507	<2.54	**41**	**64.5**	**0.032 J**	<35	<35	<35	<35	**15 J**
SAIA-SB12	SAIA-SB12-02	04/02/2013	N	2	2.5	**7.6**	**6,260**	**280**	**10**	**3,860**	<3.22	<0.92	<459	<2.30	**36**	**50.5**	**0.032 J**	<35	<35	<35	<35	<35
SAIA-SB12	SAIA-SB12-05	04/02/2013	N	5	5.5	**7.4**	**11,600**	**510**	**20**	**6,150**	<3.73	<1.07	<533	<2.66	**59.6**	**86.9**	**0.075 J**	<38	<38	<38	<38	**9.8 J**
SAIA-SB12	SAIA-SB12-15	04/02/2013	N	15	15.5	**4.8**	**9,520**	**448**	**17**	**4,610**	<3.70	<1.06	**1,300 J**	<2.64	**57.1**	**69.7**	**0.057 J**	<39	<39	<39	<39	<39
SAIA-SB12	SAIA-SB12-25	04/02/2013	N	25	25.5	**5.3**	**8,860**	**462**	**20.4**	**3,050**	<3.69	<1.05	**687 J**	<2.63	**44.2**	**60.3**	**0.005 J**	<45	<45	<45	<45	<45
SAIA-SB12	SAIA-SB12-35	04/02/2013	N	35	35.5	**2.4**	**5,910**	**264**	**8.6**	**3,240**	<2.62	<0.75	**424 J**	<1.87	**30.7**	**44.5**	**0.019 J**	<34	<34	<34	<34	**12 J**

Appendix E-1
Analytical Results for Soil Samples
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Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	PCBs by SW8082 (in ug/kg)			
						PCB-1254 (Arochlor 1254)	PCB-1260 (Arochlor 1260)	PCB-1262 (Arochlor 1262)	PCB-1268 (Arochlor 1268)
SAIA-SB/SG46	SAIA-SB46-15	04/26/2017	N	14	15	<41	<41	<41	<41
SAIA-SB/SG46	SAIA-SB46-25	04/26/2017	N	24	25	<43	<43	<43	<43
SAIA-SB/SG46	SAIA-SB46-35	04/26/2017	N	34	35	<42	<42	<42	<42
SAIA-SB/SG47	SAIA-SB47-0.5	04/26/2017	N	0	0.5	<36	**27 J**	<36	<36
SAIA-SB/SG47	SAIA-SB47-2	04/26/2017	N	1	2	<36	<36	<36	<36
SAIA-SB/SG47	SAIA-SB47-3	04/26/2017	FD	1	2	<37	<37	<37	<37
SAIA-SB/SG47	SAIA-SB47-5	04/26/2017	N	4	5	<38	<38	<38	<38
SAIA-SB/SG47	SAIA-SB47-15	04/26/2017	N	14	15	<41	<41	<41	<41
SAIA-SB/SG47	SAIA-SB47-25	04/26/2017	N	24	25	<43	<43	<43	<43
SAIA-SB/SG47	SAIA-SB47-35	04/26/2017	N	34	35	<43	<43	<43	<43
SAIA-SB12	SAIA-SB12-0.5	04/02/2013	N	0.5	1	<35	<35	<35	<35
SAIA-SB12	SAIA-SB12-02	04/02/2013	N	2	2.5	<35	<35	<35	<35
SAIA-SB12	SAIA-SB12-05	04/02/2013	N	5	5.5	<38	<38	<38	<38
SAIA-SB12	SAIA-SB12-15	04/02/2013	N	15	15.5	<39	<39	<39	<39
SAIA-SB12	SAIA-SB12-25	04/02/2013	N	25	25.5	<45	<45	<45	<45
SAIA-SB12	SAIA-SB12-35	04/02/2013	N	35	35.5	<34	<34	<34	<34

Notes:
Detected results shown in bold
ID = identification number
FD = Field duplicate sample results
J = Concentration is estimated because it falls between the method detection limit and laboratory reporting limit.
mg/kg = Milligrams per kilogram
N = Normal sample results
PCB = Polychlorinated biphenyl
R = Rejected results
ug/kg = Micrograms per kilogram
-- = Not analyzed

Appendix E-2

Analytical Results for Soil Gas Samples

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (in ug/m3)											
						1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Difluoroethane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene
SAIA-SB/SG01	SG1-5, P4330cc	04/12/2013	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG01	SG1-15, P4814cc	04/12/2013	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG01	SG1-25, P5298cc	04/12/2013	N	25	25	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG01	SG1-35, P5806cc	04/12/2013	N	35	35	<350	<280	<350	<390	<280	<410	<200	<270	<380	<250	--	--
SAIA-SB/SG02	SAIA-SG02-D05-E0413	04/11/2013	N	5	5	--	<100	<100	<100	<100	**40 J**	<80	--	<100	<90	<100	<100
SAIA-SB/SG02	SG2-5 Rep, P5580cc	04/11/2013	FD	5	5	<87	<69	<87	<96	<69	<100	<50	<68	<94	<62	--	--
SAIA-SB/SG02	SG2-5, P4330cc	04/11/2013	N	5	5	<87	<69	<87	<96	<69	<100	<50	<68	<94	<62	--	--
SAIA-SB/SG02	SG2-15, P4814cc	04/11/2013	N	15	15	<35	<28	<35	<39	<28	**110**	<20	<27	<38	**26**	--	--
SAIA-SB/SG02	SG2-25, P5298cc	04/11/2013	N	25	25	<87	<69	<87	<96	<69	**280**	**320**	<68	<94	<62	--	--
SAIA-SB/SG02	SG2-35, P5806cc	04/11/2013	N	35	35	<87	<69	<87	<96	<69	**8,100**	**1,300**	<68	<94	<62	--	--
SAIA-SB/SG03	SG3-5 Rep, P4380cc	04/10/2013	FD	5	5	<3500	<2800	<3500	<3900	<2800	**21,000**	<2000	<2700	<3800	**23,000**	--	--
SAIA-SB/SG03	SG3-5, P4330cc	04/10/2013	N	5	5	<3500	<2800	<3500	<3900	<2800	**17,000**	<2000	<2700	<3800	**14,000**	--	--
SAIA-SB/SG03	SG3-15, P4814cc	04/11/2013	N	15	15	<870	<690	<870	<960	<690	<1000	<500	<680	<940	<620	--	--
SAIA-SB/SG03	SG3-25, P5298cc	04/10/2013	N	25	25	<3500	<2800	<3500	<3900	<2800	**16,000**	**3,400**	<2700	<3800	**5,800**	--	--
SAIA-SB/SG03	SG3-35, P5806cc	04/11/2013	N	35	35	<44000	<34000	<44000	<48000	<34000	**190,000**	<25000	<34000	<47000	<31000	--	--
SAIA-SB/SG04	SG4-5, P4330cc	04/11/2013	N	5	5	<35	**160**	<35	<39	<28	**1,900**	**120**	<27	<38	**320**	--	--
SAIA-SB/SG04	SG4-15, P4814cc	04/11/2013	N	15	15	<1700	<1400	<1700	<1900	<1400	**2,800**	<1000	<1400	<1900	<1200	--	--
SAIA-SB/SG04	SG4-25, P5298cc	04/11/2013	N	25	25	<1700	<1400	<1700	<1900	<1400	**11,000**	<1000	<1400	<1900	<1200	--	--
SAIA-SB/SG04	SG4-35, P5806cc	04/11/2013	N	35	35	<4400	<3400	<4400	<4800	<3400	**23,000**	<2500	<3400	<4700	<3100	--	--
SAIA-SB/SG05	SG5-5 Rep, P4380cc	04/16/2013	FD	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG05	SG5-5, P4330cc	04/16/2013	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG05	SG5-15, P4814cc	04/16/2013	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG05	SG5-25, P5298cc	04/16/2013	N	25	25	<35	<28	<35	<39	<28	<41	**30**	<27	<38	<25	--	--
SAIA-SB/SG05	SG5-35, P5806cc	04/16/2013	N	35	35	<350	<280	<350	<390	<280	<410	<200	<270	<380	<250	--	--
SAIA-SB/SG06	SG6-5, 10PV, P4330cc	04/08/2013	N	5	5	<35	<28	<35	<39	<28	**270**	**61**	<27	<38	**2,300**	--	--
SAIA-SB/SG06	SG6-5, 1PV, P433cc	04/08/2013	N	5	5	<35	<28	<35	<39	<28	**250**	**68**	<27	<38	**1,800**	--	--
SAIA-SB/SG06	SG6-5, 3PV, P1299cc	04/08/2013	N	5	5	<35	<28	<35	<39	<28	**220**	**44**	<27	<38	**1,600**	--	--
SAIA-SB/SG06	SG6-15, 1PV, P481cc	04/08/2013	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	**180**	--	--
SAIA-SB/SG06	SG6-15, 3PV, P1443cc	04/08/2013	N	15	15	<35	<28	<35	<39	<28	<41	**39**	<27	<38	**120**	--	--
SAIA-SB/SG06	SG6-25, 10PV, P5298cc	04/08/2013	N	25	25	<35	<28	<35	<39	<28	**1,900**	**6,800**	<27	<38	**890**	--	--

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
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Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)											
						1,2-Dichloroethane	1,2-Dichloropropane	1,2-Dichlorotetrafluoroethane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane (p-Dioxane)	Benzene	Bromodichloromethane	Bromomethane	Carbon Tetrachloride	Chlorobenzene
SAIA-SB/SG01	SG1-5, P4330cc	04/12/2013	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG01	SG1-15, P4814cc	04/12/2013	N	15	15	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG01	SG1-25, P5298cc	04/12/2013	N	25	25	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG01	SG1-35, P5806cc	04/12/2013	N	35	35	<210	--	--	<250	--	<300	<360	<160	<340	<390	<130	--
SAIA-SB/SG02	SAIA-SG02-D05-E0413	04/11/2013	N	5	5	<80	<90	<100	<90	<100	<100	--	<60	--	<70	<100	<90
SAIA-SB/SG02	SG2-5 Rep, P5580cc	04/11/2013	FD	5	5	<51	--	--	<62	--	<76	<91	<40	<85	<99	<32	--
SAIA-SB/SG02	SG2-5, P4330cc	04/11/2013	N	5	5	<51	--	--	<62	--	<76	<91	<40	<85	<99	<32	--
SAIA-SB/SG02	SG2-15, P4814cc	04/11/2013	N	15	15	<21	--	--	<25	--	<30	<36	**41**	<34	<39	<13	--
SAIA-SB/SG02	SG2-25, P5298cc	04/11/2013	N	25	25	<51	--	--	<62	--	<76	<91	<40	<85	<99	<32	--
SAIA-SB/SG02	SG2-35, P5806cc	04/11/2013	N	35	35	**75**	--	--	<62	--	<76	<91	**75**	<85	<99	<32	--
SAIA-SB/SG03	SG3-5 Rep, P4380cc	04/10/2013	FD	5	5	<2100	--	--	**6,100**	--	<3000	<3600	<1600	<3400	<3900	<1300	--
SAIA-SB/SG03	SG3-5, P4330cc	04/10/2013	N	5	5	<2100	--	--	**4,300**	--	<3000	<3600	<1600	<3400	<3900	<1300	--
SAIA-SB/SG03	SG3-15, P4814cc	04/11/2013	N	15	15	<510	--	--	<620	--	<760	<910	<400	<850	<990	<320	--
SAIA-SB/SG03	SG3-25, P5298cc	04/10/2013	N	25	25	<2100	--	--	<2500	--	<3000	<3600	<1600	<3400	<3900	<1300	--
SAIA-SB/SG03	SG3-35, P5806cc	04/11/2013	N	35	35	<26000	--	--	<31000	--	<38000	<46000	<20000	<43000	<49000	<16000	--
SAIA-SB/SG04	SG4-5, P4330cc	04/11/2013	N	5	5	<21	--	--	**79**	--	<30	<36	**70**	<34	<39	<13	--
SAIA-SB/SG04	SG4-15, P4814cc	04/11/2013	N	15	15	<1000	--	--	<1200	--	<1500	<1800	<810	<1700	<2000	<640	--
SAIA-SB/SG04	SG4-25, P5298cc	04/11/2013	N	25	25	<1000	--	--	<1200	--	<1500	<1800	<810	<1700	<2000	<640	--
SAIA-SB/SG04	SG4-35, P5806cc	04/11/2013	N	35	35	<2600	--	--	<3100	--	<3800	<4600	<2000	<4300	<4900	<1600	--
SAIA-SB/SG05	SG5-5 Rep, P4380cc	04/16/2013	FD	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG05	SG5-5, P4330cc	04/16/2013	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG05	SG5-15, P4814cc	04/16/2013	N	15	15	<21	--	--	<25	--	<30	<36	**70**	<34	<39	<13	--
SAIA-SB/SG05	SG5-25, P5298cc	04/16/2013	N	25	25	<21	--	--	<25	--	<30	<36	**170**	<34	<39	<13	--
SAIA-SB/SG05	SG5-35, P5806cc	04/16/2013	N	35	35	<210	--	--	<250	--	<300	<360	<160	<340	<390	<130	--
SAIA-SB/SG06	SG6-5, 10PV, P4330cc	04/08/2013	N	5	5	<21	--	--	**710**	--	<30	<36	**36**	<34	<39	<13	--
SAIA-SB/SG06	SG6-5, 1PV, P433cc	04/08/2013	N	5	5	<21	--	--	**590**	--	<30	<36	**36**	<34	<39	<13	--
SAIA-SB/SG06	SG6-5, 3PV, P1299cc	04/08/2013	N	5	5	<21	--	--	**540**	--	<30	<36	**43**	<34	<39	<13	--
SAIA-SB/SG06	SG6-15, 1PV, P481cc	04/08/2013	N	15	15	<21	--	--	**44**	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG06	SG6-15, 3PV, P1443cc	04/08/2013	N	15	15	<21	--	--	**34**	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG06	SG6-25, 10PV, P5298cc	04/08/2013	N	25	25	<21	--	--	**320**	--	<30	<36	**530**	<34	<39	<13	--

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)											
						Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropanol	Isopropylbenzene (Cumene)	m,p-Xylene	Methylene Chloride
SAIA-SB/SG01	SG1-5, P4330cc	04/12/2013	N	5	5	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG01	SG1-15, P4814cc	04/12/2013	N	15	15	<27	<25	<21	**44**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG01	SG1-25, P5298cc	04/12/2013	N	25	25	<27	<25	<21	**250**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG01	SG1-35, P5806cc	04/12/2013	N	35	35	<270	<250	<210	**1,900**	--	<250	<220	--	--	<250	<440	<180
SAIA-SB/SG02	SAIA-SG02-D05-E0413	04/11/2013	N	5	5	<50	<90	<40	--	<90	--	<80	<200	--	--	<200	<70
SAIA-SB/SG02	SG2-5 Rep, P5580cc	04/11/2013	FD	5	5	<67	<62	<52	**790**	--	<63	<55	--	--	<62	<110	<44
SAIA-SB/SG02	SG2-5, P4330cc	04/11/2013	N	5	5	<67	<62	<52	**1,600**	--	<63	<55	--	--	<62	<110	<44
SAIA-SB/SG02	SG2-15, P4814cc	04/11/2013	N	15	15	<27	<25	<21	**2,700**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG02	SG2-25, P5298cc	04/11/2013	N	25	25	<67	<62	<52	**6,700**	--	<63	<55	--	--	<62	<110	<44
SAIA-SB/SG02	SG2-35, P5806cc	04/11/2013	N	35	35	<67	<62	<52	**360,000**	--	<63	<55	--	--	<62	<110	<44
SAIA-SB/SG03	SG3-5 Rep, P4380cc	04/10/2013	FD	5	5	<2700	<2500	<2100	**330,000**	--	<2500	<2200	--	--	<2500	**4,800**	<1800
SAIA-SB/SG03	SG3-5, P4330cc	04/10/2013	N	5	5	<2700	<2500	<2100	**210,000**	--	<2500	<2200	--	--	<2500	<4400	<1800
SAIA-SB/SG03	SG3-15, P4814cc	04/11/2013	N	15	15	<670	<620	<520	**8,400**	--	<630	<550	--	--	<620	<1100	<440
SAIA-SB/SG03	SG3-25, P5298cc	04/10/2013	N	25	25	<2700	<2500	<2100	**130,000**	--	<2500	<2200	--	--	<2500	<4400	<1800
SAIA-SB/SG03	SG3-35, P5806cc	04/11/2013	N	35	35	<33000	<31000	<26000	**4,900,000**	--	<31000	<27000	--	--	<31000	<55000	<22000
SAIA-SB/SG04	SG4-5, P4330cc	04/11/2013	N	5	5	<27	**120**	<21	**40,000**	--	<25	**26**	--	--	**54**	**53**	<18
SAIA-SB/SG04	SG4-15, P4814cc	04/11/2013	N	15	15	<1300	<1200	<1000	**13,000**	--	<1300	<1100	--	--	<1200	<2200	<880
SAIA-SB/SG04	SG4-25, P5298cc	04/11/2013	N	25	25	<1300	<1200	<1000	**77,000**	--	<1300	<1100	--	--	<1200	<2200	<880
SAIA-SB/SG04	SG4-35, P5806cc	04/11/2013	N	35	35	<3300	<3100	<2600	**650,000**	--	<3100	<2700	--	--	<3100	<5500	<2200
SAIA-SB/SG05	SG5-5 Rep, P4380cc	04/16/2013	FD	5	5	<27	<25	<21	**240**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG05	SG5-5, P4330cc	04/16/2013	N	5	5	<27	<25	<21	**210**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG05	SG5-15, P4814cc	04/16/2013	N	15	15	<27	<25	<21	**80**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG05	SG5-25, P5298cc	04/16/2013	N	25	25	<27	<25	<21	**200**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG05	SG5-35, P5806cc	04/16/2013	N	35	35	<270	<250	<210	**810**	--	<250	<220	--	--	<250	<440	<180
SAIA-SB/SG06	SG6-5, 10PV, P4330cc	04/08/2013	N	5	5	<27	<25	<21	**1,800**	--	**45**	**180**	--	--	**150**	**680**	<18
SAIA-SB/SG06	SG6-5, 1PV, P433cc	04/08/2013	N	5	5	<27	<25	<21	**1,800**	--	**47**	**190**	--	--	**130**	**660**	<18
SAIA-SB/SG06	SG6-5, 3PV, P1299cc	04/08/2013	N	5	5	<27	<25	<21	**1,500**	--	**33**	**160**	--	--	**130**	**570**	<18
SAIA-SB/SG06	SG6-15, 1PV, P481cc	04/08/2013	N	15	15	<27	<25	<21	**1,800**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG06	SG6-15, 3PV, P1443cc	04/08/2013	N	15	15	<27	<25	<21	**3,800**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG06	SG6-25, 10PV, P5298cc	04/08/2013	N	25	25	<27	<25	<21	**470,000**	--	**270**	**89**	--	--	**100**	**220**	<18

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)												
						Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)
SAIA-SB/SG01	SG1-5, P4330cc	04/12/2013	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	**13,000**	<19	<40	--	**130**
SAIA-SB/SG01	SG1-15, P4814cc	04/12/2013	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	**720**	<19	<40	--	**100**
SAIA-SB/SG01	SG1-25, P5298cc	04/12/2013	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	**42,000**	<19	<40	--	**18,000**
SAIA-SB/SG01	SG1-35, P5806cc	04/12/2013	N	35	35	<270	<280	<250	<220	<280	<280	--	<280	**6,100**	<190	<400	--	**8,100**
SAIA-SB/SG02	SAIA-SG02-D05-E0413	04/11/2013	N	5	5	--	--	--	<80	--	--	<80	--	--	<70	--	<90	**1,500**
SAIA-SB/SG02	SG2-5 Rep, P5580cc	04/11/2013	FD	5	5	<66	<70	<62	<55	<70	<70	--	<70	**3,200**	<48	<100	--	**2,400**
SAIA-SB/SG02	SG2-5, P4330cc	04/11/2013	N	5	5	<66	<70	<62	<55	<70	<70	--	<70	**3,400**	<48	<100	--	**1,700**
SAIA-SB/SG02	SG2-15, P4814cc	04/11/2013	N	15	15	<27	<28	<25	<22	**47**	<28	--	<28	**4,400**	<19	**41**	--	**8,400**
SAIA-SB/SG02	SG2-25, P5298cc	04/11/2013	N	25	25	<66	<70	<62	<55	<70	<70	--	<70	**220**	<48	**610**	--	**18,000**
SAIA-SB/SG02	SG2-35, P5806cc	04/11/2013	N	35	35	<66	<70	<62	<55	<70	<70	--	<70	**610**	<48	**7,700**	--	**280,000**
SAIA-SB/SG03	SG3-5 Rep, P4380cc	04/10/2013	FD	5	5	<2700	<2800	<2500	**3,400**	**7,800**	<2800	--	<2800	<3400	**2,900**	<4000	--	**270,000**
SAIA-SB/SG03	SG3-5, P4330cc	04/10/2013	N	5	5	<2700	<2800	<2500	**3,200**	**4,400**	<2800	--	<2800	<3400	**2,500**	<4000	--	**140,000**
SAIA-SB/SG03	SG3-15, P4814cc	04/11/2013	N	15	15	<660	<700	<620	<550	<700	<700	--	<700	<860	<480	<1000	--	**3,900**
SAIA-SB/SG03	SG3-25, P5298cc	04/10/2013	N	25	25	<2700	<2800	<2500	<2200	<2800	<2800	--	<2800	<3400	**3,200**	<4000	--	**89,000**
SAIA-SB/SG03	SG3-35, P5806cc	04/11/2013	N	35	35	<33000	<35000	<31000	<27000	<35000	<35000	--	<35000	<43000	<24000	<50000	--	**7,800,000**
SAIA-SB/SG04	SG4-5, P4330cc	04/11/2013	N	5	5	<27	<28	<25	**32**	**100**	**96**	--	<28	**6,700**	**44**	**260**	--	**130,000**
SAIA-SB/SG04	SG4-15, P4814cc	04/11/2013	N	15	15	<1300	<1400	<1200	<1100	<1400	<1400	--	<1400	**8,200**	<950	<2000	--	**130,000**
SAIA-SB/SG04	SG4-25, P5298cc	04/11/2013	N	25	25	<1300	<1400	<1200	<1100	<1400	<1400	--	<1400	**5,300**	<950	**2,100**	--	**310,000**
SAIA-SB/SG04	SG4-35, P5806cc	04/11/2013	N	35	35	<3300	<3500	<3100	<2700	<3500	<3500	--	<3500	<4300	<2400	**11,000**	--	**650,000**
SAIA-SB/SG05	SG5-5 Rep, P4380cc	04/16/2013	FD	5	5	<27	<28	<25	<22	<28	<28	--	<28	**970**	<19	<40	--	**1,200**
SAIA-SB/SG05	SG5-5, P4330cc	04/16/2013	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	**990**	<19	<40	--	**1,200**
SAIA-SB/SG05	SG5-15, P4814cc	04/16/2013	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	**770**	<19	<40	--	**2,500**
SAIA-SB/SG05	SG5-25, P5298cc	04/16/2013	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	**130**	<19	**83**	--	**11,000**
SAIA-SB/SG05	SG5-35, P5806cc	04/16/2013	N	35	35	<270	<280	<250	<220	<280	<280	--	<280	<340	<190	<400	--	**20,000**
SAIA-SB/SG06	SG6-5, 10PV, P4330cc	04/08/2013	N	5	5	<27	**570**	**190**	**360**	**380 J**	**280**	--	**290**	**240**	**110**	**65**	--	**480**
SAIA-SB/SG06	SG6-5, 1PV, P433cc	04/08/2013	N	5	5	<27	**350**	**160**	**330**	**310 J**	**230**	--	**220**	**220**	**120**	**67**	--	**560**
SAIA-SB/SG06	SG6-5, 3PV, P1299cc	04/08/2013	N	5	5	<27	**350**	**150**	**300**	**280 J**	**220**	--	**210**	**190**	**110**	**62**	--	**440**
SAIA-SB/SG06	SG6-15, 1PV, P481cc	04/08/2013	N	15	15	**32 J**	<28	<25	<22	**51 J**	**29**	--	<28	<34	<19	<40	--	<27
SAIA-SB/SG06	SG6-15, 3PV, P1443cc	04/08/2013	N	15	15	<27	**44**	<25	<22	**29 J**	<28	--	<28	<34	<19	<40	--	**43**
SAIA-SB/SG06	SG6-25, 10PV, P5298cc	04/08/2013	N	25	25	<27	<28	**99**	**120**	**250 J**	**180**	--	<28	**61**	**110**	**4,300**	--	**2,600**

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)	
						Trichlorofluoromethane	Vinyl Chloride
SAIA-SB/SG01	SG1-5, P4330cc	04/12/2013	N	5	5	<28	<13
SAIA-SB/SG01	SG1-15, P4814cc	04/12/2013	N	15	15	<28	<13
SAIA-SB/SG01	SG1-25, P5298cc	04/12/2013	N	25	25	<28	<13
SAIA-SB/SG01	SG1-35, P5806cc	04/12/2013	N	35	35	<280	<130
SAIA-SB/SG02	SAIA-SG02-D05-E0413	04/11/2013	N	5	5	<100	**50 J**
SAIA-SB/SG02	SG2-5 Rep, P5580cc	04/11/2013	FD	5	5	<71	<32
SAIA-SB/SG02	SG2-5, P4330cc	04/11/2013	N	5	5	<71	<32
SAIA-SB/SG02	SG2-15, P4814cc	04/11/2013	N	15	15	<28	<13
SAIA-SB/SG02	SG2-25, P5298cc	04/11/2013	N	25	25	<71	**73**
SAIA-SB/SG02	SG2-35, P5806cc	04/11/2013	N	35	35	<71	**2,500**
SAIA-SB/SG03	SG3-5 Rep, P4380cc	04/10/2013	FD	5	5	<2800	**91,000**
SAIA-SB/SG03	SG3-5, P4330cc	04/10/2013	N	5	5	<2800	**88,000**
SAIA-SB/SG03	SG3-15, P4814cc	04/11/2013	N	15	15	<710	**610**
SAIA-SB/SG03	SG3-25, P5298cc	04/10/2013	N	25	25	<2800	**75,000**
SAIA-SB/SG03	SG3-35, P5806cc	04/11/2013	N	35	35	<35000	**130,000**
SAIA-SB/SG04	SG4-5, P4330cc	04/11/2013	N	5	5	<28	**390**
SAIA-SB/SG04	SG4-15, P4814cc	04/11/2013	N	15	15	<1400	<650
SAIA-SB/SG04	SG4-25, P5298cc	04/11/2013	N	25	25	<1400	<650
SAIA-SB/SG04	SG4-35, P5806cc	04/11/2013	N	35	35	<3500	**6,300**
SAIA-SB/SG05	SG5-5 Rep, P4380cc	04/16/2013	FD	5	5	<28	<13
SAIA-SB/SG05	SG5-5, P4330cc	04/16/2013	N	5	5	<28	<13
SAIA-SB/SG05	SG5-15, P4814cc	04/16/2013	N	15	15	<28	<13
SAIA-SB/SG05	SG5-25, P5298cc	04/16/2013	N	25	25	<28	<13
SAIA-SB/SG05	SG5-35, P5806cc	04/16/2013	N	35	35	<280	<130
SAIA-SB/SG06	SG6-5, 10PV, P4330cc	04/08/2013	N	5	5	<28	**7,000**
SAIA-SB/SG06	SG6-5, 1PV, P433cc	04/08/2013	N	5	5	<28	**4,900**
SAIA-SB/SG06	SG6-5, 3PV, P1299cc	04/08/2013	N	5	5	<28	**5,000**
SAIA-SB/SG06	SG6-15, 1PV, P481cc	04/08/2013	N	15	15	<28	**110**
SAIA-SB/SG06	SG6-15, 3PV, P1443cc	04/08/2013	N	15	15	<28	**500**
SAIA-SB/SG06	SG6-25, 10PV, P5298cc	04/08/2013	N	25	25	<28	**130,000**

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (in ug/m3)											
						1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Difluoroethane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene
SAIA-SB/SG06	SG6-25, 1PV, P530cc	04/08/2013	N	25	25	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG06	SG6-25, 3PV, P1590cc	04/08/2013	N	25	25	<35	<28	<35	<39	<28	**890**	**2,900**	<27	<38	**480**	--	--
SAIA-SB/SG06	SAIA-SG06-D35-E0413	04/09/2013	N	35	35	--	<100	**200**	<100	<100	**400**	**2,100**	--	<100	**200**	<100	<100
SAIA-SB/SG06	SG6-35, 10PV, P5806cc	04/09/2013	N	35	35	<35	<28	<35	<39	<28	**620**	**3,300**	<27	<38	**200**	--	--
SAIA-SB/SG06	SG6-35, 1PV, P581cc	04/09/2013	N	35	35	<35	<28	<35	<39	<28	**710**	**3,600**	<27	<38	**330**	--	--
SAIA-SB/SG06	SG6-35, 3PV, P1742cc	04/09/2013	N	35	35	<35	<28	<35	<39	<28	**530**	**2,700**	<27	<38	**200**	--	--
SAIA-SB/SG07	SG7-5 Rep, P4380cc	04/15/2013	FD	5	5	<1700	<1400	<1700	<1900	<1400	<2100	<1000	<1400	<1900	<1200	--	--
SAIA-SB/SG07	SG7-5, P4330cc	04/15/2013	N	5	5	<1700	<1400	<1700	<1900	<1400	<2100	<1000	<1400	<1900	<1200	--	--
SAIA-SB/SG07	SG7-15, P4814cc	04/16/2013	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG07	SG7-25, P5298cc	04/16/2013	N	25	25	<35	<28	<35	<39	<28	**1,300**	**280**	<27	<38	<25	--	--
SAIA-SB/SG07	SG7-35, P5806cc	04/16/2013	N	35	35	<870	<690	<870	<960	<690	**5,400**	**4,100**	<680	<940	<620	--	--
SAIA-SB/SG08	SAIA-SG08-D05-E0413	04/15/2013	N	5	5	--	<6100	<7700	<8600	<6100	**65,000**	<4500	--	<8300	<5500	<8600	<6800
SAIA-SB/SG08	SG8-5, P4330cc	04/15/2013	N	5	5	<17000	<14000	<17000	<19000	<14000	**83,000**	<10000	<14000	<19000	<12000	--	--
SAIA-SB/SG08	SG8-15, P4814cc	04/15/2013	N	15	15	<17000	<14000	<17000	<19000	<14000	**180,000**	**14,000**	<14000	<19000	<12000	--	--
SAIA-SB/SG08	SG8-25, P5298cc	04/15/2013	N	25	25	<22000	<17000	<22000	<24000	<17000	**130,000**	**23,000**	<17000	<23000	<16000	--	--
SAIA-SB/SG08	SG8-35, P5806cc	04/15/2013	N	35	35	<35000	<28000	<35000	<39000	<28000	**110,000**	<20000	<27000	<38000	<25000	--	--
SAIA-SB/SG09	SG9-5, P4330cc	04/10/2013	N	5	5	<44000	**100,000**	<44000	<48000	<34000	**430,000**	<25000	<34000	<47000	<31000	--	--
SAIA-SB/SG09	SG9-15, P4814cc	04/10/2013	N	15	15	<44000	<34000	<44000	<48000	<34000	**240,000**	<25000	<34000	<47000	<31000	--	--
SAIA-SB/SG09	SG9-25, P5298cc	04/10/2013	N	25	25	<44000	<34000	<44000	<48000	<34000	**420,000**	**140,000**	<34000	<47000	**46,000**	--	--
SAIA-SB/SG09	SAIA-SG09-D35-E0413	04/10/2013	N	35	35	--	<23000	<29000	<32000	<23000	**150,000**	**28,000**	--	<31000	<21000	<32000	<25000
SAIA-SB/SG09	SG9-35, P5806cc	04/10/2013	N	35	35	<870	<690	<870	<960	**1,700**	**170,000**	**30,000**	<680	<940	**2,400**	--	--
SAIA-SB/SG10	SG10-5, P4330cc	04/10/2013	N	5	5	<870	**190,000**	<870	<960	<690	**250,000**	**16,000**	<680	<940	**1,100**	--	--
SAIA-SB/SG10	SAIA-SG10-D15-E0413	04/10/2013	N	15	15	--	**37,000**	<17000	<19000	<14000	**270,000**	**21,000**	--	<19000	<12000	<19000	<15000
SAIA-SB/SG10	SG10-15, P4814cc	04/10/2013	N	15	15	<44000	**70,000**	<44000	<48000	<34000	**380,000**	**40,000**	<34000	<47000	<31000	--	--
SAIA-SB/SG10	SG10-25, P5298cc	04/10/2013	N	25	25	<44000	<34000	<44000	<48000	<34000	**650,000**	**86,000**	<34000	<47000	<31000	--	--
SAIA-SB/SG10	SG10-35, P5806cc	04/10/2013	N	35	35	<3500	<2800	<3500	<3900	<2800	<4100	<2000	<2700	<3800	<2500	--	--
SAIA-SB/SG11	SG11-5, P4330cc	04/16/2013	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG11	SG11-15, P4814cc	04/16/2013	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG11	SAIA-SG11-D25-E0413	04/16/2013	N	25	25	--	<100	<100	<200	<100	<80	<80	--	<200	**100 J**	<200	<100
SAIA-SB/SG11	SG11-25, P5298cc	04/16/2013	N	25	25	<35	<28	<35	<39	<28	<41	<20	<27	<38	**43**	--	--

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)											
						1,2-Dichloroethane	1,2-Dichloropropane	1,2-Dichlorotetrafluoroethane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane (p-Dioxane)	Benzene	Bromodichloromethane	Bromomethane	Carbon Tetrachloride	Chlorobenzene
SAIA-SB/SG06	SG6-25, 1PV, P530cc	04/08/2013	N	25	25	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG06	SG6-25, 3PV, P1590cc	04/08/2013	N	25	25	<21	--	--	**160**	--	<30	<36	**170**	<34	<39	<13	--
SAIA-SB/SG06	SAIA-SG06-D35-E0413	04/09/2013	N	35	35	<80	<90	<100	**60 J**	<100	<100	--	**50 J**	--	<70	<100	<90
SAIA-SB/SG06	SG6-35, 10PV, P5806cc	04/09/2013	N	35	35	<21	--	--	**65**	--	<30	**140**	**80**	<34	<39	<13	--
SAIA-SB/SG06	SG6-35, 1PV, P581cc	04/09/2013	N	35	35	<21	--	--	**100**	--	<30	**150**	**100**	<34	<39	<13	--
SAIA-SB/SG06	SG6-35, 3PV, P1742cc	04/09/2013	N	35	35	<21	--	--	**58**	--	<30	**100**	**81**	<34	<39	<13	--
SAIA-SB/SG07	SG7-5 Rep, P4380cc	04/15/2013	FD	5	5	<1000	--	--	<1200	--	<1500	<1800	<810	<1700	<2000	<640	--
SAIA-SB/SG07	SG7-5, P4330cc	04/15/2013	N	5	5	<1000	--	--	<1200	--	<1500	<1800	<810	<1700	<2000	<640	--
SAIA-SB/SG07	SG7-15, P4814cc	04/16/2013	N	15	15	<21	--	--	<25	--	<30	<36	**89**	<34	<39	<13	--
SAIA-SB/SG07	SG7-25, P5298cc	04/16/2013	N	25	25	<21	--	--	<25	--	<30	<36	**120**	<34	<39	<13	--
SAIA-SB/SG07	SG7-35, P5806cc	04/16/2013	N	35	35	<510	--	--	<620	--	<760	<910	<400	<850	<990	<320	--
SAIA-SB/SG08	SAIA-SG08-D05-E0413	04/15/2013	N	5	5	<4500	<5200	<7900	<5500	<6800	<6800	--	<3600	--	<4400	<7100	<5200
SAIA-SB/SG08	SG8-5, P4330cc	04/15/2013	N	5	5	<10000	--	--	<12000	--	<15000	<18000	<8100	<17000	<20000	<6400	--
SAIA-SB/SG08	SG8-15, P4814cc	04/15/2013	N	15	15	<10000	--	--	<12000	--	<15000	<18000	<8100	<17000	<20000	<6400	--
SAIA-SB/SG08	SG8-25, P5298cc	04/15/2013	N	25	25	<13000	--	--	<16000	--	<19000	<23000	<10000	<21000	<25000	<8000	--
SAIA-SB/SG08	SG8-35, P5806cc	04/15/2013	N	35	35	<21000	--	--	<25000	--	<30000	<36000	<16000	<34000	<39000	<13000	--
SAIA-SB/SG09	SG9-5, P4330cc	04/10/2013	N	5	5	<26000	--	--	<31000	--	<38000	<46000	<20000	<43000	<49000	<16000	--
SAIA-SB/SG09	SG9-15, P4814cc	04/10/2013	N	15	15	<26000	--	--	<31000	--	<38000	<46000	<20000	<43000	<49000	<16000	--
SAIA-SB/SG09	SG9-25, P5298cc	04/10/2013	N	25	25	<26000	--	--	<31000	--	<38000	<46000	<20000	<43000	<49000	<16000	--
SAIA-SB/SG09	SAIA-SG09-D35-E0413	04/10/2013	N	35	35	<17000	<19000	<29000	<21000	<25000	<25000	--	<13000	--	<16000	<26000	<19000
SAIA-SB/SG09	SG9-35, P5806cc	04/10/2013	N	35	35	**900**	--	--	<620	--	<760	<910	**850**	<850	<990	<320	--
SAIA-SB/SG10	SG10-5, P4330cc	04/10/2013	N	5	5	<510	--	--	<620	--	<760	<910	<400	<850	<990	<320	--
SAIA-SB/SG10	SAIA-SG10-D15-E0413	04/10/2013	N	15	15	<10000	<12000	<17000	<12000	<15000	<15000	--	<8000	--	<9700	<16000	<11000
SAIA-SB/SG10	SG10-15, P4814cc	04/10/2013	N	15	15	<26000	--	--	<31000	--	<38000	<46000	<20000	<43000	<49000	<16000	--
SAIA-SB/SG10	SG10-25, P5298cc	04/10/2013	N	25	25	<26000	--	--	<31000	--	<38000	<46000	<20000	<43000	<49000	<16000	--
SAIA-SB/SG10	SG10-35, P5806cc	04/10/2013	N	35	35	<2100	--	--	<2500	--	<3000	<3600	<1600	<3400	<3900	<1300	--
SAIA-SB/SG11	SG11-5, P4330cc	04/16/2013	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG11	SG11-15, P4814cc	04/16/2013	N	15	15	<21	--	--	<25	--	<30	<36	**21**	<34	<39	<13	--
SAIA-SB/SG11	SAIA-SG11-D25-E0413	04/16/2013	N	25	25	<80	<100	<100	<100	<100	<100	--	<70	--	<80	<100	<100
SAIA-SB/SG11	SG11-25, P5298cc	04/16/2013	N	25	25	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)											
						Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropanol	Isopropylbenzene (Cumene)	m,p-Xylene	Methylene Chloride
SAIA-SB/SG06	SG6-25, 1PV, P530cc	04/08/2013	N	25	25	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG06	SG6-25, 3PV, P1590cc	04/08/2013	N	25	25	<27	<25	<21	**430,000**	--	**85**	**50**	--	--	<25	**160**	<18
SAIA-SB/SG06	SAIA-SG06-D35-E0413	04/09/2013	N	35	35	<50	<90	<40	**38,000**	<90	--	<80	<200	--	--	<200	<70
SAIA-SB/SG06	SG6-35, 10PV, P5806cc	04/09/2013	N	35	35	<27	<25	<21	**66,000**	--	**240**	<22	--	--	<25	<44	<18
SAIA-SB/SG06	SG6-35, 1PV, P581cc	04/09/2013	N	35	35	<27	<25	<21	**57,000**	--	**270**	<22	--	--	<25	<44	<18
SAIA-SB/SG06	SG6-35, 3PV, P1742cc	04/09/2013	N	35	35	<27	<25	<21	**41,000**	--	**230**	<22	--	--	<25	<44	<18
SAIA-SB/SG07	SG7-5 Rep, P4380cc	04/15/2013	FD	5	5	<1300	<1200	<1000	**2,200**	--	<1300	<1100	--	--	<1200	<2200	<880
SAIA-SB/SG07	SG7-5, P4330cc	04/15/2013	N	5	5	<1300	<1200	<1000	**6,300**	--	<1300	<1100	--	--	<1200	<2200	<880
SAIA-SB/SG07	SG7-15, P4814cc	04/16/2013	N	15	15	<27	<25	<21	**600**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG07	SG7-25, P5298cc	04/16/2013	N	25	25	<27	<25	<21	**24,000**	--	**34**	<22	--	--	<25	<44	<18
SAIA-SB/SG07	SG7-35, P5806cc	04/16/2013	N	35	35	<670	<620	<520	**200,000**	--	<630	<550	--	--	<620	<1100	<440
SAIA-SB/SG08	SAIA-SG08-D05-E0413	04/15/2013	N	5	5	<3000	<5500	<2300	**260,000**	<5100	--	<4900	<12000	--	--	<9800	<3900
SAIA-SB/SG08	SG8-5, P4330cc	04/15/2013	N	5	5	<13000	<12000	<10000	**230,000**	--	<13000	<11000	--	--	<12000	<22000	<8800
SAIA-SB/SG08	SG8-15, P4814cc	04/15/2013	N	15	15	<13000	<12000	<10000	**2,400,000**	--	<13000	<11000	--	--	<12000	<22000	<8800
SAIA-SB/SG08	SG8-25, P5298cc	04/15/2013	N	25	25	<17000	<15000	<13000	**4,000,000**	--	<16000	<14000	--	--	<16000	<27000	<11000
SAIA-SB/SG08	SG8-35, P5806cc	04/15/2013	N	35	35	<27000	<25000	<21000	**3,100,000**	--	<25000	<22000	--	--	<25000	<44000	<18000
SAIA-SB/SG09	SG9-5, P4330cc	04/10/2013	N	5	5	<33000	<31000	<26000	**3,700,000**	--	<31000	<27000	--	--	<31000	<55000	<22000
SAIA-SB/SG09	SG9-15, P4814cc	04/10/2013	N	15	15	<33000	<31000	<26000	**1,800,000**	--	<31000	<27000	--	--	<31000	<55000	<22000
SAIA-SB/SG09	SG9-25, P5298cc	04/10/2013	N	25	25	<33000	<31000	<26000	**9,100,000**	--	<31000	<27000	--	--	<31000	<55000	<22000
SAIA-SB/SG09	SAIA-SG09-D35-E0413	04/10/2013	N	35	35	<11000	<20000	<8700	**6,100,000**	<19000	--	<18000	<45000	--	--	<36000	<15000
SAIA-SB/SG09	SG9-35, P5806cc	04/10/2013	N	35	35	<670	<620	<520	**8,400,000**	--	<630	**580**	--	--	**890**	<1100	<440
SAIA-SB/SG10	SG10-5, P4330cc	04/10/2013	N	5	5	**1,800**	<620	<520	**4,400,000**	--	<630	<550	--	--	<620	<1100	<440
SAIA-SB/SG10	SAIA-SG10-D15-E0413	04/10/2013	N	15	15	<6600	<12000	<5200	**2,200,000**	<11000	--	<11000	<27000	--	--	<22000	<8700
SAIA-SB/SG10	SG10-15, P4814cc	04/10/2013	N	15	15	<33000	<31000	<26000	**4,000,000**	--	<31000	<27000	--	--	<31000	<55000	<22000
SAIA-SB/SG10	SG10-25, P5298cc	04/10/2013	N	25	25	<33000	<31000	<26000	**2,600,000**	--	<31000	<27000	--	--	<31000	<55000	<22000
SAIA-SB/SG10	SG10-35, P5806cc	04/10/2013	N	35	35	<2700	<2500	<2100	**42,000**	--	<2500	<2200	--	--	<2500	<4400	<1800
SAIA-SB/SG11	SG11-5, P4330cc	04/16/2013	N	5	5	<27	<25	<21	**200**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG11	SG11-15, P4814cc	04/16/2013	N	15	15	<27	<25	<21	**74**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG11	SAIA-SG11-D25-E0413	04/16/2013	N	25	25	<50	<100	<40	**900**	<90	--	<90	<200	--	--	<200	<70
SAIA-SB/SG11	SG11-25, P5298cc	04/16/2013	N	25	25	<27	<25	<21	**590**	--	<25	<22	--	--	<25	<44	<18

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)												
						Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)
SAIA-SB/SG06	SG6-25, 1PV, P530cc	04/08/2013	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	<27
SAIA-SB/SG06	SG6-25, 3PV, P1590cc	04/08/2013	N	25	25	<27	<28	**53**	**71**	**120 J**	**83**	--	**64**	**78**	**110**	**1,900**	--	**3,200**
SAIA-SB/SG06	SAIA-SG06-D35-E0413	04/09/2013	N	35	35	--	--	--	<80	--	--	<80	--	**100 J**	<70	--	<90	**15,000**
SAIA-SB/SG06	SG6-35, 10PV, P5806cc	04/09/2013	N	35	35	<27	<28	<25	**25**	**80**	**83**	--	<28	<34	**20**	**2,400**	--	**33,000**
SAIA-SB/SG06	SG6-35, 1PV, P581cc	04/09/2013	N	35	35	**78**	<28	<25	**29**	**130**	**110**	--	<28	<34	**31**	**2,700**	--	**28,000**
SAIA-SB/SG06	SG6-35, 3PV, P1742cc	04/09/2013	N	35	35	**46**	<28	<25	<22	**51**	**74**	--	<28	<34	**24**	**2,000**	--	**21,000**
SAIA-SB/SG07	SG7-5 Rep, P4380cc	04/15/2013	FD	5	5	<1300	<1400	<1200	<1100	<1400	<1400	--	<1400	<1700	<950	<2000	--	**18,000**
SAIA-SB/SG07	SG7-5, P4330cc	04/15/2013	N	5	5	<1300	<1400	<1200	<1100	<1400	<1400	--	<1400	<1700	<950	<2000	--	**12,000**
SAIA-SB/SG07	SG7-15, P4814cc	04/16/2013	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	<34	**23**	<40	--	**6,100**
SAIA-SB/SG07	SG7-25, P5298cc	04/16/2013	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	**90**	**27**	**630**	--	**120,000**
SAIA-SB/SG07	SG7-35, P5806cc	04/16/2013	N	35	35	<660	<700	<620	<550	<700	<700	--	<700	<860	<480	**7,300**	--	**340,000**
SAIA-SB/SG08	SAIA-SG08-D05-E0413	04/15/2013	N	5	5	--	--	--	<4900	--	--	<4800	--	<7600	<4200	--	<5100	<6000
SAIA-SB/SG08	SG8-5, P4330cc	04/15/2013	N	5	5	<13000	<14000	<12000	<11000	<14000	<14000	--	<14000	<17000	<9500	<20000	--	<14000
SAIA-SB/SG08	SG8-15, P4814cc	04/15/2013	N	15	15	<13000	<14000	<12000	<11000	<14000	<14000	--	<14000	<17000	<9500	<20000	--	**880,000**
SAIA-SB/SG08	SG8-25, P5298cc	04/15/2013	N	25	25	<17000	<17000	<16000	<14000	<17000	<17000	--	<17000	<22000	<12000	<25000	--	**85,000**
SAIA-SB/SG08	SG8-35, P5806cc	04/15/2013	N	35	35	<27000	<28000	<25000	<22000	<28000	<28000	--	<28000	<34000	<19000	**65,000**	--	**770,000**
SAIA-SB/SG09	SG9-5, P4330cc	04/10/2013	N	5	5	<33000	<35000	<31000	<27000	<35000	<35000	--	<35000	<43000	<24000	<50000	--	**5,800,000**
SAIA-SB/SG09	SG9-15, P4814cc	04/10/2013	N	15	15	<33000	<35000	<31000	<27000	<35000	<35000	--	<35000	<43000	<24000	<50000	--	**3,200,000**
SAIA-SB/SG09	SG9-25, P5298cc	04/10/2013	N	25	25	<33000	**45,000**	<31000	<27000	<35000	<35000	--	<35000	<43000	<24000	**63,000**	--	**3,000,000**
SAIA-SB/SG09	SAIA-SG09-D35-E0413	04/10/2013	N	35	35	--	--	--	<18000	--	--	<18000	--	<28000	<16000	--	<19000	**2,900,000**
SAIA-SB/SG09	SG9-35, P5806cc	04/10/2013	N	35	35	<660	**1,900**	**650**	<550	**780**	**1,000**	--	<700	**5,200**	**990**	**29,000**	--	**6,600,000**
SAIA-SB/SG10	SG10-5, P4330cc	04/10/2013	N	5	5	<660	<700	<620	**640**	<700	<700	--	<700	**1,100**	**1,500**	**52,000**	--	**63,000**
SAIA-SB/SG10	SAIA-SG10-D15-E0413	04/10/2013	N	15	15	--	--	--	<11000	--	--	<11000	--	<17000	<9400	--	<11000	**11,000 J**
SAIA-SB/SG10	SG10-15, P4814cc	04/10/2013	N	15	15	<33000	<35000	<31000	<27000	<35000	<35000	--	<35000	<43000	<24000	<50000	--	<34000
SAIA-SB/SG10	SG10-25, P5298cc	04/10/2013	N	25	25	<33000	<35000	<31000	<27000	<35000	<35000	--	<35000	<43000	<24000	<50000	--	<34000
SAIA-SB/SG10	SG10-35, P5806cc	04/10/2013	N	35	35	<2700	<2800	<2500	<2200	<2800	<2800	--	<2800	<3400	<1900	<4000	--	**16,000**
SAIA-SB/SG11	SG11-5, P4330cc	04/16/2013	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	**170**
SAIA-SB/SG11	SG11-15, P4814cc	04/16/2013	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	**53**
SAIA-SB/SG11	SAIA-SG11-D25-E0413	04/16/2013	N	25	25	--	--	--	<90	--	--	<90	--	**100 J**	<80	--	<90	**700**
SAIA-SB/SG11	SG11-25, P5298cc	04/16/2013	N	25	25	<27	<28	<25	<22	**70**	<28	--	<28	**130**	**26**	<40	--	**830**

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)	
						Trichlorofluoromethane	Vinyl Chloride
SAIA-SB/SG06	SG6-25, 1PV, P530cc	04/08/2013	N	25	25	<28	<13
SAIA-SB/SG06	SG6-25, 3PV, P1590cc	04/08/2013	N	25	25	<28	**120,000**
SAIA-SB/SG06	SAIA-SG06-D35-E0413	04/09/2013	N	35	35	<100	**5,000**
SAIA-SB/SG06	SG6-35, 10PV, P5806cc	04/09/2013	N	35	35	<28	**7,300**
SAIA-SB/SG06	SG6-35, 1PV, P581cc	04/09/2013	N	35	35	<28	**8,900**
SAIA-SB/SG06	SG6-35, 3PV, P1742cc	04/09/2013	N	35	35	<28	**4,900**
SAIA-SB/SG07	SG7-5 Rep, P4380cc	04/15/2013	FD	5	5	<1400	<650
SAIA-SB/SG07	SG7-5, P4330cc	04/15/2013	N	5	5	<1400	<650
SAIA-SB/SG07	SG7-15, P4814cc	04/16/2013	N	15	15	<28	<13
SAIA-SB/SG07	SG7-25, P5298cc	04/16/2013	N	25	25	<28	**130**
SAIA-SB/SG07	SG7-35, P5806cc	04/16/2013	N	35	35	<710	**6,800**
SAIA-SB/SG08	SAIA-SG08-D05-E0413	04/15/2013	N	5	5	<6300	**530,000**
SAIA-SB/SG08	SG8-5, P4330cc	04/15/2013	N	5	5	<14000	**450,000**
SAIA-SB/SG08	SG8-15, P4814cc	04/15/2013	N	15	15	<14000	**480,000**
SAIA-SB/SG08	SG8-25, P5298cc	04/15/2013	N	25	25	<18000	**400,000**
SAIA-SB/SG08	SG8-35, P5806cc	04/15/2013	N	35	35	<28000	**200,000**
SAIA-SB/SG09	SG9-5, P4330cc	04/10/2013	N	5	5	<35000	**93,000**
SAIA-SB/SG09	SG9-15, P4814cc	04/10/2013	N	15	15	<35000	**51,000**
SAIA-SB/SG09	SG9-25, P5298cc	04/10/2013	N	25	25	<35000	**200,000**
SAIA-SB/SG09	SAIA-SG09-D35-E0413	04/10/2013	N	35	35	<24000	**180,000**
SAIA-SB/SG09	SG9-35, P5806cc	04/10/2013	N	35	35	<710	**300,000**
SAIA-SB/SG10	SG10-5, P4330cc	04/10/2013	N	5	5	<710	**520,000**
SAIA-SB/SG10	SAIA-SG10-D15-E0413	04/10/2013	N	15	15	<14000	**1,700,000**
SAIA-SB/SG10	SG10-15, P4814cc	04/10/2013	N	15	15	<35000	**1,900,000**
SAIA-SB/SG10	SG10-25, P5298cc	04/10/2013	N	25	25	<35000	**6,100,000**
SAIA-SB/SG10	SG10-35, P5806cc	04/10/2013	N	35	35	<2800	**9,100**
SAIA-SB/SG11	SG11-5, P4330cc	04/16/2013	N	5	5	<28	<13
SAIA-SB/SG11	SG11-15, P4814cc	04/16/2013	N	15	15	<28	<13
SAIA-SB/SG11	SAIA-SG11-D25-E0413	04/16/2013	N	25	25	<100	**30 J**
SAIA-SB/SG11	SG11-25, P5298cc	04/16/2013	N	25	25	<28	**21**

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (in ug/m3)											
						1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Difluoroethane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene
SAIA-SB/SG11	SG11-35, P5806cc	04/16/2013	N	35	35	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG12	SG12-5, P4330cc	04/11/2013	N	5	5	<4400	<3400	<4400	<4800	<3400	<5100	<2500	<3400	<4700	<3100	--	--
SAIA-SB/SG12	SG12-15, P4814cc	04/12/2013	N	15	15	<35	<28	<35	<39	<28	**130**	<20	<27	<38	**80**	--	--
SAIA-SB/SG12	SG12-25, P5298cc	04/12/2013	N	25	25	<35	<28	<35	<39	<28	**160**	**190**	<27	<38	**110**	--	--
SAIA-SB/SG12	SG12-35, P5806cc	04/12/2013	N	35	35	<35	<28	<35	<39	<28	**110**	<20	<27	<38	**110**	--	--
SAIA-SB/SG13	SG13-5, P4330cc	04/09/2013	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG13	SG13-15, P4814cc	04/09/2013	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG13	SG13-25, P5298cc	04/09/2013	N	25	25	<35	<28	<35	<39	<28	<41	<20	**190**	<38	<25	--	--
SAIA-SB/SG13	SG13-35, P5806cc	04/09/2013	N	35	35	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG14	SG14-5, P4330cc	04/09/2013	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG14	SG14-15 Rep, P4864cc	04/09/2013	FD	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG14	SG14-15, P4814cc	04/09/2013	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG14	SAIA-SG14-D25-E0413	04/09/2013	N	25	25	--	<20	<20	<30	<20	<10	<10	--	<30	**50**	<30	<20
SAIA-SB/SG14	SG14-25, P5298cc	04/09/2013	N	25	25	<35	<28	<35	<39	<28	<41	<20	<27	<38	**54**	--	--
SAIA-SB/SG14	SG14-35, P5806cc	04/09/2013	N	35	35	<35	<28	<35	<39	<28	<41	**44**	<27	<38	<25	--	--
SAIA-SB/SG15	SG15-5, P4330cc	04/15/2013	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG15	SG15-15, P4814cc	04/15/2013	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG15	SG15-25, P5298cc	04/15/2013	N	25	25	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG15	SG15-35, P5806cc	04/15/2013	N	35	35	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG16	SG16-5 Rep, P4380cc	04/12/2013	FD	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG16	SG16-5, P4330cc	04/12/2013	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG16	SG16-15, P4814cc	04/12/2013	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG16	SG16-25, P5298cc	04/15/2013	N	25	25	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG16	SG16-35, P5806cc	04/15/2013	N	35	35	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG17	SG17-5, P4330cc	04/12/2013	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG17	SG17-15, P4814cc	04/12/2013	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG17	SG17-25, P5298cc	04/12/2013	N	25	25	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG17	SG17-35, P5806cc	04/12/2013	N	35	35	<35	<28	<35	<39	<28	**130**	<20	<27	<38	<25	--	--
SAIA-SB/SG18	SG18-5, P4330cc	04/16/2013	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG18	SG18-15, P4814cc	04/16/2013	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
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Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)											
						1,2-Dichloroethane	1,2-Dichloropropane	1,2-Dichlorotetrafluoroethane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane (p-Dioxane)	Benzene	Bromodichloromethane	Bromomethane	Carbon Tetrachloride	Chlorobenzene
SAIA-SB/SG11	SG11-35, P5806cc	04/16/2013	N	35	35	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG12	SG12-5, P4330cc	04/11/2013	N	5	5	<2600	--	--	<3100	--	<3800	<4600	<2000	<4300	<4900	<1600	--
SAIA-SB/SG12	SG12-15, P4814cc	04/12/2013	N	15	15	<21	--	--	**32**	--	<30	<36	**57**	<34	<39	<13	--
SAIA-SB/SG12	SG12-25, P5298cc	04/12/2013	N	25	25	<21	--	--	**29**	--	<30	<36	**96**	<34	<39	<13	--
SAIA-SB/SG12	SG12-35, P5806cc	04/12/2013	N	35	35	<21	--	--	**31**	--	<30	<36	**46**	<34	<39	<13	--
SAIA-SB/SG13	SG13-5, P4330cc	04/09/2013	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG13	SG13-15, P4814cc	04/09/2013	N	15	15	<21	--	--	<25	--	<30	<36	**44**	<34	<39	<13	--
SAIA-SB/SG13	SG13-25, P5298cc	04/09/2013	N	25	25	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG13	SG13-35, P5806cc	04/09/2013	N	35	35	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG14	SG14-5, P4330cc	04/09/2013	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG14	SG14-15 Rep, P4864cc	04/09/2013	FD	15	15	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG14	SG14-15, P4814cc	04/09/2013	N	15	15	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG14	SAIA-SG14-D25-E0413	04/09/2013	N	25	25	<10	<20	<20	**10 J**	<20	<20	--	**20**	--	<10	<20	<20
SAIA-SB/SG14	SG14-25, P5298cc	04/09/2013	N	25	25	<21	--	--	**25**	--	<30	<36	**31**	<34	<39	<13	--
SAIA-SB/SG14	SG14-35, P5806cc	04/09/2013	N	35	35	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG15	SG15-5, P4330cc	04/15/2013	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG15	SG15-15, P4814cc	04/15/2013	N	15	15	<21	--	--	<25	--	<30	<36	**110**	<34	<39	<13	--
SAIA-SB/SG15	SG15-25, P5298cc	04/15/2013	N	25	25	<21	--	--	<25	--	<30	<36	**23**	<34	<39	<13	--
SAIA-SB/SG15	SG15-35, P5806cc	04/15/2013	N	35	35	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG16	SG16-5 Rep, P4380cc	04/12/2013	FD	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG16	SG16-5, P4330cc	04/12/2013	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG16	SG16-15, P4814cc	04/12/2013	N	15	15	<21	--	--	<25	--	<30	<36	**29**	<34	<39	<13	--
SAIA-SB/SG16	SG16-25, P5298cc	04/15/2013	N	25	25	<21	--	--	<25	--	<30	<36	**72**	<34	<39	<13	--
SAIA-SB/SG16	SG16-35, P5806cc	04/15/2013	N	35	35	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG17	SG17-5, P4330cc	04/12/2013	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG17	SG17-15, P4814cc	04/12/2013	N	15	15	<21	--	--	<25	--	<30	<36	**38**	<34	<39	<13	--
SAIA-SB/SG17	SG17-25, P5298cc	04/12/2013	N	25	25	<21	--	--	<25	--	<30	<36	**100**	<34	<39	<13	--
SAIA-SB/SG17	SG17-35, P5806cc	04/12/2013	N	35	35	<21	--	--	<25	--	<30	<36	**36**	<34	<39	<13	--
SAIA-SB/SG18	SG18-5, P4330cc	04/16/2013	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG18	SG18-15, P4814cc	04/16/2013	N	15	15	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
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Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)											
						Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropanol	Isopropylbenzene (Cumene)	m,p-Xylene	Methylene Chloride
SAIA-SB/SG11	SG11-35, P5806cc	04/16/2013	N	35	35	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG12	SG12-5, P4330cc	04/11/2013	N	5	5	<3300	<3100	<2600	**15,000**	--	<3100	<2700	--	--	<3100	<5500	<2200
SAIA-SB/SG12	SG12-15, P4814cc	04/12/2013	N	15	15	<27	<25	<21	**5,200**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG12	SG12-25, P5298cc	04/12/2013	N	25	25	<27	<25	<21	**6,600**	--	<25	<22	--	--	<25	**45**	<18
SAIA-SB/SG12	SG12-35, P5806cc	04/12/2013	N	35	35	<27	<25	<21	**5,200**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG13	SG13-5, P4330cc	04/09/2013	N	5	5	<27	<25	<21	**180**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG13	SG13-15, P4814cc	04/09/2013	N	15	15	<27	<25	<21	**160**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG13	SG13-25, P5298cc	04/09/2013	N	25	25	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG13	SG13-35, P5806cc	04/09/2013	N	35	35	<27	<25	<21	**72**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG14	SG14-5, P4330cc	04/09/2013	N	5	5	<27	<25	<21	<40	--	**30**	<22	--	--	<25	<44	<18
SAIA-SB/SG14	SG14-15 Rep, P4864cc	04/09/2013	FD	15	15	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG14	SG14-15, P4814cc	04/09/2013	N	15	15	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG14	SAIA-SG14-D25-E0413	04/09/2013	N	25	25	<9	<20	<7	**100**	<20	--	**20**	<40	--	--	**40**	<10
SAIA-SB/SG14	SG14-25, P5298cc	04/09/2013	N	25	25	<27	<25	<21	**230**	--	**200**	**24**	--	--	<25	**54**	<18
SAIA-SB/SG14	SG14-35, P5806cc	04/09/2013	N	35	35	<27	<25	<21	**150**	--	**150**	<22	--	--	<25	<44	<18
SAIA-SB/SG15	SG15-5, P4330cc	04/15/2013	N	5	5	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG15	SG15-15, P4814cc	04/15/2013	N	15	15	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG15	SG15-25, P5298cc	04/15/2013	N	25	25	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG15	SG15-35, P5806cc	04/15/2013	N	35	35	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG16	SG16-5 Rep, P4380cc	04/12/2013	FD	5	5	<27	<25	<21	**66**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG16	SG16-5, P4330cc	04/12/2013	N	5	5	<27	<25	<21	**120**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG16	SG16-15, P4814cc	04/12/2013	N	15	15	<27	<25	<21	**55**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG16	SG16-25, P5298cc	04/15/2013	N	25	25	<27	<25	<21	**870**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG16	SG16-35, P5806cc	04/15/2013	N	35	35	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG17	SG17-5, P4330cc	04/12/2013	N	5	5	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG17	SG17-15, P4814cc	04/12/2013	N	15	15	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG17	SG17-25, P5298cc	04/12/2013	N	25	25	<27	<25	<21	**270**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG17	SG17-35, P5806cc	04/12/2013	N	35	35	<27	<25	<21	**3,000**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG18	SG18-5, P4330cc	04/16/2013	N	5	5	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG18	SG18-15, P4814cc	04/16/2013	N	15	15	<27	<25	<21	**82**	--	<25	<22	--	--	<25	<44	<18

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
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Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)												
						Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)
SAIA-SB/SG11	SG11-35, P5806cc	04/16/2013	N	35	35	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	<27
SAIA-SB/SG12	SG12-5, P4330cc	04/11/2013	N	5	5	<3300	<3500	<3100	<2700	<3500	<3500	--	<3500	<4300	<2400	<5000	--	**22,000**
SAIA-SB/SG12	SG12-15, P4814cc	04/12/2013	N	15	15	<27	**32**	<25	<22	**36**	<28	--	<28	**81**	<19	**46**	--	**8,900**
SAIA-SB/SG12	SG12-25, P5298cc	04/12/2013	N	25	25	<27	<28	<25	**32**	<28	<28	--	<28	**120**	**34**	**91**	--	**15,000**
SAIA-SB/SG12	SG12-35, P5806cc	04/12/2013	N	35	35	<27	<28	<25	<22	**44**	<28	--	<28	**80**	**23**	<40	--	**9,900**
SAIA-SB/SG13	SG13-5, P4330cc	04/09/2013	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	**2,900**	<19	<40	--	**61**
SAIA-SB/SG13	SG13-15, P4814cc	04/09/2013	N	15	15	<27	<28	<25	<22	**170**	<28	--	<28	**3,600**	**94**	<40	--	**110**
SAIA-SB/SG13	SG13-25, P5298cc	04/09/2013	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	**61**	<19	<40	--	**43**
SAIA-SB/SG13	SG13-35, P5806cc	04/09/2013	N	35	35	<27	<28	<25	<22	**65**	<28	--	<28	**550**	<19	<40	--	**290**
SAIA-SB/SG14	SG14-5, P4330cc	04/09/2013	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	**46**	<19	<40	--	**110**
SAIA-SB/SG14	SG14-15 Rep, P4864cc	04/09/2013	FD	15	15	<27	<28	<25	<22	**30**	<28	--	<28	<34	**34**	<40	--	**35**
SAIA-SB/SG14	SG14-15, P4814cc	04/09/2013	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	<27
SAIA-SB/SG14	SAIA-SG14-D25-E0413	04/09/2013	N	25	25	--	--	--	**10 J**	--	--	**10 J**	--	**80**	**60**	--	<20	**200**
SAIA-SB/SG14	SG14-25, P5298cc	04/09/2013	N	25	25	<27	<28	<25	**23**	**70**	<28	--	<28	**140**	**91**	<40	--	**480**
SAIA-SB/SG14	SG14-35, P5806cc	04/09/2013	N	35	35	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	**570**
SAIA-SB/SG15	SG15-5, P4330cc	04/15/2013	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	**750**	<19	<40	--	<27
SAIA-SB/SG15	SG15-15, P4814cc	04/15/2013	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	**810**	**40**	<40	--	**32**
SAIA-SB/SG15	SG15-25, P5298cc	04/15/2013	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	**1,600**	<19	<40	--	**460**
SAIA-SB/SG15	SG15-35, P5806cc	04/15/2013	N	35	35	<27	<28	<25	<22	<28	<28	--	<28	**1,200**	<19	<40	--	**580**
SAIA-SB/SG16	SG16-5 Rep, P4380cc	04/12/2013	FD	5	5	<27	<28	<25	<22	<28	<28	--	<28	**390**	<19	<40	--	**49**
SAIA-SB/SG16	SG16-5, P4330cc	04/12/2013	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	**280**	<19	<40	--	**110**
SAIA-SB/SG16	SG16-15, P4814cc	04/12/2013	N	15	15	<27	<28	<25	<22	**38**	<28	--	<28	**820**	**35**	<40	--	**72**
SAIA-SB/SG16	SG16-25, P5298cc	04/15/2013	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	**1,100**	<19	<40	--	**880**
SAIA-SB/SG16	SG16-35, P5806cc	04/15/2013	N	35	35	<27	<28	<25	<22	<28	<28	--	<28	**610**	<19	<40	--	**170**
SAIA-SB/SG17	SG17-5, P4330cc	04/12/2013	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	**190**	**27**	<40	--	**82**
SAIA-SB/SG17	SG17-15, P4814cc	04/12/2013	N	15	15	<27	<28	<25	<22	**35**	<28	--	<28	**210**	**44**	<40	--	**39**
SAIA-SB/SG17	SG17-25, P5298cc	04/12/2013	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	**1,400**	**53**	<40	--	**1,700**
SAIA-SB/SG17	SG17-35, P5806cc	04/12/2013	N	35	35	<27	<28	<25	<22	<28	<28	--	<28	**480**	**19**	**69**	--	**6,800**
SAIA-SB/SG18	SG18-5, P4330cc	04/16/2013	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	**65**
SAIA-SB/SG18	SG18-15, P4814cc	04/16/2013	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	**200**

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)	
						Trichlorofluoromethane	Vinyl Chloride
SAIA-SB/SG11	SG11-35, P5806cc	04/16/2013	N	35	35	<28	<13
SAIA-SB/SG12	SG12-5, P4330cc	04/11/2013	N	5	5	<3500	<1600
SAIA-SB/SG12	SG12-15, P4814cc	04/12/2013	N	15	15	<28	<13
SAIA-SB/SG12	SG12-25, P5298cc	04/12/2013	N	25	25	<28	**66**
SAIA-SB/SG12	SG12-35, P5806cc	04/12/2013	N	35	35	<28	<13
SAIA-SB/SG13	SG13-5, P4330cc	04/09/2013	N	5	5	<28	**53**
SAIA-SB/SG13	SG13-15, P4814cc	04/09/2013	N	15	15	<28	**35**
SAIA-SB/SG13	SG13-25, P5298cc	04/09/2013	N	25	25	<28	<13
SAIA-SB/SG13	SG13-35, P5806cc	04/09/2013	N	35	35	<28	<13
SAIA-SB/SG14	SG14-5, P4330cc	04/09/2013	N	5	5	<28	<13
SAIA-SB/SG14	SG14-15 Rep, P4864cc	04/09/2013	FD	15	15	<28	<13
SAIA-SB/SG14	SG14-15, P4814cc	04/09/2013	N	15	15	<28	<13
SAIA-SB/SG14	SAIA-SG14-D25-E0413	04/09/2013	N	25	25	<20	**10**
SAIA-SB/SG14	SG14-25, P5298cc	04/09/2013	N	25	25	<28	**18**
SAIA-SB/SG14	SG14-35, P5806cc	04/09/2013	N	35	35	<28	<13
SAIA-SB/SG15	SG15-5, P4330cc	04/15/2013	N	5	5	<28	<13
SAIA-SB/SG15	SG15-15, P4814cc	04/15/2013	N	15	15	<28	<13
SAIA-SB/SG15	SG15-25, P5298cc	04/15/2013	N	25	25	<28	<13
SAIA-SB/SG15	SG15-35, P5806cc	04/15/2013	N	35	35	<28	<13
SAIA-SB/SG16	SG16-5 Rep, P4380cc	04/12/2013	FD	5	5	<28	<13
SAIA-SB/SG16	SG16-5, P4330cc	04/12/2013	N	5	5	<28	<13
SAIA-SB/SG16	SG16-15, P4814cc	04/12/2013	N	15	15	<28	<13
SAIA-SB/SG16	SG16-25, P5298cc	04/15/2013	N	25	25	<28	<13
SAIA-SB/SG16	SG16-35, P5806cc	04/15/2013	N	35	35	<28	<13
SAIA-SB/SG17	SG17-5, P4330cc	04/12/2013	N	5	5	<28	<13
SAIA-SB/SG17	SG17-15, P4814cc	04/12/2013	N	15	15	<28	<13
SAIA-SB/SG17	SG17-25, P5298cc	04/12/2013	N	25	25	<28	<13
SAIA-SB/SG17	SG17-35, P5806cc	04/12/2013	N	35	35	<28	**27**
SAIA-SB/SG18	SG18-5, P4330cc	04/16/2013	N	5	5	<28	<13
SAIA-SB/SG18	SG18-15, P4814cc	04/16/2013	N	15	15	<28	<13

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (in ug/m3)											
						1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Difluoroethane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene
SAIA-SB/SG18	SG18-25, P5298cc	04/16/2013	N	25	25	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG18	SG18-35, P5806cc	04/17/2013	N	35	35	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG19	SAIA-SB/SG-19-5, P816cc	04/29/2014	N	5	5	<35	**2,400**	<35	<39	<28	**2,000**	<20	<27	<38	<25	--	--
SAIA-SB/SG19	SAIA-SB/SG-19-15, P913cc	04/29/2014	N	15	15	<35	**64**	<35	<39	<28	**1,700**	**85**	<27	<38	<25	--	--
SAIA-SB/SG19	SAIA-SB/SG-19-25, P530cc	04/29/2014	N	25	25	<35	**150**	<35	<39	<28	**18,000**	**660**	<27	<38	**91**	--	--
SAIA-SB/SG19	SAIA-SB/SG-19-35, P578cc	04/29/2014	N	35	35	<35	**38**	<35	<39	<28	**820**	**700**	<27	<38	<25	--	--
SAIA-SB/SG20	SAIA-SB/SG-20-5, P816cc	04/30/2014	N	5	5	<35	**76**	<35	<39	<28	**22,000**	**710**	<27	<38	**260**	--	--
SAIA-SB/SG20	SAIA-SB/SG-20-15, P913cc	04/30/2014	N	15	15	<35	<28	<35	<39	<28	**20,000**	**9,400**	<27	<38	**180**	--	--
SAIA-SB/SG20	SAIA-SB/SG-20-25, P530cc	04/30/2014	N	25	25	<35	<28	<35	<39	<28	**5,900**	**55,000**	<27	<38	**280**	--	--
SAIA-SB/SG20	SAIA-SB/SG-20-35, P578cc	05/01/2014	N	35	35	<35	<28	<35	<39	<28	**62,000**	**20,000**	<27	<38	**38**	--	--
SAIA-SB/SG20	SAIA-SG20-E35	05/01/2014	N	35	35	--	<22000	<28000	<31000	<22000	**32,000**	**11,000 J**	--	<30000	<20000	<31000	<25000
SAIA-SB/SG21	SAIA-SB/SG-21-5, P816cc	04/30/2014	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG21	SAIA-SB/SG-21-15, P913cc	04/30/2014	N	15	15	<35	<28	<35	<39	<28	**510**	<20	<27	<38	<25	--	--
SAIA-SB/SG21	SAIA-SB/SG-21-25, P530cc	04/30/2014	N	25	25	<35	<28	<35	<39	<28	**2,200**	**1,100**	<27	<38	<25	--	--
SAIA-SB/SG21	SAIA-SB/SG-21-35, P578cc	04/30/2014	N	35	35	<35	<28	<35	<39	<28	**930**	**1,700**	<27	<38	<25	--	--
SAIA-SB/SG22	P866cc	04/29/2014	FD	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	**43**	--	--
SAIA-SB/SG22	SAIA-SB/SG-22-5, P816cc	04/29/2014	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	**69**	--	--
SAIA-SB/SG22	SAIA-SB/SG-22-15, P913cc	04/29/2014	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG22	SAIA-SB/SG-22-25, P530cc	04/29/2014	N	25	25	<35	<28	<35	<39	<28	<41	<20	<27	<38	**78**	--	--
SAIA-SB/SG22	SAIA-SG22-E25	04/29/2014	N	25	25	--	<20	<20	<20	<20	<10	**7 J**	--	<20	**70**	<20	<20
SAIA-SB/SG22	P628cc	04/30/2014	FD	35	35	<35	<28	<35	<39	<28	<41	**40**	<27	<38	<25	--	--
SAIA-SB/SG22	SAIA-SB/SG-22-35, P578cc	04/30/2014	N	35	35	<35	<28	<35	<39	<28	<41	**26**	<27	<38	<25	--	--
SAIA-SB/SG23	P4330cc	04/21/2014	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG23	P433cc	04/21/2014	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG23	P1299cc	04/21/2014	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG23	P481cc	04/21/2014	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG23	P1444cc	04/21/2014	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG23	P4814cc	04/21/2014	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG23	P530cc	04/21/2014	N	25	25	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)											
						1,2-Dichloroethane	1,2-Dichloropropane	1,2-Dichlorotetrafluoroethane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane (p-Dioxane)	Benzene	Bromodichloromethane	Bromomethane	Carbon Tetrachloride	Chlorobenzene
SAIA-SB/SG18	SG18-25, P5298cc	04/16/2013	N	25	25	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG18	SG18-35, P5806cc	04/17/2013	N	35	35	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG19	SAIA-SB/SG-19-5, P816cc	04/29/2014	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG19	SAIA-SB/SG-19-15, P913cc	04/29/2014	N	15	15	<21	--	--	**43**	--	<30	<36	**350**	<34	<39	<13	--
SAIA-SB/SG19	SAIA-SB/SG-19-25, P530cc	04/29/2014	N	25	25	**110**	--	--	**200**	--	<30	<36	**600**	<34	<39	<13	--
SAIA-SB/SG19	SAIA-SB/SG-19-35, P578cc	04/29/2014	N	35	35	<21	--	--	<25	--	<30	<36	**98**	<34	<39	<13	--
SAIA-SB/SG20	SAIA-SB/SG-20-5, P816cc	04/30/2014	N	5	5	**72**	--	--	**39**	--	<30	<36	**340**	<34	<39	<13	--
SAIA-SB/SG20	SAIA-SB/SG-20-15, P913cc	04/30/2014	N	15	15	**440**	--	--	**32**	--	<30	<36	**910**	<34	<39	<13	--
SAIA-SB/SG20	SAIA-SB/SG-20-25, P530cc	04/30/2014	N	25	25	<21	--	--	**35**	--	<30	<36	**430**	<34	<39	<13	--
SAIA-SB/SG20	SAIA-SB/SG-20-35, P578cc	05/01/2014	N	35	35	**230**	--	--	**91**	--	<30	<36	**310**	<34	<39	<13	--
SAIA-SB/SG20	SAIA-SG20-E35	05/01/2014	N	35	35	<17000	<19000	<28000	<20000	<25000	<25000	--	<13000	--	<16000	<26000	<19000
SAIA-SB/SG21	SAIA-SB/SG-21-5, P816cc	04/30/2014	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG21	SAIA-SB/SG-21-15, P913cc	04/30/2014	N	15	15	<21	--	--	<25	--	<30	<36	**40**	<34	<39	<13	--
SAIA-SB/SG21	SAIA-SB/SG-21-25, P530cc	04/30/2014	N	25	25	<21	--	--	<25	--	<30	<36	**120**	<34	<39	<13	--
SAIA-SB/SG21	SAIA-SB/SG-21-35, P578cc	04/30/2014	N	35	35	<21	--	--	<25	--	<30	<36	**59**	<34	<39	<13	--
SAIA-SB/SG22	P866cc	04/29/2014	FD	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG22	SAIA-SB/SG-22-5, P816cc	04/29/2014	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG22	SAIA-SB/SG-22-15, P913cc	04/29/2014	N	15	15	<21	--	--	<25	--	<30	<36	**25**	<34	<39	<13	--
SAIA-SB/SG22	SAIA-SB/SG-22-25, P530cc	04/29/2014	N	25	25	<21	--	--	<25	--	<30	<36	**120**	<34	<39	<13	--
SAIA-SB/SG22	SAIA-SG22-E25	04/29/2014	N	25	25	<10	<10	<20	**8 J**	<20	<20	--	**200**	--	<10	<20	<10
SAIA-SB/SG22	P628cc	04/30/2014	FD	35	35	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG22	SAIA-SB/SG-22-35, P578cc	04/30/2014	N	35	35	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG23	P4330cc	04/21/2014	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG23	P433cc	04/21/2014	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG23	P1299cc	04/21/2014	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG23	P481cc	04/21/2014	N	15	15	<21	--	--	<25	--	<30	<36	**25**	<34	<39	<13	--
SAIA-SB/SG23	P1444cc	04/21/2014	N	15	15	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG23	P4814cc	04/21/2014	N	15	15	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG23	P530cc	04/21/2014	N	25	25	<21	--	--	<25	--	<30	<36	**47**	<34	<39	<13	--

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)											
						Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropanol	Isopropylbenzene (Cumene)	m,p-Xylene	Methylene Chloride
SAIA-SB/SG18	SG18-25, P5298cc	04/16/2013	N	25	25	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG18	SG18-35, P5806cc	04/17/2013	N	35	35	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG19	SAIA-SB/SG-19-5, P816cc	04/29/2014	N	5	5	<27	**85**	<21	**17,000**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG19	SAIA-SB/SG-19-15, P913cc	04/29/2014	N	15	15	<27	<25	<21	**5,300**	--	<25	**100**	--	--	**43**	<44	<18
SAIA-SB/SG19	SAIA-SB/SG-19-25, P530cc	04/29/2014	N	25	25	**440**	<25	<21	**22,000**	--	<25	**270**	--	--	**200**	**290**	<18
SAIA-SB/SG19	SAIA-SB/SG-19-35, P578cc	04/29/2014	N	35	35	<27	<25	<21	**6,800**	--	<25	**70**	--	--	<25	**63**	<18
SAIA-SB/SG20	SAIA-SB/SG-20-5, P816cc	04/30/2014	N	5	5	**650**	<25	<21	**610,000 J**	--	<25	**150**	--	--	**39**	**390**	<18
SAIA-SB/SG20	SAIA-SB/SG-20-15, P913cc	04/30/2014	N	15	15	**8,800**	<25	<21	**3,000,000 J**	--	<25	<22	--	--	**32**	**240**	<18
SAIA-SB/SG20	SAIA-SB/SG-20-25, P530cc	04/30/2014	N	25	25	**19,000**	<25	<21	**23,000,000 J**	--	<25	**94**	--	--	**35**	**290**	<18
SAIA-SB/SG20	SAIA-SB/SG-20-35, P578cc	05/01/2014	N	35	35	**730**	<25	<21	**5,200,000**	--	<25	**110**	--	--	**90**	**91**	<18
SAIA-SB/SG20	SAIA-SG20-E35	05/01/2014	N	35	35	<11000	<20000	<8400	**4,700,000**	<19000	--	<18000	<43000	--	--	<35000	<14000
SAIA-SB/SG21	SAIA-SB/SG-21-5, P816cc	04/30/2014	N	5	5	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG21	SAIA-SB/SG-21-15, P913cc	04/30/2014	N	15	15	<27	<25	<21	**32,000 J**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG21	SAIA-SB/SG-21-25, P530cc	04/30/2014	N	25	25	<27	<25	<21	**50,000 J**	--	<25	<22	--	--	<25	**96**	<18
SAIA-SB/SG21	SAIA-SB/SG-21-35, P578cc	04/30/2014	N	35	35	<27	<25	<21	**52,000 J**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG22	P866cc	04/29/2014	FD	5	5	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG22	SAIA-SB/SG-22-5, P816cc	04/29/2014	N	5	5	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG22	SAIA-SB/SG-22-15, P913cc	04/29/2014	N	15	15	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG22	SAIA-SB/SG-22-25, P530cc	04/29/2014	N	25	25	<27	<25	<21	**120**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG22	SAIA-SG22-E25	04/29/2014	N	25	25	<7	<10	<6	**200**	<10	--	**10 J**	<30	--	--	**30**	<10
SAIA-SB/SG22	P628cc	04/30/2014	FD	35	35	<27	<25	<21	**210 J**	--	**51**	<22	--	--	<25	<44	<18
SAIA-SB/SG22	SAIA-SB/SG-22-35, P578cc	04/30/2014	N	35	35	<27	<25	<21	**190 J**	--	**47**	<22	--	--	<25	<44	<18
SAIA-SB/SG23	P4330cc	04/21/2014	N	5	5	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG23	P433cc	04/21/2014	N	5	5	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG23	P1299cc	04/21/2014	N	5	5	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG23	P481cc	04/21/2014	N	15	15	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG23	P1444cc	04/21/2014	N	15	15	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG23	P4814cc	04/21/2014	N	15	15	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG23	P530cc	04/21/2014	N	25	25	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)												
						Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)
SAIA-SB/SG18	SG18-25, P5298cc	04/16/2013	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	**280**
SAIA-SB/SG18	SG18-35, P5806cc	04/17/2013	N	35	35	<27	<28	<25	<22	<28	<28	--	<28	<34	**25**	<40	--	<27
SAIA-SB/SG19	SAIA-SB/SG-19-5, P816cc	04/29/2014	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	**1,100**	<19	**370**	--	**30,000**
SAIA-SB/SG19	SAIA-SB/SG-19-15, P913cc	04/29/2014	N	15	15	<27	**34**	**34**	**150**	**43**	**56**	--	<28	**1,200**	**210**	**500**	--	**35,000**
SAIA-SB/SG19	SAIA-SB/SG-19-25, P530cc	04/29/2014	N	25	25	<27	**270**	**170**	**490**	**180**	**290**	--	<28	**410**	**1,900**	**6,400**	--	**230,000**
SAIA-SB/SG19	SAIA-SB/SG-19-35, P578cc	04/29/2014	N	35	35	<27	<28	<25	**38**	<28	<28	--	<28	**2,200**	**87**	**460**	--	**21,000**
SAIA-SB/SG20	SAIA-SB/SG-20-5, P816cc	04/30/2014	N	5	5	<27	**41**	**45**	<22	**69**	**34**	--	**41**	**290**	**460**	**1,700**	--	**17,000**
SAIA-SB/SG20	SAIA-SB/SG-20-15, P913cc	04/30/2014	N	15	15	<27	**37**	**36**	<22	**58**	**31**	--	<28	**440**	**740**	**19,000**	--	**7,700**
SAIA-SB/SG20	SAIA-SB/SG-20-25, P530cc	04/30/2014	N	25	25	<27	**52**	**41**	**140**	**74**	**44**	--	**38**	**140**	**240**	**90,000**	--	**270,000**
SAIA-SB/SG20	SAIA-SB/SG-20-35, P578cc	05/01/2014	N	35	35	<27	**99**	**74**	**110**	<28	**120**	--	<28	**2,000**	**360**	**93,000**	--	**4,100,000**
SAIA-SB/SG20	SAIA-SG20-E35	05/01/2014	N	35	35	--	--	--	<18000	--	--	<17000	--	<28000	<15000	--	<19000	**3,200,000**
SAIA-SB/SG21	SAIA-SB/SG-21-5, P816cc	04/30/2014	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	**93**	<19	<40	--	**160**
SAIA-SB/SG21	SAIA-SB/SG-21-15, P913cc	04/30/2014	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	**570**	**67**	**150**	--	**8,500**
SAIA-SB/SG21	SAIA-SB/SG-21-25, P530cc	04/30/2014	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	**360**	**90**	**5,400**	--	**7,000**
SAIA-SB/SG21	SAIA-SB/SG-21-35, P578cc	04/30/2014	N	35	35	<27	<28	<25	<22	<28	<28	--	<28	**38**	<19	**4,700**	--	**21,000**
SAIA-SB/SG22	P866cc	04/29/2014	FD	5	5	<27	**59**	<25	<22	**46**	<28	--	<28	<34	<19	<40	--	**100**
SAIA-SB/SG22	SAIA-SB/SG-22-5, P816cc	04/29/2014	N	5	5	<27	**76**	<25	<22	**61**	**44**	--	<28	**35**	<19	<40	--	**86**
SAIA-SB/SG22	SAIA-SB/SG-22-15, P913cc	04/29/2014	N	15	15	<27	**45**	<25	<22	**40**	<28	--	<28	**39**	<19	<40	--	**180**
SAIA-SB/SG22	SAIA-SB/SG-22-25, P530cc	04/29/2014	N	25	25	<27	**110**	<25	<22	**97**	**43**	--	<28	**43**	**50**	<40	--	**310**
SAIA-SB/SG22	SAIA-SG22-E25	04/29/2014	N	25	25	--	--	--	**10 J**	--	--	<10	--	**60**	**40**	--	<10	**800**
SAIA-SB/SG22	P628cc	04/30/2014	FD	35	35	<27	<28	<25	<22	<28	<28	--	<28	<34	**20**	<40	--	**110**
SAIA-SB/SG22	SAIA-SB/SG-22-35, P578cc	04/30/2014	N	35	35	<27	<28	<25	<22	<28	<28	--	<28	<34	**23**	<40	--	**120**
SAIA-SB/SG23	P4330cc	04/21/2014	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	**72**	<19	<40	--	**280**
SAIA-SB/SG23	P433cc	04/21/2014	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	**58**	<19	<40	--	**260**
SAIA-SB/SG23	P1299cc	04/21/2014	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	**63**	<19	<40	--	**260**
SAIA-SB/SG23	P481cc	04/21/2014	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	**100**	<19	<40	--	**420**
SAIA-SB/SG23	P1444cc	04/21/2014	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	**91**	<19	<40	--	**440**
SAIA-SB/SG23	P4814cc	04/21/2014	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	**88**	<19	<40	--	**440**
SAIA-SB/SG23	P530cc	04/21/2014	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	**69**	<19	<40	--	**900**

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)	
						Trichlorofluoromethane	Vinyl Chloride
SAIA-SB/SG18	SG18-25, P5298cc	04/16/2013	N	25	25	<28	<13
SAIA-SB/SG18	SG18-35, P5806cc	04/17/2013	N	35	35	<28	<13
SAIA-SB/SG19	SAIA-SB/SG-19-5, P816cc	04/29/2014	N	5	5	<28	<13
SAIA-SB/SG19	SAIA-SB/SG-19-15, P913cc	04/29/2014	N	15	15	<28	**13,000**
SAIA-SB/SG19	SAIA-SB/SG-19-25, P530cc	04/29/2014	N	25	25	<28	**810,000**
SAIA-SB/SG19	SAIA-SB/SG-19-35, P578cc	04/29/2014	N	35	35	<28	**38,000**
SAIA-SB/SG20	SAIA-SB/SG-20-5, P816cc	04/30/2014	N	5	5	<28	**170,000**
SAIA-SB/SG20	SAIA-SB/SG-20-15, P913cc	04/30/2014	N	15	15	<28	**85,000**
SAIA-SB/SG20	SAIA-SB/SG-20-25, P530cc	04/30/2014	N	25	25	<28	**98,000**
SAIA-SB/SG20	SAIA-SB/SG-20-35, P578cc	05/01/2014	N	35	35	<28	**80,000**
SAIA-SB/SG20	SAIA-SG20-E35	05/01/2014	N	35	35	<23000	**43,000**
SAIA-SB/SG21	SAIA-SB/SG-21-5, P816cc	04/30/2014	N	5	5	<28	<13
SAIA-SB/SG21	SAIA-SB/SG-21-15, P913cc	04/30/2014	N	15	15	<28	<13
SAIA-SB/SG21	SAIA-SB/SG-21-25, P530cc	04/30/2014	N	25	25	<28	**1,600**
SAIA-SB/SG21	SAIA-SB/SG-21-35, P578cc	04/30/2014	N	35	35	<28	**4,300**
SAIA-SB/SG22	P866cc	04/29/2014	FD	5	5	<28	**32**
SAIA-SB/SG22	SAIA-SB/SG-22-5, P816cc	04/29/2014	N	5	5	<28	**64**
SAIA-SB/SG22	SAIA-SB/SG-22-15, P913cc	04/29/2014	N	15	15	<28	<13
SAIA-SB/SG22	SAIA-SB/SG-22-25, P530cc	04/29/2014	N	25	25	<28	<13
SAIA-SB/SG22	SAIA-SG22-E25	04/29/2014	N	25	25	<20	**10**
SAIA-SB/SG22	P628cc	04/30/2014	FD	35	35	<28	**73**
SAIA-SB/SG22	SAIA-SB/SG-22-35, P578cc	04/30/2014	N	35	35	<28	**90**
SAIA-SB/SG23	P4330cc	04/21/2014	N	5	5	<28	<13
SAIA-SB/SG23	P433cc	04/21/2014	N	5	5	<28	<13
SAIA-SB/SG23	P1299cc	04/21/2014	N	5	5	<28	<13
SAIA-SB/SG23	P481cc	04/21/2014	N	15	15	<28	<13
SAIA-SB/SG23	P1444cc	04/21/2014	N	15	15	<28	<13
SAIA-SB/SG23	P4814cc	04/21/2014	N	15	15	<28	<13
SAIA-SB/SG23	P530cc	04/21/2014	N	25	25	<28	<13

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (in ug/m3)											
						1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Difluoroethane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene
SAIA-SB/SG23	P1589cc	04/21/2014	N	25	25	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG23	P5298cc	04/21/2014	N	25	25	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG23	P578cc	04/21/2014	N	35	35	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG23	P1734cc	04/21/2014	N	35	35	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG23	P5782cc	04/21/2014	N	35	35	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG24	SAIA-SB/SG-24-5, P816cc	04/23/2014	N	5	5	<35	**50**	<35	<39	<28	**180**	<20	<27	<38	<25	--	--
SAIA-SB/SG24	SAIA-SB/SG-24-15, P913cc	04/23/2014	N	15	15	<35	**56**	<35	<39	<28	**360**	**81**	<27	<38	<25	--	--
SAIA-SB/SG24	SAIA-SB/SG-24-25, P530cc	04/23/2014	N	25	25	<35	<28	<35	**43**	<28	<41	**110**	<27	<38	<25	--	--
SAIA-SB/SG24	SAIA-SB/SG-24-35, P578cc	04/23/2014	N	35	35	<35	**610**	<35	<39	<28	**53,000 J**	**35,000 J**	<27	<38	<25	--	--
SAIA-SB/SG24	SAIA-SG24-E35	04/23/2014	N	35	35	--	<26000	<33000	<37000	<26000	**57,000**	**38,000**	--	<35000	<23000	<37000	<29000
SAIA-SB/SG25	SAIA-SB/SG-25-5, P816cc	04/28/2014	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG25	P963cc	04/28/2014	FD	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG25	SAIA-SB/SG-25-15, P913cc	04/28/2014	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG25	SAIA-SB/SG-25-25, P530cc	04/28/2014	N	25	25	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG25	SAIA-SB/SG-25-35, P578cc	04/28/2014	N	35	35	<35	<28	<35	<39	<28	<41	**100**	<27	<38	<25	--	--
SAIA-SB/SG26	P866cc	04/23/2014	FD	5	5	<35	<28	<35	<39	<28	<41	<20	<27	**72 J**	<25	--	--
SAIA-SB/SG26	SAIA-SB/SG-26-5, P816cc	04/23/2014	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	**65 J**	<25	--	--
SAIA-SB/SG26	SAIA-SB/SG-26-15, P913cc	04/23/2014	N	15	15	<35	<28	<35	<39	<28	**900**	**110**	<27	<38	<25	--	--
SAIA-SB/SG26	SAIA-SB/SG-26-25, P530cc	04/24/2014	N	25	25	<35	**30**	<35	<39	<28	**4,400**	**1,100**	<27	<38	<25	--	--
SAIA-SB/SG27	SAIA-SB/SG-27-5, P816cc	04/28/2014	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG27	SAIA-SG27-E5	04/28/2014	N	5	5	--	<100	<100	<200	<100	<80	<80	--	<200	<100	<200	<100
SAIA-SB/SG27	SAIA-SB/SG-27-15, P913cc	04/28/2014	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG27	SAIA-SB/SG-27-25, P530cc	04/28/2014	N	25	25	<35	<28	<35	<39	<28	**220**	<20	<27	<38	<25	--	--
SAIA-SB/SG27	SAIA-SB/SG-27-35, P578cc	04/29/2014	N	35	35	<35	<28	<35	<39	<28	**58**	**99**	<27	<38	<25	--	--
SAIA-SB/SG28	SAIA-SB/SG-28-5, P816cc	04/24/2014	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG28	P963cc	04/24/2014	FD	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG28	SAIA-SB/SG-28-15, P913cc	04/24/2014	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG28	SAIA-SB/SG-28-35, P578cc	04/24/2014	N	35	35	<35	<28	<35	<39	**50**	**220**	**130**	<27	<38	<25	--	--
SAIA-SB/SG29	SAIA-SB/SG-29-5, P816cc	04/24/2014	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG29	SAIA-SG29-E5	04/24/2014	N	5	5	--	<80	<100	<100	<80	<60	<60	--	<100	<70	<100	<90

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)											
						1,2-Dichloroethane	1,2-Dichloropropane	1,2-Dichlorotetrafluoroethane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane (p-Dioxane)	Benzene	Bromodichloromethane	Bromomethane	Carbon Tetrachloride	Chlorobenzene
SAIA-SB/SG23	P1589cc	04/21/2014	N	25	25	<21	--	--	<25	--	<30	<36	**43**	<34	<39	<13	--
SAIA-SB/SG23	P5298cc	04/21/2014	N	25	25	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG23	P578cc	04/21/2014	N	35	35	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG23	P1734cc	04/21/2014	N	35	35	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG23	P5782cc	04/21/2014	N	35	35	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG24	SAIA-SB/SG-24-5, P816cc	04/23/2014	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG24	SAIA-SB/SG-24-15, P913cc	04/23/2014	N	15	15	<21	--	--	<25	--	<30	<36	**19**	<34	<39	<13	--
SAIA-SB/SG24	SAIA-SB/SG-24-25, P530cc	04/23/2014	N	25	25	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG24	SAIA-SB/SG-24-35, P578cc	04/23/2014	N	35	35	<21	--	--	<25	--	<30	<36	**840**	<34	<39	<13	--
SAIA-SB/SG24	SAIA-SG24-E35	04/23/2014	N	35	35	<19000	<22000	<33000	<23000	<29000	<29000	--	<15000	--	<19000	<30000	<22000
SAIA-SB/SG25	SAIA-SB/SG-25-5, P816cc	04/28/2014	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG25	P963cc	04/28/2014	FD	15	15	<21	--	--	<25	--	<30	<36	**26**	<34	<39	<13	--
SAIA-SB/SG25	SAIA-SB/SG-25-15, P913cc	04/28/2014	N	15	15	<21	--	--	<25	--	<30	<36	**20**	<34	<39	<13	--
SAIA-SB/SG25	SAIA-SB/SG-25-25, P530cc	04/28/2014	N	25	25	<21	--	--	<25	--	<30	<36	**28**	<34	<39	<13	--
SAIA-SB/SG25	SAIA-SB/SG-25-35, P578cc	04/28/2014	N	35	35	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG26	P866cc	04/23/2014	FD	5	5	<21	--	--	<25	--	**770**	<36	**46**	<34	<39	<13	--
SAIA-SB/SG26	SAIA-SB/SG-26-5, P816cc	04/23/2014	N	5	5	<21	--	--	<25	--	**770**	<36	**41**	<34	<39	<13	--
SAIA-SB/SG26	SAIA-SB/SG-26-15, P913cc	04/23/2014	N	15	15	<21	--	--	<25	--	<30	<36	**42**	<34	<39	<13	--
SAIA-SB/SG26	SAIA-SB/SG-26-25, P530cc	04/24/2014	N	25	25	<21	--	--	<25	--	<30	<36	**71**	<34	<39	<13	--
SAIA-SB/SG27	SAIA-SB/SG-27-5, P816cc	04/28/2014	N	5	5	<21	--	--	<25	--	<30	<36	**29**	<34	<39	<13	--
SAIA-SB/SG27	SAIA-SG27-E5	04/28/2014	N	5	5	<80	<100	<100	<100	<100	<100	--	**60 J**	--	<80	<100	<100
SAIA-SB/SG27	SAIA-SB/SG-27-15, P913cc	04/28/2014	N	15	15	<21	--	--	<25	--	<30	<36	**25**	<34	<39	<13	--
SAIA-SB/SG27	SAIA-SB/SG-27-25, P530cc	04/28/2014	N	25	25	<21	--	--	<25	--	<30	<36	**49**	<34	<39	<13	--
SAIA-SB/SG27	SAIA-SB/SG-27-35, P578cc	04/29/2014	N	35	35	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG28	SAIA-SB/SG-28-5, P816cc	04/24/2014	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG28	P963cc	04/24/2014	FD	15	15	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG28	SAIA-SB/SG-28-15, P913cc	04/24/2014	N	15	15	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG28	SAIA-SB/SG-28-35, P578cc	04/24/2014	N	35	35	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG29	SAIA-SB/SG-29-5, P816cc	04/24/2014	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG29	SAIA-SG29-E5	04/24/2014	N	5	5	<60	<70	<100	<70	<90	<90	--	<50	--	<60	<90	<70

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)											
						Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropanol	Isopropylbenzene (Cumene)	m,p-Xylene	Methylene Chloride
SAIA-SB/SG23	P1589cc	04/21/2014	N	25	25	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG23	P5298cc	04/21/2014	N	25	25	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG23	P578cc	04/21/2014	N	35	35	<27	<25	<21	**58**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG23	P1734cc	04/21/2014	N	35	35	<27	<25	<21	**55**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG23	P5782cc	04/21/2014	N	35	35	<27	<25	<21	**58**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG24	SAIA-SB/SG-24-5, P816cc	04/23/2014	N	5	5	<27	<25	<21	**170**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG24	SAIA-SB/SG-24-15, P913cc	04/23/2014	N	15	15	<27	<25	<21	**3,900**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG24	SAIA-SB/SG-24-25, P530cc	04/23/2014	N	25	25	<27	<25	<21	**1,200**	--	<25	**40**	--	--	<25	**51**	<18
SAIA-SB/SG24	SAIA-SB/SG-24-35, P578cc	04/23/2014	N	35	35	<27	**120**	<21	**420,000**	--	<25	**93**	--	--	<25	<44	<18
SAIA-SB/SG24	SAIA-SG24-E35	04/23/2014	N	35	35	<13000	<23000	<9900	**2,600,000**	<22000	--	<21000	<51000	--	--	<41000	<17000
SAIA-SB/SG25	SAIA-SB/SG-25-5, P816cc	04/28/2014	N	5	5	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG25	P963cc	04/28/2014	FD	15	15	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG25	SAIA-SB/SG-25-15, P913cc	04/28/2014	N	15	15	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG25	SAIA-SB/SG-25-25, P530cc	04/28/2014	N	25	25	<27	<25	**58**	**81 J**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG25	SAIA-SB/SG-25-35, P578cc	04/28/2014	N	35	35	<27	<25	<21	**6,700 J**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG26	P866cc	04/23/2014	FD	5	5	<27	<25	<21	**240**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG26	SAIA-SB/SG-26-5, P816cc	04/23/2014	N	5	5	<27	<25	<21	**290**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG26	SAIA-SB/SG-26-15, P913cc	04/23/2014	N	15	15	<27	<25	<21	**17,000**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG26	SAIA-SB/SG-26-25, P530cc	04/24/2014	N	25	25	<27	<25	<21	**98,000**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG27	SAIA-SB/SG-27-5, P816cc	04/28/2014	N	5	5	<27	<25	<21	**57 J**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG27	SAIA-SG27-E5	04/28/2014	N	5	5	<60	<100	<40	**200**	<90	--	<90	<200	--	--	<200	<70
SAIA-SB/SG27	SAIA-SB/SG-27-15, P913cc	04/28/2014	N	15	15	<27	<25	<21	**340 J**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG27	SAIA-SB/SG-27-25, P530cc	04/28/2014	N	25	25	<27	<25	<21	**4,000 J**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG27	SAIA-SB/SG-27-35, P578cc	04/29/2014	N	35	35	<27	<25	<21	**14,000**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG28	SAIA-SB/SG-28-5, P816cc	04/24/2014	N	5	5	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG28	P963cc	04/24/2014	FD	15	15	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG28	SAIA-SB/SG-28-15, P913cc	04/24/2014	N	15	15	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG28	SAIA-SB/SG-28-35, P578cc	04/24/2014	N	35	35	<27	<25	<21	**24,000**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG29	SAIA-SB/SG-29-5, P816cc	04/24/2014	N	5	5	<27	<25	<21	**1,200**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG29	SAIA-SG29-E5	04/24/2014	N	5	5	<40	<70	<30	**1,400**	<70	--	<60	<200	--	--	<100	<50

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)												
						Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)
SAIA-SB/SG23	P1589cc	04/21/2014	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	**89**	**55**	<40	--	**320**
SAIA-SB/SG23	P5298cc	04/21/2014	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	**47**	**28**	<40	--	**160**
SAIA-SB/SG23	P578cc	04/21/2014	N	35	35	<27	<28	<25	<22	<28	<28	--	<28	**110**	<19	<40	--	**1,500**
SAIA-SB/SG23	P1734cc	04/21/2014	N	35	35	<27	<28	<25	<22	<28	<28	--	<28	**82**	<19	<40	--	**1,500**
SAIA-SB/SG23	P5782cc	04/21/2014	N	35	35	<27	<28	<25	<22	<28	<28	--	<28	**75**	<19	<40	--	**1,500**
SAIA-SB/SG24	SAIA-SB/SG-24-5, P816cc	04/23/2014	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	**93**	<19	<40	--	**920**
SAIA-SB/SG24	SAIA-SB/SG-24-15, P913cc	04/23/2014	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	**93**	<19	**120**	--	**19,000**
SAIA-SB/SG24	SAIA-SB/SG-24-25, P530cc	04/23/2014	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	**760**	**44**	**45**	--	**5,500**
SAIA-SB/SG24	SAIA-SB/SG-24-35, P578cc	04/23/2014	N	35	35	<27	<28	<25	**24**	**50**	<28	--	<28	**950**	**63**	**72,000 J**	--	**980,000**
SAIA-SB/SG24	SAIA-SG24-E35	04/23/2014	N	35	35	--	--	--	<21000	--	--	<20000	--	<32000	<18000	--	<22000	**6,600,000**
SAIA-SB/SG25	SAIA-SB/SG-25-5, P816cc	04/28/2014	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	**3,000 J**	<19	<40	--	<27
SAIA-SB/SG25	P963cc	04/28/2014	FD	15	15	<27	<28	<25	<22	<28	<28	--	<28	**3,400 J**	<19	<40	--	<27
SAIA-SB/SG25	SAIA-SB/SG-25-15, P913cc	04/28/2014	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	**4,100 J**	<19	<40	--	<27
SAIA-SB/SG25	SAIA-SB/SG-25-25, P530cc	04/28/2014	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	**580 J**	**29 J**	<40	--	**620**
SAIA-SB/SG25	SAIA-SB/SG-25-35, P578cc	04/28/2014	N	35	35	<27	<28	<25	<22	<28	<28	--	<28	**6,400 J**	<19	**690**	--	**25,000**
SAIA-SB/SG26	P866cc	04/23/2014	FD	5	5	<27	<28	<25	<22	<28	<28	--	<28	**36**	<19	<40	--	**740**
SAIA-SB/SG26	SAIA-SB/SG-26-5, P816cc	04/23/2014	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	**65**	<19	<40	--	**950**
SAIA-SB/SG26	SAIA-SB/SG-26-15, P913cc	04/23/2014	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	**37**	<19	**240**	--	**33,000**
SAIA-SB/SG26	SAIA-SB/SG-26-25, P530cc	04/24/2014	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	**75**	**30**	**1,200**	--	**150,000**
SAIA-SB/SG27	SAIA-SB/SG-27-5, P816cc	04/28/2014	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	**53,000 J**	**20 J**	<40	--	**970**
SAIA-SB/SG27	SAIA-SG27-E5	04/28/2014	N	5	5	--	--	--	<90	--	--	<90	--	**40,000**	<80	--	<90	**1,600**
SAIA-SB/SG27	SAIA-SB/SG-27-15, P913cc	04/28/2014	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	**30,000 J**	<19	**100**	--	**5,300**
SAIA-SB/SG27	SAIA-SB/SG-27-25, P530cc	04/28/2014	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	**15,000 J**	<19	**460**	--	**23,000**
SAIA-SB/SG27	SAIA-SB/SG-27-35, P578cc	04/29/2014	N	35	35	<27	<28	<25	<22	<28	<28	--	<28	**210**	<19	**1,200**	--	**10,000**
SAIA-SB/SG28	SAIA-SB/SG-28-5, P816cc	04/24/2014	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	**590**	<19	<40	--	<27
SAIA-SB/SG28	P963cc	04/24/2014	FD	15	15	<27	<28	<25	<22	<28	<28	--	<28	**540**	<19	<40	--	<27
SAIA-SB/SG28	SAIA-SB/SG-28-15, P913cc	04/24/2014	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	**690**	<19	<40	--	<27
SAIA-SB/SG28	SAIA-SB/SG-28-35, P578cc	04/24/2014	N	35	35	<27	<28	<25	<22	<28	<28	--	<28	**310**	<19	**1,600**	--	**11,000**
SAIA-SB/SG29	SAIA-SB/SG-29-5, P816cc	04/24/2014	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	**5,700**
SAIA-SB/SG29	SAIA-SG29-E5	04/24/2014	N	5	5	--	--	--	<60	--	--	<60	--	<100	<60	--	<70	**4,800**

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)	
						Trichlorofluoromethane	Vinyl Chloride
SAIA-SB/SG23	P1589cc	04/21/2014	N	25	25	<28	<13
SAIA-SB/SG23	P5298cc	04/21/2014	N	25	25	<28	<13
SAIA-SB/SG23	P578cc	04/21/2014	N	35	35	<28	<13
SAIA-SB/SG23	P1734cc	04/21/2014	N	35	35	<28	<13
SAIA-SB/SG23	P5782cc	04/21/2014	N	35	35	<28	<13
SAIA-SB/SG24	SAIA-SB/SG-24-5, P816cc	04/23/2014	N	5	5	<28	<13
SAIA-SB/SG24	SAIA-SB/SG-24-15, P913cc	04/23/2014	N	15	15	<28	<13
SAIA-SB/SG24	SAIA-SB/SG-24-25, P530cc	04/23/2014	N	25	25	<28	<13
SAIA-SB/SG24	SAIA-SB/SG-24-35, P578cc	04/23/2014	N	35	35	<28	**17,000 J**
SAIA-SB/SG24	SAIA-SG24-E35	04/23/2014	N	35	35	<27000	**20,000**
SAIA-SB/SG25	SAIA-SB/SG-25-5, P816cc	04/28/2014	N	5	5	<28	<13
SAIA-SB/SG25	P963cc	04/28/2014	FD	15	15	<28	<13
SAIA-SB/SG25	SAIA-SB/SG-25-15, P913cc	04/28/2014	N	15	15	<28	<13
SAIA-SB/SG25	SAIA-SB/SG-25-25, P530cc	04/28/2014	N	25	25	<28	<13
SAIA-SB/SG25	SAIA-SB/SG-25-35, P578cc	04/28/2014	N	35	35	<28	**26**
SAIA-SB/SG26	P866cc	04/23/2014	FD	5	5	<28	<13
SAIA-SB/SG26	SAIA-SB/SG-26-5, P816cc	04/23/2014	N	5	5	<28	<13
SAIA-SB/SG26	SAIA-SB/SG-26-15, P913cc	04/23/2014	N	15	15	<28	**230**
SAIA-SB/SG26	SAIA-SB/SG-26-25, P530cc	04/24/2014	N	25	25	<28	**6,500**
SAIA-SB/SG27	SAIA-SB/SG-27-5, P816cc	04/28/2014	N	5	5	<28	<13
SAIA-SB/SG27	SAIA-SG27-E5	04/28/2014	N	5	5	<100	<50
SAIA-SB/SG27	SAIA-SB/SG-27-15, P913cc	04/28/2014	N	15	15	<28	<13
SAIA-SB/SG27	SAIA-SB/SG-27-25, P530cc	04/28/2014	N	25	25	<28	<13
SAIA-SB/SG27	SAIA-SB/SG-27-35, P578cc	04/29/2014	N	35	35	<28	<13
SAIA-SB/SG28	SAIA-SB/SG-28-5, P816cc	04/24/2014	N	5	5	<28	<13
SAIA-SB/SG28	P963cc	04/24/2014	FD	15	15	<28	<13
SAIA-SB/SG28	SAIA-SB/SG-28-15, P913cc	04/24/2014	N	15	15	<28	<13
SAIA-SB/SG28	SAIA-SB/SG-28-35, P578cc	04/24/2014	N	35	35	<28	**64**
SAIA-SB/SG29	SAIA-SB/SG-29-5, P816cc	04/24/2014	N	5	5	<28	<13
SAIA-SB/SG29	SAIA-SG29-E5	04/24/2014	N	5	5	<80	<40

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (in ug/m3)											
						1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Difluoroethane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene
SAIA-SB/SG29	SAIA-SB/SG-29-15, P913cc	04/24/2014	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG29	SAIA-SB/SG-29-25, P530cc	04/24/2014	N	25	25	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG29	SAIA-SB/SG-29-35, P578cc	04/24/2014	N	35	35	<35	<28	<35	<39	<28	**120**	**74**	<27	<38	<25	--	--
SAIA-SB/SG30	SAIA-SB/SG-30-5, P816cc	04/24/2014	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG30	SAIA-SB/SG-30-15, P913cc	04/24/2014	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG30	SAIA-SB/SG-30-25, P530cc	04/25/2014	N	25	25	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG30	SAIA-SG30-E25	04/25/2014	N	25	25	--	<20	<20	<20	<20	<10	<10	--	<20	<20	<20	<20
SAIA-SB/SG30	SAIA-SB/SG-30-35, P578cc	04/25/2014	N	35	35	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG31	SAIA-SB/SG-31-5, P816cc	04/24/2014	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG31	SAIA-SB/SG-31-15, P913cc	04/24/2014	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG31	SAIA-SB/SG-31-25, P530cc	04/24/2014	N	25	25	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG31	SAIA-SB/SG-31-35, P578cc	04/24/2014	N	35	35	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG32	SAIA-SB/SG-32-5, P816cc	04/25/2014	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG32	SAIA-SB/SG-32-15, P913cc	04/25/2014	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG32	SAIA-SG32-E15	04/25/2014	N	15	15	--	<10	<20	<20	<10	**5 J**	<9	--	**10 J**	**7 J**	<20	<10
SAIA-SB/SG32	SAIA-SB/SG-32-25, P530cc	04/25/2014	N	25	25	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG32	SAIA-SB/SG-32-35, P578cc	04/25/2014	N	35	35	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG33	P866cc	04/25/2014	FD	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG33	SAIA-SB/SG-33-5, P816cc	04/25/2014	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG33	SAIA-SB/SG-33-15, P913cc	04/25/2014	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	**2,700**	--	--
SAIA-SB/SG33	SAIA-SB/SG-33-25, P530cc	04/25/2014	N	25	25	<35	<28	<35	<39	<28	<41	<20	<27	<38	**600**	--	--
SAIA-SB/SG33	SAIA-SB/SG-33-35, P578cc	04/25/2014	N	35	35	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG33	SAIA-SG33-E35	04/25/2014	N	35	35	--	<10	<20	<20	<10	**10**	**10**	--	<20	**10 J**	<20	<20
SAIA-SB/SG34	SAIA-SB/SG-34-5, P816cc	04/25/2014	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG34	SAIA-SB/SG-34-15, P913cc	04/25/2014	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG34	SAIA-SB/SG-34-25, P530cc	04/25/2014	N	25	25	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG34	SAIA-SB/SG-34-35, P578cc	04/25/2014	N	35	35	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG35	SAIA-SB/SG-35-5, P816cc	04/28/2014	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG35	SAIA-SB/SG-35-15, P913cc	04/28/2014	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG35	SAIA-SB/SG-35-25, P530cc	04/28/2014	N	25	25	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)											
						1,2-Dichloroethane	1,2-Dichloropropane	1,2-Dichlorotetrafluoroethane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane (p-Dioxane)	Benzene	Bromodichloromethane	Bromomethane	Carbon Tetrachloride	Chlorobenzene
SAIA-SB/SG29	SAIA-SB/SG-29-15, P913cc	04/24/2014	N	15	15	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG29	SAIA-SB/SG-29-25, P530cc	04/24/2014	N	25	25	<21	--	--	<25	--	<30	<36	**170**	<34	<39	<13	--
SAIA-SB/SG29	SAIA-SB/SG-29-35, P578cc	04/24/2014	N	35	35	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG30	SAIA-SB/SG-30-5, P816cc	04/24/2014	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG30	SAIA-SB/SG-30-15, P913cc	04/24/2014	N	15	15	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG30	SAIA-SB/SG-30-25, P530cc	04/25/2014	N	25	25	<21	--	--	<25	--	<30	<36	**28**	<34	<39	<13	--
SAIA-SB/SG30	SAIA-SG30-E25	04/25/2014	N	25	25	<10	<10	<20	<20	<20	<20	--	**40**	--	<10	<20	<10
SAIA-SB/SG30	SAIA-SB/SG-30-35, P578cc	04/25/2014	N	35	35	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG31	SAIA-SB/SG-31-5, P816cc	04/24/2014	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG31	SAIA-SB/SG-31-15, P913cc	04/24/2014	N	15	15	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG31	SAIA-SB/SG-31-25, P530cc	04/24/2014	N	25	25	<21	--	--	<25	--	<30	<36	**24**	<34	<39	<13	--
SAIA-SB/SG31	SAIA-SB/SG-31-35, P578cc	04/24/2014	N	35	35	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG32	SAIA-SB/SG-32-5, P816cc	04/25/2014	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG32	SAIA-SB/SG-32-15, P913cc	04/25/2014	N	15	15	<21	--	--	<25	--	<30	<36	**21**	<34	<39	<13	--
SAIA-SB/SG32	SAIA-SG32-E15	04/25/2014	N	15	15	<10	<10	<20	<10	<10	<10	--	**40**	--	<9	<10	<10
SAIA-SB/SG32	SAIA-SB/SG-32-25, P530cc	04/25/2014	N	25	25	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG32	SAIA-SB/SG-32-35, P578cc	04/25/2014	N	35	35	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG33	P866cc	04/25/2014	FD	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG33	SAIA-SB/SG-33-5, P816cc	04/25/2014	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG33	SAIA-SB/SG-33-15, P913cc	04/25/2014	N	15	15	<21	--	--	**420**	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG33	SAIA-SB/SG-33-25, P530cc	04/25/2014	N	25	25	<21	--	--	**230**	--	<30	<36	**35**	<34	<39	<13	--
SAIA-SB/SG33	SAIA-SB/SG-33-35, P578cc	04/25/2014	N	35	35	<21	--	--	<25	--	<30	<36	**29**	<34	<39	<13	--
SAIA-SB/SG33	SAIA-SG33-E35	04/25/2014	N	35	35	<10	<10	<20	<10	<20	<20	--	**50**	--	<10	<20	<10
SAIA-SB/SG34	SAIA-SB/SG-34-5, P816cc	04/25/2014	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG34	SAIA-SB/SG-34-15, P913cc	04/25/2014	N	15	15	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG34	SAIA-SB/SG-34-25, P530cc	04/25/2014	N	25	25	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG34	SAIA-SB/SG-34-35, P578cc	04/25/2014	N	35	35	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG35	SAIA-SB/SG-35-5, P816cc	04/28/2014	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG35	SAIA-SB/SG-35-15, P913cc	04/28/2014	N	15	15	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG35	SAIA-SB/SG-35-25, P530cc	04/28/2014	N	25	25	<21	--	--	<25	--	<30	<36	**79**	<34	<39	<13	--

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)											
						Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropanol	Isopropylbenzene (Cumene)	m,p-Xylene	Methylene Chloride
SAIA-SB/SG29	SAIA-SB/SG-29-15, P913cc	04/24/2014	N	15	15	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG29	SAIA-SB/SG-29-25, P530cc	04/24/2014	N	25	25	<27	<25	<21	**83**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG29	SAIA-SB/SG-29-35, P578cc	04/24/2014	N	35	35	<27	<25	<21	**7,600**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG30	SAIA-SB/SG-30-5, P816cc	04/24/2014	N	5	5	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG30	SAIA-SB/SG-30-15, P913cc	04/24/2014	N	15	15	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG30	SAIA-SB/SG-30-25, P530cc	04/25/2014	N	25	25	<27	<25	<21	**240**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG30	SAIA-SG30-E25	04/25/2014	N	25	25	<8	<20	<7	**500**	<10	--	<10	<30	--	--	<30	<10
SAIA-SB/SG30	SAIA-SB/SG-30-35, P578cc	04/25/2014	N	35	35	<27	<25	<21	**290**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG31	SAIA-SB/SG-31-5, P816cc	04/24/2014	N	5	5	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG31	SAIA-SB/SG-31-15, P913cc	04/24/2014	N	15	15	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG31	SAIA-SB/SG-31-25, P530cc	04/24/2014	N	25	25	<27	<25	<21	**170**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG31	SAIA-SB/SG-31-35, P578cc	04/24/2014	N	35	35	<27	<25	<21	**1,600**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG32	SAIA-SB/SG-32-5, P816cc	04/25/2014	N	5	5	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG32	SAIA-SB/SG-32-15, P913cc	04/25/2014	N	15	15	<27	<25	<21	**150**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG32	SAIA-SG32-E15	04/25/2014	N	15	15	<6	<10	<5	**400**	<10	--	<10	<30	--	--	<20	<8
SAIA-SB/SG32	SAIA-SB/SG-32-25, P530cc	04/25/2014	N	25	25	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG32	SAIA-SB/SG-32-35, P578cc	04/25/2014	N	35	35	<27	<25	<21	**47**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG33	P866cc	04/25/2014	FD	5	5	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG33	SAIA-SB/SG-33-5, P816cc	04/25/2014	N	5	5	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG33	SAIA-SB/SG-33-15, P913cc	04/25/2014	N	15	15	<27	<25	<21	<40	--	<25	**270**	--	--	**420**	**120**	<18
SAIA-SB/SG33	SAIA-SB/SG-33-25, P530cc	04/25/2014	N	25	25	<27	<25	<21	<40	--	<25	**170**	--	--	**230**	**140**	<18
SAIA-SB/SG33	SAIA-SB/SG-33-35, P578cc	04/25/2014	N	35	35	<27	<25	<21	**630**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG33	SAIA-SG33-E35	04/25/2014	N	35	35	<7	<10	<6	**800**	<10	--	<10	<30	--	--	<20	<9
SAIA-SB/SG34	SAIA-SB/SG-34-5, P816cc	04/25/2014	N	5	5	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG34	SAIA-SB/SG-34-15, P913cc	04/25/2014	N	15	15	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG34	SAIA-SB/SG-34-25, P530cc	04/25/2014	N	25	25	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG34	SAIA-SB/SG-34-35, P578cc	04/25/2014	N	35	35	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG35	SAIA-SB/SG-35-5, P816cc	04/28/2014	N	5	5	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG35	SAIA-SB/SG-35-15, P913cc	04/28/2014	N	15	15	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG35	SAIA-SB/SG-35-25, P530cc	04/28/2014	N	25	25	<27	<25	<21	**51 J**	--	<25	<22	--	--	<25	<44	<18

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)												
						Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)
SAIA-SB/SG29	SAIA-SB/SG-29-15, P913cc	04/24/2014	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	**61**	<19	<40	--	<27
SAIA-SB/SG29	SAIA-SB/SG-29-25, P530cc	04/24/2014	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	<34	**35**	<40	--	**320**
SAIA-SB/SG29	SAIA-SB/SG-29-35, P578cc	04/24/2014	N	35	35	<27	<28	<25	<22	<28	<28	--	<28	**680**	<19	**530**	--	**9,500**
SAIA-SB/SG30	SAIA-SB/SG-30-5, P816cc	04/24/2014	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	**400**	<19	<40	--	<27
SAIA-SB/SG30	SAIA-SB/SG-30-15, P913cc	04/24/2014	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	**590**	<19	<40	--	<27
SAIA-SB/SG30	SAIA-SB/SG-30-25, P530cc	04/25/2014	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	**740**	<19	<40	--	**1,300**
SAIA-SB/SG30	SAIA-SG30-E25	04/25/2014	N	25	25	--	--	--	<10	--	--	<10	--	**700**	**8 J**	--	<10	**2,600**
SAIA-SB/SG30	SAIA-SB/SG-30-35, P578cc	04/25/2014	N	35	35	<27	<28	<25	<22	<28	<28	--	<28	**490**	<19	**59**	--	**250**
SAIA-SB/SG31	SAIA-SB/SG-31-5, P816cc	04/24/2014	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	**490**	<19	<40	--	<27
SAIA-SB/SG31	SAIA-SB/SG-31-15, P913cc	04/24/2014	N	15	15	<27	<28	<25	<22	**34**	<28	--	<28	**750**	<19	<40	--	**57**
SAIA-SB/SG31	SAIA-SB/SG-31-25, P530cc	04/24/2014	N	25	25	<27	<28	<25	<22	**110**	<28	--	<28	**580**	<19	<40	--	**2,300**
SAIA-SB/SG31	SAIA-SB/SG-31-35, P578cc	04/24/2014	N	35	35	<27	<28	<25	<22	<28	<28	--	<28	**560**	<19	**110**	--	**1,500**
SAIA-SB/SG32	SAIA-SB/SG-32-5, P816cc	04/25/2014	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	**76**	<19	<40	--	<27
SAIA-SB/SG32	SAIA-SB/SG-32-15, P913cc	04/25/2014	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	**230**	<19	<40	--	**980**
SAIA-SB/SG32	SAIA-SG32-E15	04/25/2014	N	15	15	--	--	--	<10	--	--	<10	--	**200**	**8 J**	--	<10	**2,000**
SAIA-SB/SG32	SAIA-SB/SG-32-25, P530cc	04/25/2014	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	<27
SAIA-SB/SG32	SAIA-SB/SG-32-35, P578cc	04/25/2014	N	35	35	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	**120**
SAIA-SB/SG33	P866cc	04/25/2014	FD	5	5	<27	<28	<25	<22	<28	<28	--	<28	**410**	<19	<40	--	<27
SAIA-SB/SG33	SAIA-SB/SG-33-5, P816cc	04/25/2014	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	**470**	<19	<40	--	<27
SAIA-SB/SG33	SAIA-SB/SG-33-15, P913cc	04/25/2014	N	15	15	**260**	<28	**320**	**300**	**940**	**1,300**	--	**400**	**190**	<19	<40	--	<27
SAIA-SB/SG33	SAIA-SB/SG-33-25, P530cc	04/25/2014	N	25	25	**33**	<28	**110**	**46**	**3,400**	**650**	--	<28	<34	**39**	<40	--	<27
SAIA-SB/SG33	SAIA-SB/SG-33-35, P578cc	04/25/2014	N	35	35	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	**51**	--	**1,900**
SAIA-SB/SG33	SAIA-SG33-E35	04/25/2014	N	35	35	--	--	--	<10	--	--	<10	--	**20**	**8 J**	--	<10	**2,700**
SAIA-SB/SG34	SAIA-SB/SG-34-5, P816cc	04/25/2014	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	<27
SAIA-SB/SG34	SAIA-SB/SG-34-15, P913cc	04/25/2014	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	<27
SAIA-SB/SG34	SAIA-SB/SG-34-25, P530cc	04/25/2014	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	<27
SAIA-SB/SG34	SAIA-SB/SG-34-35, P578cc	04/25/2014	N	35	35	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	<27
SAIA-SB/SG35	SAIA-SB/SG-35-5, P816cc	04/28/2014	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	<27
SAIA-SB/SG35	SAIA-SB/SG-35-15, P913cc	04/28/2014	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	<27
SAIA-SB/SG35	SAIA-SB/SG-35-25, P530cc	04/28/2014	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	<34	**34 J**	<40	--	**530**

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)	
						Trichlorofluoromethane	Vinyl Chloride
SAIA-SB/SG29	SAIA-SB/SG-29-15, P913cc	04/24/2014	N	15	15	<28	<13
SAIA-SB/SG29	SAIA-SB/SG-29-25, P530cc	04/24/2014	N	25	25	<28	**13**
SAIA-SB/SG29	SAIA-SB/SG-29-35, P578cc	04/24/2014	N	35	35	<28	<13
SAIA-SB/SG30	SAIA-SB/SG-30-5, P816cc	04/24/2014	N	5	5	<28	<13
SAIA-SB/SG30	SAIA-SB/SG-30-15, P913cc	04/24/2014	N	15	15	<28	<13
SAIA-SB/SG30	SAIA-SB/SG-30-25, P530cc	04/25/2014	N	25	25	<28	<13
SAIA-SB/SG30	SAIA-SG30-E25	04/25/2014	N	25	25	<20	<8
SAIA-SB/SG30	SAIA-SB/SG-30-35, P578cc	04/25/2014	N	35	35	<28	<13
SAIA-SB/SG31	SAIA-SB/SG-31-5, P816cc	04/24/2014	N	5	5	<28	<13
SAIA-SB/SG31	SAIA-SB/SG-31-15, P913cc	04/24/2014	N	15	15	<28	<13
SAIA-SB/SG31	SAIA-SB/SG-31-25, P530cc	04/24/2014	N	25	25	<28	<13
SAIA-SB/SG31	SAIA-SB/SG-31-35, P578cc	04/24/2014	N	35	35	<28	<13
SAIA-SB/SG32	SAIA-SB/SG-32-5, P816cc	04/25/2014	N	5	5	<28	<13
SAIA-SB/SG32	SAIA-SB/SG-32-15, P913cc	04/25/2014	N	15	15	<28	<13
SAIA-SB/SG32	SAIA-SG32-E15	04/25/2014	N	15	15	<10	<6
SAIA-SB/SG32	SAIA-SB/SG-32-25, P530cc	04/25/2014	N	25	25	<28	<13
SAIA-SB/SG32	SAIA-SB/SG-32-35, P578cc	04/25/2014	N	35	35	<28	<13
SAIA-SB/SG33	P866cc	04/25/2014	FD	5	5	<28	<13
SAIA-SB/SG33	SAIA-SB/SG-33-5, P816cc	04/25/2014	N	5	5	<28	<13
SAIA-SB/SG33	SAIA-SB/SG-33-15, P913cc	04/25/2014	N	15	15	<28	<13
SAIA-SB/SG33	SAIA-SB/SG-33-25, P530cc	04/25/2014	N	25	25	<28	<13
SAIA-SB/SG33	SAIA-SB/SG-33-35, P578cc	04/25/2014	N	35	35	<28	<13
SAIA-SB/SG33	SAIA-SG33-E35	04/25/2014	N	35	35	<20	<7
SAIA-SB/SG34	SAIA-SB/SG-34-5, P816cc	04/25/2014	N	5	5	<28	<13
SAIA-SB/SG34	SAIA-SB/SG-34-15, P913cc	04/25/2014	N	15	15	<28	<13
SAIA-SB/SG34	SAIA-SB/SG-34-25, P530cc	04/25/2014	N	25	25	<28	<13
SAIA-SB/SG34	SAIA-SB/SG-34-35, P578cc	04/25/2014	N	35	35	<28	<13
SAIA-SB/SG35	SAIA-SB/SG-35-5, P816cc	04/28/2014	N	5	5	<28	<13
SAIA-SB/SG35	SAIA-SB/SG-35-15, P913cc	04/28/2014	N	15	15	<28	<13
SAIA-SB/SG35	SAIA-SB/SG-35-25, P530cc	04/28/2014	N	25	25	<28	<13

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (in ug/m3)											
						1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Difluoroethane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene
SAIA-SB/SG35	SAIA-SG35-E25	04/28/2014	N	25	25	--	<10	<20	<20	<10	<10	<10	--	**10 J**	**10 J**	<20	<10
SAIA-SB/SG35	SAIA-SB/SG-35-35, P578cc	04/28/2014	N	35	35	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG36	SAIA-SB/SG-36-5, P816cc	04/23/2014	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG36	SAIA-SB/SG-36-15, P913cc	04/23/2014	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG36	SAIA-SB/SG-36-25, P530cc	04/23/2014	N	25	25	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG36	SAIA-SB/SG-36-35, P578cc	04/23/2014	N	35	35	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG36	SAIA-SG36-E35	04/23/2014	N	35	35	--	<20	<20	<30	<20	<10	<10	--	<30	<20	<30	<20
SAIA-SB/SG37	SAIA-SB/SG-37-5, P816cc	04/22/2014	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG37	SAIA-SB/SG-37-15, P913cc	04/22/2014	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG38	SAIA-SB/SG-38-5, P816cc	04/22/2014	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG38	P963cc	04/22/2014	FD	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG38	SAIA-SB/SG-38-15, P913cc	04/22/2014	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG38	SAIA-SB/SG-38-25, P530cc	04/22/2014	N	25	25	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG38	SAIA-SB/SG-38-35, P578cc	04/22/2014	N	35	35	<35	**120**	<35	<39	<28	**45,000**	**4,400**	<27	<38	<25	--	--
SAIA-SB/SG39	SAIA-SB/SG-39-5, P816cc	04/22/2014	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG39	SAIA-SB/SG-39-15, P913cc	04/22/2014	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG39	SAIA-SG39-E15	04/22/2014	N	15	15	--	<30	<30	<40	<30	<20	<20	--	<40	**20 J**	<40	<30
SAIA-SB/SG39	SAIA-SB/SG-39-25, P530cc	04/22/2014	N	25	25	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG39	SAIA-SB/SG-39-35, P578cc	04/22/2014	N	35	35	<35	<28	<35	<39	<28	**380**	**160**	**92**	<38	<25	--	--
SAIA-SB/SG40	SAIA-SB/SG-40-5, P816cc	05/01/2014	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG40	SAIA-SB/SG-40-15, P913cc	05/01/2014	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG40	SAIA-SB/SG-40-25, P530cc	05/01/2014	N	25	25	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG40	P628cc	05/01/2014	FD	35	35	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG40	SAIA-SB/SG-40-35, P578cc	05/01/2014	N	35	35	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG41	SAIA-SB/SG-41-5, P816cc	05/01/2014	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG41	SAIA-SG41-E5	05/01/2014	N	5	5	--	<60	<80	<80	<60	**20 J**	<40	--	<80	<50	<80	<70
SAIA-SB/SG41	SAIA-SB/SG-41-15, P913cc	05/01/2014	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG41	SAIA-SB/SG-41-25, P530cc	05/01/2014	N	25	25	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG41	SAIA-SB/SG-41-35, P578cc	05/01/2014	N	35	35	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG42	SAIA-SB/SG-42-5, P816cc	05/02/2014	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)											
						1,2-Dichloroethane	1,2-Dichloropropane	1,2-Dichlorotetrafluoroethane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane (p-Dioxane)	Benzene	Bromodichloromethane	Bromomethane	Carbon Tetrachloride	Chlorobenzene
SAIA-SB/SG35	SAIA-SG35-E25	04/28/2014	N	25	25	<10	<10	<20	<10	<10	<10	--	**100**	--	<9	<20	<10
SAIA-SB/SG35	SAIA-SB/SG-35-35, P578cc	04/28/2014	N	35	35	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG36	SAIA-SB/SG-36-5, P816cc	04/23/2014	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG36	SAIA-SB/SG-36-15, P913cc	04/23/2014	N	15	15	<21	--	--	<25	--	<30	<36	**21**	<34	<39	<13	--
SAIA-SB/SG36	SAIA-SB/SG-36-25, P530cc	04/23/2014	N	25	25	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG36	SAIA-SB/SG-36-35, P578cc	04/23/2014	N	35	35	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG36	SAIA-SG36-E35	04/23/2014	N	35	35	<10	<20	<20	<20	<20	<20	--	**9 J**	--	<10	<20	<20
SAIA-SB/SG37	SAIA-SB/SG-37-5, P816cc	04/22/2014	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG37	SAIA-SB/SG-37-15, P913cc	04/22/2014	N	15	15	<21	--	--	<25	--	<30	<36	**58**	<34	<39	<13	--
SAIA-SB/SG38	SAIA-SB/SG-38-5, P816cc	04/22/2014	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG38	P963cc	04/22/2014	FD	15	15	<21	--	--	<25	--	<30	<36	**49**	<34	<39	<13	--
SAIA-SB/SG38	SAIA-SB/SG-38-15, P913cc	04/22/2014	N	15	15	<21	--	--	<25	--	<30	<36	**52**	<34	<39	<13	--
SAIA-SB/SG38	SAIA-SB/SG-38-25, P530cc	04/22/2014	N	25	25	<21	--	--	<25	--	<30	<36	**55**	<34	<39	<13	--
SAIA-SB/SG38	SAIA-SB/SG-38-35, P578cc	04/22/2014	N	35	35	**65**	--	--	**190**	--	<30	<36	**230**	<34	<39	<13	--
SAIA-SB/SG39	SAIA-SB/SG-39-5, P816cc	04/22/2014	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG39	SAIA-SB/SG-39-15, P913cc	04/22/2014	N	15	15	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG39	SAIA-SG39-E15	04/22/2014	N	15	15	<20	<20	<30	<20	<30	<30	--	**10 J**	--	<20	<30	<20
SAIA-SB/SG39	SAIA-SB/SG-39-25, P530cc	04/22/2014	N	25	25	<21	--	--	<25	--	<30	<36	**90**	<34	<39	<13	--
SAIA-SB/SG39	SAIA-SB/SG-39-35, P578cc	04/22/2014	N	35	35	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG40	SAIA-SB/SG-40-5, P816cc	05/01/2014	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG40	SAIA-SB/SG-40-15, P913cc	05/01/2014	N	15	15	<21	--	--	<25	--	<30	<36	**23**	<34	<39	<13	--
SAIA-SB/SG40	SAIA-SB/SG-40-25, P530cc	05/01/2014	N	25	25	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG40	P628cc	05/01/2014	FD	35	35	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG40	SAIA-SB/SG-40-35, P578cc	05/01/2014	N	35	35	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG41	SAIA-SB/SG-41-5, P816cc	05/01/2014	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG41	SAIA-SG41-E5	05/01/2014	N	5	5	<40	<50	<80	<50	<70	<70	--	**60**	--	<40	<70	<50
SAIA-SB/SG41	SAIA-SB/SG-41-15, P913cc	05/01/2014	N	15	15	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG41	SAIA-SB/SG-41-25, P530cc	05/01/2014	N	25	25	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG41	SAIA-SB/SG-41-35, P578cc	05/01/2014	N	35	35	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG42	SAIA-SB/SG-42-5, P816cc	05/02/2014	N	5	5	<21	--	--	<25	--	<30	<36	**21**	<34	<39	<13	--

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)											
						Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropanol	Isopropylbenzene (Cumene)	m,p-Xylene	Methylene Chloride
SAIA-SB/SG35	SAIA-SG35-E25	04/28/2014	N	25	25	<6	<10	<5	**100**	<10	--	**7 J**	<30	--	--	**20**	<8
SAIA-SB/SG35	SAIA-SB/SG-35-35, P578cc	04/28/2014	N	35	35	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG36	SAIA-SB/SG-36-5, P816cc	04/23/2014	N	5	5	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG36	SAIA-SB/SG-36-15, P913cc	04/23/2014	N	15	15	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG36	SAIA-SB/SG-36-25, P530cc	04/23/2014	N	25	25	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG36	SAIA-SB/SG-36-35, P578cc	04/23/2014	N	35	35	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG36	SAIA-SG36-E35	04/23/2014	N	35	35	<9	<20	<7	**20**	<20	--	<10	<40	--	--	<30	<10
SAIA-SB/SG37	SAIA-SB/SG-37-5, P816cc	04/22/2014	N	5	5	<27	<25	<21	**380**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG37	SAIA-SB/SG-37-15, P913cc	04/22/2014	N	15	15	<27	<25	<21	**83**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG38	SAIA-SB/SG-38-5, P816cc	04/22/2014	N	5	5	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG38	P963cc	04/22/2014	FD	15	15	<27	<25	<21	**330**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG38	SAIA-SB/SG-38-15, P913cc	04/22/2014	N	15	15	<27	<25	<21	**350**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG38	SAIA-SB/SG-38-25, P530cc	04/22/2014	N	25	25	<27	<25	<21	**510**	--	<25	<22	--	--	<25	**47**	<18
SAIA-SB/SG38	SAIA-SB/SG-38-35, P578cc	04/22/2014	N	35	35	<27	**44**	<21	**1,100,000**	--	<25	**25**	--	--	**190**	<44	<18
SAIA-SB/SG39	SAIA-SB/SG-39-5, P816cc	04/22/2014	N	5	5	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG39	SAIA-SB/SG-39-15, P913cc	04/22/2014	N	15	15	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG39	SAIA-SG39-E15	04/22/2014	N	15	15	<10	<20	<10	**20**	<20	--	<20	<50	--	--	**20 J**	<20
SAIA-SB/SG39	SAIA-SB/SG-39-25, P530cc	04/22/2014	N	25	25	<27	<25	<21	**140**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG39	SAIA-SB/SG-39-35, P578cc	04/22/2014	N	35	35	<27	<25	<21	**34,000**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG40	SAIA-SB/SG-40-5, P816cc	05/01/2014	N	5	5	<27	<25	<21	**410**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG40	SAIA-SB/SG-40-15, P913cc	05/01/2014	N	15	15	<27	<25	<21	**340**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG40	SAIA-SB/SG-40-25, P530cc	05/01/2014	N	25	25	<27	<25	<21	**200**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG40	P628cc	05/01/2014	FD	35	35	<27	<25	<21	**730**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG40	SAIA-SB/SG-40-35, P578cc	05/01/2014	N	35	35	<27	<25	<21	**900**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG41	SAIA-SB/SG-41-5, P816cc	05/01/2014	N	5	5	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG41	SAIA-SG41-E5	05/01/2014	N	5	5	<30	<50	<20	**5,100**	<50	--	<50	<100	--	--	<100	<40
SAIA-SB/SG41	SAIA-SB/SG-41-15, P913cc	05/01/2014	N	15	15	<27	<25	<21	**160**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG41	SAIA-SB/SG-41-25, P530cc	05/01/2014	N	25	25	<27	<25	<21	**60**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG41	SAIA-SB/SG-41-35, P578cc	05/01/2014	N	35	35	<27	<25	<21	**69**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG42	SAIA-SB/SG-42-5, P816cc	05/02/2014	N	5	5	<27	<25	<21	**190**	--	<25	<22	--	--	<25	<44	<18

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)												
						Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)
SAIA-SB/SG35	SAIA-SG35-E25	04/28/2014	N	25	25	--	--	--	**10**	--	--	<10	--	<20	**20**	--	<10	**1,200**
SAIA-SB/SG35	SAIA-SB/SG-35-35, P578cc	04/28/2014	N	35	35	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	<27
SAIA-SB/SG36	SAIA-SB/SG-36-5, P816cc	04/23/2014	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	<27
SAIA-SB/SG36	SAIA-SB/SG-36-15, P913cc	04/23/2014	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	<27
SAIA-SB/SG36	SAIA-SB/SG-36-25, P530cc	04/23/2014	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	<27
SAIA-SB/SG36	SAIA-SB/SG-36-35, P578cc	04/23/2014	N	35	35	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	**40**
SAIA-SB/SG36	SAIA-SG36-E35	04/23/2014	N	35	35	--	--	--	<10	--	--	<10	--	<20	**8 J**	--	<20	**80**
SAIA-SB/SG37	SAIA-SB/SG-37-5, P816cc	04/22/2014	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	**45**	<19	<40	--	**400**
SAIA-SB/SG37	SAIA-SB/SG-37-15, P913cc	04/22/2014	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	<34	**35**	<40	--	**160**
SAIA-SB/SG38	SAIA-SB/SG-38-5, P816cc	04/22/2014	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	**46**	<19	<40	--	<27
SAIA-SB/SG38	P963cc	04/22/2014	FD	15	15	<27	<28	<25	<22	<28	<28	--	<28	**57**	**37**	<40	--	**270**
SAIA-SB/SG38	SAIA-SB/SG-38-15, P913cc	04/22/2014	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	<34	**53**	<40	--	**330**
SAIA-SB/SG38	SAIA-SB/SG-38-25, P530cc	04/22/2014	N	25	25	<27	<28	<25	<22	**74**	<28	--	<28	<34	**38**	<40	--	**200**
SAIA-SB/SG38	SAIA-SB/SG-38-35, P578cc	04/22/2014	N	35	35	<27	<28	<25	<22	<28	**300**	--	<28	**3,100**	**180**	<10000	--	**940,000**
SAIA-SB/SG39	SAIA-SB/SG-39-5, P816cc	04/22/2014	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	<27
SAIA-SB/SG39	SAIA-SB/SG-39-15, P913cc	04/22/2014	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	<27
SAIA-SB/SG39	SAIA-SG39-E15	04/22/2014	N	15	15	--	--	--	**10 J**	--	--	<20	--	<30	**20**	--	<20	**20 J**
SAIA-SB/SG39	SAIA-SB/SG-39-25, P530cc	04/22/2014	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	<34	**47**	<40	--	**78**
SAIA-SB/SG39	SAIA-SB/SG-39-35, P578cc	04/22/2014	N	35	35	<27	<28	<25	<22	<28	<28	--	<28	**160**	<19	**1,700**	--	**13,000**
SAIA-SB/SG40	SAIA-SB/SG-40-5, P816cc	05/01/2014	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	**240**	<19	<40	--	**200**
SAIA-SB/SG40	SAIA-SB/SG-40-15, P913cc	05/01/2014	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	**330**	<19	<40	--	**140**
SAIA-SB/SG40	SAIA-SB/SG-40-25, P530cc	05/01/2014	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	**1,200**	<19	<40	--	**380**
SAIA-SB/SG40	P628cc	05/01/2014	FD	35	35	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	**88**	--	**320 J**
SAIA-SB/SG40	SAIA-SB/SG-40-35, P578cc	05/01/2014	N	35	35	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	**96**	--	**430**
SAIA-SB/SG41	SAIA-SB/SG-41-5, P816cc	05/01/2014	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	**51**
SAIA-SB/SG41	SAIA-SG41-E5	05/01/2014	N	5	5	--	--	--	<50	--	--	<50	--	**50 J**	<40	--	<50	**6,000**
SAIA-SB/SG41	SAIA-SB/SG-41-15, P913cc	05/01/2014	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	**45**	<19	<40	--	**94**
SAIA-SB/SG41	SAIA-SB/SG-41-25, P530cc	05/01/2014	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	**34**
SAIA-SB/SG41	SAIA-SB/SG-41-35, P578cc	05/01/2014	N	35	35	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	<27
SAIA-SB/SG42	SAIA-SB/SG-42-5, P816cc	05/02/2014	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	**53**

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)	
						Trichlorofluoromethane	Vinyl Chloride
SAIA-SB/SG35	SAIA-SG35-E25	04/28/2014	N	25	25	<10	<6
SAIA-SB/SG35	SAIA-SB/SG-35-35, P578cc	04/28/2014	N	35	35	<28	<13
SAIA-SB/SG36	SAIA-SB/SG-36-5, P816cc	04/23/2014	N	5	5	<28	<13
SAIA-SB/SG36	SAIA-SB/SG-36-15, P913cc	04/23/2014	N	15	15	<28	<13
SAIA-SB/SG36	SAIA-SB/SG-36-25, P530cc	04/23/2014	N	25	25	<28	<13
SAIA-SB/SG36	SAIA-SB/SG-36-35, P578cc	04/23/2014	N	35	35	<28	<13
SAIA-SB/SG36	SAIA-SG36-E35	04/23/2014	N	35	35	<20	<9
SAIA-SB/SG37	SAIA-SB/SG-37-5, P816cc	04/22/2014	N	5	5	<28	<13
SAIA-SB/SG37	SAIA-SB/SG-37-15, P913cc	04/22/2014	N	15	15	<28	<13
SAIA-SB/SG38	SAIA-SB/SG-38-5, P816cc	04/22/2014	N	5	5	<28	<13
SAIA-SB/SG38	P963cc	04/22/2014	FD	15	15	<28	<13
SAIA-SB/SG38	SAIA-SB/SG-38-15, P913cc	04/22/2014	N	15	15	<28	<13
SAIA-SB/SG38	SAIA-SB/SG-38-25, P530cc	04/22/2014	N	25	25	<28	<13
SAIA-SB/SG38	SAIA-SB/SG-38-35, P578cc	04/22/2014	N	35	35	<28	**52,000**
SAIA-SB/SG39	SAIA-SB/SG-39-5, P816cc	04/22/2014	N	5	5	<28	<13
SAIA-SB/SG39	SAIA-SB/SG-39-15, P913cc	04/22/2014	N	15	15	<28	<13
SAIA-SB/SG39	SAIA-SG39-E15	04/22/2014	N	15	15	<30	<10
SAIA-SB/SG39	SAIA-SB/SG-39-25, P530cc	04/22/2014	N	25	25	<28	<13
SAIA-SB/SG39	SAIA-SB/SG-39-35, P578cc	04/22/2014	N	35	35	<28	**76**
SAIA-SB/SG40	SAIA-SB/SG-40-5, P816cc	05/01/2014	N	5	5	<28	<13
SAIA-SB/SG40	SAIA-SB/SG-40-15, P913cc	05/01/2014	N	15	15	<28	<13
SAIA-SB/SG40	SAIA-SB/SG-40-25, P530cc	05/01/2014	N	25	25	<28	<13
SAIA-SB/SG40	P628cc	05/01/2014	FD	35	35	<28	<13
SAIA-SB/SG40	SAIA-SB/SG-40-35, P578cc	05/01/2014	N	35	35	<28	<13
SAIA-SB/SG41	SAIA-SB/SG-41-5, P816cc	05/01/2014	N	5	5	<28	<13
SAIA-SB/SG41	SAIA-SG41-E5	05/01/2014	N	5	5	<60	<30
SAIA-SB/SG41	SAIA-SB/SG-41-15, P913cc	05/01/2014	N	15	15	<28	<13
SAIA-SB/SG41	SAIA-SB/SG-41-25, P530cc	05/01/2014	N	25	25	<28	<13
SAIA-SB/SG41	SAIA-SB/SG-41-35, P578cc	05/01/2014	N	35	35	<28	<13
SAIA-SB/SG42	SAIA-SB/SG-42-5, P816cc	05/02/2014	N	5	5	<28	<13

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (in ug/m3)											
						1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Difluoroethane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene
SAIA-SB/SG42	SAIA-SB/SG-42-15, P913cc	05/02/2014	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG42	SAIA-SB/SG-42-25, P530cc	05/02/2014	N	25	25	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG42	SAIA-SB/SG-42-35, P578cc	05/02/2014	N	35	35	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG43	SAIA-SB/SG-43-5, P816cc	05/01/2014	N	5	5	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG43	SAIA-SB/SG-43-15, P913cc	05/02/2014	N	15	15	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG43	SAIA-SB/SG-43-25, P530cc	05/02/2014	N	25	25	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG43	SAIA-SB/SG-43-35 Rep, P628cc	05/02/2014	FD	35	35	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG43	SAIA-SB/SG-43-35, P578cc	05/02/2014	N	35	35	<35	<28	<35	<39	<28	<41	<20	<27	<38	<25	--	--
SAIA-SB/SG44	SAIA-SG44-5	04/27/2017	N	4	5	--	<10	<10	<10	<10	<8	<8	--	<10	<10	<10	<10
SAIA-SB/SG44	SAIA-SG44-15	04/27/2017	N	14	15	--	<10	<20	<20	<10	<9	**10**	--	<20	**7 J**	<20	<10
SAIA-SB/SG44	SAIA-SG44-25	04/27/2017	N	24	25	--	<10	<10	<10	<10	<8	**10**	--	<10	**10 J**	<10	<10
SAIA-SB/SG44	SAIA-SG44-35	04/27/2017	N	34	35	--	<10	<20	<20	<10	<10	**7 J**	--	<20	<10	<20	<20
SAIA-SB/SG45	SAIA-SG45-5	04/27/2017	N	4	5	--	<10	<20	<20	<10	<10	<10	--	<20	<10	<20	<20
SAIA-SB/SG45	SAIA-SG45-15	04/27/2017	N	14	15	--	<10	<20	<20	<10	<9	<9	--	<20	<10	<20	<10
SAIA-SB/SG45	SAIA-SG45-16	04/27/2017	FD	14	15	--	<10	<10	<20	<10	<8	<8	--	<20	<10	<20	<10
SAIA-SB/SG45	SAIA-SG45-25	04/27/2017	N	24	25	--	<10	<20	<20	<10	**30**	**100**	--	<20	<10	<20	<10
SAIA-SB/SG45	SAIA-SG45-35	04/27/2017	N	34	35	--	<10	<20	<20	<10	**30**	**100**	--	<20	<10	<20	<10
SAIA-SB/SG46	SAIA-SG46-05	04/27/2017	N	4	5	--	<10	<10	<20	<10	<8	<8	--	<20	<10	<20	<10
SAIA-SB/SG46	SAIA-SG46-15	04/27/2017	N	14	15	--	<10	<20	<20	<10	<10	<10	--	<20	<10	<20	<20
SAIA-SB/SG46	SAIA-SG46-25	04/27/2017	N	24	25	--	<10	<20	<20	<10	<9	<9	--	<20	<10	<20	<10
SAIA-SB/SG46	SAIA-SG46-35	04/27/2017	N	34	35	--	<10	<10	<20	<10	**70**	**90**	--	<20	<10	<20	<10
SAIA-SB/SG47	SAIA-SG47-05	04/27/2017	N	4	5	--	<10	<10	<20	<10	<9	<9	--	<20	<10	<20	<10
SAIA-SB/SG47	SAIA-SG47-15	04/27/2017	N	14	15	--	<10	<20	<20	<10	<10	<10	--	<20	<10	<20	<20
SAIA-SB/SG47	SAIA-SG47-25	04/27/2017	N	24	25	--	<10	<20	<20	<10	<9	<9	--	<20	<10	<20	<10
SAIA-SB/SG47	SAIA-SG47-35	04/27/2017	N	34	35	--	<10	<20	<20	<10	<10	<10	--	<20	<10	<20	<20

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)											
						1,2-Dichloroethane	1,2-Dichloropropane	1,2-Dichlorotetrafluoroethane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,4-Dioxane (p-Dioxane)	Benzene	Bromodichloromethane	Bromomethane	Carbon Tetrachloride	Chlorobenzene
SAIA-SB/SG42	SAIA-SB/SG-42-15, P913cc	05/02/2014	N	15	15	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG42	SAIA-SB/SG-42-25, P530cc	05/02/2014	N	25	25	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG42	SAIA-SB/SG-42-35, P578cc	05/02/2014	N	35	35	<21	--	--	<25	--	<30	<36	**17**	<34	<39	<13	--
SAIA-SB/SG43	SAIA-SB/SG-43-5, P816cc	05/01/2014	N	5	5	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG43	SAIA-SB/SG-43-15, P913cc	05/02/2014	N	15	15	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG43	SAIA-SB/SG-43-25, P530cc	05/02/2014	N	25	25	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG43	SAIA-SB/SG-43-35 Rep, P628cc	05/02/2014	FD	35	35	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG43	SAIA-SB/SG-43-35, P578cc	05/02/2014	N	35	35	<21	--	--	<25	--	<30	<36	<16	<34	<39	<13	--
SAIA-SB/SG44	SAIA-SG44-5	04/27/2017	N	4	5	<8	<9	<10	<10	<10	<10	<7	<6	--	<8	<10	<9
SAIA-SB/SG44	SAIA-SG44-15	04/27/2017	N	14	15	<9	<10	<20	<10	<10	<10	<8	**40**	--	<9	<10	<10
SAIA-SB/SG44	SAIA-SG44-25	04/27/2017	N	24	25	<8	<9	<10	<9	<10	<10	<7	**10**	--	<7	<10	**5 J**
SAIA-SB/SG44	SAIA-SG44-35	04/27/2017	N	34	35	<10	<10	<20	<10	<20	<20	<9	**10**	--	<10	<20	<10
SAIA-SB/SG45	SAIA-SG45-5	04/27/2017	N	4	5	<10	<10	<20	<10	<20	<20	<9	**6 J**	--	<10	<20	<10
SAIA-SB/SG45	SAIA-SG45-15	04/27/2017	N	14	15	<9	<10	<20	<10	<10	<10	<8	**30**	--	<9	<10	<10
SAIA-SB/SG45	SAIA-SG45-16	04/27/2017	FD	14	15	<8	<10	<10	<10	<10	<10	<8	**40**	--	<8	<10	<10
SAIA-SB/SG45	SAIA-SG45-25	04/27/2017	N	24	25	<10	<10	<20	<10	<10	<10	<9	**9**	--	<9	<10	<10
SAIA-SB/SG45	SAIA-SG45-35	04/27/2017	N	34	35	<10	<10	<20	<10	<10	<10	<9	**5 J**	--	<9	<20	<10
SAIA-SB/SG46	SAIA-SG46-05	04/27/2017	N	4	5	<8	<10	<10	<10	<10	<10	<8	<7	--	<8	<10	<10
SAIA-SB/SG46	SAIA-SG46-15	04/27/2017	N	14	15	<10	<10	<20	<10	<20	<20	<9	**20**	--	<10	<20	<10
SAIA-SB/SG46	SAIA-SG46-25	04/27/2017	N	24	25	<9	<10	<20	<10	<10	<10	<8	**20**	--	<9	<10	<10
SAIA-SB/SG46	SAIA-SG46-35	04/27/2017	N	34	35	<8	<10	<10	<10	<10	<10	<7	**30**	--	<8	<10	<9
SAIA-SB/SG47	SAIA-SG47-05	04/27/2017	N	4	5	<9	<10	<20	<10	<10	<10	<8	<7	--	<8	<10	<10
SAIA-SB/SG47	SAIA-SG47-15	04/27/2017	N	14	15	<10	<10	<20	<10	<20	<20	<10	**8 J**	--	<10	<20	<10
SAIA-SB/SG47	SAIA-SG47-25	04/27/2017	N	24	25	<9	<10	<20	<10	<10	<10	<8	**20**	--	<8	<10	<10
SAIA-SB/SG47	SAIA-SG47-35	04/27/2017	N	34	35	<10	<10	<20	<10	<20	<20	<10	**60**	--	<10	<20	<10

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)											
						Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropanol	Isopropylbenzene (Cumene)	m,p-Xylene	Methylene Chloride
SAIA-SB/SG42	SAIA-SB/SG-42-15, P913cc	05/02/2014	N	15	15	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG42	SAIA-SB/SG-42-25, P530cc	05/02/2014	N	25	25	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG42	SAIA-SB/SG-42-35, P578cc	05/02/2014	N	35	35	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG43	SAIA-SB/SG-43-5, P816cc	05/01/2014	N	5	5	<27	<25	<21	**62**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG43	SAIA-SB/SG-43-15, P913cc	05/02/2014	N	15	15	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG43	SAIA-SB/SG-43-25, P530cc	05/02/2014	N	25	25	<27	<25	<21	**60**	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG43	SAIA-SB/SG-43-35 Rep, P628cc	05/02/2014	FD	35	35	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG43	SAIA-SB/SG-43-35, P578cc	05/02/2014	N	35	35	<27	<25	<21	<40	--	<25	<22	--	--	<25	<44	<18
SAIA-SB/SG44	SAIA-SG44-5	04/27/2017	N	4	5	<5	**5 J**	<4	<8	<9	--	**5 J**	<20	**90 J**	--	**20**	**4 J**
SAIA-SB/SG44	SAIA-SG44-15	04/27/2017	N	14	15	<6	<10	<5	**10**	<10	--	**9 J**	<20	**20 J**	--	**30**	**6 J**
SAIA-SB/SG44	SAIA-SG44-25	04/27/2017	N	24	25	<5	<9	**2 J**	**30**	<9	--	**6 J**	<20	**20 J**	--	**20**	**4 J**
SAIA-SB/SG44	SAIA-SG44-35	04/27/2017	N	34	35	<7	<10	<5	**20**	<10	--	<10	<30	**20 J**	--	<20	<9
SAIA-SB/SG45	SAIA-SG45-5	04/27/2017	N	4	5	<7	<10	<5	<10	<10	--	<10	<30	**20 J**	--	<20	<9
SAIA-SB/SG45	SAIA-SG45-15	04/27/2017	N	14	15	<6	**30**	<5	<9	<10	--	**6 J**	<20	**20 J**	--	**20**	**6 J**
SAIA-SB/SG45	SAIA-SG45-16	04/27/2017	FD	14	15	<6	**40**	<4	<8	<9	--	**8 J**	<20	**10 J**	--	**20**	**6 J**
SAIA-SB/SG45	SAIA-SG45-25	04/27/2017	N	24	25	<6	<10	<5	**900**	<10	--	<10	<30	**6 J**	--	**10 J**	**4 J**
SAIA-SB/SG45	SAIA-SG45-35	04/27/2017	N	34	35	<6	<10	<5	**1,100**	<10	--	<10	<30	**20 J**	--	<20	<8
SAIA-SB/SG46	SAIA-SG46-05	04/27/2017	N	4	5	<6	<10	<4	<8	<10	--	<9	<20	**4 J**	--	<20	<7
SAIA-SB/SG46	SAIA-SG46-15	04/27/2017	N	14	15	<7	**10**	**3 J**	**20**	<10	--	<10	<30	**20 J**	--	**10 J**	**6 J**
SAIA-SB/SG46	SAIA-SG46-25	04/27/2017	N	24	25	<6	**10**	**2 J**	**10**	<10	--	**5 J**	<20	**10 J**	--	**10 J**	**5 J**
SAIA-SB/SG46	SAIA-SG46-35	04/27/2017	N	34	35	<5	<10	**7 J**	**1,900**	<9	--	<9	<20	**10 J**	--	<20	**5 J**
SAIA-SB/SG47	SAIA-SG47-05	04/27/2017	N	4	5	<6	**7 J**	<4	<9	<10	--	<9	<20	**4 J**	--	<20	**4 J**
SAIA-SB/SG47	SAIA-SG47-15	04/27/2017	N	14	15	<7	<10	<6	<10	<10	--	<10	<30	**3 J**	--	**10 J**	**5 J**
SAIA-SB/SG47	SAIA-SG47-25	04/27/2017	N	24	25	<6	**10**	**3 J**	<9	<10	--	<10	<20	**6 J**	--	**10 J**	**6 J**
SAIA-SB/SG47	SAIA-SG47-35	04/27/2017	N	34	35	<7	<10	<5	**7 J**	<10	--	<10	<30	**8 J**	--	**10 J**	**9**

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)												
						Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)
SAIA-SB/SG42	SAIA-SB/SG-42-15, P913cc	05/02/2014	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	<27
SAIA-SB/SG42	SAIA-SB/SG-42-25, P530cc	05/02/2014	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	<27
SAIA-SB/SG42	SAIA-SB/SG-42-35, P578cc	05/02/2014	N	35	35	<27	<28	<25	<22	**33**	<28	--	<28	<34	<19	<40	--	<27
SAIA-SB/SG43	SAIA-SB/SG-43-5, P816cc	05/01/2014	N	5	5	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	**55**
SAIA-SB/SG43	SAIA-SB/SG-43-15, P913cc	05/02/2014	N	15	15	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	<27
SAIA-SB/SG43	SAIA-SB/SG-43-25, P530cc	05/02/2014	N	25	25	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	<27
SAIA-SB/SG43	SAIA-SB/SG-43-35 Rep, P628cc	05/02/2014	FD	35	35	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	<27
SAIA-SB/SG43	SAIA-SB/SG-43-35, P578cc	05/02/2014	N	35	35	<27	<28	<25	<22	<28	<28	--	<28	<34	<19	<40	--	<27
SAIA-SB/SG44	SAIA-SG44-5	04/27/2017	N	4	5	--	--	--	**6 J**	--	--	<8	--	<10	**40**	--	<9	<10
SAIA-SB/SG44	SAIA-SG44-15	04/27/2017	N	14	15	--	--	--	**9 J**	--	--	<10	--	**30**	**80**	--	<10	**40**
SAIA-SB/SG44	SAIA-SG44-25	04/27/2017	N	24	25	--	--	--	**8**	--	--	<8	--	<10	**60**	--	<9	**50**
SAIA-SB/SG44	SAIA-SG44-35	04/27/2017	N	34	35	--	--	--	<10	--	--	<10	--	**20**	**40**	--	<10	**40**
SAIA-SB/SG45	SAIA-SG45-5	04/27/2017	N	4	5	--	--	--	<10	--	--	<10	--	**10 J**	**10**	--	<10	<10
SAIA-SB/SG45	SAIA-SG45-15	04/27/2017	N	14	15	--	--	--	**7 J**	--	--	<9	--	**10 J**	**100**	--	<10	**20**
SAIA-SB/SG45	SAIA-SG45-16	04/27/2017	FD	14	15	--	--	--	**8 J**	--	--	<9	--	**10**	**200**	--	<9	**20**
SAIA-SB/SG45	SAIA-SG45-25	04/27/2017	N	24	25	--	--	--	<10	--	--	<10	--	**20**	**200**	--	<10	**3,500**
SAIA-SB/SG45	SAIA-SG45-35	04/27/2017	N	34	35	--	--	--	<10	--	--	<10	--	**30**	**100**	--	<10	**3,900**
SAIA-SB/SG46	SAIA-SG46-05	04/27/2017	N	4	5	--	--	--	<9	--	--	<9	--	<10	**7 J**	--	<10	<10
SAIA-SB/SG46	SAIA-SG46-15	04/27/2017	N	14	15	--	--	--	<10	--	--	<10	--	<20	**40**	--	<10	**100**
SAIA-SB/SG46	SAIA-SG46-25	04/27/2017	N	24	25	--	--	--	**5 J**	--	--	<10	--	**10 J**	**60**	--	<10	**500**
SAIA-SB/SG46	SAIA-SG46-35	04/27/2017	N	34	35	--	--	--	<9	--	--	<9	--	**8 J**	**60**	--	<9	**16,000**
SAIA-SB/SG47	SAIA-SG47-05	04/27/2017	N	4	5	--	--	--	<9	--	--	<9	--	**9 J**	**8**	--	<10	<10
SAIA-SB/SG47	SAIA-SG47-15	04/27/2017	N	14	15	--	--	--	<10	--	--	<10	--	**10 J**	**80**	--	<10	<10
SAIA-SB/SG47	SAIA-SG47-25	04/27/2017	N	24	25	--	--	--	**5 J**	--	--	<9	--	**8 J**	**60**	--	<10	**40**
SAIA-SB/SG47	SAIA-SG47-35	04/27/2017	N	34	35	--	--	--	<10	--	--	<10	--	**10 J**	**600**	--	<10	**50**

Appendix E-2
Analytical Results for Soil Gas Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Top Sample Depth	Bottom Sample Depth	Volatiles (ug/m3)	
						Trichlorofluoromethane	Vinyl Chloride
SAIA-SB/SG42	SAIA-SB/SG-42-15, P913cc	05/02/2014	N	15	15	<28	<13
SAIA-SB/SG42	SAIA-SB/SG-42-25, P530cc	05/02/2014	N	25	25	<28	<13
SAIA-SB/SG42	SAIA-SB/SG-42-35, P578cc	05/02/2014	N	35	35	<28	<13
SAIA-SB/SG43	SAIA-SB/SG-43-5, P816cc	05/01/2014	N	5	5	<28	<13
SAIA-SB/SG43	SAIA-SB/SG-43-15, P913cc	05/02/2014	N	15	15	<28	<13
SAIA-SB/SG43	SAIA-SB/SG-43-25, P530cc	05/02/2014	N	25	25	<28	<13
SAIA-SB/SG43	SAIA-SB/SG-43-35 Rep, P628cc	05/02/2014	FD	35	35	<28	<13
SAIA-SB/SG43	SAIA-SB/SG-43-35, P578cc	05/02/2014	N	35	35	<28	<13
SAIA-SB/SG44	SAIA-SG44-5	04/27/2017	N	4	5	<10	<5
SAIA-SB/SG44	SAIA-SG44-15	04/27/2017	N	14	15	<10	**40**
SAIA-SB/SG44	SAIA-SG44-25	04/27/2017	N	24	25	<10	**30**
SAIA-SB/SG44	SAIA-SG44-35	04/27/2017	N	34	35	<10	**20**
SAIA-SB/SG45	SAIA-SG45-5	04/27/2017	N	4	5	<10	<7
SAIA-SB/SG45	SAIA-SG45-15	04/27/2017	N	14	15	<10	<6
SAIA-SB/SG45	SAIA-SG45-16	04/27/2017	FD	14	15	<10	<5
SAIA-SB/SG45	SAIA-SG45-25	04/27/2017	N	24	25	<10	**60**
SAIA-SB/SG45	SAIA-SG45-35	04/27/2017	N	34	35	<10	**50**
SAIA-SB/SG46	SAIA-SG46-05	04/27/2017	N	4	5	<10	<5
SAIA-SB/SG46	SAIA-SG46-15	04/27/2017	N	14	15	<10	<6
SAIA-SB/SG46	SAIA-SG46-25	04/27/2017	N	24	25	<10	<6
SAIA-SB/SG46	SAIA-SG46-35	04/27/2017	N	34	35	<10	**20**
SAIA-SB/SG47	SAIA-SG47-05	04/27/2017	N	4	5	<10	<6
SAIA-SB/SG47	SAIA-SG47-15	04/27/2017	N	14	15	<20	<7
SAIA-SB/SG47	SAIA-SG47-25	04/27/2017	N	24	25	<10	<6
SAIA-SB/SG47	SAIA-SG47-35	04/27/2017	N	34	35	<10	**30**

Notes:
Detected results shown in bold
ID = Identification number
FD = Field duplicate sample results
J = Concentration is estimated because it falls between the method detection limit and laboratory reporting limit.
N = Normal sample results
R = Rejected results
ug/m3 = Micrograms per cubic meter
-- = Not analyzed

Appendix E-3

Analytical Results for Groundwater from Monitoring Wells

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

				Volatiles (ug/L)																
Location ID	Sample ID	Sample Date	Sample Type	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane
MW-2B	38051	06/13/2011	N	<0.5	<0.5	<0.5	<0.5	<0.5	**2.1**	**2.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	**0.7**
MW32	MW32-0716	07/13/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
MW32	MW132-0716	07/13/2016	FD	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
MW34	MW34-0314	03/26/2014	N	--	<2.5	<2.5	<2.5	<2.5	**1.6 J**	<2.5	--	<2.5	<2.5	<2.5	--	<2.5	<2.5	<2.5	<2.5
MW34	MW934-0314	03/26/2014	FD	--	<2	<2	<2	<2	**1.3 J**	<2	--	<2	<2	<2	--	<2	<2	<2	<2
MW34	MW34-0716	07/12/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	**0.94**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
MW35	MW35-0314	03/26/2014	N	--	<0.5	<0.5	<0.5	<0.5	**0.33 J**	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**5.8**
MW35	MW35-0716	07/12/2016	N	--	<0.5	<0.5	<0.5	<0.5	**3**	**4**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**6.8**
MW42	SAIA-MW42-0313	03/05/2013	N	--	<40	<40	<40	<40	<40	<40	--	<40	<40	<40	--	<40	<40	<40	<40
MW42	MW42-0314	03/26/2014	N	--	<10	<10	<10	<10	**25**	<10	--	<10	<10	<10	--	<10	<10	<10	<10
MW42	MW42-0716	07/12/2016	N	--	<2.5	<2.5	<2.5	<2.5	**18**	**3.7 J**	--	<2.5	<2.5	<2.5	--	<2.5	<2.5	<2.5	<2.5
MW43	SAIA-MW43-0313	03/05/2013	N	--	<0.5	<0.5	<0.5	<0.5	**0.53**	**2.5**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**10**
MW43	MW43-0314	03/26/2014	N	--	<0.5	<0.5	<0.5	<0.5	**0.22 J**	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**7.6**
MW43	MW43-0716	07/12/2016	N	--	<0.5	<0.5	<0.5	<0.5	**1**	**3.4**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**44**
MW44	MW44-0314	03/26/2014	N	--	<0.5	<0.5	<0.5	<0.5	**0.2 J**	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**4**
MW44	MW44-0716	07/12/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
MW45	SAIA-MW45-0313	03/05/2013	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**0.73**
MW45	MW45-0314	03/25/2014	N	--	<0.5	<0.5	<0.5	<0.5	**0.21**	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**0.84**
MW45	MW45-0716	07/14/2016	N	--	<0.5	<0.5	<0.5	<0.5	**0.45 J**	**0.99**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**5.4**
MW46	SAIA-MW46-0313	03/05/2013	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
MW46	SAIA-MW46-1313	03/05/2013	FD	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
MW46	MW46-0314	03/24/2014	N	--	<0.5	<0.5	<0.5	<0.5	**0.097 J**	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
MW46	MW46-0716	07/19/2016	N	--	<1	<1	<1	<1	**7.5**	**2.2**	--	<1	<1	<1	--	<1	<1	<1	<1
MW47	SAIA-MW47-0313	03/05/2013	N	--	<10	<10	<10	<10	<10	<10	--	<10	<10	<10	--	<10	<10	<10	<10
MW47	MW47-0314	03/24/2014	N	--	<4	<4	<4	<4	**1.3 J**	<4	--	<4	<4	<4	--	<4	<4	<4	<4
MW47	MW47-0716	07/19/2016	N	--	<5	<5	<5	<5	**6.1**	<5	--	<5	<5	<5	--	<5	<5	<5	<5

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

				Volatiles (ug/L)														
MW48	SAIA-MW48-0313	03/06/2013	N	--	<0.5	<0.5	<0.5	<0.5	**1.1**	**1.1**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**7.5**
MW48	MW48-0314	03/24/2014	N	--	<0.5	<0.5	<0.5	<0.5	**1.6**	**2.1**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**6.9**
MW48	MW48-0716	07/19/2016	N	--	<0.5	<0.5	<0.5	<0.5	**1.3**	**1.9**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**15**
MW49	SAIA-MW49-0313	03/06/2013	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	**0.28 J**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
MW49	MW49-0314	03/26/2014	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
MW49	MW49-0716	07/15/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
MW49	MW149-0716	07/15/2016	FD	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
MW-4B	38053	06/14/2011	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	**4**
MW52	SAIA-MW52-0313	03/06/2013	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
MW52	MW52-0314	03/25/2014	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
MW52	MW952-0314	03/25/2014	FD	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
MW52	MW52-0716	07/19/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
MW56	MW56-0314	03/26/2014	N	--	<2	<2	<2	<2	<2	<2	--	<2	<2	<2	--	<2	<2	<2	<2
MW56	MW56-0716	07/18/2016	N	--	<1	<1	<1	<1	<1	<1	--	<1	<1	R	--	<1	<1	<1	<1
SAIA-MW10	SAIA-MW10-0716	07/18/2016	N	--	<1	<1	<1	<1	<1	<1	--	<1	<1	R	--	<1	<1	<1	**0.59 J**
SAIA-MW10	SAIA-MW10-0916	09/20/2016	N	--	<0.5	<0.5	<0.5	<0.5	**0.32 J**	**1.2**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW11A	SAIA-MW11A-0716	07/15/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW11A	SAIA-MW11A-0916	09/22/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW11B	SAIA-MW11B-0716	07/15/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW11B	SAIA-MW11B-0916	09/22/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW11C	SAIA-MW11C-0716	07/15/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW11C	SAIA-MW11C-0916	09/22/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	**0.27 J**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW11C	SAIA-MW111C-0916	09/22/2016	FD	--	<0.5	<0.5	<0.5	<0.5	<0.5	**0.3 J**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW12A	SAIA-MW12A-0716	07/25/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW12A	SAIA-MW12A-0916	09/21/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW12B	SAIA-MW12B-0716	07/25/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW12B	SAIA-MW12B-0916	09/21/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW12C	SAIA-MW12C-0716	07/25/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW12C	SAIA-MW12C-0916	09/21/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW13	SAIA-MW13-0716	07/21/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW13	SAIA-MW13-0916	09/21/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	**0.47 J**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW1A	SAIA-MW1A-0314	03/27/2014	N	--	<100	<100	<100	<100	**21 J**	<100	--	<100	<100	<100	--	<100	<100	<100	<100
SAIA-MW1A	SAIA-MW1A-0814	08/25/2014	N	--	<0.5	<0.5	<0.5	**0.58**	**17**	**16 J**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW1A	SAIA-MW1A-0716	07/14/2016	N	--	<25	<25	<25	<25	**22 J**	<25	--	<25	<25	<25	--	<25	<25	<25	<25
SAIA-MW1B	SAIA-MW1B-0314	03/27/2014	N	--	<0.5	<0.5	<0.5	<0.5	**0.25**	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**0.48 J**
SAIA-MW1B	SAIA-MW1B-0814	08/25/2014	N	--	<0.5	<0.5	<0.5	<0.5	**0.19 J**	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**0.52**
SAIA-MW1B	SAIA-MW1B-0716	07/14/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**0.58**
SAIA-MW1B	SAIA-MW91B-0716	07/14/2016	FD	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**0.64**
SAIA-MW1C	SAIA-MW1C-0314	03/27/2014	N	--	<4	<4	<4	<4	**3.9 J**	<4	--	<4	<4	<4	--	<4	<4	<4	**35**

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
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				Volatiles (ug/L)														
SAIA-MW1C	SAIA-MW1C-0814	08/25/2014	N	--	<0.5	<0.5	<0.5	<0.5	**4.2**	**6.5 J**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**52**
SAIA-MW1C	SAIA-MW1C-0716	07/14/2016	N	--	<0.5	<0.5	<0.5	<0.5	**2.6**	**5.3**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**33**
SAIA-MW2A	SAIA-MW2A-0314	03/27/2014	N	--	<10	<10	<10	<10	**4.8 J**	<10	--	<10	<10	<10	--	<10	<10	<10	<10
SAIA-MW2A	SAIA-MW2A-0814	08/25/2014	N	--	<0.5	<0.5	<0.5	**0.45 J**	**7.2**	**7.7 J**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**0.25 J**
SAIA-MW2A	SAIA-MW92A-0814	08/25/2014	FD	--	<0.5	<0.5	<0.5	**0.47 J**	**7**	**7.7 J**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW2A	SAIA-MW2A-0716	07/11/2016	N	--	<2.5	<2.5	<2.5	<2.5	**5.5**	**6.4**	--	<2.5	<2.5	<2.5	--	<2.5	<2.5	<2.5	<2.5
SAIA-MW2B	SAIA-MW2B-0314	03/27/2014	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**6.6**
SAIA-MW2B	SAIA-MW2B-0814	08/25/2014	N	--	<0.5	<0.5	<0.5	<0.5	**0.11 J**	**0.5**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**5.1**
SAIA-MW2B	SAIA-MW2B-0716	07/11/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**0.81**
SAIA-MW2C	SAIA-MW2C-0314	03/27/2014	N	--	<2	<2	<2	<2	**3**	**4.7**	--	<2	<2	<2	--	<2	<2	<2	**32**
SAIA-MW2C	SAIA-MW2C-0814	08/25/2014	N	--	<0.5	<0.5	<0.5	<0.5	**2.8**	**5.2 J**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**34**
SAIA-MW2C	SAIA-MW2C-0716	07/11/2016	N	--	<0.5	<0.5	<0.5	<0.5	**1.8**	**3.5 J**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**33**
SAIA-MW3A	SAIA-MW3A-0314	03/24/2014	N	--	<0.5	<0.5	<0.5	<0.5	**0.13**	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW3A	SAIA-MW3A-0814	08/26/2014	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW3A	SAIA-MW3A-0716	07/13/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW3B	SAIA-MW3B-0314	03/24/2014	N	--	<25	<25	<25	<25	**49**	**18 J**	--	<25	<25	<25	--	<25	<25	<25	<25
SAIA-MW3B	SAIA-MW3B-0814	08/26/2014	N	--	<0.5	<0.5	<0.5	**3.6**	**72**	**20 J**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**2.1**
SAIA-MW3B	SAIA-MW3B-0716	07/13/2016	N	--	<25	<25	<25	<25	**23 J**	<25	--	<25	<25	<25	--	<25	<25	<25	<25
SAIA-MW3C	SAIA-MW3C-0314	03/24/2014	N	--	<0.5	<0.5	<0.5	<0.5	**0.2**	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**1.8**
SAIA-MW3C	SAIA-MW93C-0314	03/24/2014	FD	--	<0.5	<0.5	<0.5	<0.5	**0.2**	<0.5	--	**0.32 J**	<0.5	**0.13 J**	--	<0.5	<0.5	<0.5	**1.6**
SAIA-MW3C	SAIA-MW3C-0814	08/26/2014	N	--	<0.5	<0.5	<0.5	<0.5	**0.25 J**	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**2.1**
SAIA-MW3C	SAIA-MW3C-0716	07/13/2016	N	--	<0.5	<0.5	<0.5	<0.5	**0.51**	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**2.8**
SAIA-MW4A	SAIA-MW4A-0314	03/25/2014	N	--	<0.5	<0.5	<0.5	<0.5	**0.32**	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW4A	SAIA-MW4A-0814	08/26/2014	N	--	<0.5	<0.5	<0.5	<0.5	**0.34 J**	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW4A	SAIA-MW4A-0716	07/22/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW4B	SAIA-MW4B-0314	03/25/2014	N	--	<25	<25	<25	<25	**15 J**	<25	--	<25	<25	<25	--	<25	<25	<25	<25
SAIA-MW4B	SAIA-MW4B-0814	08/26/2014	N	--	<0.5	<0.5	<0.5	**1.1**	**18**	**6.6 J**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**0.72**
SAIA-MW4B	SAIA-MW94B-0814	08/26/2014	FD	--	<0.5	<0.5	<0.5	**1.1**	**18**	**6.6 J**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**0.69**
SAIA-MW4B	SAIA-MW4B-0716	07/22/2016	N	--	<10	<10	<10	<10	**16**	<10	--	<10	<10	<10	--	<10	<10	<10	<10
SAIA-MW4C	SAIA-MW4C-0314	03/25/2014	N	--	<10	<10	<10	<10	**3.6 J**	<10	--	<10	<10	<10	--	<10	<10	<10	<10
SAIA-MW4C	SAIA-MW4C-0814	08/26/2014	N	--	<0.5	<0.5	<0.5	<0.5	**4.1**	**1.3**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**2.1**
SAIA-MW4C	SAIA-MW4C-0716	07/22/2016	N	--	<2.5	<2.5	<2.5	<2.5	**5.9**	<2.5	--	<2.5	<2.5	<2.5	--	<2.5	<2.5	<2.5	**2 J**
SAIA-MW5A	SAIA-MW5A-0314	03/25/2014	N	--	<5	<5	<5	<5	<5	<5	--	<5	<5	<5	--	<5	<5	<5	<5
SAIA-MW5A	SAIA-MW5A-0814	08/27/2014	N	--	<0.5	<0.5	<0.5	<0.5	**0.42 J**	**0.89**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW5A	SAIA-MW5A-0716	07/20/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW5A	SAIA-MW95A-0716	07/20/2016	FD	--	<0.5	<0.5	<0.5	<0.5	<0.5	**0.66**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW5B	SAIA-MW5B-0314	03/25/2014	N	--	<25	<25	<25	<25	<25	<25	--	<25	<25	<25	--	<25	<25	<25	<25
SAIA-MW5B	SAIA-MW5B-0814	08/27/2014	N	--	<0.5	<0.5	<0.5	**0.84**	**9.5**	**5.5**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**0.52**
SAIA-MW5B	SAIA-MW5B-0716	07/21/2016	N	--	<2.5	<2.5	<2.5	<2.5	**6.5**	<2.5	--	<2.5	<2.5	<2.5	--	<2.5	<2.5	<2.5	<2.5

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

				Volatiles (ug/L)															
SAIA-MW5C	SAIA-MW5C-0314	03/25/2014	N	--	<4	<4	<4	<4	<4	<4	--	<4	<4	<4	--	<4	<4	<4	**2 J**
SAIA-MW5C	SAIA-MW5C-0814	08/27/2014	N	--	<0.5	<0.5	<0.5	<0.5	**0.64 J**	**0.8 J**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**1.9**
SAIA-MW5C	SAIA-MW5C-0716	07/21/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**1.6**
SAIA-MW6A	SAIA-MW6A-0314	03/24/2014	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW6A	SAIA-MW6A-0814	08/27/2014	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW6A	SAIA-MW6A-0716	07/20/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW6B	SAIA-MW6B-0314	03/24/2014	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**0.12**
SAIA-MW6B	SAIA-MW6B-0814	08/27/2014	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW6B	SAIA-MW6B-0716	07/20/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW6C	SAIA-MW6C-0314	03/24/2014	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**0.2**
SAIA-MW6C	SAIA-MW6C-0814	08/27/2014	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW6C	SAIA-MW6C-0716	07/20/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**0.31 J**
SAIA-MW7	SAIA-MW7-0314	03/27/2014	N	--	<0.5	<0.5	<0.5	<0.5	**0.3**	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**0.96**
SAIA-MW7	SAIA-MW97-0314	03/27/2014	FD	--	<0.5	<0.5	<0.5	<0.5	**0.37**	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**1.1**
SAIA-MW7	SAIA-MW7-0814	08/25/2014	N	--	<0.5	<0.5	<0.5	<0.5	**0.67**	**0.65**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**1.6**
SAIA-MW7	SAIA-MW7-0716	07/11/2016	N	--	<0.5	<0.5	<0.5	<0.5	**0.84**	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**2.9**
SAIA-MW8	SAIA-MW8-0314	03/24/2014	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**0.18**
SAIA-MW8	SAIA-MW8-0814	08/25/2014	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**0.62**
SAIA-MW8	SAIA-MW8-0716	07/21/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	**0.78**
SAIA-MW9A	SAIA-MW9A-0716	07/18/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	**0.37 J**	<0.5	**0.2 J**	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW9A	SAIA-MW9A-0916	09/20/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW9B	SAIA-MW9B-0716	07/18/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	R	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW9B	SAIA-MW9B-0916	09/20/2016	N	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5
SAIA-MW9C	SAIA-MW9C-0716	07/18/2016	N	--	<1	<1	<1	<1	<1	<1	--	<1	<1	R	--	<1	<1	<1	**0.4 J**
SAIA-MW9C	SAIA-MW99C-0716	07/18/2016	FD	--	<1	<1	<1	<1	<1	<1	--	<1	<1	R	--	<1	<1	<1	**0.48 J**
SAIA-MW9C	SAIA-MW9C-0916	09/20/2016	N	--	<0.5	<0.5	<0.5	<0.5	**0.88**	**0.82**	--	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

				Volatiles (in ug/L)															
Location ID	Sample ID	Sample Date	Sample Type	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane
MW-2B	38051	06/13/2011	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<4	<0.5	--	<0.5	--	<4	**1.9**	<0.5	<0.5	<0.5
MW32	MW32-0716	07/13/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
MW32	MW132-0716	07/13/2016	FD	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
MW34	MW34-0314	03/26/2014	N	<2.5	--	<2.5	--	<2.5	--	<25	--	<25	--	<25	<25	<2.5	--	<2.5	<2.5
MW34	MW934-0314	03/26/2014	FD	<2	--	<2	--	<2	--	<20	--	<20	--	<20	<20	<2	--	<2	<2
MW34	MW34-0716	07/12/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	**50**	<0.5	--	<0.5	<0.5
MW35	MW35-0314	03/26/2014	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
MW35	MW35-0716	07/12/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	**0.7**	--	<0.5	<0.5
MW42	SAIA-MW42-0313	03/05/2013	N	<40	--	<40	--	<40	--	<400	--	<400	--	<400	<400	<40	--	<40	<40
MW42	MW42-0314	03/26/2014	N	<10	--	<10	--	<10	--	<100	--	<100	--	<100	<100	<10	--	<10	<10
MW42	MW42-0716	07/12/2016	N	<2.5	--	<2.5	--	<2.5	--	<25	--	<25	--	<25	<25	<2.5	--	<2.5	<2.5
MW43	SAIA-MW43-0313	03/05/2013	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
MW43	MW43-0314	03/26/2014	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
MW43	MW43-0716	07/12/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
MW44	MW44-0314	03/26/2014	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
MW44	MW44-0716	07/12/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
MW45	SAIA-MW45-0313	03/05/2013	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
MW45	MW45-0314	03/25/2014	N	<0.5	--	**0.07**	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
MW45	MW45-0716	07/14/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	**0.43 J**	--	<0.5	<0.5
MW46	SAIA-MW46-0313	03/05/2013	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
MW46	SAIA-MW46-1313	03/05/2013	FD	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
MW46	MW46-0314	03/24/2014	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	**0.36 J**	<5	<0.5	--	<0.5	<0.5
MW46	MW46-0716	07/19/2016	N	<1	--	<1	--	<1	--	<10	--	<10	--	<10	<10	<1	--	<1	<1
MW47	SAIA-MW47-0313	03/05/2013	N	<10	--	<10	--	<10	--	<100	--	<100	--	<100	<100	<10	--	<10	<10
MW47	MW47-0314	03/24/2014	N	<4	--	<4	--	<4	--	<40	--	<40	--	<40	<40	<4	--	<4	<4
MW47	MW47-0716	07/19/2016	N	<5	--	<5	--	<5	--	<50	--	<50	--	<50	<50	<5	--	<5	<5

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
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				Volatiles (in ug/L)															
MW48	SAIA-MW48-0313	03/06/2013	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
MW48	MW48-0314	03/24/2014	N	**0.12**	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
MW48	MW48-0716	07/19/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	**12**	<0.5	--	<0.5	<0.5
MW49	SAIA-MW49-0313	03/06/2013	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
MW49	MW49-0314	03/26/2014	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
MW49	MW49-0716	07/15/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
MW49	MW149-0716	07/15/2016	FD	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
MW-4B	38053	06/14/2011	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<4	<0.5	--	<0.5	--	<4	**0.4 J**	<0.5	<0.5	<0.5
MW52	SAIA-MW52-0313	03/06/2013	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
MW52	MW52-0314	03/25/2014	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	**2.4**	--	<0.5	<0.5
MW52	MW952-0314	03/25/2014	FD	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	**2.1**	--	<0.5	<0.5
MW52	MW52-0716	07/19/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
MW56	MW56-0314	03/26/2014	N	<2	--	<2	--	<2	--	<20	--	<20	--	<20	<20	<2	--	<2	<2
MW56	MW56-0716	07/18/2016	N	<1	--	<1	--	<1	--	<10	--	<10	--	<10	<10	<1	--	<1	<1
SAIA-MW10	SAIA-MW10-0716	07/18/2016	N	<1	--	<1	--	<1	--	<10	--	<10	--	<10	<10	<1	--	<1	<1
SAIA-MW10	SAIA-MW10-0916	09/20/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW11A	SAIA-MW11A-0716	07/15/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW11A	SAIA-MW11A-0916	09/22/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW11B	SAIA-MW11B-0716	07/15/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	**3.5 J**	<0.5	--	<0.5	<0.5
SAIA-MW11B	SAIA-MW11B-0916	09/22/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	**7.1**	<0.5	--	<0.5	<0.5
SAIA-MW11C	SAIA-MW11C-0716	07/15/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW11C	SAIA-MW11C-0916	09/22/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW11C	SAIA-MW111C-0916	09/22/2016	FD	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW12A	SAIA-MW12A-0716	07/25/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW12A	SAIA-MW12A-0916	09/21/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	**5.3 J**	<0.5	--	<0.5	<0.5
SAIA-MW12B	SAIA-MW12B-0716	07/25/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW12B	SAIA-MW12B-0916	09/21/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW12C	SAIA-MW12C-0716	07/25/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW12C	SAIA-MW12C-0916	09/21/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	**9 J**	<0.5	--	<0.5	<0.5
SAIA-MW13	SAIA-MW13-0716	07/21/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	**11**	<0.5	--	<0.5	<0.5
SAIA-MW13	SAIA-MW13-0916	09/21/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	**10**	<0.5	--	<0.5	<0.5
SAIA-MW1A	SAIA-MW1A-0314	03/27/2014	N	<100	--	<100	--	<100	--	<1000	--	<1000	--	<1000	<1000	<100	--	<100	<100
SAIA-MW1A	SAIA-MW1A-0814	08/25/2014	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<11	**0.29 J**	--	<0.5	<0.5
SAIA-MW1A	SAIA-MW1A-0716	07/14/2016	N	<25	--	<25	--	<25	--	<250	--	<250	--	<250	<250	<25	--	<25	<25
SAIA-MW1B	SAIA-MW1B-0314	03/27/2014	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW1B	SAIA-MW1B-0814	08/25/2014	N	**0.097 J**	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW1B	SAIA-MW1B-0716	07/14/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW1B	SAIA-MW91B-0716	07/14/2016	FD	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW1C	SAIA-MW1C-0314	03/27/2014	N	<4	--	<4	--	<4	--	<40	--	<40	--	<40	<40	<4	--	<4	<4

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Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
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				Volatiles (in ug/L)															
SAIA-MW1C	SAIA-MW1C-0814	08/25/2014	N	**0.1 J**	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	**3.7**	--	<0.5	<0.5
SAIA-MW1C	SAIA-MW1C-0716	07/14/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	**3.2**	--	<0.5	<0.5
SAIA-MW2A	SAIA-MW2A-0314	03/27/2014	N	<10	--	<10	--	<10	--	<100	--	<100	--	<100	<100	<10	--	<10	<10
SAIA-MW2A	SAIA-MW2A-0814	08/25/2014	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5.3	**0.35 J**	--	<0.5	<0.5
SAIA-MW2A	SAIA-MW92A-0814	08/25/2014	FD	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	**0.35 J**	--	<0.5	<0.5
SAIA-MW2A	SAIA-MW2A-0716	07/11/2016	N	<2.5	--	<2.5	--	<2.5	--	<25	--	<25	--	<25	<25	<2.5	--	<2.5	<2.5
SAIA-MW2B	SAIA-MW2B-0314	03/27/2014	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW2B	SAIA-MW2B-0814	08/25/2014	N	**0.23 J**	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	**0.2 J**	--	<0.5	<0.5
SAIA-MW2B	SAIA-MW2B-0716	07/11/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW2C	SAIA-MW2C-0314	03/27/2014	N	**0.19**	--	<2	--	<2	--	<20	--	<20	--	<20	<20	**6.1**	--	<2	<2
SAIA-MW2C	SAIA-MW2C-0814	08/25/2014	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	**4.7**	--	<0.5	<0.5
SAIA-MW2C	SAIA-MW2C-0716	07/11/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	**7.8**	**2.2**	--	<0.5	<0.5
SAIA-MW3A	SAIA-MW3A-0314	03/24/2014	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW3A	SAIA-MW3A-0814	08/26/2014	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW3A	SAIA-MW3A-0716	07/13/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW3B	SAIA-MW3B-0314	03/24/2014	N	<25	--	<25	--	<25	--	<250	--	<250	--	<250	<250	<25	--	<25	<25
SAIA-MW3B	SAIA-MW3B-0814	08/26/2014	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	**1.5**	--	<0.5	<0.5
SAIA-MW3B	SAIA-MW3B-0716	07/13/2016	N	<25	--	<25	--	<25	--	<250	--	<250	--	<250	<250	<25	--	<25	<25
SAIA-MW3C	SAIA-MW3C-0314	03/24/2014	N	**0.23**	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW3C	SAIA-MW93C-0314	03/24/2014	FD	**0.25**	--	**0.095**	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW3C	SAIA-MW3C-0814	08/26/2014	N	**0.27 J**	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	**0.085 J**	--	<0.5	<0.5
SAIA-MW3C	SAIA-MW3C-0716	07/13/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW4A	SAIA-MW4A-0314	03/25/2014	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW4A	SAIA-MW4A-0814	08/26/2014	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW4A	SAIA-MW4A-0716	07/22/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW4B	SAIA-MW4B-0314	03/25/2014	N	<25	--	<25	--	<25	--	<250	--	<250	--	<250	<250	<25	--	<25	<25
SAIA-MW4B	SAIA-MW4B-0814	08/26/2014	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	**0.55**	--	<0.5	<0.5
SAIA-MW4B	SAIA-MW94B-0814	08/26/2014	FD	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	**0.55**	--	<0.5	<0.5
SAIA-MW4B	SAIA-MW4B-0716	07/22/2016	N	<10	--	<10	--	<10	--	<100	--	<100	--	<100	<100	<10	--	<10	<10
SAIA-MW4C	SAIA-MW4C-0314	03/25/2014	N	<10	--	<10	--	<10	--	<100	--	<100	--	<100	<100	<10	--	<10	<10
SAIA-MW4C	SAIA-MW4C-0814	08/26/2014	N	**0.3 J**	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	**0.19 J**	--	<0.5	<0.5
SAIA-MW4C	SAIA-MW4C-0716	07/22/2016	N	<2.5	--	<2.5	--	<2.5	--	<25	--	<25	--	<25	<25	<2.5	--	<2.5	<2.5
SAIA-MW5A	SAIA-MW5A-0314	03/25/2014	N	<5	--	<5	--	**0.7 J**	--	<50	--	<50	--	<50	<50	<5	--	<5	<5
SAIA-MW5A	SAIA-MW5A-0814	08/27/2014	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW5A	SAIA-MW5A-0716	07/20/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW5A	SAIA-MW95A-0716	07/20/2016	FD	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW5B	SAIA-MW5B-0314	03/25/2014	N	<25	--	<25	--	<25	--	<250	--	<250	--	<250	<250	<25	--	<25	<25
SAIA-MW5B	SAIA-MW5B-0814	08/27/2014	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	**0.36 J**	--	<0.5	<0.5
SAIA-MW5B	SAIA-MW5B-0716	07/21/2016	N	<2.5	--	<2.5	--	<2.5	--	<25	--	<25	--	<25	<25	<2.5	--	<2.5	<2.5

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				Volatiles (in ug/L)															
SAIA-MW5C	SAIA-MW5C-0314	03/25/2014	N	<4	--	<4	--	<4	--	<40	--	<40	--	<40	<40	<4	--	<4	<4
SAIA-MW5C	SAIA-MW5C-0814	08/27/2014	N	**0.26 J**	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	**0.18 J**	--	<0.5	<0.5
SAIA-MW5C	SAIA-MW5C-0716	07/21/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW6A	SAIA-MW6A-0314	03/24/2014	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW6A	SAIA-MW6A-0814	08/27/2014	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW6A	SAIA-MW6A-0716	07/20/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW6B	SAIA-MW6B-0314	03/24/2014	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW6B	SAIA-MW6B-0814	08/27/2014	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW6B	SAIA-MW6B-0716	07/20/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW6C	SAIA-MW6C-0314	03/24/2014	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW6C	SAIA-MW6C-0814	08/27/2014	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW6C	SAIA-MW6C-0716	07/20/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	**6.3**	<0.5	--	<0.5	<0.5
SAIA-MW7	SAIA-MW7-0314	03/27/2014	N	<0.5	--	**0.11**	--	**0.14**	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW7	SAIA-MW97-0314	03/27/2014	FD	<0.5	--	**0.12**	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW7	SAIA-MW7-0814	08/25/2014	N	<0.5	--	**0.12 J**	--	<0.5	--	<5	--	<5	--	<5	<5	**0.14 J**	--	<0.5	<0.5
SAIA-MW7	SAIA-MW7-0716	07/11/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW8	SAIA-MW8-0314	03/24/2014	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW8	SAIA-MW8-0814	08/25/2014	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW8	SAIA-MW8-0716	07/21/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW9A	SAIA-MW9A-0716	07/18/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW9A	SAIA-MW9A-0916	09/20/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW9B	SAIA-MW9B-0716	07/18/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW9B	SAIA-MW9B-0916	09/20/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5
SAIA-MW9C	SAIA-MW9C-0716	07/18/2016	N	<1	--	<1	--	<1	--	<10	--	<10	--	<10	<10	<1	--	<1	<1
SAIA-MW9C	SAIA-MW99C-0716	07/18/2016	FD	<1	--	<1	--	<1	--	<10	--	<10	--	<10	<10	<1	--	<1	<1
SAIA-MW9C	SAIA-MW9C-0916	09/20/2016	N	<0.5	--	<0.5	--	<0.5	--	<5	--	<5	--	<5	<5	<0.5	--	<0.5	<0.5

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

				Volatiles (in ug/L)															
Location ID	Sample ID	Sample Date	Sample Type	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Cyclohexane	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene
MW-2B	38051	06/13/2011	N	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	**19**	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5
MW32	MW32-0716	07/13/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.67**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
MW32	MW132-0716	07/13/2016	FD	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.63**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
MW34	MW34-0314	03/26/2014	N	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**470**	<2.5	<2.5	<2.5	--	<2.5	<2.5	--
MW34	MW934-0314	03/26/2014	FD	<2	<2	<2	<2	<2	<2	<2	<2	**450**	<2	<2	<2	--	<2	<2	--
MW34	MW34-0716	07/12/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**170**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
MW35	MW35-0314	03/26/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**58**	<0.5	**0.69**	<0.5	--	<0.5	<0.5	--
MW35	MW35-0716	07/12/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**330**	<0.5	**0.92**	<0.5	--	<0.5	<0.5	--
MW42	SAIA-MW42-0313	03/05/2013	N	<40	<40	<40	<40	<40	<40	<40	<40	**2,600**	<40	<40	<40	--	<40	<40	--
MW42	MW42-0314	03/26/2014	N	<10	<10	<10	<10	<10	<10	<10	<10	**4,000**	<10	<10	<10	--	<10	<10	--
MW42	MW42-0716	07/12/2016	N	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**1,100 J**	<2.5	<2.5	<2.5	--	<2.5	<2.5	--
MW43	SAIA-MW43-0313	03/05/2013	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**55**	<0.5	**1.4**	<0.5	--	<0.5	<0.5	--
MW43	MW43-0314	03/26/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**25**	<0.5	**1.2**	<0.5	--	<0.5	<0.5	--
MW43	MW43-0716	07/12/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**42**	<0.5	**2.5**	<0.5	--	<0.5	<0.5	--
MW44	MW44-0314	03/26/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**21**	<0.5	**0.42 J**	<0.5	--	<0.5	<0.5	--
MW44	MW44-0716	07/12/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.37 J**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
MW45	SAIA-MW45-0313	03/05/2013	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**51**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
MW45	MW45-0314	03/25/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**39**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
MW45	MW45-0716	07/14/2016	N	<0.5	<0.5	**0.27 J**	<0.5	<0.5	<0.5	<0.5	<0.5	**76**	<0.5	**0.3 J**	<0.5	--	<0.5	<0.5	--
MW46	SAIA-MW46-0313	03/05/2013	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**54**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
MW46	SAIA-MW46-1313	03/05/2013	FD	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**44**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
MW46	MW46-0314	03/24/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**47**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
MW46	MW46-0716	07/19/2016	N	<1	<1	<1	<1	<1	<1	<1	<1	**460**	<1	<1	<1	--	<1	<1	--
MW47	SAIA-MW47-0313	03/05/2013	N	<10	<10	<10	<10	<10	<10	<10	<10	**780**	<10	<10	<10	--	<10	<10	--
MW47	MW47-0314	03/24/2014	N	<4	<4	<4	<4	<4	<4	<4	<4	**700**	<4	<4	<4	--	<4	<4	--
MW47	MW47-0716	07/19/2016	N	<5	**3.2 J**	<5	<5	<5	<5	<5	<5	**490**	<5	<5	<5	--	<5	<5	--

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

				Volatiles (in ug/L)															
MW48	SAIA-MW48-0313	03/06/2013	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**29**	<0.5	**0.51**	<0.5	--	<0.5	<0.5	--
MW48	MW48-0314	03/24/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**82**	<0.5	**0.87**	<0.5	--	<0.5	<0.5	--
MW48	MW48-0716	07/19/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**100**	<0.5	**0.88**	<0.5	--	<0.5	<0.5	--
MW49	SAIA-MW49-0313	03/06/2013	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**51**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
MW49	MW49-0314	03/26/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**41**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
MW49	MW49-0716	07/15/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**49**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
MW49	MW149-0716	07/15/2016	FD	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**55**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
MW-4B	38053	06/14/2011	N	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	**4.3**	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5
MW52	SAIA-MW52-0313	03/06/2013	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**8.9**	<0.5	**0.3 J**	<0.5	--	<0.5	<0.5	--
MW52	MW52-0314	03/25/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**18**	<0.5	**0.96**	<0.5	--	<0.5	<0.5	--
MW52	MW952-0314	03/25/2014	FD	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**16**	<0.5	**0.78**	<0.5	--	<0.5	<0.5	--
MW52	MW52-0716	07/19/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**15**	<0.5	**0.84**	<0.5	--	<0.5	<0.5	--
MW56	MW56-0314	03/26/2014	N	<2	<2	<2	<2	<2	<2	<2	<2	**450**	<2	<2	<2	--	<2	<2	--
MW56	MW56-0716	07/18/2016	N	<1	<1	<1	<1	<1	<1	<1	<1	**260**	<1	<1	<1	--	<1	<1	--
SAIA-MW10	SAIA-MW10-0716	07/18/2016	N	<1	<1	<1	<1	<1	<1	<1	<1	**220**	<1	<1	<1	--	<1	<1	--
SAIA-MW10	SAIA-MW10-0916	09/20/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.66 J**	**480**	<0.5	**0.21 J**	<0.5	--	<0.5	<0.5	--
SAIA-MW11A	SAIA-MW11A-0716	07/15/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW11A	SAIA-MW11A-0916	09/22/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW11B	SAIA-MW11B-0716	07/15/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**47**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW11B	SAIA-MW11B-0916	09/22/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**40**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW11C	SAIA-MW11C-0716	07/15/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**36**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW11C	SAIA-MW11C-0916	09/22/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**55**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW11C	SAIA-MW111C-0916	09/22/2016	FD	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**61**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW12A	SAIA-MW12A-0716	07/25/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW12A	SAIA-MW12A-0916	09/21/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.5**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW12B	SAIA-MW12B-0716	07/25/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.77 J**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW12B	SAIA-MW12B-0916	09/21/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.7**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW12C	SAIA-MW12C-0716	07/25/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.66 J**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW12C	SAIA-MW12C-0916	09/21/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**8**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW13	SAIA-MW13-0716	07/21/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**190**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW13	SAIA-MW13-0916	09/21/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**250**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW1A	SAIA-MW1A-0314	03/27/2014	N	<100	<100	<100	<100	<100	<100	<100	<100	**3,300**	<100	<100	<100	--	<100	<100	--
SAIA-MW1A	SAIA-MW1A-0814	08/25/2014	N	<0.5	<0.5	**0.11 J**	<0.5	**0.045 J**	**0.41 J**	<0.5	<0.5	**6,900**	<0.5	**0.18 J**	<0.5	--	<0.5	<0.5	--
SAIA-MW1A	SAIA-MW1A-0716	07/14/2016	N	<25	<25	<25	<25	<25	<25	<25	<25	**3,900**	<25	<25	<25	--	<25	<25	--
SAIA-MW1B	SAIA-MW1B-0314	03/27/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**59**	<0.5	**0.24 J**	<0.5	--	<0.5	<0.5	--
SAIA-MW1B	SAIA-MW1B-0814	08/25/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**51**	<0.5	**0.22 J**	<0.5	--	<0.5	<0.5	--
SAIA-MW1B	SAIA-MW1B-0716	07/14/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**14**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW1B	SAIA-MW91B-0716	07/14/2016	FD	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**15**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW1C	SAIA-MW1C-0314	03/27/2014	N	<4	<4	<4	<4	<4	<4	<4	<4	**370**	<4	**1.6 J**	<4	--	<4	<4	--

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

				Volatiles (in ug/L)															
SAIA-MW1C	SAIA-MW1C-0814	08/25/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**560**	<0.5	**2.6**	<0.5	--	<0.5	<0.5	--
SAIA-MW1C	SAIA-MW1C-0716	07/14/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**350**	<0.5	**2**	<0.5	--	<0.5	<0.5	--
SAIA-MW2A	SAIA-MW2A-0314	03/27/2014	N	<10	<10	<10	<10	<10	<10	<10	<10	**2,000**	<10	<10	<10	--	<10	<10	--
SAIA-MW2A	SAIA-MW2A-0814	08/25/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2,500**	<0.5	**0.14 J**	<0.5	--	<0.5	<0.5	--
SAIA-MW2A	SAIA-MW92A-0814	08/25/2014	FD	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2,400**	<0.5	**0.15 J**	<0.5	--	<0.5	<0.5	--
SAIA-MW2A	SAIA-MW2A-0716	07/11/2016	N	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**1,300**	<2.5	<2.5	<2.5	--	<2.5	<2.5	--
SAIA-MW2B	SAIA-MW2B-0314	03/27/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**69**	<0.5	**0.24 J**	<0.5	--	<0.5	<0.5	--
SAIA-MW2B	SAIA-MW2B-0814	08/25/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**51**	<0.5	**0.19 J**	<0.5	--	<0.5	<0.5	--
SAIA-MW2B	SAIA-MW2B-0716	07/11/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**10**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW2C	SAIA-MW2C-0314	03/27/2014	N	<2	<2	<2	<2	<2	<2	<2	<2	**360**	<2	**1.7 J**	<2	--	<2	<2	--
SAIA-MW2C	SAIA-MW2C-0814	08/25/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**370**	<0.5	**1.9**	<0.5	--	<0.5	<0.5	--
SAIA-MW2C	SAIA-MW2C-0716	07/11/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**270 J**	<0.5	**1.1**	<0.5	--	<0.5	<0.5	--
SAIA-MW3A	SAIA-MW3A-0314	03/24/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**8.9**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW3A	SAIA-MW3A-0814	08/26/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**5.8**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW3A	SAIA-MW3A-0716	07/13/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.1**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW3B	SAIA-MW3B-0314	03/24/2014	N	<25	<25	<25	<25	<25	<25	<25	<25	**7,000**	<25	<25	<25	--	<25	<25	--
SAIA-MW3B	SAIA-MW3B-0814	08/26/2014	N	<0.5	<0.5	**1.4**	<0.5	<0.5	<0.5	<0.5	<0.5	**9,100**	<0.5	**0.42 J**	<0.5	--	<0.5	**0.13 J**	--
SAIA-MW3B	SAIA-MW3B-0716	07/13/2016	N	<25	<25	<25	<25	<25	<25	<25	<25	**4,600**	<25	<25	<25	--	<25	<25	--
SAIA-MW3C	SAIA-MW3C-0314	03/24/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**38**	<0.5	**0.16**	<0.5	--	<0.5	<0.5	--
SAIA-MW3C	SAIA-MW93C-0314	03/24/2014	FD	<0.5	**0.12 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**37**	<0.5	**0.16**	<0.5	--	<0.5	<0.5	--
SAIA-MW3C	SAIA-MW3C-0814	08/26/2014	N	<0.5	<0.5	**0.13 J**	<0.5	<0.5	<0.5	<0.5	<0.5	**27**	<0.5	**0.14 J**	<0.5	--	<0.5	<0.5	--
SAIA-MW3C	SAIA-MW3C-0716	07/13/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**49**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW4A	SAIA-MW4A-0314	03/25/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**4.7**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW4A	SAIA-MW4A-0814	08/26/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.72**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW4A	SAIA-MW4A-0716	07/22/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.16 J**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW4B	SAIA-MW4B-0314	03/25/2014	N	<25	<25	<25	<25	<25	<25	<25	<25	**4,200**	<25	<25	<25	--	<25	<25	--
SAIA-MW4B	SAIA-MW4B-0814	08/26/2014	N	<0.5	<0.5	**1.3**	<0.5	<0.5	<0.5	<0.5	<0.5	**4,800**	<0.5	**0.17 J**	<0.5	--	<0.5	**0.034 J**	--
SAIA-MW4B	SAIA-MW94B-0814	08/26/2014	FD	<0.5	<0.5	**1.2**	<0.5	<0.5	<0.5	<0.5	<0.5	**4,800**	<0.5	**0.17 J**	<0.5	--	<0.5	<0.5	--
SAIA-MW4B	SAIA-MW4B-0716	07/22/2016	N	<10	<10	<10	<10	<10	<10	<10	<10	**4,200**	<10	<10	<10	--	<10	<10	--
SAIA-MW4C	SAIA-MW4C-0314	03/25/2014	N	<10	<10	<10	<10	<10	<10	<10	<10	**910**	<10	<10	<10	--	<10	<10	--
SAIA-MW4C	SAIA-MW4C-0814	08/26/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**910**	<0.5	**0.16 J**	<0.5	--	<0.5	<0.5	--
SAIA-MW4C	SAIA-MW4C-0716	07/22/2016	N	<2.5	**1.3 J**	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**870**	<2.5	<2.5	<2.5	--	<2.5	<2.5	--
SAIA-MW5A	SAIA-MW5A-0314	03/25/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	**530**	<5	<5	<5	--	<5	<5	--
SAIA-MW5A	SAIA-MW5A-0814	08/27/2014	N	<0.5	R	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**520**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW5A	SAIA-MW5A-0716	07/20/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**210**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW5A	SAIA-MW95A-0716	07/20/2016	FD	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**220**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW5B	SAIA-MW5B-0314	03/25/2014	N	<25	<25	<25	<25	<25	<25	<25	<25	**3,100**	<25	<25	<25	--	<25	<25	--
SAIA-MW5B	SAIA-MW5B-0814	08/27/2014	N	<0.5	R	**0.96**	<0.5	<0.5	<0.5	<0.5	<0.5	**3,600**	<0.5	**0.16 J**	<0.5	--	<0.5	<0.5	--
SAIA-MW5B	SAIA-MW5B-0716	07/21/2016	N	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	**2,100**	<2.5	<2.5	<2.5	--	<2.5	<2.5	--

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

				Volatiles (in ug/L)														
SAIA-MW5C	SAIA-MW5C-0314	03/25/2014	N	<4	<4	<4	<4	<4	<4	<4	<4	**300**	<4	<4	<4	--	<4	<4	--
SAIA-MW5C	SAIA-MW5C-0814	08/27/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**320**	<0.5	**0.15 J**	<0.5	--	<0.5	<0.5	--
SAIA-MW5C	SAIA-MW5C-0716	07/21/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**95**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW6A	SAIA-MW6A-0314	03/24/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW6A	SAIA-MW6A-0814	08/27/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW6A	SAIA-MW6A-0716	07/20/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW6B	SAIA-MW6B-0314	03/24/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.9**	<0.5	**13**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW6B	SAIA-MW6B-0814	08/27/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**14**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW6B	SAIA-MW6B-0716	07/20/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**14**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW6C	SAIA-MW6C-0314	03/24/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**17**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW6C	SAIA-MW6C-0814	08/27/2014	N	<0.5	R	**0.24 J**	<0.5	<0.5	<0.5	<0.5	<0.5	**21**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW6C	SAIA-MW6C-0716	07/20/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**17**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW7	SAIA-MW7-0314	03/27/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**16**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW7	SAIA-MW97-0314	03/27/2014	FD	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**17**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW7	SAIA-MW7-0814	08/25/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**57**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW7	SAIA-MW7-0716	07/11/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**73**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW8	SAIA-MW8-0314	03/24/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.83**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW8	SAIA-MW8-0814	08/25/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.9**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW8	SAIA-MW8-0716	07/21/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2.2**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW9A	SAIA-MW9A-0716	07/18/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.2**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW9A	SAIA-MW9A-0916	09/20/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.3 J**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW9B	SAIA-MW9B-0716	07/18/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**52**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW9B	SAIA-MW9B-0916	09/20/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**18**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--
SAIA-MW9C	SAIA-MW9C-0716	07/18/2016	N	<1	<1	<1	<1	<1	<1	<1	<1	**250**	<1	<1	<1	--	<1	<1	--
SAIA-MW9C	SAIA-MW99C-0716	07/18/2016	FD	<1	<1	<1	<1	<1	<1	<1	<1	**310**	<1	<1	<1	--	<1	<1	--
SAIA-MW9C	SAIA-MW9C-0916	09/20/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**500**	<0.5	<0.5	<0.5	--	<0.5	<0.5	--

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

				Volatiles (in ug/L)															
Location ID	Sample ID	Sample Date	Sample Type	Isopropylbenzene (Cumene)	m,p-Xylene	Methyl Acetate	Methylcyclohexane	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Cymene (p-Isopropyltoluene)	sec-Butylbenzene	Styrene	tert-Butyl Methyl Ether (MTBE)	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene
MW-2B	38051	06/13/2011	N	<0.5	<1	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
MW32	MW32-0716	07/13/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
MW32	MW132-0716	07/13/2016	FD	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
MW34	MW34-0314	03/26/2014	N	<2.5	<2.5	<2.5	<2.5	<2.5	--	--	--	<2.5	--	--	<2.5	**1.8 J**	--	<2.5	<2.5
MW34	MW934-0314	03/26/2014	FD	<2	<2	<2	<2	<2	--	--	--	<2	--	--	<2	**1.5 J**	--	<2	<2
MW34	MW34-0716	07/12/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	**1.7**	--	<0.5	<0.5
MW35	MW35-0314	03/26/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
MW35	MW35-0716	07/12/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
MW42	SAIA-MW42-0313	03/05/2013	N	<40	<40	<40	<40	<40	--	--	--	<40	--	--	<40	<40	--	<40	<40
MW42	MW42-0314	03/26/2014	N	<10	<10	<10	<10	<10	--	--	--	<10	--	--	<10	<10	--	<10	<10
MW42	MW42-0716	07/12/2016	N	<2.5	<2.5	<2.5	<2.5	<2.5	--	--	--	<2.5	--	--	<2.5	<2.5	--	<2.5	<2.5
MW43	SAIA-MW43-0313	03/05/2013	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
MW43	MW43-0314	03/26/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
MW43	MW43-0716	07/12/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
MW44	MW44-0314	03/26/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
MW44	MW44-0716	07/12/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
MW45	SAIA-MW45-0313	03/05/2013	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	**0.16 J**
MW45	MW45-0314	03/25/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
MW45	MW45-0716	07/14/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
MW46	SAIA-MW46-0313	03/05/2013	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	**0.19 J**
MW46	SAIA-MW46-1313	03/05/2013	FD	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	**0.16 J**
MW46	MW46-0314	03/24/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
MW46	MW46-0716	07/19/2016	N	<1	<1	<1	<1	**1.1 J**	--	--	--	<1	--	--	<1	<1	--	<1	<1
MW47	SAIA-MW47-0313	03/05/2013	N	<10	<10	<10	<10	<10	--	--	--	<10	--	--	<10	<10	--	<10	<10
MW47	MW47-0314	03/24/2014	N	<4	<4	<4	<4	<4	--	--	--	<4	--	--	<4	<4	--	<4	<4
MW47	MW47-0716	07/19/2016	N	<5	<5	<5	<5	<5	--	--	--	<5	--	--	<5	<5	--	<5	<5

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

				Volatiles (in ug/L)															
MW48	SAIA-MW48-0313	03/06/2013	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	**0.21 J**
MW48	MW48-0314	03/24/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
MW48	MW48-0716	07/19/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
MW49	SAIA-MW49-0313	03/06/2013	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	**0.19 J**
MW49	MW49-0314	03/26/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
MW49	MW49-0716	07/15/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
MW49	MW149-0716	07/15/2016	FD	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
MW-4B	38053	06/14/2011	N	<0.5	<1	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
MW52	SAIA-MW52-0313	03/06/2013	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	**0.13 J**
MW52	MW52-0314	03/25/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
MW52	MW952-0314	03/25/2014	FD	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
MW52	MW52-0716	07/19/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
MW56	MW56-0314	03/26/2014	N	<2	<2	<2	<2	<2	--	--	--	<2	--	--	<2	<2	--	<2	<2
MW56	MW56-0716	07/18/2016	N	<1	<1	<1	<1	<1	--	--	--	<1	--	--	<1	<1	--	<1	<1
SAIA-MW10	SAIA-MW10-0716	07/18/2016	N	<1	<1	<1	<1	<1	--	--	--	<1	--	--	<1	<1	--	<1	<1
SAIA-MW10	SAIA-MW10-0916	09/20/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW11A	SAIA-MW11A-0716	07/15/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW11A	SAIA-MW11A-0916	09/22/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW11B	SAIA-MW11B-0716	07/15/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW11B	SAIA-MW11B-0916	09/22/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW11C	SAIA-MW11C-0716	07/15/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW11C	SAIA-MW11C-0916	09/22/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW11C	SAIA-MW111C-0916	09/22/2016	FD	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW12A	SAIA-MW12A-0716	07/25/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	**0.67**	--	<0.5	<0.5
SAIA-MW12A	SAIA-MW12A-0916	09/21/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	**0.56**	--	<0.5	<0.5
SAIA-MW12B	SAIA-MW12B-0716	07/25/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW12B	SAIA-MW12B-0916	09/21/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	**1.3**	--	<0.5	<0.5
SAIA-MW12C	SAIA-MW12C-0716	07/25/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW12C	SAIA-MW12C-0916	09/21/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	**0.51**	--	<0.5	<0.5
SAIA-MW13	SAIA-MW13-0716	07/21/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW13	SAIA-MW13-0916	09/21/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW1A	SAIA-MW1A-0314	03/27/2014	N	<100	<100	<100	<100	<100	--	--	--	<100	--	--	<100	<100	--	<100	<100
SAIA-MW1A	SAIA-MW1A-0814	08/25/2014	N	**0.17 J**	<0.5	<0.5	**0.16 J**	<0.5	--	--	--	**0.1 J**	--	--	<0.5	<0.5	--	**0.42 J**	**0.51**
SAIA-MW1A	SAIA-MW1A-0716	07/14/2016	N	<25	<25	<25	<25	<25	--	--	--	<25	--	--	<25	<25	--	<25	<25
SAIA-MW1B	SAIA-MW1B-0314	03/27/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW1B	SAIA-MW1B-0814	08/25/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW1B	SAIA-MW1B-0716	07/14/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW1B	SAIA-MW91B-0716	07/14/2016	FD	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW1C	SAIA-MW1C-0314	03/27/2014	N	<4	<4	<4	<4	<4	--	--	--	<4	--	--	<4	<4	--	<4	<4

Appendix E-3
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Southern Avenue Industrial Area Superfund Site
South Gate, California

				Volatiles (in ug/L)															
SAIA-MW1C	SAIA-MW1C-0814	08/25/2014	N	<0.5	<0.5	<0.5	**0.15 J**	<0.5	--	--	--	**0.057 J**	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW1C	SAIA-MW1C-0716	07/14/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW2A	SAIA-MW2A-0314	03/27/2014	N	<10	<10	<10	<10	<10	--	--	--	<10	--	--	<10	<10	--	<10	<10
SAIA-MW2A	SAIA-MW2A-0814	08/25/2014	N	<0.5	<0.5	<0.5	**0.17 J**	<0.5	--	--	--	**0.083 J**	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW2A	SAIA-MW92A-0814	08/25/2014	FD	<0.5	<0.5	<0.5	**0.16 J**	<0.5	--	--	--	**0.087 J**	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW2A	SAIA-MW2A-0716	07/11/2016	N	<2.5	<2.5	<2.5	<2.5	<2.5	--	--	--	<2.5	--	--	<2.5	<2.5	--	<2.5	<2.5
SAIA-MW2B	SAIA-MW2B-0314	03/27/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW2B	SAIA-MW2B-0814	08/25/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW2B	SAIA-MW2B-0716	07/11/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW2C	SAIA-MW2C-0314	03/27/2014	N	<2	<2	<2	<2	<2	--	--	--	<2	--	--	<2	<2	--	<2	<2
SAIA-MW2C	SAIA-MW2C-0814	08/25/2014	N	<0.5	<0.5	<0.5	**0.14 J**	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW2C	SAIA-MW2C-0716	07/11/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW3A	SAIA-MW3A-0314	03/24/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	**0.073**
SAIA-MW3A	SAIA-MW3A-0814	08/26/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	**0.045 J**	<0.5	--	<0.5	**1.3**
SAIA-MW3A	SAIA-MW3A-0716	07/13/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW3B	SAIA-MW3B-0314	03/24/2014	N	<25	<25	<25	<25	<25	--	--	--	<25	--	--	<25	<25	--	<25	<25
SAIA-MW3B	SAIA-MW3B-0814	08/26/2014	N	**0.19 J**	<0.5	<0.5	**0.28 J**	<0.5	--	--	--	**0.032 J**	--	--	<0.5	<0.5	--	<0.5	**1.1**
SAIA-MW3B	SAIA-MW3B-0716	07/13/2016	N	<25	<25	<25	<25	<25	--	--	--	<25	--	--	<25	<25	--	<25	<25
SAIA-MW3C	SAIA-MW3C-0314	03/24/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW3C	SAIA-MW93C-0314	03/24/2014	FD	<0.5	**0.05**	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	**0.036**	<0.5	--	<0.5	<0.5
SAIA-MW3C	SAIA-MW3C-0814	08/26/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW3C	SAIA-MW3C-0716	07/13/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW4A	SAIA-MW4A-0314	03/25/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW4A	SAIA-MW4A-0814	08/26/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW4A	SAIA-MW4A-0716	07/22/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW4B	SAIA-MW4B-0314	03/25/2014	N	<25	<25	<25	<25	<25	--	--	--	<25	--	--	<25	<25	--	<25	<25
SAIA-MW4B	SAIA-MW4B-0814	08/26/2014	N	<0.5	<0.5	<0.5	**0.19 J**	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW4B	SAIA-MW94B-0814	08/26/2014	FD	<0.5	<0.5	<0.5	**0.18 J**	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW4B	SAIA-MW4B-0716	07/22/2016	N	<10	<10	<10	<10	<10	--	--	--	<10	--	--	<10	<10	--	<10	<10
SAIA-MW4C	SAIA-MW4C-0314	03/25/2014	N	<10	<10	<10	<10	<10	--	--	--	<10	--	--	<10	<10	--	<10	<10
SAIA-MW4C	SAIA-MW4C-0814	08/26/2014	N	<0.5	<0.5	<0.5	**0.074 J**	<0.5	--	--	--	<0.5	--	--	**0.074 J**	<0.5	--	<0.5	**1.1**
SAIA-MW4C	SAIA-MW4C-0716	07/22/2016	N	<2.5	<2.5	<2.5	<2.5	<2.5	--	--	--	<2.5	--	--	<2.5	<2.5	--	<2.5	**1.3 J**
SAIA-MW5A	SAIA-MW5A-0314	03/25/2014	N	<5	<5	<5	<5	<5	--	--	--	<5	--	--	<5	<5	--	<5	**1.4 J**
SAIA-MW5A	SAIA-MW5A-0814	08/27/2014	N	<0.5	<0.5	<0.5	**0.09 J**	<0.5	--	--	--	<0.5	--	--	**0.041 J**	<0.5	--	<0.5	**0.77**
SAIA-MW5A	SAIA-MW5A-0716	07/20/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW5A	SAIA-MW95A-0716	07/20/2016	FD	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW5B	SAIA-MW5B-0314	03/25/2014	N	<25	<25	<25	<25	<25	--	--	--	<25	--	--	<25	<25	--	<25	**8.9 J**
SAIA-MW5B	SAIA-MW5B-0814	08/27/2014	N	<0.5	<0.5	<0.5	**0.22 J**	<0.5	--	--	--	<0.5	--	--	**0.055 J**	<0.5	--	<0.5	**1.2**
SAIA-MW5B	SAIA-MW5B-0716	07/21/2016	N	<2.5	<2.5	<2.5	<2.5	<2.5	--	--	--	<2.5	--	--	<2.5	<2.5	--	<2.5	<2.5

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				Volatiles (in ug/L)															
SAIA-MW5C	SAIA-MW5C-0314	03/25/2014	N	<4	<4	<4	<4	<4	--	--	--	<4	--	--	<4	<4	--	<4	<4
SAIA-MW5C	SAIA-MW5C-0814	08/27/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW5C	SAIA-MW5C-0716	07/21/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW6A	SAIA-MW6A-0314	03/24/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	**0.24**	--	<0.5	<0.5
SAIA-MW6A	SAIA-MW6A-0814	08/27/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	**0.034 J**	**0.19 J**	--	<0.5	**0.68**
SAIA-MW6A	SAIA-MW6A-0716	07/20/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW6B	SAIA-MW6B-0314	03/24/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	**0.069**
SAIA-MW6B	SAIA-MW6B-0814	08/27/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	**0.048 J**	<0.5	--	<0.5	**0.99**
SAIA-MW6B	SAIA-MW6B-0716	07/20/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW6C	SAIA-MW6C-0314	03/24/2014	N	<0.5	**0.031**	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	**0.075**
SAIA-MW6C	SAIA-MW6C-0814	08/27/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW6C	SAIA-MW6C-0716	07/20/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW7	SAIA-MW7-0314	03/27/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW7	SAIA-MW97-0314	03/27/2014	FD	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW7	SAIA-MW7-0814	08/25/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW7	SAIA-MW7-0716	07/11/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW8	SAIA-MW8-0314	03/24/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	**0.18**
SAIA-MW8	SAIA-MW8-0814	08/25/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW8	SAIA-MW8-0716	07/21/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW9A	SAIA-MW9A-0716	07/18/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW9A	SAIA-MW9A-0916	09/20/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW9B	SAIA-MW9B-0716	07/18/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW9B	SAIA-MW9B-0916	09/20/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5
SAIA-MW9C	SAIA-MW9C-0716	07/18/2016	N	<1	<1	<1	<1	<1	--	--	--	<1	--	--	<1	<1	--	<1	<1
SAIA-MW9C	SAIA-MW99C-0716	07/18/2016	FD	<1	<1	<1	<1	<1	--	--	--	<1	--	--	<1	<1	--	<1	<1
SAIA-MW9C	SAIA-MW9C-0916	09/20/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	--	<0.5	<0.5	--	<0.5	<0.5

Appendix E-3
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				Volatiles (in ug/L)					Perchlorates by E314.0 (in ug/L)	Semivolatiles by 8270SIM (in ug/L)	Semivolatiles by CSVOL12 (in ug/L)							
Location ID	Sample ID	Sample Date	Sample Type	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	Perchlorate	1,4-Dioxane (p-Dioxane)	1,2,4,5-Tetrachlorobenzene	1,4-Dioxane (p-Dioxane)	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol
MW-2B	38051	06/13/2011	N	**0.9**	<0.5	**13**	<0.5	**1.1**	--	--	--	**9.8**	--	--	--	--	--	--
MW32	MW32-0716	07/13/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	--	--	--	--	--	--	--
MW32	MW132-0716	07/13/2016	FD	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	--	--	--	--	--	--	--
MW34	MW34-0314	03/26/2014	N	**25**	<2.5	**45**	<2.5	<2.5	<0.3	**1.3**	<5	--	<5	<5	<5	<5	<5	<10
MW34	MW934-0314	03/26/2014	FD	**20**	<2	**38**	<2	<2	<0.3	**1.5**	<5	--	<5	<5	<5	<5	<5	<10
MW34	MW34-0716	07/12/2016	N	**9.9**	<0.5	**4.5**	<0.5	**0.81**	--	<0.5	--	--	--	--	--	--	--	--
MW35	MW35-0314	03/26/2014	N	**5.5**	<0.5	**6.9**	<0.5	<0.5	--	**2.3**	<5	--	<5	<5	<5	<5	<5	<10
MW35	MW35-0716	07/12/2016	N	**15**	<0.5	**3.5**	<0.5	<0.5	--	**19**	--	--	--	--	--	--	--	--
MW42	SAIA-MW42-0313	03/05/2013	N	**51**	<40	**220**	<40	<40	--	**15**	--	--	--	--	--	--	--	--
MW42	MW42-0314	03/26/2014	N	**75**	<10	**390 J**	<10	<10	<0.3	**24**	<5	--	<5	<5	<5	<5	<5	<10
MW42	MW42-0716	07/12/2016	N	**40 J**	<2.5	**32**	<2.5	<2.5	--	**47**	--	--	--	--	--	--	--	--
MW43	SAIA-MW43-0313	03/05/2013	N	**1.9**	<0.5	**36**	<0.5	<0.5	--	**5.7**	--	--	--	--	--	--	--	--
MW43	MW43-0314	03/26/2014	N	**1.4**	<0.5	**8.6**	<0.5	<0.5	<0.3	**2.8**	<5	--	<5	<5	<5	<5	<5	<10
MW43	MW43-0716	07/12/2016	N	**3**	<0.5	**5.4**	<0.5	**1**	--	**4**	--	--	--	--	--	--	--	--
MW44	MW44-0314	03/26/2014	N	**1.5**	<0.5	**2.9**	<0.5	<0.5	<0.3	**2.8**	<5	--	<5	<5	<5	<5	<5	<10
MW44	MW44-0716	07/12/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	**8.2**	--	--	--	--	--	--	--	--
MW45	SAIA-MW45-0313	03/05/2013	N	**4**	<0.5	**6.9**	<0.5	<0.5	--	**1.4**	--	--	--	--	--	--	--	--
MW45	MW45-0314	03/25/2014	N	**3.7**	<0.5	**2.2**	<0.5	<0.5	--	--	<5	**2.1**	<5	<5	<5	<5	<5	<10
MW45	MW45-0716	07/14/2016	N	**5.8**	<0.5	**1.6**	<0.5	<0.5	--	**3.5**	--	--	--	--	--	--	--	--
MW46	SAIA-MW46-0313	03/05/2013	N	**2.9**	<0.5	**4.5**	<0.5	<0.5	--	<0.5	--	--	--	--	--	--	--	--
MW46	SAIA-MW46-1313	03/05/2013	FD	**2.7**	<0.5	**4.4**	<0.5	<0.5	--	<0.5	--	--	--	--	--	--	--	--
MW46	MW46-0314	03/24/2014	N	**3.7 J**	<0.5	**8.6 J**	<0.5	<0.5	--	--	<5	<0.5	<5	<5	<5	<5	<5	<10
MW46	MW46-0716	07/19/2016	N	**37**	<1	**57**	<1	<1	--	**3.5**	--	--	--	--	--	--	--	--
MW47	SAIA-MW47-0313	03/05/2013	N	**49**	<10	**36**	<10	<10	--	**1**	--	--	--	--	--	--	--	--
MW47	MW47-0314	03/24/2014	N	**47**	<4	**14**	<4	<4	--	--	<5	**1.8**	<5	<5	<5	<5	<5	<10
MW47	MW47-0716	07/19/2016	N	**30**	<5	**5.4**	<5	<5	--	**6.2**	--	--	--	--	--	--	--	--

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Southern Avenue Industrial Area Superfund Site
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				Volatiles (in ug/L)					Perchlorates by E314.0 (in ug/L)	Semivolatiles by 8270SIM (in ug/L)	Semivolatiles by CSVOL12 (in ug/L)							
MW48	SAIA-MW48-0313	03/06/2013	N	**3.1**	<0.5	**17**	<0.5	<0.5	--	**5.5**	--	--	--	--	--	--	--	--
MW48	MW48-0314	03/24/2014	N	**5.5**	<0.5	**29**	<0.5	<0.5	--	--	<5	**8.7**	<5	<5	<5	<5	<5	<10
MW48	MW48-0716	07/19/2016	N	**6.3**	<0.5	**1.3**	<0.5	**1.1**	--	**13**	--	--	--	--	--	--	--	--
MW49	SAIA-MW49-0313	03/06/2013	N	**3.9**	<0.5	**3.4**	<0.5	<0.5	--	<0.5	--	--	--	--	--	--	--	--
MW49	MW49-0314	03/26/2014	N	**3.4**	<0.5	**2.9**	<0.5	<0.5	--	<0.5	<5	--	<5	<5	<5	<5	<5	<10
MW49	MW49-0716	07/15/2016	N	**6.3**	<0.5	**1.6**	<0.5	<0.5	--	<0.5	--	--	--	--	--	--	--	--
MW49	MW149-0716	07/15/2016	FD	**5.9**	<0.5	**1.6**	<0.5	<0.5	--	<0.5	--	--	--	--	--	--	--	--
MW-4B	38053	06/14/2011	N	**1.1**	<0.5	**2.2**	<0.5	<0.5	--	--	--	<2	--	--	--	--	--	--
MW52	SAIA-MW52-0313	03/06/2013	N	**2**	<0.5	**2.5**	<0.5	<0.5	--	<0.5	--	--	--	--	--	--	--	--
MW52	MW52-0314	03/25/2014	N	**5**	<0.5	**6.1**	<0.5	<0.5	--	--	<5	<0.5	<5	<5	<5	<5	<5	<10
MW52	MW952-0314	03/25/2014	FD	**4.2**	<0.5	**5.6**	<0.5	<0.5	--	--	<5	<0.5	<5	<5	<5	<5	<5	<10
MW52	MW52-0716	07/19/2016	N	**6.2**	<0.5	**5.6**	<0.5	<0.5	--	<0.5	--	--	--	--	--	--	--	--
MW56	MW56-0314	03/26/2014	N	**15**	<2	**290**	<2	<2	--	<0.5	<5	--	<5	<5	<5	<5	<5	<10
MW56	MW56-0716	07/18/2016	N	**15**	<1	**74**	<1	<1	--	<0.5	--	--	--	--	--	--	--	--
SAIA-MW10	SAIA-MW10-0716	07/18/2016	N	**14**	<1	**0.93 J**	<1	<1	--	**0.72**	--	--	--	--	--	--	--	--
SAIA-MW10	SAIA-MW10-0916	09/20/2016	N	**19 J**	<0.5	**1.4**	<0.5	**0.67**	--	**1.1 J**	--	--	--	--	--	--	--	--
SAIA-MW11A	SAIA-MW11A-0716	07/15/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	--	--	--	--	--	--	--
SAIA-MW11A	SAIA-MW11A-0916	09/22/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	--	--	--	--	--	--	--
SAIA-MW11B	SAIA-MW11B-0716	07/15/2016	N	**6.1**	<0.5	**16**	<0.5	<0.5	--	<0.5	--	--	--	--	--	--	--	--
SAIA-MW11B	SAIA-MW11B-0916	09/22/2016	N	**3.7**	<0.5	**15**	<0.5	<0.5	--	<0.5	--	--	--	--	--	--	--	--
SAIA-MW11C	SAIA-MW11C-0716	07/15/2016	N	**6.7**	<0.5	**11**	<0.5	<0.5	--	<0.5	--	--	--	--	--	--	--	--
SAIA-MW11C	SAIA-MW11C-0916	09/22/2016	N	**7.2**	<0.5	**11**	<0.5	<0.5	--	<0.5	--	--	--	--	--	--	--	--
SAIA-MW11C	SAIA-MW111C-0916	09/22/2016	FD	**6.4**	<0.5	**9.4**	<0.5	<0.5	--	<0.5	--	--	--	--	--	--	--	--
SAIA-MW12A	SAIA-MW12A-0716	07/25/2016	N	**0.2 J**	<0.5	**0.63**	<0.5	<0.5	--	<0.5	--	--	--	--	--	--	--	--
SAIA-MW12A	SAIA-MW12A-0916	09/21/2016	N	**0.35 J**	<0.5	**0.97**	<0.5	<0.5	--	**0.72 J**	--	--	--	--	--	--	--	--
SAIA-MW12B	SAIA-MW12B-0716	07/25/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	**0.73**	--	--	--	--	--	--	--	--
SAIA-MW12B	SAIA-MW12B-0916	09/21/2016	N	**0.42 J**	<0.5	**1.6**	<0.5	<0.5	--	**1 J**	--	--	--	--	--	--	--	--
SAIA-MW12C	SAIA-MW12C-0716	07/25/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	--	--	--	--	--	--	--
SAIA-MW12C	SAIA-MW12C-0916	09/21/2016	N	**0.67**	<0.5	**1.5**	<0.5	<0.5	--	**0.48 J**	--	--	--	--	--	--	--	--
SAIA-MW13	SAIA-MW13-0716	07/21/2016	N	**29**	<0.5	**1.5**	<0.5	<0.5	--	<0.5	--	--	--	--	--	--	--	--
SAIA-MW13	SAIA-MW13-0916	09/21/2016	N	**32**	<0.5	**2**	<0.5	**0.36 J**	--	**0.22 J**	--	--	--	--	--	--	--	--
SAIA-MW1A	SAIA-MW1A-0314	03/27/2014	N	**71 J**	<100	**7,400 J**	<100	<100	<0.3	--	<5	**1.7 J**	<5	<5	<5	<5	<5	<10
SAIA-MW1A	SAIA-MW1A-0814	08/25/2014	N	**96 J**	<0.5	**4,800**	<0.5	<360	--	**1.4**	--	--	--	--	--	--	--	--
SAIA-MW1A	SAIA-MW1A-0716	07/14/2016	N	**160**	<25	**1,500**	<25	<25	--	<0.5	--	--	--	--	--	--	--	--
SAIA-MW1B	SAIA-MW1B-0314	03/27/2014	N	**4.6**	<0.5	**17**	<0.5	<0.5	<0.3	--	<5	**1.9**	<5	<5	<5	<5	<5	<10
SAIA-MW1B	SAIA-MW1B-0814	08/25/2014	N	**4.6**	<0.5	**4.3 J**	<0.5	<0.5	--	**2.6**	--	--	--	--	--	--	--	--
SAIA-MW1B	SAIA-MW1B-0716	07/14/2016	N	**2**	<0.5	**0.84**	<0.5	<0.5	--	<0.5	--	--	--	--	--	--	--	--
SAIA-MW1B	SAIA-MW91B-0716	07/14/2016	FD	**2.5**	<0.5	**0.82**	<0.5	<0.5	--	<0.5	--	--	--	--	--	--	--	--
SAIA-MW1C	SAIA-MW1C-0314	03/27/2014	N	**34**	<4	**420 J**	<4	<4	<0.3	--	<5	**18**	<5	<5	<5	<5	<5	<10

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SAIA-MW1C	SAIA-MW1C-0814	08/25/2014	N	**47**	<0.5	**210**	<0.5	**1.4**	--	**22**	--	--	--	--	--	--	--	--
SAIA-MW1C	SAIA-MW1C-0716	07/14/2016	N	**27**	<0.5	**4.4**	<0.5	**18**	--	**7.3**	--	--	--	--	--	--	--	--
SAIA-MW2A	SAIA-MW2A-0314	03/27/2014	N	**74**	<10	**1,100 J**	<10	<10	<0.3	--	<5	**12**	<5	<5	<5	<5	<5	<10
SAIA-MW2A	SAIA-MW2A-0814	08/25/2014	N	**110 J**	<0.5	**1,300**	<0.5	**5.5**	--	**16**	--	--	--	--	--	--	--	--
SAIA-MW2A	SAIA-MW92A-0814	08/25/2014	FD	**120 J**	<0.5	**1,300**	<0.5	**5.3**	--	**15**	--	--	--	--	--	--	--	--
SAIA-MW2A	SAIA-MW2A-0716	07/11/2016	N	**85**	<2.5	**120**	<2.5	<2.5	--	**5.3**	--	--	--	--	--	--	--	--
SAIA-MW2B	SAIA-MW2B-0314	03/27/2014	N	**7.2**	<0.5	**6.8 J**	<0.5	<0.5	<0.3	--	<5	**1.7**	<5	<5	<5	<5	<5	<10
SAIA-MW2B	SAIA-MW2B-0814	08/25/2014	N	**5.9**	<0.5	**2.8**	<0.5	**0.75**	--	**1.3**	--	--	--	--	--	--	--	--
SAIA-MW2B	SAIA-MW2B-0716	07/11/2016	N	**1.5**	<0.5	**0.57**	<0.5	<0.5	--	<0.5	--	--	--	--	--	--	--	--
SAIA-MW2C	SAIA-MW2C-0314	03/27/2014	N	**28**	<2	**260 J**	<2	<2	<0.3	--	<5	**14**	<5	<5	<5	<5	<5	<10
SAIA-MW2C	SAIA-MW2C-0814	08/25/2014	N	**33**	<0.5	**200**	<0.5	**3.3**	--	**20**	--	--	--	--	--	--	--	--
SAIA-MW2C	SAIA-MW2C-0716	07/11/2016	N	**19 J**	<0.5	**4.7**	<0.5	**0.87**	--	**15**	--	--	--	--	--	--	--	--
SAIA-MW3A	SAIA-MW3A-0314	03/24/2014	N	**0.2**	<0.5	**9.2 J**	<0.5	<0.5	--	--	<5	<0.5	<5	<5	<5	<5	<5	<10
SAIA-MW3A	SAIA-MW3A-0814	08/26/2014	N	**0.15 J**	<0.5	**3.6**	<0.5	<0.5	--	<0.46	--	--	--	--	--	--	--	--
SAIA-MW3A	SAIA-MW3A-0716	07/13/2016	N	<0.5	<0.5	**0.29 J**	<0.5	<0.5	--	<0.5	--	--	--	--	--	--	--	--
SAIA-MW3B	SAIA-MW3B-0314	03/24/2014	N	**120**	<25	**6,700**	<25	<25	--	--	<5	**110 J**	<5	<5	<5	<5	<5	<10
SAIA-MW3B	SAIA-MW3B-0814	08/26/2014	N	**230 J**	<0.5	**6,600**	<0.5	**47**	--	**86**	--	--	--	--	--	--	--	--
SAIA-MW3B	SAIA-MW3B-0716	07/13/2016	N	**340**	<25	**3,500**	<25	<25	--	**3.9**	--	--	--	--	--	--	--	--
SAIA-MW3C	SAIA-MW3C-0314	03/24/2014	N	**2.5**	<0.5	**2.1**	<0.5	<0.5	--	--	<5	**1.5**	<5	<5	<5	<5	<5	<10
SAIA-MW3C	SAIA-MW93C-0314	03/24/2014	FD	**2.5**	<0.5	**2**	<0.5	<0.5	--	--	<5	**1.6**	<5	<5	<5	<5	<5	<10
SAIA-MW3C	SAIA-MW3C-0814	08/26/2014	N	**2.6**	<0.5	**6**	<0.5	**6.1**	--	<0.46	--	--	--	--	--	--	--	--
SAIA-MW3C	SAIA-MW3C-0716	07/13/2016	N	**5.4**	<0.5	**5.7**	<0.5	<0.5	--	**6.1**	--	--	--	--	--	--	--	--
SAIA-MW4A	SAIA-MW4A-0314	03/25/2014	N	**0.19**	<0.5	**0.53**	<0.5	<0.5	--	--	<5	**1.6**	<5	<5	<5	<5	<5	<10
SAIA-MW4A	SAIA-MW4A-0814	08/26/2014	N	<0.5	<0.5	**0.19 J**	<0.5	<0.5	--	**1.8**	--	--	--	--	--	--	--	--
SAIA-MW4A	SAIA-MW4A-0716	07/22/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	--	--	--	--	--	--	--
SAIA-MW4B	SAIA-MW4B-0314	03/25/2014	N	**130**	<25	**790**	<25	<25	--	--	<5	**58**	<5	<5	<5	<5	<5	<10
SAIA-MW4B	SAIA-MW4B-0814	08/26/2014	N	**180 J**	<0.5	**150 J**	<0.5	**6.5**	--	**60**	--	--	--	--	--	--	--	--
SAIA-MW4B	SAIA-MW94B-0814	08/26/2014	FD	**180 J**	<0.5	**150 J**	<0.5	**6.5**	--	**59 J**	--	--	--	--	--	--	--	--
SAIA-MW4B	SAIA-MW4B-0716	07/22/2016	N	**210**	<10	**6.6 J**	<10	<10	--	**62 J**	--	--	--	--	--	--	--	--
SAIA-MW4C	SAIA-MW4C-0314	03/25/2014	N	**53**	<10	**3.9 J**	<10	<10	--	--	<5	**14**	<5	<5	<5	<5	<5	<10
SAIA-MW4C	SAIA-MW4C-0814	08/26/2014	N	**73**	<0.5	**3.4**	<0.5	**11**	--	**11 J**	--	--	--	--	--	--	--	--
SAIA-MW4C	SAIA-MW4C-0716	07/22/2016	N	**120**	<2.5	**2.7**	<2.5	**45**	--	**7.7**	--	--	--	--	--	--	--	--
SAIA-MW5A	SAIA-MW5A-0314	03/25/2014	N	**21**	<5	**1.8 J**	<5	<5	--	--	<5	**2.4**	<5	<5	<5	<5	<5	<10
SAIA-MW5A	SAIA-MW5A-0814	08/27/2014	N	**24 J**	<0.5	**1.9**	<0.5	**0.72**	--	**2.3**	--	--	--	--	--	--	--	--
SAIA-MW5A	SAIA-MW5A-0716	07/20/2016	N	**19**	<0.5	**1.3**	<0.5	<0.5	--	**1**	--	--	--	--	--	--	--	--
SAIA-MW5A	SAIA-MW95A-0716	07/20/2016	FD	**17**	<0.5	**1.2**	<0.5	<0.5	--	**1.3**	--	--	--	--	--	--	--	--
SAIA-MW5B	SAIA-MW5B-0314	03/25/2014	N	**98**	<25	**380**	<25	<25	--	--	<5	**16**	<5	<5	<5	<5	<5	<10
SAIA-MW5B	SAIA-MW5B-0814	08/27/2014	N	**120 J**	<0.5	**99 J**	<0.5	**4.5**	--	**23**	--	--	--	--	--	--	--	--
SAIA-MW5B	SAIA-MW5B-0716	07/21/2016	N	**79**	<2.5	**3**	<2.5	**20**	--	**30 J**	--	--	--	--	--	--	--	--

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
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				Volatiles (ug/L)					Perchlorates by E314.0 (in ug/L)	Semivolatiles by 8270SIM (in ug/L)	Semivolatiles by CSVOL12 (in ug/L)							
SAIA-MW5C	SAIA-MW5C-0314	03/25/2014	N	**21**	<4	**6.5**	<4	<4	--	**3.4**	<5	--	<5	<5	<5	<5	<5	<10
SAIA-MW5C	SAIA-MW5C-0814	08/27/2014	N	**25**	<0.5	**4.8**	<0.5	<0.5	--	**3.2**	--	--	--	--	--	--	--	--
SAIA-MW5C	SAIA-MW5C-0716	07/21/2016	N	**11**	<0.5	**1.6**	<0.5	<0.5	--	**2.4**	--	--	--	--	--	--	--	--
SAIA-MW6A	SAIA-MW6A-0314	03/24/2014	N	<0.5	<0.5	**0.087**	<0.5	<0.5	--	--	<5	**0.52**	<5	<5	<5	<5	<5	<10
SAIA-MW6A	SAIA-MW6A-0814	08/27/2014	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	**0.53**	--	--	--	--	--	--	--	--
SAIA-MW6A	SAIA-MW6A-0716	07/20/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	--	--	--	--	--	--	--
SAIA-MW6B	SAIA-MW6B-0314	03/24/2014	N	**3.9**	<0.5	**3.7**	<0.5	<0.5	--	--	<5	<0.5	<5	<5	<5	<5	<5	<10
SAIA-MW6B	SAIA-MW6B-0814	08/27/2014	N	**5.1**	<0.5	**3.6**	<0.5	<0.5	--	**0.26 J**	--	--	--	--	--	--	--	--
SAIA-MW6B	SAIA-MW6B-0716	07/20/2016	N	**3.7**	<0.5	**2.7**	<0.5	<0.5	--	<0.5	--	--	--	--	--	--	--	--
SAIA-MW6C	SAIA-MW6C-0314	03/24/2014	N	**2.3**	<0.5	**2**	<0.5	<0.5	--	--	<5	**0.52**	<5	<5	<5	<5	<5	<10
SAIA-MW6C	SAIA-MW6C-0814	08/27/2014	N	**2.8**	<0.5	**2.4**	<0.5	<0.5	--	**0.52**	--	--	--	--	--	--	--	--
SAIA-MW6C	SAIA-MW6C-0716	07/20/2016	N	**2.9**	<0.5	**2**	<0.5	**1.2**	--	<0.5	--	--	--	--	--	--	--	--
SAIA-MW7	SAIA-MW7-0314	03/27/2014	N	**1.1**	<0.5	**24 J**	<0.5	<0.5	<0.3	--	<5	**1.9**	<5	<5	<5	<5	<5	<10
SAIA-MW7	SAIA-MW97-0314	03/27/2014	FD	**1.1**	<0.5	**22 J**	<0.5	<0.5	<0.3	--	<5	**2**	<5	<5	<5	<5	<5	<10
SAIA-MW7	SAIA-MW7-0814	08/25/2014	N	**2.5**	<0.5	**22**	<0.5	**1.3**	--	**3.6**	--	--	--	--	--	--	--	--
SAIA-MW7	SAIA-MW7-0716	07/11/2016	N	**4.8**	<0.5	**19**	<0.5	<0.5	--	**7.9**	--	--	--	--	--	--	--	--
SAIA-MW8	SAIA-MW8-0314	03/24/2014	N	**0.08**	<0.5	**0.53**	<0.5	<0.5	--	--	<5	<0.5	<5	<5	<5	<5	<5	<10
SAIA-MW8	SAIA-MW8-0814	08/25/2014	N	**0.2 J**	<0.5	**3.9**	<0.5	<0.5	--	**0.16 J**	--	--	--	--	--	--	--	--
SAIA-MW8	SAIA-MW8-0716	07/21/2016	N	**0.31 J**	<0.5	**1.3**	<0.5	<0.5	--	<0.5	--	--	--	--	--	--	--	--
SAIA-MW9A	SAIA-MW9A-0716	07/18/2016	N	**0.13 J**	<0.5	<0.5	<0.5	<0.5	--	**7.5**	--	--	--	--	--	--	--	--
SAIA-MW9A	SAIA-MW9A-0916	09/20/2016	N	<0.5	<0.5	<0.5	<0.5	<0.5	--	**5.5 J**	--	--	--	--	--	--	--	--
SAIA-MW9B	SAIA-MW9B-0716	07/18/2016	N	**5.5**	<0.5	**0.91**	<0.5	<0.5	--	**1.2**	--	--	--	--	--	--	--	--
SAIA-MW9B	SAIA-MW9B-0916	09/20/2016	N	**1.4**	<0.5	**1.4**	<0.5	<0.5	--	**1 J**	--	--	--	--	--	--	--	--
SAIA-MW9C	SAIA-MW9C-0716	07/18/2016	N	**22**	<1	**0.7 J**	<1	<1	--	**3.6**	--	--	--	--	--	--	--	--
SAIA-MW9C	SAIA-MW99C-0716	07/18/2016	FD	**22**	<1	**0.74 J**	<1	<1	--	**1.7**	--	--	--	--	--	--	--	--
SAIA-MW9C	SAIA-MW9C-0916	09/20/2016	N	**35**	<0.5	**0.79**	<0.5	**0.71**	--	**2.1 J**	--	--	--	--	--	--	--	--

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
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				Semivolatiles by CSVOL12 (in ug/L)															
Location ID	Sample ID	Sample Date	Sample Type	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol	3,3'-Dichlorobenzidine	3-Nitroaniline	4,6-Dinitro-2-Methylphenol	4-Bromophenyl phenyl ether	4-Chloro-3-Methylphenol	4-Chloroaniline	4-Chlorophenyl Phenyl Ether	4-Methylphenol (p-Cresol)
MW-2B	38051	06/13/2011	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW32	MW32-0716	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW32	MW132-0716	07/13/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW34	MW34-0314	03/26/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
MW34	MW934-0314	03/26/2014	FD	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
MW34	MW34-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW35	MW35-0314	03/26/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
MW35	MW35-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW42	SAIA-MW42-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW42	MW42-0314	03/26/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
MW42	MW42-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW43	SAIA-MW43-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW43	MW43-0314	03/26/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
MW43	MW43-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW44	MW44-0314	03/26/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
MW44	MW44-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW45	SAIA-MW45-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW45	MW45-0314	03/25/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
MW45	MW45-0716	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW46	SAIA-MW46-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW46	SAIA-MW46-1313	03/05/2013	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW46	MW46-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
MW46	MW46-0716	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW47	SAIA-MW47-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW47	MW47-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
MW47	MW47-0716	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

				Semivolatiles by CSVOL12 (in ug/L)															
MW48	SAIA-MW48-0313	03/06/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW48	MW48-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
MW48	MW48-0716	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW49	SAIA-MW49-0313	03/06/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW49	MW49-0314	03/26/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
MW49	MW49-0716	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW49	MW149-0716	07/15/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4B	38053	06/14/2011	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW52	SAIA-MW52-0313	03/06/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW52	MW52-0314	03/25/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
MW52	MW952-0314	03/25/2014	FD	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
MW52	MW52-0716	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW56	MW56-0314	03/26/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
MW56	MW56-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW10	SAIA-MW10-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW10	SAIA-MW10-0916	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11A	SAIA-MW11A-0716	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11A	SAIA-MW11A-0916	09/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11B	SAIA-MW11B-0716	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11B	SAIA-MW11B-0916	09/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11C	SAIA-MW11C-0716	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11C	SAIA-MW11C-0916	09/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11C	SAIA-MW111C-0916	09/22/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12A	SAIA-MW12A-0716	07/25/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12A	SAIA-MW12A-0916	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12B	SAIA-MW12B-0716	07/25/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12B	SAIA-MW12B-0916	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12C	SAIA-MW12C-0716	07/25/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12C	SAIA-MW12C-0916	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW13	SAIA-MW13-0716	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW13	SAIA-MW13-0916	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1A	SAIA-MW1A-0314	03/27/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
SAIA-MW1A	SAIA-MW1A-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1A	SAIA-MW1A-0716	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1B	SAIA-MW1B-0314	03/27/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
SAIA-MW1B	SAIA-MW1B-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1B	SAIA-MW1B-0716	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1B	SAIA-MW91B-0716	07/14/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1C	SAIA-MW1C-0314	03/27/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
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				Semivolatiles by CSVOL12 (in ug/L)															
SAIA-MW1C	SAIA-MW1C-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1C	SAIA-MW1C-0716	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2A	SAIA-MW2A-0314	03/27/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
SAIA-MW2A	SAIA-MW2A-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2A	SAIA-MW92A-0814	08/25/2014	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2A	SAIA-MW2A-0716	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2B	SAIA-MW2B-0314	03/27/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
SAIA-MW2B	SAIA-MW2B-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2B	SAIA-MW2B-0716	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2C	SAIA-MW2C-0314	03/27/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
SAIA-MW2C	SAIA-MW2C-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2C	SAIA-MW2C-0716	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3A	SAIA-MW3A-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
SAIA-MW3A	SAIA-MW3A-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3A	SAIA-MW3A-0716	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3B	SAIA-MW3B-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
SAIA-MW3B	SAIA-MW3B-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3B	SAIA-MW3B-0716	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3C	SAIA-MW3C-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
SAIA-MW3C	SAIA-MW93C-0314	03/24/2014	FD	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
SAIA-MW3C	SAIA-MW3C-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3C	SAIA-MW3C-0716	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4A	SAIA-MW4A-0314	03/25/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
SAIA-MW4A	SAIA-MW4A-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4A	SAIA-MW4A-0716	07/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4B	SAIA-MW4B-0314	03/25/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
SAIA-MW4B	SAIA-MW4B-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4B	SAIA-MW94B-0814	08/26/2014	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4B	SAIA-MW4B-0716	07/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4C	SAIA-MW4C-0314	03/25/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
SAIA-MW4C	SAIA-MW4C-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4C	SAIA-MW4C-0716	07/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5A	SAIA-MW5A-0314	03/25/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
SAIA-MW5A	SAIA-MW5A-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5A	SAIA-MW5A-0716	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5A	SAIA-MW95A-0716	07/20/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5B	SAIA-MW5B-0314	03/25/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
SAIA-MW5B	SAIA-MW5B-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5B	SAIA-MW5B-0716	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

				Semivolatiles by CSVOL12 (in ug/L)															
SAIA-MW5C	SAIA-MW5C-0314	03/25/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
SAIA-MW5C	SAIA-MW5C-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5C	SAIA-MW5C-0716	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6A	SAIA-MW6A-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
SAIA-MW6A	SAIA-MW6A-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6A	SAIA-MW6A-0716	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6B	SAIA-MW6B-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
SAIA-MW6B	SAIA-MW6B-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6B	SAIA-MW6B-0716	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6C	SAIA-MW6C-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
SAIA-MW6C	SAIA-MW6C-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6C	SAIA-MW6C-0716	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW7	SAIA-MW7-0314	03/27/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
SAIA-MW7	SAIA-MW97-0314	03/27/2014	FD	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
SAIA-MW7	SAIA-MW7-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW7	SAIA-MW7-0716	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW8	SAIA-MW8-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5
SAIA-MW8	SAIA-MW8-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW8	SAIA-MW8-0716	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9A	SAIA-MW9A-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9A	SAIA-MW9A-0916	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9B	SAIA-MW9B-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9B	SAIA-MW9B-0916	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9C	SAIA-MW9C-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9C	SAIA-MW99C-0716	07/18/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9C	SAIA-MW9C-0916	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Semivolatiles by CSVOL12 (in ug/L)														
Location ID	Sample ID	Sample Date	Sample Type	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzaldehyde	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzyl butyl phthalate	Biphenyl (Diphenyl)	bis(2-Chloroethoxy) Methane
MW-2B	38051	06/13/2011	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW32	MW32-0716	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW32	MW132-0716	07/13/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW34	MW34-0314	03/26/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW34	MW934-0314	03/26/2014	FD	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW34	MW34-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW35	MW35-0314	03/26/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW35	MW35-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW42	SAIA-MW42-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW42	MW42-0314	03/26/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW42	MW42-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW43	SAIA-MW43-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW43	MW43-0314	03/26/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW43	MW43-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW44	MW44-0314	03/26/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW44	MW44-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW45	SAIA-MW45-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW45	MW45-0314	03/25/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW45	MW45-0716	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW46	SAIA-MW46-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW46	SAIA-MW46-1313	03/05/2013	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW46	MW46-0314	03/24/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW46	MW46-0716	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW47	SAIA-MW47-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW47	MW47-0314	03/24/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW47	MW47-0716	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
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					Semivolatiles by CSVOL12 (in ug/L)														
MW48	SAIA-MW48-0313	03/06/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW48	MW48-0314	03/24/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW48	MW48-0716	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW49	SAIA-MW49-0313	03/06/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW49	MW49-0314	03/26/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW49	MW49-0716	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW49	MW149-0716	07/15/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4B	38053	06/14/2011	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW52	SAIA-MW52-0313	03/06/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW52	MW52-0314	03/25/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW52	MW952-0314	03/25/2014	FD	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW52	MW52-0716	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW56	MW56-0314	03/26/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW56	MW56-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW10	SAIA-MW10-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW10	SAIA-MW10-0916	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11A	SAIA-MW11A-0716	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11A	SAIA-MW11A-0916	09/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11B	SAIA-MW11B-0716	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11B	SAIA-MW11B-0916	09/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11C	SAIA-MW11C-0716	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11C	SAIA-MW11C-0916	09/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11C	SAIA-MW111C-0916	09/22/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12A	SAIA-MW12A-0716	07/25/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12A	SAIA-MW12A-0916	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12B	SAIA-MW12B-0716	07/25/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12B	SAIA-MW12B-0916	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12C	SAIA-MW12C-0716	07/25/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12C	SAIA-MW12C-0916	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW13	SAIA-MW13-0716	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW13	SAIA-MW13-0916	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1A	SAIA-MW1A-0314	03/27/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW1A	SAIA-MW1A-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1A	SAIA-MW1A-0716	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1B	SAIA-MW1B-0314	03/27/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW1B	SAIA-MW1B-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1B	SAIA-MW1B-0716	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1B	SAIA-MW91B-0716	07/14/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1C	SAIA-MW1C-0314	03/27/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

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Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
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					Semivolatiles by CSVOL12 (in ug/L)														
SAIA-MW1C	SAIA-MW1C-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1C	SAIA-MW1C-0716	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2A	SAIA-MW2A-0314	03/27/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW2A	SAIA-MW2A-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2A	SAIA-MW92A-0814	08/25/2014	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2A	SAIA-MW2A-0716	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2B	SAIA-MW2B-0314	03/27/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW2B	SAIA-MW2B-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2B	SAIA-MW2B-0716	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2C	SAIA-MW2C-0314	03/27/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW2C	SAIA-MW2C-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2C	SAIA-MW2C-0716	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3A	SAIA-MW3A-0314	03/24/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW3A	SAIA-MW3A-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3A	SAIA-MW3A-0716	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3B	SAIA-MW3B-0314	03/24/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW3B	SAIA-MW3B-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3B	SAIA-MW3B-0716	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3C	SAIA-MW3C-0314	03/24/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW3C	SAIA-MW93C-0314	03/24/2014	FD	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW3C	SAIA-MW3C-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3C	SAIA-MW3C-0716	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4A	SAIA-MW4A-0314	03/25/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW4A	SAIA-MW4A-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4A	SAIA-MW4A-0716	07/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4B	SAIA-MW4B-0314	03/25/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW4B	SAIA-MW4B-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4B	SAIA-MW94B-0814	08/26/2014	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4B	SAIA-MW4B-0716	07/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4C	SAIA-MW4C-0314	03/25/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW4C	SAIA-MW4C-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4C	SAIA-MW4C-0716	07/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5A	SAIA-MW5A-0314	03/25/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW5A	SAIA-MW5A-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5A	SAIA-MW5A-0716	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5A	SAIA-MW95A-0716	07/20/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5B	SAIA-MW5B-0314	03/25/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW5B	SAIA-MW5B-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5B	SAIA-MW5B-0716	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Semivolatiles by CSVOL12 (in ug/L)														
SAIA-MW5C	SAIA-MW5C-0314	03/25/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW5C	SAIA-MW5C-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5C	SAIA-MW5C-0716	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6A	SAIA-MW6A-0314	03/24/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW6A	SAIA-MW6A-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6A	SAIA-MW6A-0716	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6B	SAIA-MW6B-0314	03/24/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW6B	SAIA-MW6B-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6B	SAIA-MW6B-0716	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6C	SAIA-MW6C-0314	03/24/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW6C	SAIA-MW6C-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6C	SAIA-MW6C-0716	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW7	SAIA-MW7-0314	03/27/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW7	SAIA-MW97-0314	03/27/2014	FD	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW7	SAIA-MW7-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW7	SAIA-MW7-0716	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW8	SAIA-MW8-0314	03/24/2014	N	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW8	SAIA-MW8-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW8	SAIA-MW8-0716	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9A	SAIA-MW9A-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9A	SAIA-MW9A-0916	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9B	SAIA-MW9B-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9B	SAIA-MW9B-0916	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9C	SAIA-MW9C-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9C	SAIA-MW99C-0716	07/18/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9C	SAIA-MW9C-0916	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Semivolatiles by CSVOL12 (in ug/L)														
Location ID	Sample ID	Sample Date	Sample Type	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	bis(2-Chloroisopropyl) Ether	bis(2-Ethylhexyl) Phthalate	Caprolactam	Carbazole	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Phthalate	Dimethyl Phthalate	Di-n-Butyl Phthalate	Di-n-Octylphthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene
MW-2B	38051	06/13/2011	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW32	MW32-0716	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW32	MW132-0716	07/13/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW34	MW34-0314	03/26/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW34	MW934-0314	03/26/2014	FD	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW34	MW34-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW35	MW35-0314	03/26/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW35	MW35-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW42	SAIA-MW42-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW42	MW42-0314	03/26/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW42	MW42-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW43	SAIA-MW43-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW43	MW43-0314	03/26/2014	N	<5	<5	**3.4 J**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW43	MW43-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW44	MW44-0314	03/26/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW44	MW44-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW45	SAIA-MW45-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW45	MW45-0314	03/25/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW45	MW45-0716	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW46	SAIA-MW46-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW46	SAIA-MW46-1313	03/05/2013	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW46	MW46-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW46	MW46-0716	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW47	SAIA-MW47-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW47	MW47-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW47	MW47-0716	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Semivolatiles by CSVOL12 (in ug/L)														
MW48	SAIA-MW48-0313	03/06/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW48	MW48-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW48	MW48-0716	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW49	SAIA-MW49-0313	03/06/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW49	MW49-0314	03/26/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW49	MW49-0716	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW49	MW149-0716	07/15/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4B	38053	06/14/2011	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW52	SAIA-MW52-0313	03/06/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW52	MW52-0314	03/25/2014	N	<5	<5	**2.3**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW52	MW952-0314	03/25/2014	FD	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW52	MW52-0716	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW56	MW56-0314	03/26/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW56	MW56-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW10	SAIA-MW10-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW10	SAIA-MW10-0916	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11A	SAIA-MW11A-0716	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11A	SAIA-MW11A-0916	09/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11B	SAIA-MW11B-0716	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11B	SAIA-MW11B-0916	09/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11C	SAIA-MW11C-0716	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11C	SAIA-MW11C-0916	09/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11C	SAIA-MW111C-0916	09/22/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12A	SAIA-MW12A-0716	07/25/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12A	SAIA-MW12A-0916	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12B	SAIA-MW12B-0716	07/25/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12B	SAIA-MW12B-0916	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12C	SAIA-MW12C-0716	07/25/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12C	SAIA-MW12C-0916	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW13	SAIA-MW13-0716	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW13	SAIA-MW13-0916	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1A	SAIA-MW1A-0314	03/27/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW1A	SAIA-MW1A-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1A	SAIA-MW1A-0716	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1B	SAIA-MW1B-0314	03/27/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW1B	SAIA-MW1B-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1B	SAIA-MW1B-0716	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1B	SAIA-MW91B-0716	07/14/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1C	SAIA-MW1C-0314	03/27/2014	N	<5	<5	<5	<5	**7.1**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

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Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Semivolatiles by CSVOL12 (in ug/L)														
SAIA-MW1C	SAIA-MW1C-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1C	SAIA-MW1C-0716	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2A	SAIA-MW2A-0314	03/27/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW2A	SAIA-MW2A-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2A	SAIA-MW92A-0814	08/25/2014	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2A	SAIA-MW2A-0716	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2B	SAIA-MW2B-0314	03/27/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW2B	SAIA-MW2B-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2B	SAIA-MW2B-0716	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2C	SAIA-MW2C-0314	03/27/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW2C	SAIA-MW2C-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2C	SAIA-MW2C-0716	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3A	SAIA-MW3A-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW3A	SAIA-MW3A-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3A	SAIA-MW3A-0716	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3B	SAIA-MW3B-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW3B	SAIA-MW3B-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3B	SAIA-MW3B-0716	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3C	SAIA-MW3C-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW3C	SAIA-MW93C-0314	03/24/2014	FD	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW3C	SAIA-MW3C-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3C	SAIA-MW3C-0716	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4A	SAIA-MW4A-0314	03/25/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW4A	SAIA-MW4A-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4A	SAIA-MW4A-0716	07/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4B	SAIA-MW4B-0314	03/25/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW4B	SAIA-MW4B-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4B	SAIA-MW94B-0814	08/26/2014	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4B	SAIA-MW4B-0716	07/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4C	SAIA-MW4C-0314	03/25/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW4C	SAIA-MW4C-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4C	SAIA-MW4C-0716	07/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5A	SAIA-MW5A-0314	03/25/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW5A	SAIA-MW5A-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5A	SAIA-MW5A-0716	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5A	SAIA-MW95A-0716	07/20/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5B	SAIA-MW5B-0314	03/25/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW5B	SAIA-MW5B-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5B	SAIA-MW5B-0716	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Semivolatiles by CSVOL12 (in ug/L)														
SAIA-MW5C	SAIA-MW5C-0314	03/25/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW5C	SAIA-MW5C-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5C	SAIA-MW5C-0716	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6A	SAIA-MW6A-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW6A	SAIA-MW6A-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6A	SAIA-MW6A-0716	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6B	SAIA-MW6B-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW6B	SAIA-MW6B-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6B	SAIA-MW6B-0716	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6C	SAIA-MW6C-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW6C	SAIA-MW6C-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6C	SAIA-MW6C-0716	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW7	SAIA-MW7-0314	03/27/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW7	SAIA-MW97-0314	03/27/2014	FD	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW7	SAIA-MW7-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW7	SAIA-MW7-0716	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW8	SAIA-MW8-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-MW8	SAIA-MW8-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW8	SAIA-MW8-0716	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9A	SAIA-MW9A-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9A	SAIA-MW9A-0916	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9B	SAIA-MW9B-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9B	SAIA-MW9B-0916	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9C	SAIA-MW9C-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9C	SAIA-MW99C-0716	07/18/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9C	SAIA-MW9C-0916	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Semivolatiles by CSVOL12 (in ug/L)											Metals by E200.7 (in ug/L)			
Location ID	Sample ID	Sample Date	Sample Type	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-c,d)pyrene	Isophorone	Naphthalene	Nitrobenzene	n-Nitrosodi-n-propylamine	n-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Calcium	Iron	Magnesium	Potassium
MW-2B	38051	06/13/2011	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW32	MW32-0716	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW32	MW132-0716	07/13/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW34	MW34-0314	03/26/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**126,000**	**1,340**	**40,300**	<5000
MW34	MW934-0314	03/26/2014	FD	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**126,000**	**1,250**	**40,500**	<5000
MW34	MW34-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW35	MW35-0314	03/26/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**580,000**	**4,340**	**214,000**	**7,670**
MW35	MW35-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW42	SAIA-MW42-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW42	MW42-0314	03/26/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**210,000**	**58,100**	**75,500**	**11,700**
MW42	MW42-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW43	SAIA-MW43-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW43	MW43-0314	03/26/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**457,000**	**4,780**	**167,000**	**5,710**
MW43	MW43-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW44	MW44-0314	03/26/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**493,000**	**4,860**	**204,000**	**7,170**
MW44	MW44-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW45	SAIA-MW45-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW45	MW45-0314	03/25/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**339,000**	**2,430**	**111,000**	**3,700 J**
MW45	MW45-0716	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW46	SAIA-MW46-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW46	SAIA-MW46-1313	03/05/2013	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW46	MW46-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**126,000**	**1,050**	**42,600**	**6,800**
MW46	MW46-0716	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW47	SAIA-MW47-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW47	MW47-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**143,000**	**1,210**	**43,000**	**2,860 J**
MW47	MW47-0716	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Semivolatiles by CSVOL12 (in ug/L)											Metals by E200.7 (in ug/L)			
MW48	SAIA-MW48-0313	03/06/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW48	MW48-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**395,000**	**2,350**	**131,000**	**4,440 J**
MW48	MW48-0716	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW49	SAIA-MW49-0313	03/06/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW49	MW49-0314	03/26/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**433,000**	**5,640**	**177,000**	**9,470**
MW49	MW49-0716	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW49	MW149-0716	07/15/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4B	38053	06/14/2011	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW52	SAIA-MW52-0313	03/06/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW52	MW52-0314	03/25/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**395,000**	**3,710**	**142,000**	**5,750**
MW52	MW952-0314	03/25/2014	FD	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**395,000**	**3,740**	**142,000**	**5,740**
MW52	MW52-0716	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW56	MW56-0314	03/26/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**178,000**	**1,870**	**43,000**	<5000
MW56	MW56-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW10	SAIA-MW10-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW10	SAIA-MW10-0916	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11A	SAIA-MW11A-0716	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11A	SAIA-MW11A-0916	09/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11B	SAIA-MW11B-0716	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11B	SAIA-MW11B-0916	09/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11C	SAIA-MW11C-0716	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11C	SAIA-MW11C-0916	09/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11C	SAIA-MW111C-0916	09/22/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12A	SAIA-MW12A-0716	07/25/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12A	SAIA-MW12A-0916	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12B	SAIA-MW12B-0716	07/25/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12B	SAIA-MW12B-0916	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12C	SAIA-MW12C-0716	07/25/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12C	SAIA-MW12C-0916	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW13	SAIA-MW13-0716	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW13	SAIA-MW13-0916	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1A	SAIA-MW1A-0314	03/27/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**105,000**	**2,700**	**38,600**	**7,630 J**
SAIA-MW1A	SAIA-MW1A-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1A	SAIA-MW1A-0716	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1B	SAIA-MW1B-0314	03/27/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**421,000**	**3,350**	**147,000**	<5000
SAIA-MW1B	SAIA-MW1B-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1B	SAIA-MW1B-0716	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1B	SAIA-MW91B-0716	07/14/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1C	SAIA-MW1C-0314	03/27/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**467,000**	**4,970**	**142,000**	**7,160**

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South Gate, California

					Semivolatiles by CSVOL12 (in ug/L)											Metals by E200.7 (in ug/L)			
SAIA-MW1C	SAIA-MW1C-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1C	SAIA-MW1C-0716	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2A	SAIA-MW2A-0314	03/27/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**122,000**	**883**	**35,800**	<5000
SAIA-MW2A	SAIA-MW2A-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2A	SAIA-MW92A-0814	08/25/2014	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2A	SAIA-MW2A-0716	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2B	SAIA-MW2B-0314	03/27/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**398,000**	**2,880**	**136,000**	<5000
SAIA-MW2B	SAIA-MW2B-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2B	SAIA-MW2B-0716	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2C	SAIA-MW2C-0314	03/27/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**457,000**	**3,220**	**153,000**	**5,770**
SAIA-MW2C	SAIA-MW2C-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2C	SAIA-MW2C-0716	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3A	SAIA-MW3A-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**238,000**	**12,900**	**68,900**	**7,740**
SAIA-MW3A	SAIA-MW3A-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3A	SAIA-MW3A-0716	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3B	SAIA-MW3B-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**141,000**	**540**	**42,400**	**4,230 J**
SAIA-MW3B	SAIA-MW3B-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3B	SAIA-MW3B-0716	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3C	SAIA-MW3C-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**497,000**	**3,710**	**154,000**	**6,850**
SAIA-MW3C	SAIA-MW93C-0314	03/24/2014	FD	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**499,000**	**3,490**	**155,000**	**6,750**
SAIA-MW3C	SAIA-MW3C-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3C	SAIA-MW3C-0716	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4A	SAIA-MW4A-0314	03/25/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**170,000**	**2,170**	**55,400**	**6,150**
SAIA-MW4A	SAIA-MW4A-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4A	SAIA-MW4A-0716	07/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4B	SAIA-MW4B-0314	03/25/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**177,000**	**803**	**48,700**	**4,640 J**
SAIA-MW4B	SAIA-MW4B-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4B	SAIA-MW94B-0814	08/26/2014	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4B	SAIA-MW4B-0716	07/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4C	SAIA-MW4C-0314	03/25/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**348,000**	**2,160**	**100,000**	**5,210**
SAIA-MW4C	SAIA-MW4C-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4C	SAIA-MW4C-0716	07/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5A	SAIA-MW5A-0314	03/25/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**330,000**	**3,440**	**110,000**	**9,010**
SAIA-MW5A	SAIA-MW5A-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5A	SAIA-MW5A-0716	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5A	SAIA-MW95A-0716	07/20/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5B	SAIA-MW5B-0314	03/25/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**276,000**	**2,520**	**87,800**	**4,900 J**
SAIA-MW5B	SAIA-MW5B-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5B	SAIA-MW5B-0716	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Semivolatiles by CSVOL12 (in ug/L)											Metals by E200.7 (in ug/L)			
SAIA-MW5C	SAIA-MW5C-0314	03/25/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**507,000**	**1,820**	**147,000**	**7,330**
SAIA-MW5C	SAIA-MW5C-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5C	SAIA-MW5C-0716	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6A	SAIA-MW6A-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**31,800**	**12,300**	**13,300**	**4,000 J**
SAIA-MW6A	SAIA-MW6A-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6A	SAIA-MW6A-0716	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6B	SAIA-MW6B-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**408,000**	**1,600**	**110,000**	**12,400**
SAIA-MW6B	SAIA-MW6B-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6B	SAIA-MW6B-0716	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6C	SAIA-MW6C-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**499,000**	**2,270**	**130,000**	**8,710**
SAIA-MW6C	SAIA-MW6C-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6C	SAIA-MW6C-0716	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW7	SAIA-MW7-0314	03/27/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**714,000**	**1,370**	**166,000**	**5,930 J**
SAIA-MW7	SAIA-MW97-0314	03/27/2014	FD	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**737,000**	**419**	**171,000**	**5,850 J**
SAIA-MW7	SAIA-MW7-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW7	SAIA-MW7-0716	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW8	SAIA-MW8-0314	03/24/2014	N	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	**374,000**	**874**	**80,500**	**5,180**
SAIA-MW8	SAIA-MW8-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW8	SAIA-MW8-0716	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9A	SAIA-MW9A-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9A	SAIA-MW9A-0916	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9B	SAIA-MW9B-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9B	SAIA-MW9B-0916	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9C	SAIA-MW9C-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9C	SAIA-MW99C-0716	07/18/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9C	SAIA-MW9C-0916	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Metals by E200.8 (in ug/L)														
Location ID	Sample ID	Sample Date	Sample Type	Sodium	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Nickel	Selenium	Silver	Thallium
MW-2B	38051	06/13/2011	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW32	MW32-0716	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW32	MW132-0716	07/13/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW34	MW34-0314	03/26/2014	N	**374,000**	<20	<2	**100**	**52.6**	<1	<1	**7.5 J**	**11.3**	**1.4 J**	**0.64 J**	**816**	**4.3 J**	**2.3 J**	**0.06 J**	<1
MW34	MW934-0314	03/26/2014	FD	**373,000**	<20	<2	**102**	**54.6**	<1	<1	**5 J**	**11.5**	**2.7**	**0.62 J**	**844**	**3.9 J**	**1.6 J**	**0.073 J**	<1
MW34	MW34-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW35	MW35-0314	03/26/2014	N	**842,000**	**79.8**	<2	**22.5**	**28.9**	<1	**1.3**	**5.2 J**	**48.7**	**2.9**	**1.3**	**4,340**	**5 J**	**1.7 J**	**0.12 J**	<1
MW35	MW35-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW42	SAIA-MW42-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW42	MW42-0314	03/26/2014	N	**221,000**	**31,300**	<2	**78.3**	**457**	**0.75 J**	**1.3**	**79.1**	**43.9**	**57.5**	**20.3**	**2,120**	**73.4**	<10	**0.14 J**	<1
MW42	MW42-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW43	SAIA-MW43-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW43	MW43-0314	03/26/2014	N	**673,000**	**1,150**	<2	**31.2**	**46.2**	<2	**0.38 J**	**24.7 J**	**40.1**	**5.6**	**1.3**	**3,830**	**20**	<10	**0.096 J**	**0.08 J**
MW43	MW43-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW44	MW44-0314	03/26/2014	N	**909,000**	**136**	<2	**31.6**	**23.8**	<2	<1	**9.5 J**	**44.3**	**2.4 J**	**0.37 J**	**4,330**	**7.2 J**	<10	**0.1 J**	<1
MW44	MW44-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW45	SAIA-MW45-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW45	MW45-0314	03/25/2014	N	**201,000**	**268**	<2	**21.6**	**41.2**	<1	**0.28 J**	**12.7**	**0.65 J**	**2.7**	**1.6**	**1,940**	**10.9**	<5	**0.048 J**	<1
MW45	MW45-0716	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW46	SAIA-MW46-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW46	SAIA-MW46-1313	03/05/2013	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW46	MW46-0314	03/24/2014	N	**439,000**	**57.3**	<2	**50**	**42.3**	<1	**0.17 J**	**3.8**	**0.25 J**	**7.3**	**0.43 J**	**764**	**3.1**	<5	**0.088 J**	<1
MW46	MW46-0716	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW47	SAIA-MW47-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW47	MW47-0314	03/24/2014	N	**199,000**	**303**	<2	**34**	**50.1**	<1	<1	**5**	**0.52 J**	**2.4**	**1.2**	**1,040**	**4.3**	<5	**0.057 J**	<1
MW47	MW47-0716	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E-3
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Southern Avenue Industrial Area Superfund Site
South Gate, California

					Metals by E200.8 (in ug/L)														
MW48	SAIA-MW48-0313	03/06/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW48	MW48-0314	03/24/2014	N	**241,000**	<20	<2	**24.2**	**44**	<1	**0.5 J**	**3.6**	**0.3 J**	**2.2**	**0.33 J**	**2,550**	**4.4**	<5	**0.076 J**	<1
MW48	MW48-0716	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW49	SAIA-MW49-0313	03/06/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW49	MW49-0314	03/26/2014	N	**754,000**	**618**	<2	**66.5**	**37.6**	<2	**0.12 J**	**67.9**	**43.4**	**8.2**	**0.69 J**	**3,930**	**145**	<10	**0.14 J**	<1
MW49	MW49-0716	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW49	MW149-0716	07/15/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4B	38053	06/14/2011	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW52	SAIA-MW52-0313	03/06/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW52	MW52-0314	03/25/2014	N	**340,000**	**52.9**	<2	**26.8**	**46.8**	<1	<1	**5.1**	**0.68 J**	**2.4**	**0.8 J**	**3,520**	**5**	<5	**0.061 J**	<1
MW52	MW952-0314	03/25/2014	FD	**340,000**	**83.5**	<2	**23.3**	**45.8**	<1	<1	**7.6**	**0.72 J**	**2.6**	**0.41 J**	**3,370**	**4.7**	<5	**0.076 J**	<1
MW52	MW52-0716	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW56	MW56-0314	03/26/2014	N	**190,000**	**407**	<2	**24.2**	**80.5**	<2	<1	**4.9 J**	**15.3**	**2.4 J**	**0.73 J**	**1,350**	**4.5 J**	<10	<1	<1
MW56	MW56-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW10	SAIA-MW10-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW10	SAIA-MW10-0916	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11A	SAIA-MW11A-0716	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11A	SAIA-MW11A-0916	09/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11B	SAIA-MW11B-0716	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11B	SAIA-MW11B-0916	09/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11C	SAIA-MW11C-0716	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11C	SAIA-MW11C-0916	09/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11C	SAIA-MW111C-0916	09/22/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12A	SAIA-MW12A-0716	07/25/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12A	SAIA-MW12A-0916	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12B	SAIA-MW12B-0716	07/25/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12B	SAIA-MW12B-0916	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12C	SAIA-MW12C-0716	07/25/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12C	SAIA-MW12C-0916	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW13	SAIA-MW13-0716	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW13	SAIA-MW13-0916	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1A	SAIA-MW1A-0314	03/27/2014	N	**163,000**	**1,330**	<2	**16.1**	**95.1**	<2	<1	**20.5 J**	**10.7**	**5.4**	**1.6**	**480**	**12.7 J**	<10	**0.15 J**	<1
SAIA-MW1A	SAIA-MW1A-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1A	SAIA-MW1A-0716	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1B	SAIA-MW1B-0314	03/27/2014	N	**358,000**	**366**	<2	**23.8**	**67.4**	<2	<1	**7.1 J**	**37.7**	**2 J**	**0.57 J**	**2,510**	**7.8 J**	<10	<1	<1
SAIA-MW1B	SAIA-MW1B-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1B	SAIA-MW1B-0716	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1B	SAIA-MW91B-0716	07/14/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1C	SAIA-MW1C-0314	03/27/2014	N	**839,000**	**176**	<2	**7.4**	**37**	<2	<1	**12.5 J**	**41.9**	**2.3 J**	**1**	**3,240**	**8.7 J**	**0.99 J**	**0.081 J**	**0.082 J**

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
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					Metals by E200.8 (in ug/L)														
SAIA-MW1C	SAIA-MW1C-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1C	SAIA-MW1C-0716	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2A	SAIA-MW2A-0314	03/27/2014	N	**177,000**	**349**	<2	**29.6**	**129**	<2	<1	**5.6 J**	**11.3**	**2.4 J**	**1.3**	**674**	**4.7 J**	**0.6 J**	<1	<1
SAIA-MW2A	SAIA-MW2A-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2A	SAIA-MW92A-0814	08/25/2014	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2A	SAIA-MW2A-0716	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2B	SAIA-MW2B-0314	03/27/2014	N	**285,000**	**88.2**	<2	**24.9**	**44.5**	<2	<1	**4.2 J**	**34.6**	**7.7**	**2.7**	**2,290**	**4.5 J**	<10	<1	<1
SAIA-MW2B	SAIA-MW2B-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2B	SAIA-MW2B-0716	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2C	SAIA-MW2C-0314	03/27/2014	N	**666,000**	**182**	<2	**21.8**	**30.4**	<2	<1	**4.2 J**	**43.1**	**2 J**	**0.38 J**	**3,370**	**4.7 J**	**1.1 J**	**0.069 J**	<1
SAIA-MW2C	SAIA-MW2C-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2C	SAIA-MW2C-0716	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3A	SAIA-MW3A-0314	03/24/2014	N	**156,000**	**8,320**	<2	**41.7**	**147**	**0.36 J**	**0.1 J**	**20.2**	**6.7**	**21.9**	**6.2**	**1,430**	**16.7**	**5.1**	**0.21 J**	<1
SAIA-MW3A	SAIA-MW3A-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3A	SAIA-MW3A-0716	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3B	SAIA-MW3B-0314	03/24/2014	N	**160,000**	**108**	<2	**18.6**	**43**	<1	<1	**8.2**	**0.74 J**	**2.1**	**0.62 J**	**766**	**5.6**	<5	**0.078 J**	<1
SAIA-MW3B	SAIA-MW3B-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3B	SAIA-MW3B-0716	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3C	SAIA-MW3C-0314	03/24/2014	N	**308,000**	**235**	<2	**6.4**	**59.8**	<1	<1	**7.8**	**0.62 J**	**3**	**0.75 J**	**3,050**	**7.5**	<5	**0.052 J**	<1
SAIA-MW3C	SAIA-MW93C-0314	03/24/2014	FD	**307,000**	**161**	<2	**6.4**	**58.1**	<1	<1	**8.4**	**0.56 J**	**2.6**	**0.46 J**	**2,970**	**7**	<5	**0.066 J**	<1
SAIA-MW3C	SAIA-MW3C-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3C	SAIA-MW3C-0716	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4A	SAIA-MW4A-0314	03/25/2014	N	**263,000**	**980**	<2	**47.3**	**96.6**	<1	<1	**8.6**	**1.1**	**4.5**	**0.94 J**	**1,080**	**6.9**	**6.6**	<1	<1
SAIA-MW4A	SAIA-MW4A-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4A	SAIA-MW4A-0716	07/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4B	SAIA-MW4B-0314	03/25/2014	N	**162,000**	**157**	<2	**16.9**	**36.1**	<1	<1	**6.7**	**0.5 J**	**2.1**	**0.59 J**	**957**	**3.7**	<5	**0.11 J**	<1
SAIA-MW4B	SAIA-MW4B-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4B	SAIA-MW94B-0814	08/26/2014	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4B	SAIA-MW4B-0716	07/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4C	SAIA-MW4C-0314	03/25/2014	N	**280,000**	**382**	<2	**8.3**	**45.1**	<1	<1	**9**	**0.8 J**	**2.5**	**0.8 J**	**2,420**	**7.9**	<5	<1	<1
SAIA-MW4C	SAIA-MW4C-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4C	SAIA-MW4C-0716	07/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5A	SAIA-MW5A-0314	03/25/2014	N	**366,000**	**1,340**	<2	**15.7**	**62**	<1	<1	**19**	**2.5**	**8.2**	**1.8**	**2,250**	**14**	<5	**0.08 J**	<1
SAIA-MW5A	SAIA-MW5A-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5A	SAIA-MW5A-0716	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5A	SAIA-MW95A-0716	07/20/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5B	SAIA-MW5B-0314	03/25/2014	N	**337,000**	**611**	<2	**18.1**	**47.2**	<1	<1	**14.2**	**1.2**	**4.9**	**1**	**1,930**	**10.7**	<5	**0.089 J**	<1
SAIA-MW5B	SAIA-MW5B-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5B	SAIA-MW5B-0716	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
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					Metals by E200.8 (in ug/L)													
SAIA-MW5C	SAIA-MW5C-0314	03/25/2014	N	**299,000**	**297**	<2	**4.9**	**51.5**	<1	<1	**6.3**	**1.1**	**3.1**	**0.68 J**	**3,050**	**7.5**	<5	**0.055 J**	<1
SAIA-MW5C	SAIA-MW5C-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5C	SAIA-MW5C-0716	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6A	SAIA-MW6A-0314	03/24/2014	N	**255,000**	**7,550**	<2	**16**	**112**	**0.36 J**	**0.15 J**	**27.1**	**6.7**	**29.4**	**7.4**	**454**	**22.4**	<5	**0.21 J**	<1
SAIA-MW6A	SAIA-MW6A-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6A	SAIA-MW6A-0716	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6B	SAIA-MW6B-0314	03/24/2014	N	**719,000**	**415**	<2	**5.9**	**49.1**	<1	<1	**10.7**	**0.73 J**	**4.6**	**0.45 J**	**1,800**	**7**	**12**	**0.049 J**	<1
SAIA-MW6B	SAIA-MW6B-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6B	SAIA-MW6B-0716	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6C	SAIA-MW6C-0314	03/24/2014	N	**492,000**	**237**	<2	**4.2**	**52.5**	<1	<1	**18.6**	**0.86 J**	**3.5**	**2**	**2,300**	**13.8**	**12.3**	**0.071 J**	<1
SAIA-MW6C	SAIA-MW6C-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6C	SAIA-MW6C-0716	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW7	SAIA-MW7-0314	03/27/2014	N	**359,000**	**927**	<2	**4.7**	**92.1**	<2	**0.17 J**	**12.2 J**	**63.8**	**4.9**	**1.6**	**3,550**	**18.9 J**	<10	<1	<1
SAIA-MW7	SAIA-MW97-0314	03/27/2014	FD	**368,000**	**302**	<2	**3.3**	**62.4**	<1	<1	**3.2 J**	**59.4**	**2.3**	**0.74 J**	**3,530**	**6.7 J**	<5	**0.06 J**	<1
SAIA-MW7	SAIA-MW7-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW7	SAIA-MW7-0716	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW8	SAIA-MW8-0314	03/24/2014	N	**142,000**	**178**	<2	**8.9**	**82.6**	<1	<1	**8.4**	**0.54 J**	**2.3**	**0.83 J**	**703**	**5.5**	<5	**0.27 J**	<1
SAIA-MW8	SAIA-MW8-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW8	SAIA-MW8-0716	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9A	SAIA-MW9A-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9A	SAIA-MW9A-0916	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9B	SAIA-MW9B-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9B	SAIA-MW9B-0916	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9C	SAIA-MW9C-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9C	SAIA-MW99C-0716	07/18/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9C	SAIA-MW9C-0916	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Metals by E200.8 (in ug/L)	Metals by SW7470A (in ug/L)	PCBs by SW8082 (in ug/L)									Alkalinity by A2320 (in ug/L)			
Location ID	Sample ID	Sample Date	Sample Type	Vanadium	Zinc	Mercury	PCB-1016 (Arochlor 1016)	PCB-1221 (Arochlor 1221)	PCB-1232 (Arochlor 1232)	PCB-1242 (Arochlor 1242)	PCB-1248 (Arochlor 1248)	PCB-1254 (Arochlor 1254)	PCB-1260 (Arochlor 1260)	PCB-1262 (Arochlor 1262)	PCB-1268 (Arochlor 1268)	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Alkalinity, Hydroxide (as CaCO3)	Alkalinity, Total (as CaCO3)
MW-2B	38051	06/13/2011	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW32	MW32-0716	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW32	MW132-0716	07/13/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW34	MW34-0314	03/26/2014	N	<5	**5.4 J**	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**930,000**	<10000	<10000	**930,000**
MW34	MW934-0314	03/26/2014	FD	<5	**6.2 J**	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**900,000**	<10000	<10000	**900,000**
MW34	MW34-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW35	MW35-0314	03/26/2014	N	<5	**17.2 J**	<0.2	--	--	--	--	--	--	--	--	--	**670,000**	<10000	<10000	**670,000**
MW35	MW35-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW42	SAIA-MW42-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW42	MW42-0314	03/26/2014	N	**53.5 J**	**157**	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**860,000**	<10000	<10000	**860,000**
MW42	MW42-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW43	SAIA-MW43-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW43	MW43-0314	03/26/2014	N	<10	**10.9 J**	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**690,000**	<10000	<10000	**690,000**
MW43	MW43-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW44	MW44-0314	03/26/2014	N	<10	**11.1 J**	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**640,000**	<10000	<10000	**640,000**
MW44	MW44-0716	07/12/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW45	SAIA-MW45-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW45	MW45-0314	03/25/2014	N	<5	**12.8**	<0.2	--	--	--	--	--	--	--	--	--	**580,000**	<10000	<10000	**580,000**
MW45	MW45-0716	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW46	SAIA-MW46-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW46	SAIA-MW46-1313	03/05/2013	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW46	MW46-0314	03/24/2014	N	<5	**18.8**	<0.2	--	--	--	--	--	--	--	--	--	**830,000**	**16,000**	<10000	**850,000**
MW46	MW46-0716	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW47	SAIA-MW47-0313	03/05/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW47	MW47-0314	03/24/2014	N	<5	**11.5**	<0.2	--	--	--	--	--	--	--	--	--	**670,000**	<10000	<10000	**670,000**
MW47	MW47-0716	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Southern Avenue Industrial Area Superfund Site
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					Metals by E200.8 (in ug/L)	Metals by SW7470A (in ug/L)	PCBs by SW8082 (in ug/L)									Alkalinity by A2320 (in ug/L)			
MW48	SAIA-MW48-0313	03/06/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW48	MW48-0314	03/24/2014	N	<5	**12.8**	<0.2	--	--	--	--	--	--	--	--	--	**670,000**	<10000	<10000	**670,000**
MW48	MW48-0716	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW49	SAIA-MW49-0313	03/06/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW49	MW49-0314	03/26/2014	N	<10	**10.8 J**	<0.2	--	--	--	--	--	--	--	--	--	**890,000**	<10000	<10000	**890,000**
MW49	MW49-0716	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW49	MW149-0716	07/15/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4B	38053	06/14/2011	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW52	SAIA-MW52-0313	03/06/2013	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW52	MW52-0314	03/25/2014	N	<5	**11**	<0.2	--	--	--	--	--	--	--	--	--	**760,000**	<10000	<10000	**760,000**
MW52	MW952-0314	03/25/2014	FD	<5	**9.1**	<0.2	--	--	--	--	--	--	--	--	--	**780,000**	<10000	<10000	**780,000**
MW52	MW52-0716	07/19/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW56	MW56-0314	03/26/2014	N	<10	**6.7 J**	<0.2	--	--	--	--	--	--	--	--	--	**610,000**	<10000	<10000	**610,000**
MW56	MW56-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW10	SAIA-MW10-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW10	SAIA-MW10-0916	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11A	SAIA-MW11A-0716	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11A	SAIA-MW11A-0916	09/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11B	SAIA-MW11B-0716	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11B	SAIA-MW11B-0916	09/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11C	SAIA-MW11C-0716	07/15/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11C	SAIA-MW11C-0916	09/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW11C	SAIA-MW111C-0916	09/22/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12A	SAIA-MW12A-0716	07/25/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12A	SAIA-MW12A-0916	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12B	SAIA-MW12B-0716	07/25/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12B	SAIA-MW12B-0916	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12C	SAIA-MW12C-0716	07/25/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW12C	SAIA-MW12C-0916	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW13	SAIA-MW13-0716	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW13	SAIA-MW13-0916	09/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1A	SAIA-MW1A-0314	03/27/2014	N	<10	**14.6 J**	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**600,000**	<10000	<10000	**600,000**
SAIA-MW1A	SAIA-MW1A-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1A	SAIA-MW1A-0716	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1B	SAIA-MW1B-0314	03/27/2014	N	<10	**6.1 J**	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**610,000**	<10000	<10000	**610,000**
SAIA-MW1B	SAIA-MW1B-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1B	SAIA-MW1B-0716	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1B	SAIA-MW91B-0716	07/14/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1C	SAIA-MW1C-0314	03/27/2014	N	<10	**6.4 J**	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**740,000**	<10000	<10000	**740,000**

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
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					Metals by E200.8 (in ug/L)	Metals by SW7470A (in ug/L)	PCBs by SW8082 (in ug/L)									Alkalinity by A2320 (in ug/L)			
SAIA-MW1C	SAIA-MW1C-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW1C	SAIA-MW1C-0716	07/14/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2A	SAIA-MW2A-0314	03/27/2014	N	<10	**13.3 J**	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**780,000**	<10000	<10000	**780,000**
SAIA-MW2A	SAIA-MW2A-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2A	SAIA-MW92A-0814	08/25/2014	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2A	SAIA-MW2A-0716	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2B	SAIA-MW2B-0314	03/27/2014	N	<10	**9.4 J**	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**490,000**	<10000	<10000	**490,000**
SAIA-MW2B	SAIA-MW2B-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2B	SAIA-MW2B-0716	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2C	SAIA-MW2C-0314	03/27/2014	N	<10	**7.4 J**	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**700,000**	<10000	<10000	**700,000**
SAIA-MW2C	SAIA-MW2C-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW2C	SAIA-MW2C-0716	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3A	SAIA-MW3A-0314	03/24/2014	N	**21.7**	**42**	<0.2	--	--	--	--	--	--	--	--	--	**680,000**	<10000	<10000	**680,000**
SAIA-MW3A	SAIA-MW3A-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3A	SAIA-MW3A-0716	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3B	SAIA-MW3B-0314	03/24/2014	N	<5	**26**	<0.2	--	--	--	--	--	--	--	--	--	**590,000**	<10000	<10000	**590,000**
SAIA-MW3B	SAIA-MW3B-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3B	SAIA-MW3B-0716	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3C	SAIA-MW3C-0314	03/24/2014	N	<5	**14.2**	<0.2	--	--	--	--	--	--	--	--	--	**510,000**	<10000	<10000	**510,000**
SAIA-MW3C	SAIA-MW93C-0314	03/24/2014	FD	<5	**8.7**	<0.2	--	--	--	--	--	--	--	--	--	**490,000**	<10000	<10000	**490,000**
SAIA-MW3C	SAIA-MW3C-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW3C	SAIA-MW3C-0716	07/13/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4A	SAIA-MW4A-0314	03/25/2014	N	**1.6 J**	**13.2**	<0.2	--	--	--	--	--	--	--	--	--	**690,000**	<10000	<10000	**690,000**
SAIA-MW4A	SAIA-MW4A-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4A	SAIA-MW4A-0716	07/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4B	SAIA-MW4B-0314	03/25/2014	N	<5	**9.2**	<0.2	--	--	--	--	--	--	--	--	--	**610,000**	<10000	<10000	**610,000**
SAIA-MW4B	SAIA-MW4B-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4B	SAIA-MW94B-0814	08/26/2014	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4B	SAIA-MW4B-0716	07/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4C	SAIA-MW4C-0314	03/25/2014	N	<5	**9.2**	<0.2	--	--	--	--	--	--	--	--	--	**480,000**	<10000	<10000	**480,000**
SAIA-MW4C	SAIA-MW4C-0814	08/26/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW4C	SAIA-MW4C-0716	07/22/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5A	SAIA-MW5A-0314	03/25/2014	N	**3.7 J**	**19.2**	<0.2	--	--	--	--	--	--	--	--	--	**830,000**	<10000	<10000	**830,000**
SAIA-MW5A	SAIA-MW5A-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5A	SAIA-MW5A-0716	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5A	SAIA-MW95A-0716	07/20/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5B	SAIA-MW5B-0314	03/25/2014	N	**0.87 J**	**11.6**	<0.2	--	--	--	--	--	--	--	--	--	**630,000**	<10000	<10000	**630,000**
SAIA-MW5B	SAIA-MW5B-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5B	SAIA-MW5B-0716	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Metals by E200.8 (in ug/L)	Metals by SW7470A (in ug/L)	PCBs by SW8082 (in ug/L)									Alkalinity by A2320 (in ug/L)			
SAIA-MW5C	SAIA-MW5C-0314	03/25/2014	N	<5	**7.9**	<0.2	--	--	--	--	--	--	--	--	--	**450,000**	<10000	<10000	**450,000**
SAIA-MW5C	SAIA-MW5C-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW5C	SAIA-MW5C-0716	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6A	SAIA-MW6A-0314	03/24/2014	N	**20.4**	**65.1**	<0.2	--	--	--	--	--	--	--	--	--	**390,000**	<10000	<10000	**390,000**
SAIA-MW6A	SAIA-MW6A-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6A	SAIA-MW6A-0716	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6B	SAIA-MW6B-0314	03/24/2014	N	<5	**10**	<0.2	--	--	--	--	--	--	--	--	--	**710,000**	<10000	<10000	**710,000**
SAIA-MW6B	SAIA-MW6B-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6B	SAIA-MW6B-0716	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6C	SAIA-MW6C-0314	03/24/2014	N	<5	**10.2**	<0.2	--	--	--	--	--	--	--	--	--	**640,000**	<10000	<10000	**640,000**
SAIA-MW6C	SAIA-MW6C-0814	08/27/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW6C	SAIA-MW6C-0716	07/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW7	SAIA-MW7-0314	03/27/2014	N	<10	**19.5 J**	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**420,000**	<10000	<10000	**420,000**
SAIA-MW7	SAIA-MW97-0314	03/27/2014	FD	<5	**10.5 J**	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	**420,000**	<10000	<10000	**420,000**
SAIA-MW7	SAIA-MW7-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW7	SAIA-MW7-0716	07/11/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW8	SAIA-MW8-0314	03/24/2014	N	<5	**25.6**	<0.2	--	--	--	--	--	--	--	--	--	**320,000**	<10000	<10000	**320,000**
SAIA-MW8	SAIA-MW8-0814	08/25/2014	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW8	SAIA-MW8-0716	07/21/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9A	SAIA-MW9A-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9A	SAIA-MW9A-0916	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9B	SAIA-MW9B-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9B	SAIA-MW9B-0916	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9C	SAIA-MW9C-0716	07/18/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9C	SAIA-MW99C-0716	07/18/2016	FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAIA-MW9C	SAIA-MW9C-0916	09/20/2016	N	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

				Anions by E300 (in ug/L)	Anions by E300 (in ug/L)	Cyanides by CI41CN (in ug/L)	Solids by A2540C (in ug/L)	Total Organic Carbon by E415.3 (in ug/L)
Location ID	Sample ID	Sample Date	Sample Type	Chloride	Sulfate (as SO4)	Cyanide	Total Dissolved Solids	Total Organic Carbon
MW-2B	38051	06/13/2011	N	--	--	--	--	--
MW32	MW32-0716	07/13/2016	N	--	--	--	--	--
MW32	MW132-0716	07/13/2016	FD	--	--	--	--	--
MW34	MW34-0314	03/26/2014	N	**40,000**	**400,000**	<10	**1,600,000**	**4,500**
MW34	MW934-0314	03/26/2014	FD	**40,000**	**400,000**	<10	**1,600,000**	**5,100**
MW34	MW34-0716	07/12/2016	N	--	--	--	--	--
MW35	MW35-0314	03/26/2014	N	**170,000**	**3,600,000**	--	**6,000,000**	**5,500**
MW35	MW35-0716	07/12/2016	N	--	--	--	--	--
MW42	SAIA-MW42-0313	03/05/2013	N	--	--	--	--	--
MW42	MW42-0314	03/26/2014	N	**46,000**	**190,000**	<10	**1,300,000**	**9,100**
MW42	MW42-0716	07/12/2016	N	--	--	--	--	--
MW43	SAIA-MW43-0313	03/05/2013	N	--	--	--	--	--
MW43	MW43-0314	03/26/2014	N	**140,000**	**2,800,000**	<10	**4,800,000**	**5,400**
MW43	MW43-0716	07/12/2016	N	--	--	--	--	--
MW44	MW44-0314	03/26/2014	N	**150,000**	**3,400,000**	<10	**5,700,000**	**5,600**
MW44	MW44-0716	07/12/2016	N	--	--	--	--	--
MW45	SAIA-MW45-0313	03/05/2013	N	--	--	--	--	--
MW45	MW45-0314	03/25/2014	N	**120,000**	**1,100,000**	--	**2,400,000**	**3,300**
MW45	MW45-0716	07/14/2016	N	--	--	--	--	--
MW46	SAIA-MW46-0313	03/05/2013	N	--	--	--	--	--
MW46	SAIA-MW46-1313	03/05/2013	FD	--	--	--	--	--
MW46	MW46-0314	03/24/2014	N	**86,000**	**500,000**	--	**1,700,000**	**4,200**
MW46	MW46-0716	07/19/2016	N	--	--	--	--	--
MW47	SAIA-MW47-0313	03/05/2013	N	--	--	--	--	--
MW47	MW47-0314	03/24/2014	N	**49,000**	**340,000**	--	**1,300,000**	**5,800**
MW47	MW47-0716	07/19/2016	N	--	--	--	--	--

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Southern Avenue Industrial Area Superfund Site
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				Anions by E300 (in ug/L)	Anions by E300 (in ug/L)	Cyanides by CI41CN (in ug/L)	Solids by A2540C (in ug/L)	Total Organic Carbon by E415.3 (in ug/L)
MW48	SAIA-MW48-0313	03/06/2013	N	--	--	--	--	--
MW48	MW48-0314	03/24/2014	N	**250,000**	**1,200,000**	--	**2,800,000**	**4,600**
MW48	MW48-0716	07/19/2016	N	--	--	--	--	--
MW49	SAIA-MW49-0313	03/06/2013	N	--	--	--	--	--
MW49	MW49-0314	03/26/2014	N	**170,000**	**3,000,000**	--	**5,300,000**	**3,700**
MW49	MW49-0716	07/15/2016	N	--	--	--	--	--
MW49	MW149-0716	07/15/2016	FD	--	--	--	--	--
MW-4B	38053	06/14/2011	N	--	--	--	--	--
MW52	SAIA-MW52-0313	03/06/2013	N	--	--	--	--	--
MW52	MW52-0314	03/25/2014	N	**170,000**	**1,500,000**	--	**3,200,000**	**4,900**
MW52	MW952-0314	03/25/2014	FD	**180,000**	**1,500,000**	--	**3,200,000**	**4,900**
MW52	MW52-0716	07/19/2016	N	--	--	--	--	--
MW56	MW56-0314	03/26/2014	N	**84,000**	**400,000**	--	**1,300,000**	**2,800**
MW56	MW56-0716	07/18/2016	N	--	--	--	--	--
SAIA-MW10	SAIA-MW10-0716	07/18/2016	N	--	--	--	--	--
SAIA-MW10	SAIA-MW10-0916	09/20/2016	N	--	--	--	--	--
SAIA-MW11A	SAIA-MW11A-0716	07/15/2016	N	--	--	--	--	--
SAIA-MW11A	SAIA-MW11A-0916	09/22/2016	N	--	--	--	--	--
SAIA-MW11B	SAIA-MW11B-0716	07/15/2016	N	--	--	--	--	--
SAIA-MW11B	SAIA-MW11B-0916	09/22/2016	N	--	--	--	--	--
SAIA-MW11C	SAIA-MW11C-0716	07/15/2016	N	--	--	--	--	--
SAIA-MW11C	SAIA-MW11C-0916	09/22/2016	N	--	--	--	--	--
SAIA-MW11C	SAIA-MW111C-0916	09/22/2016	FD	--	--	--	--	--
SAIA-MW12A	SAIA-MW12A-0716	07/25/2016	N	--	--	--	--	--
SAIA-MW12A	SAIA-MW12A-0916	09/21/2016	N	--	--	--	--	--
SAIA-MW12B	SAIA-MW12B-0716	07/25/2016	N	--	--	--	--	--
SAIA-MW12B	SAIA-MW12B-0916	09/21/2016	N	--	--	--	--	--
SAIA-MW12C	SAIA-MW12C-0716	07/25/2016	N	--	--	--	--	--
SAIA-MW12C	SAIA-MW12C-0916	09/21/2016	N	--	--	--	--	--
SAIA-MW13	SAIA-MW13-0716	07/21/2016	N	--	--	--	--	--
SAIA-MW13	SAIA-MW13-0916	09/21/2016	N	--	--	--	--	--
SAIA-MW1A	SAIA-MW1A-0314	03/27/2014	N	**53,000**	**180,000**	<10	**1,000,000**	**23,000**
SAIA-MW1A	SAIA-MW1A-0814	08/25/2014	N	--	--	--	--	--
SAIA-MW1A	SAIA-MW1A-0716	07/14/2016	N	--	--	--	--	--
SAIA-MW1B	SAIA-MW1B-0314	03/27/2014	N	**580,000**	**1,200,000**	<10	**3,300,000**	**8,000**
SAIA-MW1B	SAIA-MW1B-0814	08/25/2014	N	--	--	--	--	--
SAIA-MW1B	SAIA-MW1B-0716	07/14/2016	N	--	--	--	--	--
SAIA-MW1B	SAIA-MW91B-0716	07/14/2016	FD	--	--	--	--	--
SAIA-MW1C	SAIA-MW1C-0314	03/27/2014	N	**120,000**	**3,000,000**	<10	**5,100,000**	**11,000**

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

				Anions by E300 (in ug/L)	Anions by E300 (in ug/L)	Cyanides by CI41CN (in ug/L)	Solids by A2540C (in ug/L)	Total Organic Carbon by E415.3 (in ug/L)
SAIA-MW1C	SAIA-MW1C-0814	08/25/2014	N	--	--	--	--	--
SAIA-MW1C	SAIA-MW1C-0716	07/14/2016	N	--	--	--	--	--
SAIA-MW2A	SAIA-MW2A-0314	03/27/2014	N	**26,000**	**100,000**	<10	**1,000,000**	**23,000**
SAIA-MW2A	SAIA-MW2A-0814	08/25/2014	N	--	--	--	--	--
SAIA-MW2A	SAIA-MW92A-0814	08/25/2014	FD	--	--	--	--	--
SAIA-MW2A	SAIA-MW2A-0716	07/11/2016	N	--	--	--	--	--
SAIA-MW2B	SAIA-MW2B-0314	03/27/2014	N	**320,000**	**1,500,000**	<10	**3,200,000**	**6,400**
SAIA-MW2B	SAIA-MW2B-0814	08/25/2014	N	--	--	--	--	--
SAIA-MW2B	SAIA-MW2B-0716	07/11/2016	N	--	--	--	--	--
SAIA-MW2C	SAIA-MW2C-0314	03/27/2014	N	**160,000**	**2,900,000**	<10	**5,000,000**	**6,600**
SAIA-MW2C	SAIA-MW2C-0814	08/25/2014	N	--	--	--	--	--
SAIA-MW2C	SAIA-MW2C-0716	07/11/2016	N	--	--	--	--	--
SAIA-MW3A	SAIA-MW3A-0314	03/24/2014	N	**200,000**	**380,000**	--	**1,500,000**	--
SAIA-MW3A	SAIA-MW3A-0814	08/26/2014	N	--	--	--	--	--
SAIA-MW3A	SAIA-MW3A-0716	07/13/2016	N	--	--	--	--	--
SAIA-MW3B	SAIA-MW3B-0314	03/24/2014	N	**89,000**	**220,000**	--	**1,100,000**	--
SAIA-MW3B	SAIA-MW3B-0814	08/26/2014	N	--	--	--	--	--
SAIA-MW3B	SAIA-MW3B-0716	07/13/2016	N	--	--	--	--	--
SAIA-MW3C	SAIA-MW3C-0314	03/24/2014	N	**680,000**	**1,300,000**	--	**3,300,000**	--
SAIA-MW3C	SAIA-MW93C-0314	03/24/2014	FD	**670,000**	**1,200,000**	--	**3,400,000**	--
SAIA-MW3C	SAIA-MW3C-0814	08/26/2014	N	--	--	--	--	--
SAIA-MW3C	SAIA-MW3C-0716	07/13/2016	N	--	--	--	--	--
SAIA-MW4A	SAIA-MW4A-0314	03/25/2014	N	**160,000**	**390,000**	--	**1,500,000**	**4,300**
SAIA-MW4A	SAIA-MW4A-0814	08/26/2014	N	--	--	--	--	--
SAIA-MW4A	SAIA-MW4A-0716	07/22/2016	N	--	--	--	--	--
SAIA-MW4B	SAIA-MW4B-0314	03/25/2014	N	**86,000**	**400,000**	--	**1,300,000**	**19,000**
SAIA-MW4B	SAIA-MW4B-0814	08/26/2014	N	--	--	--	--	--
SAIA-MW4B	SAIA-MW94B-0814	08/26/2014	FD	--	--	--	--	--
SAIA-MW4B	SAIA-MW4B-0716	07/22/2016	N	--	--	--	--	--
SAIA-MW4C	SAIA-MW4C-0314	03/25/2014	N	**510,000**	**900,000**	--	**2,600,000**	**8,200**
SAIA-MW4C	SAIA-MW4C-0814	08/26/2014	N	--	--	--	--	--
SAIA-MW4C	SAIA-MW4C-0716	07/22/2016	N	--	--	--	--	--
SAIA-MW5A	SAIA-MW5A-0314	03/25/2014	N	**180,000**	**1,300,000**	--	**3,000,000**	**5,200**
SAIA-MW5A	SAIA-MW5A-0814	08/27/2014	N	--	--	--	--	--
SAIA-MW5A	SAIA-MW5A-0716	07/20/2016	N	--	--	--	--	--
SAIA-MW5A	SAIA-MW95A-0716	07/20/2016	FD	--	--	--	--	--
SAIA-MW5B	SAIA-MW5B-0314	03/25/2014	N	**150,000**	**1,200,000**	--	**2,600,000**	**12,000**
SAIA-MW5B	SAIA-MW5B-0814	08/27/2014	N	--	--	--	--	--
SAIA-MW5B	SAIA-MW5B-0716	07/21/2016	N	--	--	--	--	--

Appendix E-3
Analytical Results for Groundwater from Monitoring Wells
Southern Avenue Industrial Area Superfund Site
South Gate, California

				Anions by E300 (in ug/L)	Anions by E300 (in ug/L)	Cyanides by CI41CN (in ug/L)	Solids by A2540C (in ug/L)	Total Organic Carbon by E415.3 (in ug/L)
SAIA-MW5C	SAIA-MW5C-0314	03/25/2014	N	**700,000**	**1,200,000**	--	**3,300,000**	**7,300**
SAIA-MW5C	SAIA-MW5C-0814	08/27/2014	N	--	--	--	--	--
SAIA-MW5C	SAIA-MW5C-0716	07/21/2016	N	--	--	--	--	--
SAIA-MW6A	SAIA-MW6A-0314	03/24/2014	N	**100,000**	**230,000**	--	**940,000**	**5,900**
SAIA-MW6A	SAIA-MW6A-0814	08/27/2014	N	--	--	--	--	--
SAIA-MW6A	SAIA-MW6A-0716	07/20/2016	N	--	--	--	--	--
SAIA-MW6B	SAIA-MW6B-0314	03/24/2014	N	**350,000**	**2,000,000**	--	**4,300,000**	--
SAIA-MW6B	SAIA-MW6B-0814	08/27/2014	N	--	--	--	--	--
SAIA-MW6B	SAIA-MW6B-0716	07/20/2016	N	--	--	--	--	--
SAIA-MW6C	SAIA-MW6C-0314	03/24/2014	N	**410,000**	**1,900,000**	--	**4,100,000**	--
SAIA-MW6C	SAIA-MW6C-0814	08/27/2014	N	--	--	--	--	--
SAIA-MW6C	SAIA-MW6C-0716	07/20/2016	N	--	--	--	--	--
SAIA-MW7	SAIA-MW7-0314	03/27/2014	N	**730,000**	**2,100,000**	<10	**4,800,000**	**4,000**
SAIA-MW7	SAIA-MW97-0314	03/27/2014	FD	**740,000**	**2,200,000**	<10	**4,700,000**	**3,900**
SAIA-MW7	SAIA-MW7-0814	08/25/2014	N	--	--	--	--	--
SAIA-MW7	SAIA-MW7-0716	07/11/2016	N	--	--	--	--	--
SAIA-MW8	SAIA-MW8-0314	03/24/2014	N	**390,000**	**780,000**	--	**2,100,000**	--
SAIA-MW8	SAIA-MW8-0814	08/25/2014	N	--	--	--	--	--
SAIA-MW8	SAIA-MW8-0716	07/21/2016	N	--	--	--	--	--
SAIA-MW9A	SAIA-MW9A-0716	07/18/2016	N	--	--	--	--	--
SAIA-MW9A	SAIA-MW9A-0916	09/20/2016	N	--	--	--	--	--
SAIA-MW9B	SAIA-MW9B-0716	07/18/2016	N	--	--	--	--	--
SAIA-MW9B	SAIA-MW9B-0916	09/20/2016	N	--	--	--	--	--
SAIA-MW9C	SAIA-MW9C-0716	07/18/2016	N	--	--	--	--	--
SAIA-MW9C	SAIA-MW99C-0716	07/18/2016	FD	--	--	--	--	--
SAIA-MW9C	SAIA-MW9C-0916	09/20/2016	N	--	--	--	--	--

Notes:
Detected results shown in bold
ID = identification number
FD = Field duplicate sample results
J = Concentration is estimated because it falls between the method detection limit and laboratory reporting limit.
N = Normal sample results
R = Rejected results
ug/m3 = Micrograms per cubic meter
-- = Not analyzed
< = Analyte not detected at the specified value

Appendix E-4

Analytical Results for Discrete-Depth Groundwater Samples

Appendix E-4
Analytical Results for Discrete-Depth Groundwater Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Volatiles (in ugL)														
Location ID	Sample ID	Sample Date	Sample Type	Sample Depth	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene
SAIA-CPT02	SAIA-CPT02-40	03/22/2013	N	40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT02	SAIA-CPT02-50	03/22/2013	N	50	<0.5	<0.5	<0.5	<0.5	**0.1 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.065 J**	<0.5	<0.5
SAIA-CPT02	SAIA-CPT02-70	03/22/2013	N	70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**8**	<0.5	<0.5
SAIA-CPT02	SAIA-CPT02-90	03/22/2013	N	90	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**6.1**	**0.21 J**	<0.5
SAIA-CPT02	SAIA-CPT02-110	03/22/2013	N	110	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.3 J**	<0.5	<0.5
SAIA-CPT03	SAIA-CPT03-40	03/13/2013	N	40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT03	SAIA-CPT03-50	03/13/2013	N	50	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	**0.087 J**
SAIA-CPT03	SAIA-CPT03-70	03/13/2013	N	70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.39 J**	<0.5	<0.5
SAIA-CPT03	SAIA-CPT03-71	03/13/2013	FD	70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT03	SAIA-CPT03-90	03/13/2013	N	90	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT03	SAIA-CPT03-110	03/13/2013	N	110	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT04	SAIA-CPT04-40	03/14/2013	N	42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT04	SAIA-CPT04-50	03/14/2013	N	64	<25	<25	<25	<25	**12 J**	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
SAIA-CPT04	SAIA-CPT04-70	03/14/2013	N	84	<0.5	<0.5	<0.5	<0.5	**0.12 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.4**	<0.5	<0.5
SAIA-CPT04	SAIA-CPT04-90	03/14/2013	N	102	<4	<4	<4	<4	**2.3 J**	<4	<4	<4	<4	<4	<4	<4	**4.5**	<4	<4
SAIA-CPT04	SAIA-CPT04-110	03/14/2013	N	126	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT05	SAIA-CPT05-40	03/04/2013	N	42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT05	SAIA-CPT05-50	03/05/2013	N	64	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SAIA-CPT05	SAIA-CPT05-70	03/05/2013	N	84	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**1.4**	<1	<1
SAIA-CPT05	SAIA-CPT05-90	03/05/2013	N	104	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.3**	**0.19 J**	<0.5
SAIA-CPT05	SAIA-CPT05-110	03/05/2013	N	130	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT06	SAIA-CPT06-40	03/08/2013	N	42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT06	SAIA-CPT06-50	03/08/2013	N	63	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT06	SAIA-CPT06-70	03/08/2013	N	82	<40	<40	<40	<40	**21 J**	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
SAIA-CPT06	SAIA-CPT06-90	03/08/2013	N	102	<0.5	<0.5	<0.5	<0.5	**0.13 J**	<0.5	<0.5	**0.094 J**	<0.5	<0.5	<0.5	<0.5	**1.8**	**0.22 J**	<0.5
SAIA-CPT06	SAIA-CPT06-110	03/08/2013	N	132	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.12 J**	<0.5	<0.5
SAIA-CPT07	SAIA-CPT07-40	03/04/2013	N	42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT07	SAIA-CPT07-50	03/01/2013	N	70	<10	<10	<10	<10	**2 J**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SAIA-CPT07	SAIA-CPT07-51	03/01/2013	FD	70	<10	<10	<10	<10	**2.3 J**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SAIA-CPT07	SAIA-CPT07-70	03/01/2013	N	96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.53**	<0.5	<0.5

Appendix E-4
Analytical Results for Discrete-Depth Groundwater Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Volatiles (in ug/L)															
Location ID	Sample ID	Sample Date	Sample Type	Sample Depth	1,4-Dichlorobenzene	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform
SAIA-CPT02	SAIA-CPT02-40	03/22/2013	N	40	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.45 J**	<0.5	<0.5	<0.5	<0.5
SAIA-CPT02	SAIA-CPT02-50	03/22/2013	N	50	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT02	SAIA-CPT02-70	03/22/2013	N	70	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT02	SAIA-CPT02-90	03/22/2013	N	90	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT02	SAIA-CPT02-110	03/22/2013	N	110	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT03	SAIA-CPT03-40	03/13/2013	N	40	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT03	SAIA-CPT03-50	03/13/2013	N	50	**0.12 J**	<20	<20	<20	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
SAIA-CPT03	SAIA-CPT03-70	03/13/2013	N	70	<0.5	<5	<5	<5	**6.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT03	SAIA-CPT03-71	03/13/2013	FD	70	<0.5	<5	<5	<5	**3.1 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT03	SAIA-CPT03-90	03/13/2013	N	90	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT03	SAIA-CPT03-110	03/13/2013	N	110	<0.5	<5	<5	<5	**16**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT04	SAIA-CPT04-40	03/14/2013	N	42	<0.5	<5	<5	<5	**2.8 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT04	SAIA-CPT04-50	03/14/2013	N	64	<25	<250	<250	<250	<250	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
SAIA-CPT04	SAIA-CPT04-70	03/14/2013	N	84	<0.5	<5	<5	<5	**21**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT04	SAIA-CPT04-90	03/14/2013	N	102	<4	<40	<40	<40	<40	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
SAIA-CPT04	SAIA-CPT04-110	03/14/2013	N	126	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT05	SAIA-CPT05-40	03/04/2013	N	42	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT05	SAIA-CPT05-50	03/05/2013	N	64	<10	<100	<100	<100	<100	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SAIA-CPT05	SAIA-CPT05-70	03/05/2013	N	84	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SAIA-CPT05	SAIA-CPT05-90	03/05/2013	N	104	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT05	SAIA-CPT05-110	03/05/2013	N	130	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT06	SAIA-CPT06-40	03/08/2013	N	42	<0.5	<5	<5	<5	**21**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT06	SAIA-CPT06-50	03/08/2013	N	63	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT06	SAIA-CPT06-70	03/08/2013	N	82	<40	<400	<400	<400	<400	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
SAIA-CPT06	SAIA-CPT06-90	03/08/2013	N	102	<0.5	<5	<5	<5	**11**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT06	SAIA-CPT06-110	03/08/2013	N	132	<0.5	<5	<5	<5	**15**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT07	SAIA-CPT07-40	03/04/2013	N	42	<0.5	<5	<5	<5	**17**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT07	SAIA-CPT07-50	03/01/2013	N	70	<10	<100	<100	<100	<100	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SAIA-CPT07	SAIA-CPT07-51	03/01/2013	FD	70	<10	<100	<100	<100	<100	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SAIA-CPT07	SAIA-CPT07-70	03/01/2013	N	96	<0.5	<5	<5	<5	**4.8 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Appendix E-4
Analytical Results for Discrete-Depth Groundwater Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Volatiles (in ug/L)															
Location ID	Sample ID	Sample Date	Sample Type	Sample Depth	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene (Cumene)	m,p-Xylene	Methyl Acetate	Methylcyclohexane	Methylene Chloride	o-Xylene	Styrene	tert-Butyl Methyl Ether (MTBE)
SAIA-CPT02	SAIA-CPT02-40	03/22/2013	N	40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT02	SAIA-CPT02-50	03/22/2013	N	50	<0.5	**7.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT02	SAIA-CPT02-70	03/22/2013	N	70	<0.5	**0.18 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT02	SAIA-CPT02-90	03/22/2013	N	90	<0.5	**0.13 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT02	SAIA-CPT02-110	03/22/2013	N	110	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT03	SAIA-CPT03-40	03/13/2013	N	40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT03	SAIA-CPT03-50	03/13/2013	N	50	<2	**120**	<2	<2	<2	<2	<2	<2	<2	<2	<2	**6**	<2	<2	<2
SAIA-CPT03	SAIA-CPT03-70	03/13/2013	N	70	<0.5	**0.31 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT03	SAIA-CPT03-71	03/13/2013	FD	70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT03	SAIA-CPT03-90	03/13/2013	N	90	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT03	SAIA-CPT03-110	03/13/2013	N	110	<0.5	**4.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.11 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT04	SAIA-CPT04-40	03/14/2013	N	42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT04	SAIA-CPT04-50	03/14/2013	N	64	<25	**1,300**	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
SAIA-CPT04	SAIA-CPT04-70	03/14/2013	N	84	<0.5	**52**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT04	SAIA-CPT04-90	03/14/2013	N	102	<4	**55**	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
SAIA-CPT04	SAIA-CPT04-110	03/14/2013	N	126	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT05	SAIA-CPT05-40	03/04/2013	N	42	<0.5	**9.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT05	SAIA-CPT05-50	03/05/2013	N	64	<10	**490**	<10	<10	<10	<10	<10	<10	<10	<10	<10	**23**	<10	<10	<10
SAIA-CPT05	SAIA-CPT05-70	03/05/2013	N	84	<1	**97**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SAIA-CPT05	SAIA-CPT05-90	03/05/2013	N	104	<0.5	**7.3**	<0.5	**0.1 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT05	SAIA-CPT05-110	03/05/2013	N	130	<0.5	**0.14 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT06	SAIA-CPT06-40	03/08/2013	N	42	<0.5	**0.077 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT06	SAIA-CPT06-50	03/08/2013	N	63	<0.5	**3.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT06	SAIA-CPT06-70	03/08/2013	N	82	<40	**3,900**	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40	<40
SAIA-CPT06	SAIA-CPT06-90	03/08/2013	N	102	<0.5	**42**	<0.5	**0.12 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT06	SAIA-CPT06-110	03/08/2013	N	132	<0.5	**0.3 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.4 J**	<0.5	**0.1 J**	<0.5	<0.5	<0.5
SAIA-CPT07	SAIA-CPT07-40	03/04/2013	N	42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT07	SAIA-CPT07-50	03/01/2013	N	70	<10	**780**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SAIA-CPT07	SAIA-CPT07-51	03/01/2013	FD	70	<10	**810**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SAIA-CPT07	SAIA-CPT07-70	03/01/2013	N	96	<0.5	**13**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Appendix E-4
Analytical Results for Discrete-Depth Groundwater Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Volatiles (in ug/L)							Semivolatiles (in ug/L)
Location ID	Sample ID	Sample Date	Sample Type	Sample Depth	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	1,4-Dioxane (p-Dioxane)
SAIA-CPT02	SAIA-CPT02-40	03/22/2013	N	40	<0.5	<0.5	<0.5	<0.5	**0.091 J**	<0.5	<0.5	<0.5
SAIA-CPT02	SAIA-CPT02-50	03/22/2013	N	50	<0.5	<0.5	**0.59**	<0.5	**1.3**	<0.5	<0.5	<0.5
SAIA-CPT02	SAIA-CPT02-70	03/22/2013	N	70	<0.5	<0.5	<0.5	<0.5	**0.085 J**	<0.5	<0.5	**1**
SAIA-CPT02	SAIA-CPT02-90	03/22/2013	N	90	<0.5	<0.5	<0.5	<0.5	**0.063 J**	<0.5	<0.5	**0.95**
SAIA-CPT02	SAIA-CPT02-110	03/22/2013	N	110	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
SAIA-CPT03	SAIA-CPT03-40	03/13/2013	N	40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
SAIA-CPT03	SAIA-CPT03-50	03/13/2013	N	50	<2	<2	**44**	<2	**92**	<2	<2	**8**
SAIA-CPT03	SAIA-CPT03-70	03/13/2013	N	70	<0.5	<0.5	<0.5	<0.5	**0.21 J**	<0.5	<0.5	**0.42 J**
SAIA-CPT03	SAIA-CPT03-71	03/13/2013	FD	70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.42 J**
SAIA-CPT03	SAIA-CPT03-90	03/13/2013	N	90	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.71**
SAIA-CPT03	SAIA-CPT03-110	03/13/2013	N	110	<0.5	<0.5	**0.26 J**	<0.5	**2.4**	<0.5	<0.5	<0.5
SAIA-CPT04	SAIA-CPT04-40	03/14/2013	N	42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
SAIA-CPT04	SAIA-CPT04-50	03/14/2013	N	64	<25	<25	**29**	<25	**890**	<25	<25	**12**
SAIA-CPT04	SAIA-CPT04-70	03/14/2013	N	84	<0.5	<0.5	**3.5**	<0.5	**6.5**	<0.5	<0.5	**0.57**
SAIA-CPT04	SAIA-CPT04-90	03/14/2013	N	102	<4	<4	**7.5**	<4	**280**	<4	<4	**9.2**
SAIA-CPT04	SAIA-CPT04-110	03/14/2013	N	126	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT05	SAIA-CPT05-40	03/04/2013	N	42	<0.5	<0.5	**0.36 J**	<0.5	**0.87**	<0.5	<0.5	**0.77**
SAIA-CPT05	SAIA-CPT05-50	03/05/2013	N	64	<10	<10	**31**	<10	**400**	<10	<10	**2.6**
SAIA-CPT05	SAIA-CPT05-70	03/05/2013	N	84	<1	<1	**11**	<1	**1.3 J**	<1	<1	**0.9**
SAIA-CPT05	SAIA-CPT05-90	03/05/2013	N	104	<0.5	<0.5	**0.38 J**	<0.5	**2.7**	<0.5	<0.5	**1.6**
SAIA-CPT05	SAIA-CPT05-110	03/05/2013	N	130	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT06	SAIA-CPT06-40	03/08/2013	N	42	<0.5	**0.092 J**	<0.5	<0.5	<0.5	<0.5	<0.5	--
SAIA-CPT06	SAIA-CPT06-50	03/08/2013	N	63	<0.5	<0.5	**0.49 J**	<0.5	**2.1**	<0.5	<0.5	<0.5
SAIA-CPT06	SAIA-CPT06-70	03/08/2013	N	82	<40	**5.4 J**	**770**	<40	**270**	<40	<40	**40**
SAIA-CPT06	SAIA-CPT06-90	03/08/2013	N	102	<0.5	<0.5	**2.9**	<0.5	**1.3**	<0.5	<0.5	**1**
SAIA-CPT06	SAIA-CPT06-110	03/08/2013	N	132	<0.5	<0.5	<0.5	<0.5	**0.087 J**	<0.5	<0.5	<0.5
SAIA-CPT07	SAIA-CPT07-40	03/04/2013	N	42	<0.5	**0.19 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT07	SAIA-CPT07-50	03/01/2013	N	70	<10	<10	**36**	<10	**16**	<10	<10	**15**
SAIA-CPT07	SAIA-CPT07-51	03/01/2013	FD	70	<10	<10	**40**	<10	**17**	<10	<10	**20**
SAIA-CPT07	SAIA-CPT07-70	03/01/2013	N	96	<0.5	<0.5	**1.2**	<0.5	**2.9**	<0.5	<0.5	**0.66**

Appendix E-4
Analytical Results for Discrete-Depth Groundwater Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Volatiles (in ugL)														
Location ID	Sample ID	Sample Date	Sample Type	Sample Depth	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene
SAIA-CPT07	SAIA-CPT07-90	03/01/2013	N	114	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT07	SAIA-CPT07-110	03/01/2013	N	134	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT08	SAIA-CPT08-40	03/07/2013	N	42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT08	SAIA-CPT08-50	03/07/2013	N	76	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SAIA-CPT08	SAIA-CPT08-70	03/07/2013	N	96	<0.5	<0.5	<0.5	<0.5	**0.18 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1**	**0.17 J**	<0.5
SAIA-CPT08	SAIA-CPT08-90	03/07/2013	N	121	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT09	SAIA-CPT09-40	03/06/2013	N	42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT09	SAIA-CPT09-50	03/06/2013	N	78	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
SAIA-CPT09	SAIA-CPT09-51	03/06/2013	FD	78	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
SAIA-CPT09	SAIA-CPT09-70	03/06/2013	N	98	<0.5	<0.5	<0.5	<0.5	**0.36 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.2**	**0.19 J**	<0.5
SAIA-CPT09	SAIA-CPT09-90	03/06/2013	N	120	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT10	SAIA-CPT10-40	03/21/2013	N	42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT10	SAIA-CPT10-50	03/21/2013	N	60	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT10	SAIA-CPT10-70	03/21/2013	N	80	<5	<5	<5	<5	**2.2 J**	**3.2 J**	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-CPT10	SAIA-CPT10-90	03/21/2013	N	100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.88**	**0.14 J**	<0.5
SAIA-CPT10	SAIA-CPT10-110	03/21/2013	N	122	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.86**	<0.5	<0.5
SAIA-CPT11	SAIA-CPT11-40	03/20/2013	N	42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT11	SAIA-CPT11-50	03/20/2013	N	64	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	**0.72 J**	<4	<4
SAIA-CPT11	SAIA-CPT11-70	03/20/2013	N	84	<20	<20	<20	<20	**4.1 J**	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
SAIA-CPT11	SAIA-CPT11-90	03/20/2013	N	104	<0.5	<0.5	<0.5	<0.5	**0.38 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.4**	**0.22 J**	<0.5
SAIA-CPT11	SAIA-CPT11-91	03/20/2013	FD	104	<1	<1	<1	<1	**0.4 J**	<1	<1	<1	<1	<1	<1	<1	**1.5**	**0.27 J**	<1
SAIA-CPT11	SAIA-CPT11-110	03/20/2013	N	129	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.11 J**	<0.5	<0.5
SAIA-CPT12	SAIA-CPT12-40	03/19/2013	N	41	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT12	SAIA-CPT12-50	03/19/2013	N	65	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT12	SAIA-CPT12-70	03/19/2013	N	80	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
SAIA-CPT12	SAIA-CPT12-90	03/19/2013	N	98	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.57**	<0.5	<0.5
SAIA-CPT12	SAIA-CPT12-110	03/19/2013	N	120	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT13	SAIA-CPT13-40	03/15/2013	N	42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT13	SAIA-CPT13-50	03/15/2013	N	68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT13	SAIA-CPT13-70	03/15/2013	N	82	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.084 J**	<0.5	<0.5

Appendix E-4
Analytical Results for Discrete-Depth Groundwater Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Volatiles (in ug/L)															
Location ID	Sample ID	Sample Date	Sample Type	Sample Depth	1,4-Dichlorobenzene	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform
SAIA-CPT07	SAIA-CPT07-90	03/01/2013	N	114	<0.5	<5	<5	<5	**14**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT07	SAIA-CPT07-110	03/01/2013	N	134	<0.5	<5	<5	<5	**8.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT08	SAIA-CPT08-40	03/07/2013	N	42	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT08	SAIA-CPT08-50	03/07/2013	N	76	<10	<100	<100	<100	<100	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SAIA-CPT08	SAIA-CPT08-70	03/07/2013	N	96	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT08	SAIA-CPT08-90	03/07/2013	N	121	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT09	SAIA-CPT09-40	03/06/2013	N	42	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT09	SAIA-CPT09-50	03/06/2013	N	78	<2	<20	<20	<20	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
SAIA-CPT09	SAIA-CPT09-51	03/06/2013	FD	78	<2.5	<25	<25	<25	<25	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
SAIA-CPT09	SAIA-CPT09-70	03/06/2013	N	98	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT09	SAIA-CPT09-90	03/06/2013	N	120	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT10	SAIA-CPT10-40	03/21/2013	N	42	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT10	SAIA-CPT10-50	03/21/2013	N	60	<0.5	<5	<5	<5	**15**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT10	SAIA-CPT10-70	03/21/2013	N	80	<5	<50	<50	<50	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-CPT10	SAIA-CPT10-90	03/21/2013	N	100	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT10	SAIA-CPT10-110	03/21/2013	N	122	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	**0.1 J**	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT11	SAIA-CPT11-40	03/20/2013	N	42	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT11	SAIA-CPT11-50	03/20/2013	N	64	<4	**9.4 J**	<40	<40	<40	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
SAIA-CPT11	SAIA-CPT11-70	03/20/2013	N	84	<20	<200	<200	<200	<200	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
SAIA-CPT11	SAIA-CPT11-90	03/20/2013	N	104	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT11	SAIA-CPT11-91	03/20/2013	FD	104	<1	<10	<10	<10	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SAIA-CPT11	SAIA-CPT11-110	03/20/2013	N	129	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT12	SAIA-CPT12-40	03/19/2013	N	41	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT12	SAIA-CPT12-50	03/19/2013	N	65	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT12	SAIA-CPT12-70	03/19/2013	N	80	<2	<20	<20	<20	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
SAIA-CPT12	SAIA-CPT12-90	03/19/2013	N	98	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT12	SAIA-CPT12-110	03/19/2013	N	120	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT13	SAIA-CPT13-40	03/15/2013	N	42	<0.5	<5	<5	<5	**10**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT13	SAIA-CPT13-50	03/15/2013	N	68	<0.5	<5	<5	<5	**3.2 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT13	SAIA-CPT13-70	03/15/2013	N	82	<0.5	<5	<5	<5	**3.6 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Appendix E-4
Analytical Results for Discrete-Depth Groundwater Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Volatiles (in ug/L)															
Location ID	Sample ID	Sample Date	Sample Type	Sample Depth	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene (Cumene)	m,p-Xylene	Methyl Acetate	Methylcyclohexane	Methylene Chloride	o-Xylene	Styrene	tert-Butyl Methyl Ether (MTBE)
SAIA-CPT07	SAIA-CPT07-90	03/01/2013	N	114	<0.5	**3.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.1**	<0.5	<0.5	<0.5
SAIA-CPT07	SAIA-CPT07-110	03/01/2013	N	134	<0.5	**0.28 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT08	SAIA-CPT08-40	03/07/2013	N	42	<0.5	**0.73**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT08	SAIA-CPT08-50	03/07/2013	N	76	<10	**530**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SAIA-CPT08	SAIA-CPT08-70	03/07/2013	N	96	<0.5	**78**	<0.5	**0.11 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT08	SAIA-CPT08-90	03/07/2013	N	121	<0.5	**0.69**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT09	SAIA-CPT09-40	03/06/2013	N	42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.51**	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT09	SAIA-CPT09-50	03/06/2013	N	78	<2	**110**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
SAIA-CPT09	SAIA-CPT09-51	03/06/2013	FD	78	<2.5	**140**	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
SAIA-CPT09	SAIA-CPT09-70	03/06/2013	N	98	<0.5	**43**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT09	SAIA-CPT09-90	03/06/2013	N	120	<0.5	**0.22 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT10	SAIA-CPT10-40	03/21/2013	N	42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.48 J**	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT10	SAIA-CPT10-50	03/21/2013	N	60	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.61**	<0.5	<0.5	**0.09 J**	<0.5	<0.5
SAIA-CPT10	SAIA-CPT10-70	03/21/2013	N	80	<5	**1,800**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-CPT10	SAIA-CPT10-90	03/21/2013	N	100	<0.5	**68**	<0.5	**0.19 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT10	SAIA-CPT10-110	03/21/2013	N	122	<0.5	**2.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.49 J**	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT11	SAIA-CPT11-40	03/20/2013	N	42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT11	SAIA-CPT11-50	03/20/2013	N	64	<4	**390**	<4	<4	<4	<4	<4	<4	**0.49 J**	<4	<4	<4	<4	<4	<4
SAIA-CPT11	SAIA-CPT11-70	03/20/2013	N	84	<20	**1,800**	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
SAIA-CPT11	SAIA-CPT11-90	03/20/2013	N	104	<0.5	**160**	<0.5	**0.12 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT11	SAIA-CPT11-91	03/20/2013	FD	104	<1	**160**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SAIA-CPT11	SAIA-CPT11-110	03/20/2013	N	129	<0.5	**0.47 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT12	SAIA-CPT12-40	03/19/2013	N	41	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT12	SAIA-CPT12-50	03/19/2013	N	65	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.29 J**	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT12	SAIA-CPT12-70	03/19/2013	N	80	<2	**93**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
SAIA-CPT12	SAIA-CPT12-90	03/19/2013	N	98	<0.5	**50**	<0.5	**0.07 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT12	SAIA-CPT12-110	03/19/2013	N	120	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT13	SAIA-CPT13-40	03/15/2013	N	42	<0.5	**1.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT13	SAIA-CPT13-50	03/15/2013	N	68	<0.5	**2.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.24 J**	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT13	SAIA-CPT13-70	03/15/2013	N	82	<0.5	**4.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Appendix E-4
Analytical Results for Discrete-Depth Groundwater Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Volatiles (in ug/L)							Semivolatiles (in ug/L)
Location ID	Sample ID	Sample Date	Sample Type	Sample Depth	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	1,4-Dioxane (p-Dioxane)
SAIA-CPT07	SAIA-CPT07-90	03/01/2013	N	114	<0.5	<0.5	**0.16 J**	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT07	SAIA-CPT07-110	03/01/2013	N	134	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT08	SAIA-CPT08-40	03/07/2013	N	42	<0.5	<0.5	<0.5	<0.5	**0.13 J**	<0.5	<0.5	<0.5
SAIA-CPT08	SAIA-CPT08-50	03/07/2013	N	76	<10	<10	**27**	<10	**12**	<10	<10	**1.8**
SAIA-CPT08	SAIA-CPT08-70	03/07/2013	N	96	<0.5	<0.5	**5**	<0.5	**1.7**	<0.5	<0.5	**0.55**
SAIA-CPT08	SAIA-CPT08-90	03/07/2013	N	121	<0.5	**0.066 J**	<0.5	<0.5	**0.13 J**	<0.5	<0.5	<0.5
SAIA-CPT09	SAIA-CPT09-40	03/06/2013	N	42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.51**
SAIA-CPT09	SAIA-CPT09-50	03/06/2013	N	78	<2	<2	**12**	<2	**0.56 J**	<2	<2	<0.5
SAIA-CPT09	SAIA-CPT09-51	03/06/2013	FD	78	<2.5	<2.5	**16**	<2.5	<2.5	<2.5	<2.5	<0.5
SAIA-CPT09	SAIA-CPT09-70	03/06/2013	N	98	<0.5	<0.5	**5.3**	<0.5	**2.4**	<0.5	<0.5	**0.65**
SAIA-CPT09	SAIA-CPT09-90	03/06/2013	N	120	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT10	SAIA-CPT10-40	03/21/2013	N	42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT10	SAIA-CPT10-50	03/21/2013	N	60	<0.5	<0.5	<0.5	<0.5	**0.31 J**	<0.5	<0.5	<0.5
SAIA-CPT10	SAIA-CPT10-70	03/21/2013	N	80	<5	<5	**82**	<5	**170 J**	<5	<5	**9.1**
SAIA-CPT10	SAIA-CPT10-90	03/21/2013	N	100	<0.5	<0.5	**7.6**	<0.5	**13 J**	<0.5	<0.5	<0.5
SAIA-CPT10	SAIA-CPT10-110	03/21/2013	N	122	**9.9**	<0.5	<0.5	<0.5	**15**	<0.5	<0.5	<0.5
SAIA-CPT11	SAIA-CPT11-40	03/20/2013	N	42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
SAIA-CPT11	SAIA-CPT11-50	03/20/2013	N	64	**9.4**	<4	**2.3 J**	<4	**120**	<4	**62**	**1.5**
SAIA-CPT11	SAIA-CPT11-70	03/20/2013	N	84	<20	<20	**86**	<20	**140**	<20	<20	**3.7**
SAIA-CPT11	SAIA-CPT11-90	03/20/2013	N	104	<0.5	<0.5	**13**	<0.5	**2.8**	<0.5	<0.5	**1.6**
SAIA-CPT11	SAIA-CPT11-91	03/20/2013	FD	104	<1	<1	**14**	<1	**2.9**	<1	<1	**1.1**
SAIA-CPT11	SAIA-CPT11-110	03/20/2013	N	129	<0.5	<0.5	<0.5	<0.5	**0.66**	<0.5	<0.5	<0.5
SAIA-CPT12	SAIA-CPT12-40	03/19/2013	N	41	<0.5	<0.5	<0.5	<0.5	**0.083 J**	<0.5	<0.5	<0.5
SAIA-CPT12	SAIA-CPT12-50	03/19/2013	N	65	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.48 J**
SAIA-CPT12	SAIA-CPT12-70	03/19/2013	N	80	<2	<2	**7.5**	<2	**44**	<2	<2	<0.5
SAIA-CPT12	SAIA-CPT12-90	03/19/2013	N	98	<0.5	<0.5	**5.9**	<0.5	**1.4**	<0.5	<0.5	<0.5
SAIA-CPT12	SAIA-CPT12-110	03/19/2013	N	120	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT13	SAIA-CPT13-40	03/15/2013	N	42	<0.5	<0.5	**0.18 J**	<0.5	**0.15 J**	<0.5	<0.5	<0.5
SAIA-CPT13	SAIA-CPT13-50	03/15/2013	N	68	<0.5	<0.5	**0.48 J**	<0.5	**0.94**	<0.5	<0.5	<0.5
SAIA-CPT13	SAIA-CPT13-70	03/15/2013	N	82	<0.5	<0.5	**0.69**	<0.5	**3.3**	<0.5	<0.5	<0.5

Appendix E-4
Analytical Results for Discrete-Depth Groundwater Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Volatiles (in ugL)														
Location ID	Sample ID	Sample Date	Sample Type	Sample Depth	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene
SAIA-CPT13	SAIA-CPT13-90	03/15/2013	N	98	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.36 J**	<0.5	<0.5
SAIA-CPT13	SAIA-CPT13-110	03/15/2013	N	121	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT14	SAIA-CPT14-60	07/23/2015	N	60	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT14	SAIA-CPT14-75	07/23/2015	N	75	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT14	SAIA-CPT14-76	07/23/2015	FD	75	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT14	SAIA-CPT14-90	07/23/2015	N	100	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
SAIA-CPT14	SAIA-CPT14-130	07/23/2015	N	130	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-CPT15	SAIA-CPT15-45	07/29/2015	N	45	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT15	SAIA-CPT15-60	07/28/2015	N	60	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT15	SAIA-CPT15-75	07/28/2015	N	75	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT15	SAIA-CPT15-90	07/28/2015	N	90	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
SAIA-CPT15	SAIA-CPT15-91	07/28/2015	FD	90	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
SAIA-CPT15	SAIA-CPT15-105	07/28/2015	N	105	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.4 J**	<0.5	<0.5
SAIA-CPT15	SAIA-CPT15-130	07/28/2015	N	130	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT16	SAIA-CPT16-45	07/30/2015	N	40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT16	SAIA-CPT16-60	07/29/2015	N	55	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT16	SAIA-CPT16-75	07/29/2015	N	70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT16	SAIA-CPT16-90	07/29/2015	N	85	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.23 J**	<0.5	<0.5
SAIA-CPT16	SAIA-CPT16-105	07/29/2015	N	105	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT16	SAIA-CPT16-130	07/29/2015	N	125	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT17	SAIA-CPT17-45	07/31/2015	N	40	<0.5	<0.5	<0.5	<0.5	**3**	**3.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT17	SAIA-CPT17-60	07/30/2015	N	60	<0.5	<0.5	<0.5	<0.5	**7.7**	**4.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT17	SAIA-CPT17-75	07/30/2015	N	70	<0.5	<0.5	<0.5	<0.5	**1.3**	**3.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT17	SAIA-CPT17-76	07/30/2015	FD	70	<0.5	<0.5	<0.5	<0.5	**1.4**	**3.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT17	SAIA-CPT17-90	07/30/2015	N	95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT17	SAIA-CPT17-105	07/30/2015	N	105	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.3 J**	<0.5	<0.5
SAIA-CPT17	SAIA-CPT17-130	07/30/2015	N	130	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT18	SAIA-CPT18-45	07/31/2015	N	50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT18	SAIA-CPT18-60	07/31/2015	N	70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT18	SAIA-CPT18-75	07/31/2015	N	85	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Appendix E-4
Analytical Results for Discrete-Depth Groundwater Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Volatiles (in ug/L)														
Location ID	Sample ID	Sample Date	Sample Type	Sample Depth	1,4-Dichlorobenzene	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform
SAIA-CPT13	SAIA-CPT13-90	03/15/2013	N	98	<0.5	<5	<5	<5	**4.6 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT13	SAIA-CPT13-110	03/15/2013	N	121	<0.5	<5	<5	<5	**21**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT14	SAIA-CPT14-60	07/23/2015	N	60	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT14	SAIA-CPT14-75	07/23/2015	N	75	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT14	SAIA-CPT14-76	07/23/2015	FD	75	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT14	SAIA-CPT14-90	07/23/2015	N	100	<2.5	<25	<25	<25	<25	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
SAIA-CPT14	SAIA-CPT14-130	07/23/2015	N	130	<5	<50	<50	<50	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-CPT15	SAIA-CPT15-45	07/29/2015	N	45	<0.5	<5	<5	<5	<6.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT15	SAIA-CPT15-60	07/28/2015	N	60	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT15	SAIA-CPT15-75	07/28/2015	N	75	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT15	SAIA-CPT15-90	07/28/2015	N	90	<2	<20	<20	<20	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
SAIA-CPT15	SAIA-CPT15-91	07/28/2015	FD	90	<2.5	<25	<25	<25	<25	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
SAIA-CPT15	SAIA-CPT15-105	07/28/2015	N	105	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT15	SAIA-CPT15-130	07/28/2015	N	130	<0.5	<5	<5	<5	<7.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT16	SAIA-CPT16-45	07/30/2015	N	40	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT16	SAIA-CPT16-60	07/29/2015	N	55	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT16	SAIA-CPT16-75	07/29/2015	N	70	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT16	SAIA-CPT16-90	07/29/2015	N	85	<0.5	<5	<5	<5	<11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT16	SAIA-CPT16-105	07/29/2015	N	105	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT16	SAIA-CPT16-130	07/29/2015	N	125	<0.5	<5	<5	<5	<5.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT17	SAIA-CPT17-45	07/31/2015	N	40	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT17	SAIA-CPT17-60	07/30/2015	N	60	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT17	SAIA-CPT17-75	07/30/2015	N	70	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT17	SAIA-CPT17-76	07/30/2015	FD	70	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT17	SAIA-CPT17-90	07/30/2015	N	95	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT17	SAIA-CPT17-105	07/30/2015	N	105	<0.5	<5	<5	<5	**7.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT17	SAIA-CPT17-130	07/30/2015	N	130	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	**0.36 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT18	SAIA-CPT18-45	07/31/2015	N	50	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT18	SAIA-CPT18-60	07/31/2015	N	70	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT18	SAIA-CPT18-75	07/31/2015	N	85	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Appendix E-4
Analytical Results for Discrete-Depth Groundwater Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Volatiles (in ug/L)														
Location ID	Sample ID	Sample Date	Sample Type	Sample Depth	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene (Cumene)	m,p-Xylene	Methyl Acetate	Methylcyclohexane	Methylene Chloride	o-Xylene	Styrene	tert-Butyl Methyl Ether (MTBE)
SAIA-CPT13	SAIA-CPT13-90	03/15/2013	N	98	<0.5	**9.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT13	SAIA-CPT13-110	03/15/2013	N	121	<0.5	**0.091 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.42 J**	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT14	SAIA-CPT14-60	07/23/2015	N	60	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.3 J**	<0.5	<0.5	<0.5
SAIA-CPT14	SAIA-CPT14-75	07/23/2015	N	75	<0.5	**130**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT14	SAIA-CPT14-76	07/23/2015	FD	75	<0.5	**140**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.26 J**	<0.5	<0.5	<0.5
SAIA-CPT14	SAIA-CPT14-90	07/23/2015	N	100	<2.5	**440**	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
SAIA-CPT14	SAIA-CPT14-130	07/23/2015	N	130	<5	**770**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-CPT15	SAIA-CPT15-45	07/29/2015	N	45	<0.5	**0.65**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.53**	<0.5	<0.5	<0.5
SAIA-CPT15	SAIA-CPT15-60	07/28/2015	N	60	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT15	SAIA-CPT15-75	07/28/2015	N	75	<0.5	**180**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT15	SAIA-CPT15-90	07/28/2015	N	90	<2	**250**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
SAIA-CPT15	SAIA-CPT15-91	07/28/2015	FD	90	<2.5	**270**	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
SAIA-CPT15	SAIA-CPT15-105	07/28/2015	N	105	<0.5	**120**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT15	SAIA-CPT15-130	07/28/2015	N	130	<0.5	**150**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT16	SAIA-CPT16-45	07/30/2015	N	40	<0.5	**0.56**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT16	SAIA-CPT16-60	07/29/2015	N	55	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT16	SAIA-CPT16-75	07/29/2015	N	70	<0.5	**9.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT16	SAIA-CPT16-90	07/29/2015	N	85	<0.5	**72**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT16	SAIA-CPT16-105	07/29/2015	N	105	<0.5	**120**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT16	SAIA-CPT16-130	07/29/2015	N	125	<0.5	**6.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT17	SAIA-CPT17-45	07/31/2015	N	40	<0.5	**2**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT17	SAIA-CPT17-60	07/30/2015	N	60	<0.5	**6.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT17	SAIA-CPT17-75	07/30/2015	N	70	<0.5	**37**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT17	SAIA-CPT17-76	07/30/2015	FD	70	<0.5	**40**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT17	SAIA-CPT17-90	07/30/2015	N	95	<0.5	**11**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT17	SAIA-CPT17-105	07/30/2015	N	105	<0.5	**29**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT17	SAIA-CPT17-130	07/30/2015	N	130	<0.5	<0.5	<0.5	<0.5	**0.36 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT18	SAIA-CPT18-45	07/31/2015	N	50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT18	SAIA-CPT18-60	07/31/2015	N	70	<0.5	**1.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT18	SAIA-CPT18-75	07/31/2015	N	85	<0.5	**8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Appendix E-4
Analytical Results for Discrete-Depth Groundwater Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Volatiles (in ug/L)							Semivolatiles (in ug/L)
Location ID	Sample ID	Sample Date	Sample Type	Sample Depth	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	1,4-Dioxane (p-Dioxane)
SAIA-CPT13	SAIA-CPT13-90	03/15/2013	N	98	<0.5	<0.5	**2.4**	<0.5	**6**	<0.5	<0.5	<0.5
SAIA-CPT13	SAIA-CPT13-110	03/15/2013	N	121	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT14	SAIA-CPT14-60	07/23/2015	N	60	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT14	SAIA-CPT14-75	07/23/2015	N	75	<0.5	<0.5	**7.1**	<0.5	**2.7**	<0.5	<0.5	<0.5
SAIA-CPT14	SAIA-CPT14-76	07/23/2015	FD	75	<0.5	<0.5	**8.4**	<0.5	**3.1**	<0.5	<0.5	**0.37 J**
SAIA-CPT14	SAIA-CPT14-90	07/23/2015	N	100	<2.5	<2.5	**36**	<2.5	<2.5	<2.5	<2.5	<0.5
SAIA-CPT14	SAIA-CPT14-130	07/23/2015	N	130	<5	<5	**33**	<5	<5	<5	<5	**0.27 J**
SAIA-CPT15	SAIA-CPT15-45	07/29/2015	N	45	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT15	SAIA-CPT15-60	07/28/2015	N	60	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT15	SAIA-CPT15-75	07/28/2015	N	75	<0.5	<0.5	**19**	<0.5	**5**	<0.5	<0.5	<0.5
SAIA-CPT15	SAIA-CPT15-90	07/28/2015	N	90	<2	<2	**25**	<2	**2.4**	<2	<2	<0.5
SAIA-CPT15	SAIA-CPT15-91	07/28/2015	FD	90	<2.5	<2.5	**24**	<2.5	**2.2 J**	<2.5	<2.5	<0.5
SAIA-CPT15	SAIA-CPT15-105	07/28/2015	N	105	<0.5	<0.5	**11**	<0.5	**0.87**	<0.5	<0.5	<0.5
SAIA-CPT15	SAIA-CPT15-130	07/28/2015	N	130	<0.5	<0.5	**3.4**	<0.5	**4.1**	<0.5	<0.5	<0.5
SAIA-CPT16	SAIA-CPT16-45	07/30/2015	N	40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
SAIA-CPT16	SAIA-CPT16-60	07/29/2015	N	55	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.31 J**
SAIA-CPT16	SAIA-CPT16-75	07/29/2015	N	70	<0.5	<0.5	**2**	<0.5	**1.4**	<0.5	<0.5	<0.5
SAIA-CPT16	SAIA-CPT16-90	07/29/2015	N	85	<0.5	<0.5	**16**	<0.5	**7.8**	<0.5	<0.5	<0.5
SAIA-CPT16	SAIA-CPT16-105	07/29/2015	N	105	<0.5	<0.5	**14**	<0.5	**0.94**	<0.5	<0.5	<0.5
SAIA-CPT16	SAIA-CPT16-130	07/29/2015	N	125	<0.5	<0.5	**0.4 J**	<0.5	**1.2**	<0.5	<0.5	<0.5
SAIA-CPT17	SAIA-CPT17-45	07/31/2015	N	40	<0.5	<0.5	**0.39 J**	<0.5	**0.46 J**	<0.5	<0.5	**0.68**
SAIA-CPT17	SAIA-CPT17-60	07/30/2015	N	60	<0.5	<0.5	**0.57**	<0.5	**0.59**	<0.5	<0.5	**14**
SAIA-CPT17	SAIA-CPT17-75	07/30/2015	N	70	<0.5	<0.5	**5.1**	<0.5	**13**	<0.5	<0.5	**2.1**
SAIA-CPT17	SAIA-CPT17-76	07/30/2015	FD	70	<0.5	<0.5	**5.6**	<0.5	**14**	<0.5	<0.5	**1.4**
SAIA-CPT17	SAIA-CPT17-90	07/30/2015	N	95	<0.5	<0.5	**1.2**	<0.5	**2.5**	<0.5	<0.5	<0.5
SAIA-CPT17	SAIA-CPT17-105	07/30/2015	N	105	<0.5	<0.5	**4.7**	<0.5	**2**	<0.5	<0.5	<0.5
SAIA-CPT17	SAIA-CPT17-130	07/30/2015	N	130	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT18	SAIA-CPT18-45	07/31/2015	N	50	<0.5	<0.5	<0.5	<0.5	**0.27 J**	<0.5	<0.5	**0.51**
SAIA-CPT18	SAIA-CPT18-60	07/31/2015	N	70	<0.5	<0.5	<0.5	<0.5	**0.97**	<0.5	<0.5	<0.5
SAIA-CPT18	SAIA-CPT18-75	07/31/2015	N	85	<0.5	<0.5	**0.61**	<0.5	**0.61**	<0.5	<0.5	**0.6**

Appendix E-4
Analytical Results for Discrete-Depth Groundwater Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Volatiles (in ugL)														
Location ID	Sample ID	Sample Date	Sample Type	Sample Depth	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene
SAIA-CPT18	SAIA-CPT18-105	07/31/2015	N	100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT18	SAIA-CPT18-130	07/31/2015	N	105	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT19	SAIA-CPT19-45	07/27/2015	N	40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT19	SAIA-CPT19-60	07/24/2015	N	70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT19	SAIA-CPT19-75	07/24/2015	N	90	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT19	SAIA-CPT19-90	07/24/2015	N	100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.26 J**	<0.5	<0.5
SAIA-CPT19	SAIA-CPT19-105	07/24/2015	N	115	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT19	SAIA-CPT19-130	07/24/2015	N	130	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
SAIA-CPT20	SAIA-CPT20-45	07/28/2015	N	40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT20	SAIA-CPT20-60	07/27/2015	N	50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT20	SAIA-CPT20-75	07/27/2015	N	85	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT20	SAIA-CPT20-76	07/27/2015	FD	85	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT20	SAIA-CPT20-105	07/27/2015	N	105	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT20	SAIA-CPT20-130	07/27/2015	N	130	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.35 J**	<0.5	<0.5
SAIA-HP10	SAIA-HP10-40	02/28/2013	N	42	<0.5	<0.5	<0.5	<0.5	**0.23 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP10	SAIA-HP10-50	02/27/2013	N	64	<25	<25	<25	<25	**22 J**	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
SAIA-HP10	SAIA-HP10-70	02/27/2013	N	85	<4	<4	<4	<4	**2.2 J**	<4	<4	<4	<4	<4	<4	<4	**58**	<4	<4
SAIA-HP10	SAIA-HP10-90	02/27/2013	N	102	<25	<25	<25	<25	**13 J**	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
SAIA-HP10	SAIA-HP10-110	02/27/2013	N	122	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.46 J**	<0.5	<0.5
SAIA-HP17	SAIA-HP17-50	03/11/2013	N	65	<2	<2	<2	<2	**0.32 J**	<2	<2	<2	<2	<2	<2	<2	**32**	<2	<2
SAIA-HP17	SAIA-HP17-51	03/11/2013	FD	65	<2	<2	<2	<2	**0.27 J**	<2	<2	<2	<2	<2	<2	<2	**25**	<2	<2
SAIA-HP17	SAIA-HP17-70	03/11/2013	N	82	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**3.6**	<0.5	<0.5
SAIA-HP17	SAIA-HP17-90	03/11/2013	N	100	<0.5	<0.5	<0.5	<0.5	**0.12 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.49 J**	<0.5	<0.5
SAIA-HP17	SAIA-HP17-110	03/11/2013	N	123	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.42 J**	<0.5	<0.5
SAIA-HP18	SAIA-HP18-50	03/12/2013	N	67	<0.5	<0.5	<0.5	<0.5	**0.12 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.17 J**	<0.5	<0.5
SAIA-HP18	SAIA-HP18-70	03/12/2013	N	85	<2	<2	<2	<2	**1.7 J**	**4.5**	<2	<2	<2	<2	<2	<2	**53**	<2	<2
SAIA-HP18	SAIA-HP18-90	03/12/2013	N	100	<5	<5	<5	<5	**5.8**	**7.3**	<5	<5	<5	<5	<5	<5	**29**	<5	<5
SAIA-HP18	SAIA-HP18-91	03/12/2013	FD	100	<4	<4	<4	<4	**8.5**	**11**	<4	<4	<4	<4	<4	<4	**52**	<4	<4
SAIA-HP18	SAIA-HP18-110	03/12/2013	N	124	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.66**	<0.5	<0.5
SAIA-HP21	SAIA-HP21-40	02/26/2013	N	42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Appendix E-4
Analytical Results for Discrete-Depth Groundwater Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Volatiles (in ug/L)														
Location ID	Sample ID	Sample Date	Sample Type	Sample Depth	1,4-Dichlorobenzene	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform
SAIA-CPT18	SAIA-CPT18-105	07/31/2015	N	100	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT18	SAIA-CPT18-130	07/31/2015	N	105	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT19	SAIA-CPT19-45	07/27/2015	N	40	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT19	SAIA-CPT19-60	07/24/2015	N	70	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT19	SAIA-CPT19-75	07/24/2015	N	90	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT19	SAIA-CPT19-90	07/24/2015	N	100	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT19	SAIA-CPT19-105	07/24/2015	N	115	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT19	SAIA-CPT19-130	07/24/2015	N	130	<2.5	<25	<25	<25	<25	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
SAIA-CPT20	SAIA-CPT20-45	07/28/2015	N	40	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT20	SAIA-CPT20-60	07/27/2015	N	50	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT20	SAIA-CPT20-75	07/27/2015	N	85	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT20	SAIA-CPT20-76	07/27/2015	FD	85	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT20	SAIA-CPT20-105	07/27/2015	N	105	<0.5	<5	<5	<5	<15	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT20	SAIA-CPT20-130	07/27/2015	N	130	<0.5	<5	<5	<5	<7.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP10	SAIA-HP10-40	02/28/2013	N	42	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP10	SAIA-HP10-50	02/27/2013	N	64	<25	<250	<250	<250	<250	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
SAIA-HP10	SAIA-HP10-70	02/27/2013	N	85	<4	<40	<40	<40	<40	**15**	<4	<4	<4	<4	<4	<4	<4	<4	<4
SAIA-HP10	SAIA-HP10-90	02/27/2013	N	102	<25	<250	<250	<250	<250	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
SAIA-HP10	SAIA-HP10-110	02/27/2013	N	122	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP17	SAIA-HP17-50	03/11/2013	N	65	<2	<20	<20	<20	**12 J**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
SAIA-HP17	SAIA-HP17-51	03/11/2013	FD	65	<2	<20	<20	<20	**10 J**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
SAIA-HP17	SAIA-HP17-70	03/11/2013	N	82	<0.5	<5	<5	<5	**16**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP17	SAIA-HP17-90	03/11/2013	N	100	<0.5	<5	<5	<5	**11**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP17	SAIA-HP17-110	03/11/2013	N	123	<0.5	<5	<5	<5	**87**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP18	SAIA-HP18-50	03/12/2013	N	67	<0.5	<5	<5	<5	**4 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP18	SAIA-HP18-70	03/12/2013	N	85	<2	<20	<20	<20	**12 J**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
SAIA-HP18	SAIA-HP18-90	03/12/2013	N	100	<5	<50	<50	<50	**21 J**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-HP18	SAIA-HP18-91	03/12/2013	FD	100	<4	<40	<40	<40	<40	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
SAIA-HP18	SAIA-HP18-110	03/12/2013	N	124	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP21	SAIA-HP21-40	02/26/2013	N	42	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Appendix E-4
Analytical Results for Discrete-Depth Groundwater Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Volatiles (in ug/L)														
Location ID	Sample ID	Sample Date	Sample Type	Sample Depth	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene (Cumene)	m,p-Xylene	Methyl Acetate	Methylcyclohexane	Methylene Chloride	o-Xylene	Styrene	tert-Butyl Methyl Ether (MTBE)
SAIA-CPT18	SAIA-CPT18-105	07/31/2015	N	100	<0.5	**11**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT18	SAIA-CPT18-130	07/31/2015	N	105	<0.5	**1.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT19	SAIA-CPT19-45	07/27/2015	N	40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT19	SAIA-CPT19-60	07/24/2015	N	70	<0.5	**20**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT19	SAIA-CPT19-75	07/24/2015	N	90	<0.5	**46**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT19	SAIA-CPT19-90	07/24/2015	N	100	<0.5	**44**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT19	SAIA-CPT19-105	07/24/2015	N	115	<0.5	**46**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT19	SAIA-CPT19-130	07/24/2015	N	130	<2.5	**530**	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<3.2	<2.5	<2.5	<2.5
SAIA-CPT20	SAIA-CPT20-45	07/28/2015	N	40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT20	SAIA-CPT20-60	07/27/2015	N	50	<0.5	**9.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT20	SAIA-CPT20-75	07/27/2015	N	85	<0.5	**20**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT20	SAIA-CPT20-76	07/27/2015	FD	85	<0.5	**18**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT20	SAIA-CPT20-105	07/27/2015	N	105	<0.5	**7.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-CPT20	SAIA-CPT20-130	07/27/2015	N	130	<0.5	**45**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP10	SAIA-HP10-40	02/28/2013	N	42	<0.5	**11**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP10	SAIA-HP10-50	02/27/2013	N	64	<25	**2,000**	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
SAIA-HP10	SAIA-HP10-70	02/27/2013	N	85	<4	**400**	<4	**2 J**	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
SAIA-HP10	SAIA-HP10-90	02/27/2013	N	102	<25	**560**	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
SAIA-HP10	SAIA-HP10-110	02/27/2013	N	122	<0.5	**5.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP17	SAIA-HP17-50	03/11/2013	N	65	<2	**62**	<2	**1.4 J**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
SAIA-HP17	SAIA-HP17-51	03/11/2013	FD	65	<2	**50**	<2	**1.1 J**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
SAIA-HP17	SAIA-HP17-70	03/11/2013	N	82	<0.5	**1.3**	<0.5	**0.38 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP17	SAIA-HP17-90	03/11/2013	N	100	<0.5	**21**	<0.5	**0.069 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP17	SAIA-HP17-110	03/11/2013	N	123	<0.5	**0.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP18	SAIA-HP18-50	03/12/2013	N	67	<0.5	**5.8**	<0.5	**0.097 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP18	SAIA-HP18-70	03/12/2013	N	85	<2	**170**	<2	**2.5**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
SAIA-HP18	SAIA-HP18-90	03/12/2013	N	100	<5	**460**	<5	**2.2 J**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
SAIA-HP18	SAIA-HP18-91	03/12/2013	FD	100	<4	**960**	<4	**3.8 J**	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
SAIA-HP18	SAIA-HP18-110	03/12/2013	N	124	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP21	SAIA-HP21-40	02/26/2013	N	42	<0.5	**8.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Appendix E-4
Analytical Results for Discrete-Depth Groundwater Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Volatiles (in ug/L)							Semivolatiles (in ug/L)
Location ID	Sample ID	Sample Date	Sample Type	Sample Depth	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	1,4-Dioxane (p-Dioxane)
SAIA-CPT18	SAIA-CPT18-105	07/31/2015	N	100	<0.5	<0.5	**1.4**	<0.5	**0.64**	<0.5	<0.5	<0.5
SAIA-CPT18	SAIA-CPT18-130	07/31/2015	N	105	<0.5	<0.5	<0.5	<0.5	**0.53**	<0.5	<0.5	**1.1**
SAIA-CPT19	SAIA-CPT19-45	07/27/2015	N	40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.6**
SAIA-CPT19	SAIA-CPT19-60	07/24/2015	N	70	<0.5	<0.5	**6.7**	<0.5	**1.2**	<0.5	<0.5	<0.5
SAIA-CPT19	SAIA-CPT19-75	07/24/2015	N	90	<0.5	<0.5	**11**	<0.5	**0.52**	<0.5	<0.5	<0.5
SAIA-CPT19	SAIA-CPT19-90	07/24/2015	N	100	<0.5	<0.5	**13**	<0.5	**1.1**	<0.5	<0.5	<0.5
SAIA-CPT19	SAIA-CPT19-105	07/24/2015	N	115	<0.5	<0.5	**3.6**	<0.5	**33**	<0.5	<0.5	<0.5
SAIA-CPT19	SAIA-CPT19-130	07/24/2015	N	130	<2.5	<2.5	**26**	<2.5	**8**	<2.5	<2.5	**0.87**
SAIA-CPT20	SAIA-CPT20-45	07/28/2015	N	40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.35 J**
SAIA-CPT20	SAIA-CPT20-60	07/27/2015	N	50	<0.5	<0.5	**2**	<0.5	**1.5**	<0.5	<0.5	**0.62**
SAIA-CPT20	SAIA-CPT20-75	07/27/2015	N	85	<0.5	<0.5	**3.5**	<0.5	**2**	<0.5	<0.5	**0.35 J**
SAIA-CPT20	SAIA-CPT20-76	07/27/2015	FD	85	<0.5	<0.5	**3.6**	<0.5	**2**	<0.5	<0.5	**0.42 J**
SAIA-CPT20	SAIA-CPT20-105	07/27/2015	N	105	<0.5	<0.5	**1.2**	<0.5	**0.55**	<0.5	<0.5	<0.5
SAIA-CPT20	SAIA-CPT20-130	07/27/2015	N	130	<0.5	<0.5	**7.6**	<0.5	**0.42 J**	<0.5	<0.5	--
SAIA-HP10	SAIA-HP10-40	02/28/2013	N	42	**0.18 J**	**0.15 J**	**0.33 J**	<0.5	**20**	<0.5	<0.5	<0.5
SAIA-HP10	SAIA-HP10-50	02/27/2013	N	64	<25	<25	**43**	<25	**1,400**	<25	<25	**19**
SAIA-HP10	SAIA-HP10-70	02/27/2013	N	85	<4	<4	**19**	<4	**8.7**	<4	<4	**6**
SAIA-HP10	SAIA-HP10-90	02/27/2013	N	102	<25	<25	**33**	<25	**1,800 J**	<25	<25	**0.6**
SAIA-HP10	SAIA-HP10-110	02/27/2013	N	122	<0.5	<0.5	**0.36 J**	<0.5	**12**	<0.5	<0.5	**32**
SAIA-HP17	SAIA-HP17-50	03/11/2013	N	65	<2	<2	**3.5**	<2	**88**	<2	<2	**1.7**
SAIA-HP17	SAIA-HP17-51	03/11/2013	FD	65	<2	<2	**2.9**	<2	**110**	<2	<2	**1.1**
SAIA-HP17	SAIA-HP17-70	03/11/2013	N	82	<0.5	<0.5	**0.29 J**	<0.5	**10**	<0.5	<0.5	**1.2**
SAIA-HP17	SAIA-HP17-90	03/11/2013	N	100	<0.5	<0.5	**2.3**	<0.5	**24**	<0.5	<0.5	**1.8**
SAIA-HP17	SAIA-HP17-110	03/11/2013	N	123	<0.5	<0.5	<0.5	<0.5	**0.6**	<0.5	<0.5	**7.1**
SAIA-HP18	SAIA-HP18-50	03/12/2013	N	67	<0.5	<0.5	**0.79**	<0.5	**40**	<0.5	<0.5	**2.6**
SAIA-HP18	SAIA-HP18-70	03/12/2013	N	85	<2	<2	**13**	<2	**38**	<2	<2	**6.8**
SAIA-HP18	SAIA-HP18-90	03/12/2013	N	100	<5	<5	**66**	<5	**180**	<5	<5	**13**
SAIA-HP18	SAIA-HP18-91	03/12/2013	FD	100	<4	<4	**100**	<4	**410**	<4	<4	**11**
SAIA-HP18	SAIA-HP18-110	03/12/2013	N	124	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP21	SAIA-HP21-40	02/26/2013	N	42	<0.5	<0.5	<0.5	<0.5	**0.62**	<0.5	<0.5	<0.5

Appendix E-4
Analytical Results for Discrete-Depth Groundwater Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Volatiles (in ugL)															
Location ID	Sample ID	Sample Date	Sample Type	Sample Depth	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene
SAIA-HP21	SAIA-HP21-50	02/26/2013	N	64	<25	<25	<25	<25	**13 J**	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
SAIA-HP21	SAIA-HP21-70	02/26/2013	N	85	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**3.8**	**0.38 J**	<0.5
SAIA-HP21	SAIA-HP21-90	02/26/2013	N	102	<2	<2	<2	<2	**1.3 J**	<2	<2	<2	<2	<2	<2	<2	**7.6**	<2	<2
SAIA-HP21	SAIA-HP21-110	02/26/2013	N	122	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP21	SAIA-HP21-140	02/26/2013	N	142	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP36	SAIA-HP36-50	02/28/2013	N	64	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP36	SAIA-HP36-70	02/28/2013	N	89	<0.5	<0.5	<0.5	<0.5	**7.9**	**2.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2.3**	**0.47 J**	<0.5
SAIA-HP36	SAIA-HP36-90	02/28/2013	N	108	<0.5	<0.5	<0.5	<0.5	**0.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.4 J**	<0.5	<0.5
SAIA-HP36	SAIA-HP36-110	02/28/2013	N	128	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.1**	<0.5	<0.5

Appendix E-4
Analytical Results for Discrete-Depth Groundwater Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Volatiles (in ug/L)														
Location ID	Sample ID	Sample Date	Sample Type	Sample Depth	1,4-Dichlorobenzene	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform
SAIA-HP21	SAIA-HP21-50	02/26/2013	N	64	<25	<250	<250	<250	<250	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
SAIA-HP21	SAIA-HP21-70	02/26/2013	N	85	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP21	SAIA-HP21-90	02/26/2013	N	102	<2	<20	<20	<20	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
SAIA-HP21	SAIA-HP21-110	02/26/2013	N	122	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP21	SAIA-HP21-140	02/26/2013	N	142	<0.5	**3.3 J**	<5	<5	**14**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP36	SAIA-HP36-50	02/28/2013	N	64	<0.5	<5	<5	<5	**4.9 J**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP36	SAIA-HP36-70	02/28/2013	N	89	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP36	SAIA-HP36-90	02/28/2013	N	108	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP36	SAIA-HP36-110	02/28/2013	N	128	<0.5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Appendix E-4
Analytical Results for Discrete-Depth Groundwater Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Volatiles (in ug/L)															
Location ID	Sample ID	Sample Date	Sample Type	Sample Depth	Chloromethane	cis-1,2-Dichloroethylene	cis-1,3-Dichloropropene	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene (Cumene)	m,p-Xylene	Methyl Acetate	Methylcyclohexane	Methylene Chloride	o-Xylene	Styrene	tert-Butyl Methyl Ether (MTBE)
SAIA-HP21	SAIA-HP21-50	02/26/2013	N	64	<25	**2,100**	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
SAIA-HP21	SAIA-HP21-70	02/26/2013	N	85	<0.5	**20**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP21	SAIA-HP21-90	02/26/2013	N	102	<2	**30**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
SAIA-HP21	SAIA-HP21-110	02/26/2013	N	122	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP21	SAIA-HP21-140	02/26/2013	N	142	<0.5	**2.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP36	SAIA-HP36-50	02/28/2013	N	64	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP36	SAIA-HP36-70	02/28/2013	N	89	<0.5	**61**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP36	SAIA-HP36-90	02/28/2013	N	108	<0.5	**18**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SAIA-HP36	SAIA-HP36-110	02/28/2013	N	128	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Appendix E-4
Analytical Results for Discrete-Depth Groundwater Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

					Volatiles (in ug/L)							Semivolatiles (in ug/L)
Location ID	Sample ID	Sample Date	Sample Type	Sample Depth	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Vinyl Chloride	1,4-Dioxane (p-Dioxane)
SAIA-HP21	SAIA-HP21-50	02/26/2013	N	64	<25	<25	**50**	<25	**3,500**	<25	<25	**33**
SAIA-HP21	SAIA-HP21-70	02/26/2013	N	85	<0.5	<0.5	**1.7**	<0.5	**4.5**	<0.5	<0.5	**0.56**
SAIA-HP21	SAIA-HP21-90	02/26/2013	N	102	<2	<2	**4.2**	<2	**170**	<2	<2	**6**
SAIA-HP21	SAIA-HP21-110	02/26/2013	N	122	<0.5	<0.5	<0.5	<0.5	**0.22 J**	<0.5	<0.5	<0.5
SAIA-HP21	SAIA-HP21-140	02/26/2013	N	142	<0.5	<0.5	<0.5	<0.5	**3.9**	<0.5	<0.5	<0.5
SAIA-HP36	SAIA-HP36-50	02/28/2013	N	64	<0.5	<0.5	<0.5	<0.5	**0.34 J**	<0.5	<0.5	<0.5
SAIA-HP36	SAIA-HP36-70	02/28/2013	N	89	<0.5	<0.5	**4.5**	<0.5	**12**	<0.5	**6.6**	**23**
SAIA-HP36	SAIA-HP36-90	02/28/2013	N	108	<0.5	<0.5	**2**	<0.5	**0.61**	<0.5	<0.5	**1.9**
SAIA-HP36	SAIA-HP36-110	02/28/2013	N	128	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Notes:
Detected results shown in bold
ID = identification number
FD = Field duplicate sample results
J = estimated value
N = Normal sample results
R = Rejected results
ug/L = Micrograms per liter
-- = Not analyzed

Appendix E-5

Analytical Results for Air Samples

Appendix E-5
Analytical Results for Air Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

Location ID	Sample ID	Sample Date	Sample Type	Volatiles (in ug/m3)										
				1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene	1,2-Dichloroethane	1,3,5-Trimethylbenzene	Benzene	cis-1,2-Dichloroethylene	Ethylbenzene	m,p-Xylene
RES01-CS01	RES01-CS01-0415	04/17/2015	N	<0.15	<0.14	<0.15	<0.5	**0.47**	**0.054 J**	**0.13 J**	**0.86**	<0.15	**0.34**	**1.1**
RES01-CS01	RES01-CS01-0116	01/27/2016	N	<0.16	<0.15	<0.15	<0.15	**0.93 J**	<0.13	**0.19 J**	**0.89 J**	<0.15	**0.59 J**	**2 J**
RES01-IA01	RES01-IA01-0415	04/17/2015	N	<0.15	<0.14	<0.15	<0.5	**0.4**	**0.19**	**0.11 J**	**0.63**	<0.15	**0.34**	**1**
RES01-IA01	RES01-IA01-0116	01/27/2016	N	<0.17	<0.15	<0.15	<0.15	**1.4**	**0.08 J**	**0.27 J**	**1.2**	<0.15	**0.98**	**3.3**
RES01-OA01	RES01-OA01-0116	01/27/2016	N	<0.17	<0.15	<0.15	<0.15	**1.6**	**0.07 J**	**0.35 J**	**1.6**	<0.15	**1.1**	**3.7**
RES01-OA01	RES01-OA01-0116	01/27/2016	FD	<0.16	<0.14	<0.14	<0.14	**1.6**	<0.13	**0.33 J**	**1.2**	<0.14	**0.97**	**3.3**
RES02-CS01	RES02-CS01-0415	04/17/2015	N	<0.15	<0.14	<0.15	<0.5	**0.36**	**0.051 J**	**0.099 J**	**0.71**	<0.15	**0.3**	**0.96**
RES02-CS01	RES02-CS01-0116	01/27/2016	N	<0.16	<0.14	<0.14	<0.14	**1.4**	<0.13	**0.27 J**	**1.2**	<0.14	**0.82**	**2.7**
RES02-IA01	RES02-IA01-0415	04/24/2015	N	<0.16	<0.15	<0.16	<0.52	**0.37**	**0.043 J**	**0.094 J**	**0.55**	<0.16	**0.21**	**0.65**
RES02-IA01	RES02-IA01-0116	01/27/2016	N	<0.16	<0.14	<0.14	<0.14	**1.1 J**	**0.07 J**	**0.22 J**	**1.5 J**	<0.14	**0.67 J**	**2.2 J**
RES03-IA01	RES03-IA01-0415	04/23/2015	N	<0.16	<0.15	<0.16	<0.53	**0.54**	**0.099 J**	**0.16 J**	**0.66**	<0.16	**0.31**	**0.92**
RES03-IA01	RES03-IA01-0116	01/27/2016	N	<0.16	<0.14	<0.14	<0.14	**1.8**	**0.09 J**	**0.34 J**	**1.8**	<0.14	**0.84**	**2.7**
RES04-IA02	RES04-IA02-0415	04/23/2015	N	<0.16	<0.15	<0.16	<0.52	**0.68**	**0.068 J**	**0.18 J**	**0.78**	<0.16	**0.37**	**1**
RES04-IA02	RES04-IA02-0116	01/28/2016	N	<0.17	<0.15	<0.15	<0.15	**13**	**0.08 J**	**1.9 J**	**1.3**	<0.15	**2.4**	**4.9**
RES05-IA04	RES05-IA04-0415	04/24/2015	N	<0.16	<0.15	<0.16	<0.52	**0.5**	**0.27**	**0.13 J**	**0.88**	<0.16	**0.42**	**1.2**
RES05-IA04	RES05-IA04-0116	01/27/2016	N	<0.16	<0.14	<0.14	<0.14	**1.3 J**	**0.43 J**	**0.25 J**	**2.7 J**	<0.14	**0.66 J**	**2.1 J**
RES06-IA02	RES06-IA02-0415	04/16/2015	N	<0.15	<0.14	<0.15	<0.5	**0.4**	**0.11 J**	**0.11 J**	**0.61**	<0.15	**0.44**	**1**
RES06-IA02	RES06-IA02-0116	01/28/2016	N	<0.16	<0.14	<0.14	<0.14	**1.9**	**0.16**	**0.41 J**	**1.6**	<0.14	**1.1**	**3.6**
RES06-IA02	RES06-IA01-0116	01/28/2016	FD	<0.16	<0.14	<0.14	<0.14	**1.9**	**0.17**	**0.41 J**	**1.6**	<0.14	**1.1**	**3.6**
RES06-OA01	RES06-OA01-0415	04/24/2015	N	<0.16	<0.15	<0.16	<0.54	**0.32**	<0.13	**0.094 J**	**0.48 J**	<0.16	**0.22**	**0.68**
RES06-OA02	RES06-OA02-0116	01/28/2016	N	**0.08 J**	<0.14	<0.14	<0.14	**1.3**	**0.07 J**	**0.28 J**	**1.6**	<0.14	**0.87**	**2.9**
RES07-IA01	RES07-IA01-0415	04/16/2015	N	<0.15	<0.14	<0.15	<0.5	**0.51**	**0.09 J**	**0.14 J**	**0.76**	<0.15	**0.67**	**2.2**
RES07-IA02	RES07-IA02-0116	01/28/2016	N	**0.08 J**	<0.15	<0.15	<0.15	**1.7**	**0.36**	**0.33 J**	**1.7**	<0.15	**1.3**	**4.2**
RES07-OA01	RES07-OA01-0415	04/16/2015	N	<0.15	<0.14	<0.15	<0.5	**0.39**	**0.059 J**	**0.11 J**	**0.66**	<0.15	**0.29**	**0.96**
RES08-CS01	RES08-CS01-0415	04/17/2015	N	<0.15	<0.14	<0.15	<0.5	**0.38**	**0.051 J**	**0.11 J**	**0.69**	<0.15	**0.29**	**0.96**
RES08-CS01	RES08-CS01-0116	01/27/2016	N	<0.16	<0.15	<0.15	<0.15	**1.2**	<0.13	**0.26 J**	**1.3**	<0.15	**0.79**	**2.6**
RES08-IA01	RES08-IA01-0415	04/17/2015	N	<0.15	<0.14	<0.15	<0.5	**0.41**	**0.077 J**	**0.1 J**	**0.75**	<0.15	**0.3**	**1**
RES08-IA01	RES08-IA01-0116	01/27/2016	N	<0.16	<0.14	<0.14	<0.14	**1.2**	<0.13	**0.26 J**	**1.5**	<0.14	**0.8**	**2.6**

Appendix E-5
Analytical Results for Air Samples
Southern Avenue Industrial Area Superfund Site
South Gate, California

				Volatiles (in ug/m3)						
Location ID	Sample ID	Sample Date	Sample Type	Naphthalene	o-Xylene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	Trichloroethene (TCE)	Vinyl Chloride
RES01-CS01	RES01-CS01-0415	04/17/2015	N	<0.38	**0.37**	**0.11 J**	**2**	<0.32	<0.14	<0.42
RES01-CS01	RES01-CS01-0116	01/27/2016	N	<0.41	**0.71 J**	**0.14 J**	**2.9 J**	<0.15	<0.15	--
RES01-IA01	RES01-IA01-0415	04/17/2015	N	<0.38	**0.35**	**1.4**	**3.3**	<0.32	**0.054 J**	<0.42
RES01-IA01	RES01-IA01-0116	01/27/2016	N	<0.41	**1.1**	**1.3**	**4.3**	<0.15	**0.09 J**	--
RES01-OA01	RES01-OA01-0116	01/27/2016	N	<0.42	**1.3**	**0.24**	**5.3**	<0.15	<0.15	--
RES01-OA01	RES01-OA01-0116	01/27/2016	FD	<0.4	**1.2**	**0.21**	**4.4**	<0.14	<0.14	--
RES02-CS01	RES02-CS01-0415	04/17/2015	N	<0.38	**0.32**	**0.089 J**	**1.8**	<0.32	<0.14	<0.42
RES02-CS01	RES02-CS01-0116	01/27/2016	N	<0.41	**0.97**	**0.2**	**4.2**	<0.14	<0.15	--
RES02-IA01	RES02-IA01-0415	04/24/2015	N	<0.4	**0.23**	**0.078 J**	**1.3**	<0.33	**0.018 J**	<0.44
RES02-IA01	RES02-IA01-0116	01/27/2016	N	<0.4	**0.79 J**	**0.18 J**	**3.8 J**	<0.14	<0.15	--
RES03-IA01	RES03-IA01-0415	04/23/2015	N	<0.4	**0.34**	**0.084 J**	**3.6**	<0.33	**0.059 J**	<0.44
RES03-IA01	RES03-IA01-0116	01/27/2016	N	<0.41	**0.98**	**0.18**	**4.7**	<0.14	<0.15	--
RES04-IA02	RES04-IA02-0415	04/23/2015	N	<0.4	**0.41**	**0.14 J**	**2.1**	<0.33	**0.07 J**	<0.44
RES04-IA02	RES04-IA02-0116	01/28/2016	N	**0.24 J**	**2.1**	**0.31**	**5.9**	<0.15	**0.08 J**	--
RES05-IA04	RES05-IA04-0415	04/24/2015	N	<0.4	**0.43**	**0.093 J**	**2.5**	<0.33	**0.06 J**	<0.44
RES05-IA04	RES05-IA04-0116	01/27/2016	N	<0.4	**0.74 J**	**0.25 J**	**4.2 J**	<0.14	<0.14	--
RES06-IA02	RES06-IA02-0415	04/16/2015	N	<0.38	**0.36**	**0.12 J**	**1.8**	<0.32	<0.14	<0.43
RES06-IA02	RES06-IA02-0116	01/28/2016	N	<0.4	**1.3**	**0.29**	**5.9**	<0.14	<0.14	--
RES06-IA02	RES06-IA01-0116	01/28/2016	FD	<0.4	**1.3**	**0.28**	**5.7**	<0.14	<0.14	--
RES06-OA01	RES06-OA01-0415	04/24/2015	N	<0.41	**0.25**	**0.08 J**	**1.3**	<0.34	<0.15	<0.45
RES06-OA02	RES06-OA02-0116	01/28/2016	N	<0.4	**1**	**0.23**	**5**	<0.14	<0.14	--
RES07-IA01	RES07-IA01-0415	04/16/2015	N	<0.38	**0.6**	**0.14 J**	**2.6**	<0.32	**0.052 J**	<0.43
RES07-IA02	RES07-IA02-0116	01/28/2016	N	<0.41	**1.3**	**0.25**	**5.5**	<0.15	**0.07 J**	--
RES07-OA01	RES07-OA01-0415	04/16/2015	N	<0.38	**0.32**	**0.086 J**	**1.7**	<0.32	<0.14	<0.43
RES08-CS01	RES08-CS01-0415	04/17/2015	N	<0.38	**0.33**	**0.11 J**	**1.7**	<0.32	**0.05 J**	<0.43
RES08-CS01	RES08-CS01-0116	01/27/2016	N	<0.41	**0.95**	**0.21**	**4.4**	<0.15	<0.15	--
RES08-IA01	RES08-IA01-0415	04/17/2015	N	<0.38	**0.36**	**0.094 J**	**2**	<0.32	**0.05 J**	<0.43
RES08-IA01	RES08-IA01-0116	01/27/2016	N	<0.4	**0.94**	**0.21**	**4.5**	<0.14	<0.15	--

Notes:
Detected results shown in bold
FD = Field duplicate
ID = Identification number
J = estimated value
N = Normal sample results
ug/m3 = Micrograms per cubic meter
-- = Not analyzed

Appendix E-6

Commercial Laboratory Analytical Report

Mobile
Geochemistry Inc.

09 October 2013

Mr. Don Gruber
ITSI Gilbane Company
2934 Gold Pan Court, Ste 12
Rancho Cordova, CA 95670

H&P Project: ITSI040813-A2 Rev (Day 1)
Client Project: 07163.0064.FI0301/5211 Southern Ave

Dear Mr. Don Gruber:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 08-Apr-13 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody

Unless otherwise noted, all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

Lisa D Erz for

Janis Villarreal
Laboratory Director

H&P Mobile Geochemistry, Inc. operates under CA Environmental Lab Accreditation Program Numbers 2579, 2740, 2741, 2742, 2743, 2745 and 2754. National Environmental Laboratory Accreditation Conference (NELAC) Standards Lab #11845

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev (Day 1)	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301/5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SG6-5, 1PV, P433cc	E304021-01	Vapor	08-Apr-13	08-Apr-13
SG6-5, 3PV, P1299cc	E304021-02	Vapor	08-Apr-13	08-Apr-13
SG6-5, 10PV, P4330cc	E304021-03	Vapor	08-Apr-13	08-Apr-13
SG6-15, 1PV, P481cc	E304021-04	Vapor	08-Apr-13	08-Apr-13
SG6-25, 1PV, P530cc	E304021-05	Vapor	08-Apr-13	08-Apr-13
SG6-25, 3PV, P1590cc	E304021-06	Vapor	08-Apr-13	08-Apr-13
SG6-15, 3PV, P1443cc	E304021-07	Vapor	08-Apr-13	08-Apr-13
SG6-25, 10PV, P5298cc	E304021-08	Vapor	08-Apr-13	08-Apr-13

On April 8, 2013 the percent recoveries for Naphthalene, p-Isopropyltoluene, and 1,2,4-Trichlorobenzene fell above the method criteria in the continuing calibration verification. The data has been qualified accordingly.

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev (Day 1)	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301/5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:17

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG6-5, 1PV, P433cc (E304021-01) Vapor	**Sampled: 08-Apr-13**	**Received: 08-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED30803	08-Apr-13	08-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	**47**	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**4900**	65	"	5	"	"	"	"	
Bromomethane	ND	39	"	1	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**68**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**67**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**250**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**1800**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**36**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**560**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**120**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**220**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	**190**	22	"	"	"	"	"	"	
m,p-Xylene	**660**	44	"	"	"	"	"	"	
o-Xylene	**330**	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	**130**	25	"	"	"	"	"	"	
n-Propylbenzene	**160**	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**590**	25	"	"	"	"	"	"	
tert-Butylbenzene	**220**	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**1800**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	**230**	28	"	"	"	"	"	"	
p-Isopropyltoluene	**310**	28	"	"	"	"	"	"	C-High
n-Butylbenzene	**350**	28	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301/5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:17

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG6-5, 1PV, P433cc (E304021-01) Vapor	**Sampled: 08-Apr-13**	**Received: 08-Apr-13**							
Naphthalene	ND	27	ug/m3	1	ED30803	08-Apr-13	08-Apr-13	TO-15	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*92.8 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.0 %*	*56-127*		"	"	"	"	
SG6-5, 3PV, P1299cc (E304021-02) Vapor	**Sampled: 08-Apr-13**	**Received: 08-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED30803	08-Apr-13	08-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	**33**	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**5000**	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**44**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**62**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**220**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**1500**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**43**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**440**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**110**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**190**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	**160**	22	"	"	"	"	"	"	
m,p-Xylene	**570**	44	"	"	"	"	"	"	
o-Xylene	**300**	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	**130**	25	"	"	"	"	"	"	
n-Propylbenzene	**150**	25	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG6-5, 3PV, P1299cc (E304021-02) Vapor	**Sampled: 08-Apr-13**	**Received: 08-Apr-13**							
1,3,5-Trimethylbenzene	**540**	25	ug/m3	1	ED30803	08-Apr-13	08-Apr-13	TO-15	
tert-Butylbenzene	**210**	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**1600**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	**220**	28	"	"	"	"	"	"	
p-Isopropyltoluene	**280**	28	"	"	"	"	"	"	C-High
n-Butylbenzene	**350**	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*95.5 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.4 %*	*56-127*		"	"	"	"	
SG6-5, 10PV, P4330cc (E304021-03) Vapor	**Sampled: 08-Apr-13**	**Received: 08-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED30803	08-Apr-13	08-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	**45**	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**7000**	65	"	5	"	"	"	"	
Bromomethane	ND	39	"	1	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**61**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**65**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**270**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**1800**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**36**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**480**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**110**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**240**	34	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG6-5, 10PV, P4330cc (E304021-03) Vapor Sampled: 08-Apr-13 Received: 08-Apr-13									
1,1,1,2-Tetrachloroethane	ND	35	ug/m3	1	ED30803	08-Apr-13	08-Apr-13	TO-15	
Ethylbenzene	**180**	22	"	"	"	"	"	"	
m,p-Xylene	**680**	44	"	"	"	"	"	"	
o-Xylene	**360**	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	**150**	25	"	"	"	"	"	"	
n-Propylbenzene	**190**	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**710**	25	"	"	"	"	"	"	
tert-Butylbenzene	**290**	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**2300**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	**280**	28	"	"	"	"	"	"	
p-Isopropyltoluene	**380**	28	"	"	"	"	"	"	C-High
n-Butylbenzene	**570**	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*92.1 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.6 %*		*56-127*	"	"	"	"	
SG6-15, 1PV, P481cc (E304021-04) Vapor Sampled: 08-Apr-13 Received: 08-Apr-13									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED30803	08-Apr-13	08-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**110**	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**1800**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	

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Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:17

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG6-15, 1PV, P481cc (E304021-04) Vapor	**Sampled: 08-Apr-13**	**Received: 08-Apr-13**							
Carbon tetrachloride	ND	13	ug/m3	1	ED30803	08-Apr-13	08-Apr-13	TO-15	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**44**	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**180**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	**29**	28	"	"	"	"	"	"	
p-Isopropyltoluene	**51**	28	"	"	"	"	"	"	C-High
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	**32**	27	"	"	"	"	"	"	C-High
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*92.2 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.3 %*	*56-127*		"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev (Day 1)	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301/5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:17

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG6-25, 1PV, P530cc (E304021-05) Vapor	**Sampled: 08-Apr-13**	**Received: 08-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED30803	08-Apr-13	08-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

H&P Mobile
Geochemistry Inc.

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev (Day 1)	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301/5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:17

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG6-25, 1PV, P530cc (E304021-05) Vapor Sampled: 08-Apr-13 Received: 08-Apr-13									
Naphthalene	ND	27	ug/m3	1	ED30803	08-Apr-13	08-Apr-13	TO-15	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*91.8 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.2 %*		*56-127*	"	"	"	"	
SG6-25, 3PV, P1590cc (E304021-06) Vapor Sampled: 08-Apr-13 Received: 08-Apr-13									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED30803	08-Apr-13	08-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	**85**	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**120000**	650	"	50	"	"	"	"	
Bromomethane	ND	39	"	1	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**2900**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**1900**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**890**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**430000**	4000	"	100	"	"	"	"	
Chloroform	ND	25	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**170**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**3200**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**110**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**78**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	**50**	22	"	"	"	"	"	"	
m,p-Xylene	**160**	44	"	"	"	"	"	"	
o-Xylene	**71**	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	**53**	25	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev (Day 1)	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301/5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:17

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG6-25, 3PV, P1590cc (E304021-06) Vapor	**Sampled: 08-Apr-13**	**Received: 08-Apr-13**							
1,3,5-Trimethylbenzene	**160**	25	ug/m3	1	ED30803	08-Apr-13	08-Apr-13	TO-15	
tert-Butylbenzene	**64**	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**480**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	**83**	28	"	"	"	"	"	"	
p-Isopropyltoluene	**120**	28	"	"	"	"	"	"	C-High
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*63.6 %*	*56-127*		"	"	"	"	
SG6-15, 3PV, P1443cc (E304021-07) Vapor	**Sampled: 08-Apr-13**	**Received: 08-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED30803	08-Apr-13	08-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**500**	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**39**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**3800**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**43**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301/5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:17

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG6-15, 3PV, P1443cc (E304021-07) Vapor Sampled: 08-Apr-13 Received: 08-Apr-13									
1,1,1,2-Tetrachloroethane	ND	35	ug/m3	1	ED30803	08-Apr-13	08-Apr-13	TO-15	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**34**	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**120**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	**29**	28	"	"	"	"	"	"	C-High
n-Butylbenzene	**44**	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*93.3 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.2 %*		*56-127*	"	"	"	"	
SG6-25, 10PV, P5298cc (E304021-08) Vapor Sampled: 08-Apr-13 Received: 08-Apr-13									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED30803	08-Apr-13	08-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	**270**	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**130000**	1300	"	100	"	"	"	"	
Bromomethane	ND	39	"	1	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**6800**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**4300**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**1900**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**470000**	4000	"	100	"	"	"	"	
Chloroform	ND	25	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**530**	16	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG6-25, 10PV, P5298cc (E304021-08) Vapor Sampled: 08-Apr-13 Received: 08-Apr-13									
Carbon tetrachloride	ND	13	ug/m3	1	ED30803	08-Apr-13	08-Apr-13	TO-15	
Trichloroethene	**2600**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**110**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**61**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	**89**	22	"	"	"	"	"	"	
m,p-Xylene	**220**	44	"	"	"	"	"	"	
o-Xylene	**120**	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	**100**	25	"	"	"	"	"	"	
n-Propylbenzene	**99**	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**320**	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**890**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	**180**	28	"	"	"	"	"	"	
p-Isopropyltoluene	**250**	28	"	"	"	"	"	"	C-High
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*98.3 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.2 %*	*56-127*		"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED30803 - TO-15										
Blank (ED30803-BLK1)				Prepared & Analyzed: 08-Apr-13						
1,1-Difluoroethane (LCC)	ND	27	ug/m3							
Dichlorodifluoromethane (F12)	ND	25	"							
Chloromethane	ND	21	"							
Vinyl chloride	ND	13	"							
Bromomethane	ND	39	"							
Chloroethane	ND	27	"							
Trichlorofluoromethane (F11)	ND	28	"							
1,1-Dichloroethene	ND	20	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"							
Methylene chloride (Dichloromethane)	ND	18	"							
trans-1,2-Dichloroethene	ND	40	"							
1,1-Dichloroethane	ND	41	"							
cis-1,2-Dichloroethene	ND	40	"							
Chloroform	ND	25	"							
1,1,1-Trichloroethane	ND	28	"							
1,2-Dichloroethane (EDC)	ND	21	"							
Benzene	ND	16	"							
Carbon tetrachloride	ND	13	"							
Trichloroethene	ND	27	"							
1,4-Dioxane	ND	36	"							
Bromodichloromethane	ND	34	"							
Toluene	ND	19	"							
1,1,2-Trichloroethane	ND	28	"							
Tetrachloroethene	ND	34	"							
1,1,1,2-Tetrachloroethane	ND	35	"							
Ethylbenzene	ND	22	"							
m,p-Xylene	ND	44	"							
o-Xylene	ND	22	"							
1,1,2,2-Tetrachloroethane	ND	35	"							
Isopropylbenzene (Cumene)	ND	25	"							
n-Propylbenzene	ND	25	"							
1,3,5-Trimethylbenzene	ND	25	"							
tert-Butylbenzene	ND	28	"							
1,2,4-Trimethylbenzene	ND	25	"							

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Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED30803 - TO-15										
Blank (ED30803-BLK1)				Prepared & Analyzed: 08-Apr-13						
1,4-Dichlorobenzene	ND	30	ug/m3							
sec-Butylbenzene	ND	28	"							
p-Isopropyltoluene	ND	28	"							
n-Butylbenzene	ND	28	"							
Naphthalene	ND	27	"							
1,2,4-Trichlorobenzene	ND	38	"							
Surrogate: Toluene-d8	*328*		*"*	*345*		*95.0*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*594*		*"*	*610*		*97.3*	*56-127*			
LCS (ED30803-BS1)				Prepared & Analyzed: 08-Apr-13						
Dichlorodifluoromethane (F12)	240	25	ug/m3	250		97.3	65-135			
Vinyl chloride	110	13	"	130		85.1	65-135			
Chloroethane	100	27	"	134		76.1	65-135			
Trichlorofluoromethane (F11)	290	28	"	283		101	65-135			
1,1-Dichloroethene	190	20	"	202		92.2	65-135			
1,1,2-Trichlorotrifluoroethane (F113)	310	39	"	387		80.1	65-135			
Methylene chloride (Dichloromethane)	140	18	"	177		78.4	65-135			
trans-1,2-Dichloroethene	160	40	"	202		77.2	65-135			
1,1-Dichloroethane	170	41	"	206		82.8	65-135			
cis-1,2-Dichloroethene	210	40	"	202		103	65-135			
Chloroform	240	25	"	247		96.5	65-135			
1,1,1-Trichloroethane	300	28	"	276		107	65-135			
1,2-Dichloroethane (EDC)	240	21	"	206		116	65-135			
Benzene	130	16	"	162		82.5	65-135			
Carbon tetrachloride	320	13	"	320		101	65-135			
Trichloroethene	240	27	"	272		87.6	65-135			
Toluene	150	19	"	191		79.2	65-135			
1,1,2-Trichloroethane	230	28	"	276		84.3	65-135			
Tetrachloroethene	320	34	"	345		92.6	65-135			
1,1,1,2-Tetrachloroethane	340	35	"	349		97.7	65-135			
Ethylbenzene	180	22	"	220		82.3	65-135			
m,p-Xylene	350	44	"	440		78.4	65-135			
o-Xylene	180	22	"	220		81.3	65-135			

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301/5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:17

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED30803 - TO-15										
LCS (ED30803-BS1)				Prepared & Analyzed: 08-Apr-13						
1,1,2,2-Tetrachloroethane	240	35	ug/m3	349		69.9	65-135			
Surrogate: Toluene-d8	*330*		*"*	*345*		*95.6*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*679*		*"*	*610*		*111*	*56-127*			

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

ITSI Gilbane Company	Project: ITSI040813-A2 Rev (Day 1)	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301/5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:17

Notes and Definitions

C-High	The percent recovery for this analyte fell above the method criteria in the continuing calibration verification (CCV). Results may be biased high.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301/5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:17

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory (Certification # L11-175) in accordance with the DoD-ELAP program. H&P is approved by the State of Arizona under Certification Numbers AZM758 and AZ0779. H&P is approved as an Environmental Laboratory in conformance with the Environmental Laboratory Accreditation Program (CA) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste for the following methods:

Certificate# 2741, 2743, 2579, 2754 & 2740 approved for EPA 8260 and LUFT GC/MS
Certificate# 2742, 2745, & 2741 approved for LUFT
Certificate# 2745 & 2742 approved for EPA 418.1

H&P Mobile Geochemistry, Inc. is approved as an Environmental Laboratory in conformance with the National Environmental Accreditation Conference Standards for the category Environmental Analysis Air and Emissions for the following analytes and methods:

Hexachlorobutadiene by EPA TO-15 & TO-14A
1,2,4-Trichlorobenzene by EPA TO-15 & TO-14A
1,2-Dichlorobenzene by EPA TO-15 & TO-14A
Dichlorotetrafluoroethane by EPA TO-14A
1,4-Dichlorobenzene by EPA TO-15 & TO-14A
Benzene by EPA TO-15 & TO-14A
Chlorobenzene by EPA TO-15 & TO-14A
Ethyl benzene by EPA TO-15 & TO-14A
Styrene by EPA TO-15 & TO-14A
Toluene by EPA TO-15 & TO-14A
Total Xylenes by EPA TO-15
1,1,1-Trichloroethane by EPA TO-15 & TO-14A
1,1,2,2-Tetrachloroethane by EPA TO-15 & TO-14A
1,1,2-Trichloroethane by EPA TO-15 & TO-14A
1,1-Dichloroethane by EPA TO-15 & TO-14A
1,1-Dichloroethene by EPA TO-15 & TO-14A
1,2-Dichloroethane by EPA TO-15 & TO-14A
1,2-Dichloropropane by EPA TO-15 & TO-14A
Benzyl Chloride by EPA TO-15 & TO-14A
Bromoform by EPA TO-15
Bromomethane by EPA TO-15 & TO-14A
Carbon tetrachloride by EPA TO-15 & TO-14A
Chloroethane by EPA TO-15 & TO-14A
Chloroform by EPA TO-15 & TO-14A
Chloromethane by EPA TO-15 & TO-14A
cis-1,2-Dichloroethene by EPA TO-15 & TO-14A
cis-1,3-Dichloropropene by EPA TO-15 & TO-14A
Methylene chloride by EPA TO -15 & TO-14A
Tetrachloroethane by EPA TO-15 & TO-14A
trans-1,2-Dichloroethene by EPA TO-15
trans-1,3-Dichloropropene by EPA TO-15 & TO-14A
Trichloroethene by EPA TO-15 & TO-14A
Vinyl chloride by EPA TO -15
2-Butanone by EPA TO-15
4-Methyl-2-Pentanone by EPA TO-15
Hexane by EPA TO-15
Methyl tert-butyl ether by EPA TO-15
Vinyl acetate by EPA TO-15

1,3-Dichlorobenzene by EPA TO-15 & TO-14A
Trichlorofluoromethane by EPA TO-14A
Naphthalene by H&P SOP TO-15/GC-MS
1,2-Dibromoethane (EDB) by EPA TO-15 & TO-14A
1,2-Dibromo-3-chloropropane by EPA TO-15
1,3-Butadiene by EPA TO-15
1,1,2-Trichlorotrifluoroethane by EPA TO-14A
Carbon disulfide by EPA TO-15
1,4-Dioxane by EPA TO-15

This certification applies to samples analyzed in summa canisters.

Chain of Custody Record

H&P Mobile Geochemistry Inc.
☐ 2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
☐ 1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date: 4/8/2013
H&P Project # ITSI040813-A2
Outside Lab:

Client: ITSI Gilbane Company
Address: 2934 Gold Pan Ct. Ste 12, Rancho Cordova, CA. 95670
Email: dgruber@itsi.com
Collector: M. Montemayor
Client Project # 07163.0064.F10301
Location: 5211 Southern Ave. South Gate, CA.
Phone: 916-853-1839
Page: 1 of 1
Project Contact: Ed. Gillera
Fax:
Turn around time:

Geotracker EDF: Yes ☐ No ☐
Global ID:
Excel EDD: Yes ☑ No ☐

Sample Receipt
Intact: ☑ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☑ N/A
Cold: ☐ Yes ☐ No ☑ N/A
Temperature: 20°C

Special Instructions: Level IV

Lab Work Order # E304021/ED30803

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers	SOIL/GW: 8260B Full List	SOIL/GW: 8260B ☐ BTEX/OXY ☐ TPH gas	SOIL/GW: 8015M TPH ☐ g ☐ d ☐ ext	SOIL/GW: 418.1 TRPH	SOIL VAPOR/AIR ANALYSIS: VOC's: Full List ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: VOC's: Short List/DTSC ☐ 8260B ☒ TO-15	SOIL VAPOR/AIR ANALYSIS: VOC's: SAM, 8260B ☐ SAM A ☐ SAM B	SOIL VAPOR/AIR ANALYSIS: Naphthalene ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: Oxygenates ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: TPHv gas ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: Ketones ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: Other ____ ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: Leak Check Compound ☒ 1,1 DFA ☐ OTHER	SOIL VAPOR/AIR ANALYSIS: Methane	SOIL VAPOR/AIR ANALYSIS: Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2
SG6-5 1PV		433cc	0939	4/8/13	Vapor	Glass Syringe	1					X								X	
SG6-5 3PV		1299cc	0931				1					X								X	
SG6-5 10PV		4330cc	1004				1					X								X	
SG6-15 1PV		481cc	1049				1					X								X	
SG6-25 1PV		530cc	1201				1					X								X	
SG6-25 3PV		1590cc	1252				1					X								X	
SG6-15 3PV		1443cc	1425				1					X								X	
SG6-25 10PV		5298cc	1446				1					X								X	
~~SG6-25 [illegible] 1PV~~		581cc	1559				1					X								X	

Relinquished by: (Signature)	(company) ITSI Gilbane	Received by: (Signature)	(company) H&P	Date: 4/8/2013	Time: 16:35
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal ☐ Return to client ☐ Pickup

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: ITSI040813-A2
Site Address: 5211 Southern Ave. Southgate, CA
Consultant: ITSI Gilbane Company
Field Rep(s): Ed Gillera
H&P Rep(s): M. Montemayor & Troy T.

Date: 4/8/2013
Arrival Time: 7:45
Departure Time: 16:45
Overtime:
Approved By:

Office Use Only:
Reviewed: DB
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes:
1	SG6-5 1PV	SV0022	04/08/13	0839	5'	6.5'	1/4"	2"	12"	2"	6"	433	✓	<200	0	PVT: 1PV
2	SG6-5 1PV R	SV0024		0906								483	✓		0	Resample
3	SG6-5 3PV	SV0023		0931								1299	✓		0	
4	SG6-5 10PV	SV0022		1004								4330	✓		0	
5	SG6-5 10PV R	SV0024		1026	↓	↓						4380	✓		0	Resample
6	SG6-15 1PV	SV0021		1049	15	16.5						481	✓		0	
7	SG6-25 1PV	SV0023		1201	25	26.5						530	✓		0	
8	SG6-25 3PV	SV0022		1252	25	26.5						1598	✓		1	
9	SG6-25 3PV R	SV0024		1334	25	26.5						1640	✓		1	resample
10	SG6-25 3PV RR	SV0021		1349	25	26.5						1700	✓		1	resample
11	SG6-15 3PV	SV0024		1425	15	16.5						1443	✓		6	
12	SG6-25 10PV	SV0022	↓	1446	25	26.5	↓	↓	↓	↓	↓	5298	✓	↓	0	

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG6-5					
Tubing:	Length:	6.5'	Diameter	1/4"	1 Volume:	31
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV =	433	3PV =	1299	10PV =	4330
PV Amount Selected:			*Selected by:*		Ed Gillera	

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: ITSI040813-A2
Site Address: 5211 Southern Ave. Southgate, CA
Consultant: ITSI Gilbane Company
Field Rep(s): Ed Gillera
H&P Rep(s): M. Montemayor, T. Taylor

Date: 4/8/2013
Arrival Time: 7:45
Departure Time: 16:45
Overtime:
Approved By:

Office Use Only:
Reviewed: DB
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes:
13	SG6-15 10PV	SV002	04/08/13	NA	15	16.5	1/4"	2	12	2	6	4814	✓	50	6	*not sampling
14	SG6-25 10pv R	SV0021	↓	1522	25	26.5	↓	↓	↓	↓	↓	5348	✓	<200	1	resample
15	SG6-35 1PV	SV0024	↓	1559	35	37	↓	↓	↓	↓	↓	581	✓	<200	0	Not reported
16		SV002														
17		SV002														
18		SV002														
19		SV002														
20		SV002														
21		SV002														
22		SV002														
23		SV002														
24		SV002														

Purge Volume Calculation

Probe ID for PVT, if applicable:			SG6-5			
Tubing:	Length:	6.5'	Diameter	1/4"	1 Volume:	31
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV =	433	3PV =	1299	10PV =	4330
PV Amount Selected:		3pv	*Selected by:*			Ed Gillera

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.
*Client decided not to purge sample SG6-15 10PV due to high vacuum. Purging @ 50 mL/min would take approx. 2 hours.

Mobile
Geochemistry Inc.

09 October 2013

Mr. Don Gruber
ITSI Gilbane Company
2934 Gold Pan Court, Ste 12
Rancho Cordova, CA 95670

H&P Project: ITSI040813-A2 Rev
Client Project: 07163.0064.FI0301 / 5211 Southern Ave

Dear Mr. Don Gruber:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 4/9/2013 -4/18/2013 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody

Unless otherwise noted, all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

Lisa D Ens for

Janis Villarreal
Laboratory Director

H&P Mobile Geochemistry, Inc. operates under CA Environmental Lab Accreditation Program Numbers 2579, 2740, 2741, 2742, 2743, 2745 and 2754. National Environmental Laboratory Accreditation Conference (NELAC) Standards Lab #11845

H&P Mobile
Geochemistry Inc.

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SG6-35, 1PV, P581cc	E304025-01	Vapor	09-Apr-13	09-Apr-13
SG6-35, 3PV, P1742cc	E304025-02	Vapor	09-Apr-13	09-Apr-13
SG6-35, 10PV, P5806cc	E304025-03	Vapor	09-Apr-13	09-Apr-13
SG13-5, P4330cc	E304025-04	Vapor	09-Apr-13	09-Apr-13
SG13-15, P4814cc	E304025-05	Vapor	09-Apr-13	09-Apr-13
SG13-25, P5298cc	E304025-06	Vapor	09-Apr-13	09-Apr-13
SG13-35, P5806cc	E304025-07	Vapor	09-Apr-13	09-Apr-13
SG14-5, P4330cc	E304025-08	Vapor	09-Apr-13	09-Apr-13
SG14-15, P4814cc	E304025-09	Vapor	09-Apr-13	09-Apr-13
SG14-15 Rep, P4864cc	E304025-10	Vapor	09-Apr-13	09-Apr-13
SG14-25, P5298cc	E304025-11	Vapor	09-Apr-13	09-Apr-13
SG14-35, P5806cc	E304025-12	Vapor	09-Apr-13	09-Apr-13
SG10-5, P4330cc	E304035-01	Vapor	10-Apr-13	10-Apr-13
SG10-15, P4814cc	E304035-02	Vapor	10-Apr-13	10-Apr-13
SG10-25, P5298cc	E304035-03	Vapor	10-Apr-13	10-Apr-13
SG10-35, P5806cc	E304035-04	Vapor	10-Apr-13	10-Apr-13
SG9-5, P4330cc	E304035-05	Vapor	10-Apr-13	10-Apr-13
SG9-15, P4814cc	E304035-06	Vapor	10-Apr-13	10-Apr-13
SG9-25, P5298cc	E304035-07	Vapor	10-Apr-13	10-Apr-13
SG9-35, P5806cc	E304035-08	Vapor	10-Apr-13	10-Apr-13
SG3-5, P4330cc	E304035-09	Vapor	10-Apr-13	10-Apr-13
SG3-5 Rep, P4380cc	E304035-10	Vapor	10-Apr-13	10-Apr-13
SG3-25, P5298cc	E304035-11	Vapor	10-Apr-13	10-Apr-13
SG3-35, P5806cc	E304043-01	Vapor	11-Apr-13	11-Apr-13
SG3-15, P4814cc	E304043-02	Vapor	11-Apr-13	11-Apr-13
SG4-5, P4330cc	E304043-03	Vapor	11-Apr-13	11-Apr-13
SG4-15, P4814cc	E304043-04	Vapor	11-Apr-13	11-Apr-13
SG4-25, P5298cc	E304043-05	Vapor	11-Apr-13	11-Apr-13

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SG4-35, P5806cc	E304043-06	Vapor	11-Apr-13	11-Apr-13
SG2-5, P4330cc	E304043-07	Vapor	11-Apr-13	11-Apr-13
SG2-5 Rep, P5580cc	E304043-08	Vapor	11-Apr-13	11-Apr-13
SG2-15, P4814cc	E304043-09	Vapor	11-Apr-13	11-Apr-13
SG2-25, P5298cc	E304043-10	Vapor	11-Apr-13	11-Apr-13
SG2-35, P5806cc	E304043-11	Vapor	11-Apr-13	11-Apr-13
SG12-5, P4330cc	E304043-12	Vapor	11-Apr-13	11-Apr-13
SG12-15, P4814cc	E304054-01	Vapor	12-Apr-13	12-Apr-13
SG12-25, P5298cc	E304054-02	Vapor	12-Apr-13	12-Apr-13
SG12-35, P5806cc	E304054-03	Vapor	12-Apr-13	12-Apr-13
SG1-5, P4330cc	E304054-04	Vapor	12-Apr-13	12-Apr-13
SG1-15, P4814cc	E304054-05	Vapor	12-Apr-13	12-Apr-13
SG1-25, P5298cc	E304054-06	Vapor	12-Apr-13	12-Apr-13
SG1-35, P5806cc	E304054-07	Vapor	12-Apr-13	12-Apr-13
SG17-5, P4330cc	E304054-08	Vapor	12-Apr-13	12-Apr-13
SG17-15, P4814cc	E304054-09	Vapor	12-Apr-13	12-Apr-13
SG17-25, P5298cc	E304054-10	Vapor	12-Apr-13	12-Apr-13
SG17-35, P5806cc	E304054-11	Vapor	12-Apr-13	12-Apr-13
SG16-5, P4330cc	E304054-12	Vapor	12-Apr-13	12-Apr-13
SG16-5 Rep, P4380cc	E304054-13	Vapor	12-Apr-13	12-Apr-13
SG16-15, P4814cc	E304054-14	Vapor	12-Apr-13	12-Apr-13
SG16-25, P5298cc	E304060-01	Vapor	15-Apr-13	15-Apr-13
SG16-35, P5806cc	E304060-02	Vapor	15-Apr-13	15-Apr-13
SG15-5, P4330cc	E304060-03	Vapor	15-Apr-13	15-Apr-13
SG15-15, P4814cc	E304060-04	Vapor	15-Apr-13	15-Apr-13
SG15-25, P5298cc	E304060-05	Vapor	15-Apr-13	15-Apr-13
SG15-35, P5806cc	E304060-06	Vapor	15-Apr-13	15-Apr-13
SG8-5, P4330cc	E304060-07	Vapor	15-Apr-13	15-Apr-13

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

ITSI Gilbane Company
2934 Gold Pan Court, Ste 12
Rancho Cordova, CA 95670

Project: ITSI040813-A2 Rev
Project Number: 07163.0064.FI0301 / 5211 Southern Ave
Project Manager: Mr. Don Gruber

Reported:
09-Oct-13 09:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SG8-15, P4814cc	E304060-08	Vapor	15-Apr-13	15-Apr-13
SG8-25, P5298cc	E304060-09	Vapor	15-Apr-13	15-Apr-13
SG8-35, P5806cc	E304060-10	Vapor	15-Apr-13	15-Apr-13
SG7-5, P4330cc	E304060-11	Vapor	15-Apr-13	15-Apr-13
SG7-5 Rep, P4380cc	E304060-12	Vapor	15-Apr-13	15-Apr-13
SG7-15, P4814cc	E304065-01	Vapor	16-Apr-13	16-Apr-13
SG7-25, P5298cc	E304065-02	Vapor	16-Apr-13	16-Apr-13
SG7-35, P5806cc	E304065-03	Vapor	16-Apr-13	16-Apr-13
SG5-5, P4330cc	E304065-04	Vapor	16-Apr-13	16-Apr-13
SG5-5 Rep, P4380cc	E304065-05	Vapor	16-Apr-13	16-Apr-13
SG5-15, P4814cc	E304065-06	Vapor	16-Apr-13	16-Apr-13
SG5-25, P5298cc	E304065-07	Vapor	16-Apr-13	16-Apr-13
SG5-35, P5806cc	E304065-08	Vapor	16-Apr-13	16-Apr-13
SG11-5, P4330cc	E304065-09	Vapor	16-Apr-13	16-Apr-13
SG11-15, P4814cc	E304065-10	Vapor	16-Apr-13	16-Apr-13
SG11-25, P5298cc	E304065-11	Vapor	16-Apr-13	16-Apr-13
SG11-35, P5806cc	E304065-12	Vapor	16-Apr-13	16-Apr-13
SG18-5, P4330cc	E304065-13	Vapor	16-Apr-13	16-Apr-13
SG18-15, P4814cc	E304065-14	Vapor	16-Apr-13	16-Apr-13
SG18-25, P5298cc	E304065-15	Vapor	16-Apr-13	16-Apr-13
SG18-35, P5806cc	E304070-01	Vapor	17-Apr-13	17-Apr-13
JW-SB6-5, P4330cc	E304070-02	Vapor	17-Apr-13	17-Apr-13
JW-SB6-15, P4814cc	E304070-03	Vapor	17-Apr-13	17-Apr-13
JW-SB6-25, P5298cc	E304070-04	Vapor	17-Apr-13	17-Apr-13
JW-SB6-35, P5806cc	E304070-05	Vapor	17-Apr-13	17-Apr-13
JW-SB6-35 Rep, P5906cc	E304070-06	Vapor	17-Apr-13	17-Apr-13
JW-SB5-5, P4330cc	E304070-07	Vapor	17-Apr-13	17-Apr-13
JW-SB5-25, P5298cc	E304070-08	Vapor	17-Apr-13	17-Apr-13

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
JW-SB5-35, P5806cc	E304070-09	Vapor	17-Apr-13	17-Apr-13
JW-SB4-5, P4330cc	E304070-10	Vapor	17-Apr-13	17-Apr-13
JW-SB4-15, P4814cc	E304070-11	Vapor	17-Apr-13	17-Apr-13
JW-SB4-35, P5806cc	E304070-12	Vapor	17-Apr-13	17-Apr-13
JW-SB3-5, P4330cc	E304085-01	Vapor	18-Apr-13	18-Apr-13
JW-SB3-5 Rep, P4380cc	E304085-02	Vapor	18-Apr-13	18-Apr-13
JW-SB3-35, P5806cc	E304085-03	Vapor	18-Apr-13	18-Apr-13
JW-SB1-5, P4330cc	E304085-04	Vapor	18-Apr-13	18-Apr-13
JW-SB1-15, P4814cc	E304085-05	Vapor	18-Apr-13	18-Apr-13
JW-SB1-25, P5298cc	E304085-06	Vapor	18-Apr-13	18-Apr-13
JW-SB1-35, P5806cc	E304085-07	Vapor	18-Apr-13	18-Apr-13
JW-SB2-5, P4330cc	E304085-08	Vapor	18-Apr-13	18-Apr-13
JW-SB2-25, P5298cc	E304085-09	Vapor	18-Apr-13	18-Apr-13
JW-SB2-15, P4814cc	E304085-10	Vapor	18-Apr-13	18-Apr-13
JW-SB2-35, P5806cc	E304085-11	Vapor	18-Apr-13	18-Apr-13

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Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG6-35, 1PV, P581cc (E304025-01) Vapor	**Sampled: 09-Apr-13**	**Received: 09-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED30905	09-Apr-13	09-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	**270**	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**8900**	1300	"	100	"	"	"	"	
Bromomethane	ND	39	"	1	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**3600**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**2700**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**710**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**57000**	4000	"	100	"	"	"	"	
Chloroform	ND	25	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**100**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**28000**	2700	"	100	"	"	"	"	
1,4-Dioxane	**150**	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**31**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	**29**	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**100**	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**330**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	**110**	28	"	"	"	"	"	"	
p-Isopropyltoluene	**130**	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG6-35, 1PV, P581cc (E304025-01) Vapor	**Sampled: 09-Apr-13**	**Received: 09-Apr-13**							
Naphthalene	**78**	27	ug/m3	1	ED30905	09-Apr-13	09-Apr-13	TO-15	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*98.6 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.7 %*	*56-127*		"	"	"	"	
SG6-35, 3PV, P1742cc (E304025-02) Vapor	**Sampled: 09-Apr-13**	**Received: 09-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED30905	09-Apr-13	09-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	**230**	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**4900**	320	"	25	"	"	"	"	
Bromomethane	ND	39	"	1	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**2700**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**2000**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**530**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**41000**	1000	"	25	"	"	"	"	
Chloroform	ND	25	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**81**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**21000**	680	"	25	"	"	"	"	
1,4-Dioxane	**100**	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**24**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	

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Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG6-35, 3PV, P1742cc (E304025-02) Vapor	**Sampled: 09-Apr-13**	**Received: 09-Apr-13**							
1,3,5-Trimethylbenzene	**58**	25	ug/m3	1	ED30905	09-Apr-13	09-Apr-13	TO-15	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**200**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	**74**	28	"	"	"	"	"	"	
p-Isopropyltoluene	**51**	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	**46**	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*92.4 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*77.0 %*		*56-127*	"	"	"	"	
SG6-35, 10PV, P5806cc (E304025-03) Vapor	**Sampled: 09-Apr-13**	**Received: 09-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED30905	09-Apr-13	09-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	**240**	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**7300**	320	"	25	"	"	"	"	
Bromomethane	ND	39	"	1	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**3300**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**2400**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**620**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**66000**	1000	"	25	"	"	"	"	
Chloroform	ND	25	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**80**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**33000**	680	"	25	"	"	"	"	
1,4-Dioxane	**140**	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**20**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG6-35, 10PV, P5806cc (E304025-03) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13									
1,1,1,2-Tetrachloroethane	ND	35	ug/m3	1	ED30905	09-Apr-13	09-Apr-13	TO-15	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	**25**	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**65**	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**200**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	**83**	28	"	"	"	"	"	"	
p-Isopropyltoluene	**80**	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*92.1 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.6 %*		*56-127*	"	"	"	"	
SG13-5, P4330cc (E304025-04) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED30905	09-Apr-13	09-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**53**	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**180**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG13-5, P4330cc (E304025-04) Vapor	**Sampled: 09-Apr-13**	**Received: 09-Apr-13**							
Carbon tetrachloride	ND	13	ug/m3	1	ED30905	09-Apr-13	09-Apr-13	TO-15	
Trichloroethene	**61**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**2900**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*93.3 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.8 %*		*56-127*	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG13-15, P4814cc (E304025-05) Vapor	**Sampled: 09-Apr-13**	**Received: 09-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED30905	09-Apr-13	09-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**35**	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**160**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**44**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**110**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**94**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**3600**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	**170**	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG13-15, P4814cc (E304025-05) Vapor	**Sampled: 09-Apr-13**	**Received: 09-Apr-13**							
Naphthalene	ND	27	ug/m3	1	ED30905	09-Apr-13	09-Apr-13	TO-15	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.9 %*	*56-127*		"	"	"	"	
SG13-25, P5298cc (E304025-06) Vapor	**Sampled: 09-Apr-13**	**Received: 09-Apr-13**							
1,1-Difluoroethane (LCC)	**190**	27	ug/m3	1	ED30905	09-Apr-13	09-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**43**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**61**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG13-25, P5298cc (E304025-06) Vapor	**Sampled: 09-Apr-13**	**Received: 09-Apr-13**							
1,3,5-Trimethylbenzene	ND	25	ug/m3	1	ED30905	09-Apr-13	09-Apr-13	TO-15	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*86.1 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.2 %*		*56-127*	"	"	"	"	
SG13-35, P5806cc (E304025-07) Vapor	**Sampled: 09-Apr-13**	**Received: 09-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED30905	09-Apr-13	09-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**72**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**290**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**550**	34	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG13-35, P5806cc (E304025-07) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13									
1,1,1,2-Tetrachloroethane	ND	35	ug/m3	1	ED30905	09-Apr-13	09-Apr-13	TO-15	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	**65**	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*91.8 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.8 %*		*56-127*	"	"	"	"	
SG14-5, P4330cc (E304025-08) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED30905	09-Apr-13	09-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	**30**	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	

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Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG14-5, P4330cc (E304025-08) Vapor	**Sampled: 09-Apr-13**	**Received: 09-Apr-13**							
Carbon tetrachloride	ND	13	ug/m3	1	ED30905	09-Apr-13	09-Apr-13	TO-15	
Trichloroethene	**110**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**46**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.1 %*		*56-127*	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG14-15, P4814cc (E304025-09) Vapor	**Sampled: 09-Apr-13**	**Received: 09-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED30905	09-Apr-13	09-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG14-15, P4814cc (E304025-09) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13									
Naphthalene	ND	27	ug/m3	1	ED30905	09-Apr-13	09-Apr-13	TO-15	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*93.6 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*76.5 %*		*56-127*	"	"	"	"	
SG14-15 Rep, P4864cc (E304025-10) Vapor Sampled: 09-Apr-13 Received: 09-Apr-13									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED30905	09-Apr-13	09-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**35**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**34**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG14-15 Rep, P4864cc (E304025-10) Vapor	**Sampled: 09-Apr-13**	**Received: 09-Apr-13**							
1,3,5-Trimethylbenzene	ND	25	ug/m3	1	ED30905	09-Apr-13	09-Apr-13	TO-15	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	**30**	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*99.5 %*	*75-125*		*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*68.6 %*	*56-127*		*"*	*"*	*"*	*"*	
SG14-25, P5298cc (E304025-11) Vapor	**Sampled: 09-Apr-13**	**Received: 09-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED30905	09-Apr-13	09-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	**200**	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**18**	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**230**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**31**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**480**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**91**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**140**	34	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG14-25, P5298cc (E304025-11) Vapor	**Sampled: 09-Apr-13**	**Received: 09-Apr-13**							
1,1,1,2-Tetrachloroethane	ND	35	ug/m3	1	ED30905	09-Apr-13	09-Apr-13	TO-15	
Ethylbenzene	**24**	22	"	"	"	"	"	"	
m,p-Xylene	**54**	44	"	"	"	"	"	"	
o-Xylene	**23**	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**25**	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**54**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	**70**	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*97.5 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.5 %*		*56-127*	"	"	"	"	
SG14-35, P5806cc (E304025-12) Vapor	**Sampled: 09-Apr-13**	**Received: 09-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED30905	09-Apr-13	09-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	**150**	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**44**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**150**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG14-35, P5806cc (E304025-12) Vapor	**Sampled: 09-Apr-13**	**Received: 09-Apr-13**							
Carbon tetrachloride	ND	13	ug/m3	1	ED30905	09-Apr-13	09-Apr-13	TO-15	
Trichloroethene	**570**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*86.2 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.0 %*		*56-127*	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG10-5, P4330cc (E304035-01) Vapor	**Sampled: 10-Apr-13**	**Received: 10-Apr-13**							
1,1-Difluoroethane (LCC)	ND	680	ug/m3	25	ED31002	10-Apr-13	10-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	630	"	"	"	"	"	"	
Chloromethane	ND	520	"	"	"	"	"	"	
Vinyl chloride	**520000**	32000	"	2500	"	"	"	"	
Bromomethane	ND	990	"	25	"	"	"	"	
Chloroethane	**1800**	670	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	710	"	"	"	"	"	"	
1,1-Dichloroethene	**16000**	500	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	960	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	440	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**52000**	1000	"	"	"	"	"	"	
1,1-Dichloroethane	**250000**	100000	"	2500	"	"	"	"	
cis-1,2-Dichloroethene	**4400000**	100000	"	"	"	"	"	"	
Chloroform	ND	620	"	25	"	"	"	"	
1,1,1-Trichloroethane	**190000**	690	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	510	"	"	"	"	"	"	
Benzene	ND	400	"	"	"	"	"	"	
Carbon tetrachloride	ND	320	"	"	"	"	"	"	
Trichloroethene	**63000**	680	"	"	"	"	"	"	
1,4-Dioxane	ND	910	"	"	"	"	"	"	
Bromodichloromethane	ND	850	"	"	"	"	"	"	
Toluene	**1500**	480	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	690	"	"	"	"	"	"	
Tetrachloroethene	**1100**	860	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	870	"	"	"	"	"	"	
Ethylbenzene	ND	550	"	"	"	"	"	"	
m,p-Xylene	ND	1100	"	"	"	"	"	"	
o-Xylene	**640**	550	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	870	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	620	"	"	"	"	"	"	
n-Propylbenzene	ND	620	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	620	"	"	"	"	"	"	
tert-Butylbenzene	ND	700	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**1100**	620	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	760	"	"	"	"	"	"	
sec-Butylbenzene	ND	700	"	"	"	"	"	"	
p-Isopropyltoluene	ND	700	"	"	"	"	"	"	
n-Butylbenzene	ND	700	"	"	"	"	"	"	

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Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG10-5, P4330cc (E304035-01) Vapor	**Sampled: 10-Apr-13**	**Received: 10-Apr-13**							
Naphthalene	ND	660	ug/m3	25	ED31002	10-Apr-13	10-Apr-13	TO-15	
1,2,4-Trichlorobenzene	ND	940	"	"	"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.3 %*	*56-127*		"	"	"	"	
SG10-15, P4814cc (E304035-02) Vapor	**Sampled: 10-Apr-13**	**Received: 10-Apr-13**							
1,1-Difluoroethane (LCC)	ND	34000	ug/m3	1250	ED31002	10-Apr-13	10-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	31000	"	"	"	"	"	"	
Chloromethane	ND	26000	"	"	"	"	"	"	
Vinyl chloride	**1900000**	16000	"	"	"	"	"	"	
Bromomethane	ND	49000	"	"	"	"	"	"	
Chloroethane	ND	33000	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	35000	"	"	"	"	"	"	
1,1-Dichloroethene	**40000**	25000	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	48000	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	22000	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	50000	"	"	"	"	"	"	
1,1-Dichloroethane	**380000**	51000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**4000000**	50000	"	"	"	"	"	"	
Chloroform	ND	31000	"	"	"	"	"	"	
1,1,1-Trichloroethane	**70000**	34000	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	26000	"	"	"	"	"	"	
Benzene	ND	20000	"	"	"	"	"	"	
Carbon tetrachloride	ND	16000	"	"	"	"	"	"	
Trichloroethene	ND	34000	"	"	"	"	"	"	
1,4-Dioxane	ND	46000	"	"	"	"	"	"	
Bromodichloromethane	ND	43000	"	"	"	"	"	"	
Toluene	ND	24000	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	34000	"	"	"	"	"	"	
Tetrachloroethene	ND	43000	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	44000	"	"	"	"	"	"	
Ethylbenzene	ND	27000	"	"	"	"	"	"	
m,p-Xylene	ND	55000	"	"	"	"	"	"	
o-Xylene	ND	27000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	44000	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	31000	"	"	"	"	"	"	
n-Propylbenzene	ND	31000	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG10-15, P4814cc (E304035-02) Vapor	**Sampled: 10-Apr-13**	**Received: 10-Apr-13**							
1,3,5-Trimethylbenzene	ND	31000	ug/m3	1250	ED31002	10-Apr-13	10-Apr-13	TO-15	
tert-Butylbenzene	ND	35000	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	31000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	38000	"	"	"	"	"	"	
sec-Butylbenzene	ND	35000	"	"	"	"	"	"	
p-Isopropyltoluene	ND	35000	"	"	"	"	"	"	
n-Butylbenzene	ND	35000	"	"	"	"	"	"	
Naphthalene	ND	33000	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	47000	"	"	"	"	"	"	
Surrogate: Toluene-d8		*81.9 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.5 %*		*56-127*	"	"	"	"	
SG10-25, P5298cc (E304035-03) Vapor	**Sampled: 10-Apr-13**	**Received: 10-Apr-13**							
1,1-Difluoroethane (LCC)	ND	34000	ug/m3	1250	ED31002	10-Apr-13	10-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	31000	"	"	"	"	"	"	
Chloromethane	ND	26000	"	"	"	"	"	"	
Vinyl chloride	**6100000**	32000	"	2500	"	"	"	"	
Bromomethane	ND	49000	"	1250	"	"	"	"	
Chloroethane	ND	33000	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	35000	"	"	"	"	"	"	
1,1-Dichloroethene	**86000**	25000	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	48000	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	22000	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	50000	"	"	"	"	"	"	
1,1-Dichloroethane	**650000**	51000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**2600000**	50000	"	"	"	"	"	"	
Chloroform	ND	31000	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	34000	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	26000	"	"	"	"	"	"	
Benzene	ND	20000	"	"	"	"	"	"	
Carbon tetrachloride	ND	16000	"	"	"	"	"	"	
Trichloroethene	ND	34000	"	"	"	"	"	"	
1,4-Dioxane	ND	46000	"	"	"	"	"	"	
Bromodichloromethane	ND	43000	"	"	"	"	"	"	
Toluene	ND	24000	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	34000	"	"	"	"	"	"	
Tetrachloroethene	ND	43000	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG10-25, P5298cc (E304035-03) Vapor	**Sampled: 10-Apr-13**	**Received: 10-Apr-13**							
1,1,1,2-Tetrachloroethane	ND	44000	ug/m3	1250	ED31002	10-Apr-13	10-Apr-13	TO-15	
Ethylbenzene	ND	27000	"	"	"	"	"	"	
m,p-Xylene	ND	55000	"	"	"	"	"	"	
o-Xylene	ND	27000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	44000	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	31000	"	"	"	"	"	"	
n-Propylbenzene	ND	31000	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	31000	"	"	"	"	"	"	
tert-Butylbenzene	ND	35000	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	31000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	38000	"	"	"	"	"	"	
sec-Butylbenzene	ND	35000	"	"	"	"	"	"	
p-Isopropyltoluene	ND	35000	"	"	"	"	"	"	
n-Butylbenzene	ND	35000	"	"	"	"	"	"	
Naphthalene	ND	33000	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	47000	"	"	"	"	"	"	
Surrogate: Toluene-d8		*87.9 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.2 %*		*56-127*	"	"	"	"	
SG10-35, P5806cc (E304035-04) Vapor	**Sampled: 10-Apr-13**	**Received: 10-Apr-13**							
1,1-Difluoroethane (LCC)	ND	2700	ug/m3	100	ED31002	10-Apr-13	10-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	2500	"	"	"	"	"	"	
Chloromethane	ND	2100	"	"	"	"	"	"	
Vinyl chloride	**9100**	1300	"	"	"	"	"	"	
Bromomethane	ND	3900	"	"	"	"	"	"	
Chloroethane	ND	2700	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	2800	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2000	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	3900	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	1800	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4000	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4100	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**42000**	4000	"	"	"	"	"	"	
Chloroform	ND	2500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2800	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	2100	"	"	"	"	"	"	
Benzene	ND	1600	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG10-35, P5806cc (E304035-04) Vapor	**Sampled: 10-Apr-13**	**Received: 10-Apr-13**							
Carbon tetrachloride	ND	1300	ug/m3	100	ED31002	10-Apr-13	10-Apr-13	TO-15	
Trichloroethene	**16000**	2700	"	"	"	"	"	"	
1,4-Dioxane	ND	3600	"	"	"	"	"	"	
Bromodichloromethane	ND	3400	"	"	"	"	"	"	
Toluene	ND	1900	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2800	"	"	"	"	"	"	
Tetrachloroethene	ND	3400	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3500	"	"	"	"	"	"	
Ethylbenzene	ND	2200	"	"	"	"	"	"	
m,p-Xylene	ND	4400	"	"	"	"	"	"	
o-Xylene	ND	2200	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	3500	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	2500	"	"	"	"	"	"	
n-Propylbenzene	ND	2500	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2500	"	"	"	"	"	"	
tert-Butylbenzene	ND	2800	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3000	"	"	"	"	"	"	
sec-Butylbenzene	ND	2800	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2800	"	"	"	"	"	"	
n-Butylbenzene	ND	2800	"	"	"	"	"	"	
Naphthalene	ND	2700	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3800	"	"	"	"	"	"	
Surrogate: Toluene-d8		*87.9 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.1 %*	*56-127*		"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG9-5, P4330cc (E304035-05) Vapor	**Sampled: 10-Apr-13**	**Received: 10-Apr-13**							
1,1-Difluoroethane (LCC)	ND	34000	ug/m3	1250	ED31002	10-Apr-13	10-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	31000	"	"	"	"	"	"	
Chloromethane	ND	26000	"	"	"	"	"	"	
Vinyl chloride	**93000**	16000	"	"	"	"	"	"	
Bromomethane	ND	49000	"	"	"	"	"	"	
Chloroethane	ND	33000	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	35000	"	"	"	"	"	"	
1,1-Dichloroethene	ND	25000	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	48000	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	22000	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	50000	"	"	"	"	"	"	
1,1-Dichloroethane	**430000**	51000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**3700000**	50000	"	"	"	"	"	"	
Chloroform	ND	31000	"	"	"	"	"	"	
1,1,1-Trichloroethane	**100000**	34000	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	26000	"	"	"	"	"	"	
Benzene	ND	20000	"	"	"	"	"	"	
Carbon tetrachloride	ND	16000	"	"	"	"	"	"	
Trichloroethene	**5800000**	34000	"	"	"	"	"	"	
1,4-Dioxane	ND	46000	"	"	"	"	"	"	
Bromodichloromethane	ND	43000	"	"	"	"	"	"	
Toluene	ND	24000	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	34000	"	"	"	"	"	"	
Tetrachloroethene	ND	43000	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	44000	"	"	"	"	"	"	
Ethylbenzene	ND	27000	"	"	"	"	"	"	
m,p-Xylene	ND	55000	"	"	"	"	"	"	
o-Xylene	ND	27000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	44000	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	31000	"	"	"	"	"	"	
n-Propylbenzene	ND	31000	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	31000	"	"	"	"	"	"	
tert-Butylbenzene	ND	35000	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	31000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	38000	"	"	"	"	"	"	
sec-Butylbenzene	ND	35000	"	"	"	"	"	"	
p-Isopropyltoluene	ND	35000	"	"	"	"	"	"	
n-Butylbenzene	ND	35000	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG9-5, P4330cc (E304035-05) Vapor Sampled: 10-Apr-13 Received: 10-Apr-13									
Naphthalene	ND	33000	ug/m3	1250	ED31002	10-Apr-13	10-Apr-13	TO-15	
1,2,4-Trichlorobenzene	ND	47000	"	"	"	"	"	"	
Surrogate: Toluene-d8		*93.1 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.2 %*	*56-127*		"	"	"	"	
SG9-15, P4814cc (E304035-06) Vapor Sampled: 10-Apr-13 Received: 10-Apr-13									
1,1-Difluoroethane (LCC)	ND	34000	ug/m3	1250	ED31002	10-Apr-13	10-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	31000	"	"	"	"	"	"	
Chloromethane	ND	26000	"	"	"	"	"	"	
Vinyl chloride	**51000**	16000	"	"	"	"	"	"	
Bromomethane	ND	49000	"	"	"	"	"	"	
Chloroethane	ND	33000	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	35000	"	"	"	"	"	"	
1,1-Dichloroethene	ND	25000	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	48000	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	22000	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	50000	"	"	"	"	"	"	
1,1-Dichloroethane	**240000**	51000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**1800000**	50000	"	"	"	"	"	"	
Chloroform	ND	31000	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	34000	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	26000	"	"	"	"	"	"	
Benzene	ND	20000	"	"	"	"	"	"	
Carbon tetrachloride	ND	16000	"	"	"	"	"	"	
Trichloroethene	**3200000**	34000	"	"	"	"	"	"	
1,4-Dioxane	ND	46000	"	"	"	"	"	"	
Bromodichloromethane	ND	43000	"	"	"	"	"	"	
Toluene	ND	24000	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	34000	"	"	"	"	"	"	
Tetrachloroethene	ND	43000	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	44000	"	"	"	"	"	"	
Ethylbenzene	ND	27000	"	"	"	"	"	"	
m,p-Xylene	ND	55000	"	"	"	"	"	"	
o-Xylene	ND	27000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	44000	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	31000	"	"	"	"	"	"	
n-Propylbenzene	ND	31000	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG9-15, P4814cc (E304035-06) Vapor	**Sampled: 10-Apr-13**	**Received: 10-Apr-13**							
1,3,5-Trimethylbenzene	ND	31000	ug/m3	1250	ED31002	10-Apr-13	10-Apr-13	TO-15	
tert-Butylbenzene	ND	35000	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	31000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	38000	"	"	"	"	"	"	
sec-Butylbenzene	ND	35000	"	"	"	"	"	"	
p-Isopropyltoluene	ND	35000	"	"	"	"	"	"	
n-Butylbenzene	ND	35000	"	"	"	"	"	"	
Naphthalene	ND	33000	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	47000	"	"	"	"	"	"	
Surrogate: Toluene-d8		*97.1 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.7 %*		*56-127*	"	"	"	"	
SG9-25, P5298cc (E304035-07) Vapor	**Sampled: 10-Apr-13**	**Received: 10-Apr-13**							
1,1-Difluoroethane (LCC)	ND	34000	ug/m3	1250	ED31002	10-Apr-13	10-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	31000	"	"	"	"	"	"	
Chloromethane	ND	26000	"	"	"	"	"	"	
Vinyl chloride	**200000**	16000	"	"	"	"	"	"	
Bromomethane	ND	49000	"	"	"	"	"	"	
Chloroethane	ND	33000	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	35000	"	"	"	"	"	"	
1,1-Dichloroethene	**140000**	25000	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	48000	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	22000	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**63000**	50000	"	"	"	"	"	"	
1,1-Dichloroethane	**420000**	51000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**9100000**	100000	"	2500	"	"	"	"	
Chloroform	ND	31000	"	1250	"	"	"	"	
1,1,1-Trichloroethane	ND	34000	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	26000	"	"	"	"	"	"	
Benzene	ND	20000	"	"	"	"	"	"	
Carbon tetrachloride	ND	16000	"	"	"	"	"	"	
Trichloroethene	**3000000**	34000	"	"	"	"	"	"	
1,4-Dioxane	ND	46000	"	"	"	"	"	"	
Bromodichloromethane	ND	43000	"	"	"	"	"	"	
Toluene	ND	24000	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	34000	"	"	"	"	"	"	
Tetrachloroethene	ND	43000	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG9-25, P5298cc (E304035-07) Vapor	**Sampled: 10-Apr-13**	**Received: 10-Apr-13**							
1,1,1,2-Tetrachloroethane	ND	44000	ug/m3	1250	ED31002	10-Apr-13	10-Apr-13	TO-15	
Ethylbenzene	ND	27000	"	"	"	"	"	"	
m,p-Xylene	ND	55000	"	"	"	"	"	"	
o-Xylene	ND	27000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	44000	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	31000	"	"	"	"	"	"	
n-Propylbenzene	ND	31000	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	31000	"	"	"	"	"	"	
tert-Butylbenzene	ND	35000	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**46000**	31000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	38000	"	"	"	"	"	"	
sec-Butylbenzene	ND	35000	"	"	"	"	"	"	
p-Isopropyltoluene	ND	35000	"	"	"	"	"	"	
n-Butylbenzene	**45000**	35000	"	"	"	"	"	"	
Naphthalene	ND	33000	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	47000	"	"	"	"	"	"	
Surrogate: Toluene-d8		*92.7 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.2 %*		*56-127*	"	"	"	"	
SG9-35, P5806cc (E304035-08) Vapor	**Sampled: 10-Apr-13**	**Received: 10-Apr-13**							
1,1-Difluoroethane (LCC)	ND	680	ug/m3	25	ED31002	10-Apr-13	10-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	630	"	"	"	"	"	"	
Chloromethane	ND	520	"	"	"	"	"	"	
Vinyl chloride	**300000**	32000	"	2500	"	"	"	"	
Bromomethane	ND	990	"	25	"	"	"	"	
Chloroethane	ND	670	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	710	"	"	"	"	"	"	
1,1-Dichloroethene	**30000**	500	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	960	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	440	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**29000**	1000	"	"	"	"	"	"	
1,1-Dichloroethane	**170000**	1000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**8400000**	100000	"	2500	"	"	"	"	
Chloroform	ND	620	"	25	"	"	"	"	
1,1,1-Trichloroethane	ND	690	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	**900**	510	"	"	"	"	"	"	
Benzene	**850**	400	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG9-35, P5806cc (E304035-08) Vapor	**Sampled: 10-Apr-13**	**Received: 10-Apr-13**							
Carbon tetrachloride	ND	320	ug/m3	25	ED31002	10-Apr-13	10-Apr-13	TO-15	
Trichloroethene	**6600000**	68000	"	2500	"	"	"	"	
1,4-Dioxane	ND	910	"	25	"	"	"	"	
Bromodichloromethane	ND	850	"	"	"	"	"	"	
Toluene	**990**	480	"	"	"	"	"	"	
1,1,2-Trichloroethane	**1700**	690	"	"	"	"	"	"	
Tetrachloroethene	**5200**	860	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	870	"	"	"	"	"	"	
Ethylbenzene	**580**	550	"	"	"	"	"	"	
m,p-Xylene	ND	1100	"	"	"	"	"	"	
o-Xylene	ND	550	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	870	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	**890**	620	"	"	"	"	"	"	
n-Propylbenzene	**650**	620	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	620	"	"	"	"	"	"	
tert-Butylbenzene	ND	700	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**2400**	620	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	760	"	"	"	"	"	"	
sec-Butylbenzene	**1000**	700	"	"	"	"	"	"	
p-Isopropyltoluene	**780**	700	"	"	"	"	"	"	
n-Butylbenzene	**1900**	700	"	"	"	"	"	"	
Naphthalene	ND	660	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	940	"	"	"	"	"	"	
Surrogate: Toluene-d8		*91.9 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*79.6 %*		*56-127*	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG3-5, P4330cc (E304035-09) Vapor Sampled: 10-Apr-13 Received: 10-Apr-13									
1,1-Difluoroethane (LCC)	ND	2700	ug/m3	100	ED31002	10-Apr-13	10-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	2500	"	"	"	"	"	"	
Chloromethane	ND	2100	"	"	"	"	"	"	
Vinyl chloride	**88000**	1300	"	"	"	"	"	"	
Bromomethane	ND	3900	"	"	"	"	"	"	
Chloroethane	ND	2700	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	2800	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2000	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	3900	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	1800	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4000	"	"	"	"	"	"	
1,1-Dichloroethane	**17000**	4100	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**210000**	4000	"	"	"	"	"	"	
Chloroform	ND	2500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2800	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	2100	"	"	"	"	"	"	
Benzene	ND	1600	"	"	"	"	"	"	
Carbon tetrachloride	ND	1300	"	"	"	"	"	"	
Trichloroethene	**140000**	2700	"	"	"	"	"	"	
1,4-Dioxane	ND	3600	"	"	"	"	"	"	
Bromodichloromethane	ND	3400	"	"	"	"	"	"	
Toluene	**2500**	1900	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2800	"	"	"	"	"	"	
Tetrachloroethene	ND	3400	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3500	"	"	"	"	"	"	
Ethylbenzene	ND	2200	"	"	"	"	"	"	
m,p-Xylene	ND	4400	"	"	"	"	"	"	
o-Xylene	**3200**	2200	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	3500	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	2500	"	"	"	"	"	"	
n-Propylbenzene	ND	2500	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**4300**	2500	"	"	"	"	"	"	
tert-Butylbenzene	ND	2800	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**14000**	2500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3000	"	"	"	"	"	"	
sec-Butylbenzene	ND	2800	"	"	"	"	"	"	
p-Isopropyltoluene	**4400**	2800	"	"	"	"	"	"	
n-Butylbenzene	ND	2800	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG3-5, P4330cc (E304035-09) Vapor Sampled: 10-Apr-13 Received: 10-Apr-13									
Naphthalene	ND	2700	ug/m3	100	ED31002	10-Apr-13	10-Apr-13	TO-15	
1,2,4-Trichlorobenzene	ND	3800	"	"	"	"	"	"	
Surrogate: Toluene-d8		*84.7 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.2 %*	*56-127*		"	"	"	"	
SG3-5 Rep, P4380cc (E304035-10) Vapor Sampled: 10-Apr-13 Received: 10-Apr-13									
1,1-Difluoroethane (LCC)	ND	2700	ug/m3	100	ED31002	10-Apr-13	10-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	2500	"	"	"	"	"	"	
Chloromethane	ND	2100	"	"	"	"	"	"	
Vinyl chloride	**91000**	1300	"	"	"	"	"	"	
Bromomethane	ND	3900	"	"	"	"	"	"	
Chloroethane	ND	2700	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	2800	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2000	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	3900	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	1800	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4000	"	"	"	"	"	"	
1,1-Dichloroethane	**21000**	4100	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**330000**	4000	"	"	"	"	"	"	
Chloroform	ND	2500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2800	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	2100	"	"	"	"	"	"	
Benzene	ND	1600	"	"	"	"	"	"	
Carbon tetrachloride	ND	1300	"	"	"	"	"	"	
Trichloroethene	**270000**	2700	"	"	"	"	"	"	
1,4-Dioxane	ND	3600	"	"	"	"	"	"	
Bromodichloromethane	ND	3400	"	"	"	"	"	"	
Toluene	**2900**	1900	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2800	"	"	"	"	"	"	
Tetrachloroethene	ND	3400	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3500	"	"	"	"	"	"	
Ethylbenzene	ND	2200	"	"	"	"	"	"	
m,p-Xylene	**4800**	4400	"	"	"	"	"	"	
o-Xylene	**3400**	2200	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	3500	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	2500	"	"	"	"	"	"	
n-Propylbenzene	ND	2500	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG3-5 Rep, P4380cc (E304035-10) Vapor	**Sampled: 10-Apr-13**	**Received: 10-Apr-13**							
1,3,5-Trimethylbenzene	**6100**	2500	ug/m3	100	ED31002	10-Apr-13	10-Apr-13	TO-15	
tert-Butylbenzene	ND	2800	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**23000**	2500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3000	"	"	"	"	"	"	
sec-Butylbenzene	ND	2800	"	"	"	"	"	"	
p-Isopropyltoluene	**7800**	2800	"	"	"	"	"	"	
n-Butylbenzene	ND	2800	"	"	"	"	"	"	
Naphthalene	ND	2700	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3800	"	"	"	"	"	"	
Surrogate: Toluene-d8		*90.1 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.8 %*		*56-127*	"	"	"	"	
SG3-25, P5298cc (E304035-11) Vapor	**Sampled: 10-Apr-13**	**Received: 10-Apr-13**							
1,1-Difluoroethane (LCC)	ND	2700	ug/m3	100	ED31002	10-Apr-13	10-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	2500	"	"	"	"	"	"	
Chloromethane	ND	2100	"	"	"	"	"	"	
Vinyl chloride	**75000**	1300	"	"	"	"	"	"	
Bromomethane	ND	3900	"	"	"	"	"	"	
Chloroethane	ND	2700	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	2800	"	"	"	"	"	"	
1,1-Dichloroethene	**3400**	2000	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	3900	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	1800	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4000	"	"	"	"	"	"	
1,1-Dichloroethane	**16000**	4100	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**130000**	4000	"	"	"	"	"	"	
Chloroform	ND	2500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2800	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	2100	"	"	"	"	"	"	
Benzene	ND	1600	"	"	"	"	"	"	
Carbon tetrachloride	ND	1300	"	"	"	"	"	"	
Trichloroethene	**89000**	2700	"	"	"	"	"	"	
1,4-Dioxane	ND	3600	"	"	"	"	"	"	
Bromodichloromethane	ND	3400	"	"	"	"	"	"	
Toluene	**3200**	1900	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2800	"	"	"	"	"	"	
Tetrachloroethene	ND	3400	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG3-25, P5298cc (E304035-11) Vapor	**Sampled: 10-Apr-13**	**Received: 10-Apr-13**							
1,1,1,2-Tetrachloroethane	ND	3500	ug/m3	100	ED31002	10-Apr-13	10-Apr-13	TO-15	
Ethylbenzene	ND	2200	"	"	"	"	"	"	
m,p-Xylene	ND	4400	"	"	"	"	"	"	
o-Xylene	ND	2200	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	3500	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	2500	"	"	"	"	"	"	
n-Propylbenzene	ND	2500	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2500	"	"	"	"	"	"	
tert-Butylbenzene	ND	2800	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**5800**	2500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3000	"	"	"	"	"	"	
sec-Butylbenzene	ND	2800	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2800	"	"	"	"	"	"	
n-Butylbenzene	ND	2800	"	"	"	"	"	"	
Naphthalene	ND	2700	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3800	"	"	"	"	"	"	
Surrogate: Toluene-d8		*91.8 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*		*56-127*	"	"	"	"	
SG3-35, P5806cc (E304043-01) Vapor	**Sampled: 11-Apr-13**	**Received: 11-Apr-13**							
1,1-Difluoroethane (LCC)	ND	34000	ug/m3	1250	ED31101	11-Apr-13	11-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	31000	"	"	"	"	"	"	
Chloromethane	ND	26000	"	"	"	"	"	"	
Vinyl chloride	**130000**	16000	"	"	"	"	"	"	
Bromomethane	ND	49000	"	"	"	"	"	"	
Chloroethane	ND	33000	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	35000	"	"	"	"	"	"	
1,1-Dichloroethene	ND	25000	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	48000	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	22000	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	50000	"	"	"	"	"	"	
1,1-Dichloroethane	**190000**	51000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**4900000**	50000	"	"	"	"	"	"	
Chloroform	ND	31000	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	34000	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	26000	"	"	"	"	"	"	
Benzene	ND	20000	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG3-35, P5806cc (E304043-01) Vapor	**Sampled: 11-Apr-13**	**Received: 11-Apr-13**							
Carbon tetrachloride	ND	16000	ug/m3	1250	ED31101	11-Apr-13	11-Apr-13	TO-15	
Trichloroethene	**7800000**	34000	"	"	"	"	"	"	
1,4-Dioxane	ND	46000	"	"	"	"	"	"	
Bromodichloromethane	ND	43000	"	"	"	"	"	"	
Toluene	ND	24000	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	34000	"	"	"	"	"	"	
Tetrachloroethene	ND	43000	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	44000	"	"	"	"	"	"	
Ethylbenzene	ND	27000	"	"	"	"	"	"	
m,p-Xylene	ND	55000	"	"	"	"	"	"	
o-Xylene	ND	27000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	44000	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	31000	"	"	"	"	"	"	
n-Propylbenzene	ND	31000	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	31000	"	"	"	"	"	"	
tert-Butylbenzene	ND	35000	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	31000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	38000	"	"	"	"	"	"	
sec-Butylbenzene	ND	35000	"	"	"	"	"	"	
p-Isopropyltoluene	ND	35000	"	"	"	"	"	"	
n-Butylbenzene	ND	35000	"	"	"	"	"	"	
Naphthalene	ND	33000	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	47000	"	"	"	"	"	"	
Surrogate: Toluene-d8		*93.2 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.2 %*		*56-127*	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG3-15, P4814cc (E304043-02) Vapor	**Sampled: 11-Apr-13**	**Received: 11-Apr-13**							
1,1-Difluoroethane (LCC)	ND	680	ug/m3	25	ED31101	11-Apr-13	11-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	630	"	"	"	"	"	"	
Chloromethane	ND	520	"	"	"	"	"	"	
Vinyl chloride	**610**	320	"	"	"	"	"	"	
Bromomethane	ND	990	"	"	"	"	"	"	
Chloroethane	ND	670	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	710	"	"	"	"	"	"	
1,1-Dichloroethene	ND	500	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	960	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	440	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1000	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**8400**	1000	"	"	"	"	"	"	
Chloroform	ND	620	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	690	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	510	"	"	"	"	"	"	
Benzene	ND	400	"	"	"	"	"	"	
Carbon tetrachloride	ND	320	"	"	"	"	"	"	
Trichloroethene	**3900**	680	"	"	"	"	"	"	
1,4-Dioxane	ND	910	"	"	"	"	"	"	
Bromodichloromethane	ND	850	"	"	"	"	"	"	
Toluene	ND	480	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	690	"	"	"	"	"	"	
Tetrachloroethene	ND	860	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	870	"	"	"	"	"	"	
Ethylbenzene	ND	550	"	"	"	"	"	"	
m,p-Xylene	ND	1100	"	"	"	"	"	"	
o-Xylene	ND	550	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	870	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	620	"	"	"	"	"	"	
n-Propylbenzene	ND	620	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	620	"	"	"	"	"	"	
tert-Butylbenzene	ND	700	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	620	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	760	"	"	"	"	"	"	
sec-Butylbenzene	ND	700	"	"	"	"	"	"	
p-Isopropyltoluene	ND	700	"	"	"	"	"	"	
n-Butylbenzene	ND	700	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG3-15, P4814cc (E304043-02) Vapor Sampled: 11-Apr-13 Received: 11-Apr-13									
Naphthalene	ND	660	ug/m3	25	ED31101	11-Apr-13	11-Apr-13	TO-15	
1,2,4-Trichlorobenzene	ND	940	"	"	"	"	"	"	
Surrogate: Toluene-d8		*95.7 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.6 %*		*56-127*	"	"	"	"	
SG4-5, P4330cc (E304043-03) Vapor Sampled: 11-Apr-13 Received: 11-Apr-13									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31101	11-Apr-13	11-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**390**	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**120**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**260**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**1900**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**40000**	5000	"	125	"	"	"	"	
Chloroform	**120**	25	"	1	"	"	"	"	
1,1,1-Trichloroethane	**160**	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**70**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**130000**	3400	"	125	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**44**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**6700**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	**26**	22	"	"	"	"	"	"	
m,p-Xylene	**53**	44	"	"	"	"	"	"	
o-Xylene	**32**	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	**54**	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG4-5, P4330cc (E304043-03) Vapor Sampled: 11-Apr-13 Received: 11-Apr-13									
1,3,5-Trimethylbenzene	**79**	25	ug/m3	1	ED31101	11-Apr-13	11-Apr-13	TO-15	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**320**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	**96**	28	"	"	"	"	"	"	
p-Isopropyltoluene	**100**	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*100 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*		*56-127*	"	"	"	"	
SG4-15, P4814cc (E304043-04) Vapor Sampled: 11-Apr-13 Received: 11-Apr-13									
1,1-Difluoroethane (LCC)	ND	1400	ug/m3	50	ED31101	11-Apr-13	11-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	1300	"	"	"	"	"	"	
Chloromethane	ND	1000	"	"	"	"	"	"	
Vinyl chloride	ND	650	"	"	"	"	"	"	
Bromomethane	ND	2000	"	"	"	"	"	"	
Chloroethane	ND	1300	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	1400	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1000	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	1900	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	880	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2000	"	"	"	"	"	"	
1,1-Dichloroethane	**2800**	2100	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**13000**	2000	"	"	"	"	"	"	
Chloroform	ND	1200	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1400	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	1000	"	"	"	"	"	"	
Benzene	ND	810	"	"	"	"	"	"	
Carbon tetrachloride	ND	640	"	"	"	"	"	"	
Trichloroethene	**130000**	1400	"	"	"	"	"	"	
1,4-Dioxane	ND	1800	"	"	"	"	"	"	
Bromodichloromethane	ND	1700	"	"	"	"	"	"	
Toluene	ND	950	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1400	"	"	"	"	"	"	
Tetrachloroethene	**8200**	1700	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG4-15, P4814cc (E304043-04) Vapor	**Sampled: 11-Apr-13**	**Received: 11-Apr-13**							
1,1,1,2-Tetrachloroethane	ND	1700	ug/m3	50	ED31101	11-Apr-13	11-Apr-13	TO-15	
Ethylbenzene	ND	1100	"	"	"	"	"	"	
m,p-Xylene	ND	2200	"	"	"	"	"	"	
o-Xylene	ND	1100	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1700	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	1200	"	"	"	"	"	"	
n-Propylbenzene	ND	1200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1200	"	"	"	"	"	"	
tert-Butylbenzene	ND	1400	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1500	"	"	"	"	"	"	
sec-Butylbenzene	ND	1400	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1400	"	"	"	"	"	"	
n-Butylbenzene	ND	1400	"	"	"	"	"	"	
Naphthalene	ND	1300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1900	"	"	"	"	"	"	
Surrogate: Toluene-d8		*89.0 %*	*75-125*		*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*98.2 %*	*56-127*		*"*	*"*	*"*	*"*	
SG4-25, P5298cc (E304043-05) Vapor	**Sampled: 11-Apr-13**	**Received: 11-Apr-13**							
1,1-Difluoroethane (LCC)	ND	1400	ug/m3	50	ED31101	11-Apr-13	11-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	1300	"	"	"	"	"	"	
Chloromethane	ND	1000	"	"	"	"	"	"	
Vinyl chloride	ND	650	"	"	"	"	"	"	
Bromomethane	ND	2000	"	"	"	"	"	"	
Chloroethane	ND	1300	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	1400	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1000	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	1900	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	880	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**2100**	2000	"	"	"	"	"	"	
1,1-Dichloroethane	**11000**	2100	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**77000**	2000	"	"	"	"	"	"	
Chloroform	ND	1200	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1400	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	1000	"	"	"	"	"	"	
Benzene	ND	810	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG4-25, P5298cc (E304043-05) Vapor	**Sampled: 11-Apr-13**	**Received: 11-Apr-13**							
Carbon tetrachloride	ND	640	ug/m3	50	ED31101	11-Apr-13	11-Apr-13	TO-15	
Trichloroethene	**310000**	3400	"	125	"	"	"	"	
1,4-Dioxane	ND	1800	"	50	"	"	"	"	
Bromodichloromethane	ND	1700	"	"	"	"	"	"	
Toluene	ND	950	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1400	"	"	"	"	"	"	
Tetrachloroethene	**5300**	1700	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1700	"	"	"	"	"	"	
Ethylbenzene	ND	1100	"	"	"	"	"	"	
m,p-Xylene	ND	2200	"	"	"	"	"	"	
o-Xylene	ND	1100	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1700	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	1200	"	"	"	"	"	"	
n-Propylbenzene	ND	1200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1200	"	"	"	"	"	"	
tert-Butylbenzene	ND	1400	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1500	"	"	"	"	"	"	
sec-Butylbenzene	ND	1400	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1400	"	"	"	"	"	"	
n-Butylbenzene	ND	1400	"	"	"	"	"	"	
Naphthalene	ND	1300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1900	"	"	"	"	"	"	
Surrogate: Toluene-d8		*83.7 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.0 %*		*56-127*	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG4-35, P5806cc (E304043-06) Vapor	**Sampled: 11-Apr-13**	**Received: 11-Apr-13**							
1,1-Difluoroethane (LCC)	ND	3400	ug/m3	125	ED31101	11-Apr-13	11-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	3100	"	"	"	"	"	"	
Chloromethane	ND	2600	"	"	"	"	"	"	
Vinyl chloride	**6300**	1600	"	"	"	"	"	"	
Bromomethane	ND	4900	"	"	"	"	"	"	
Chloroethane	ND	3300	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	3500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2500	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	4800	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	2200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**11000**	5000	"	"	"	"	"	"	
1,1-Dichloroethane	**23000**	5100	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**650000**	5000	"	"	"	"	"	"	
Chloroform	ND	3100	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3400	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	2600	"	"	"	"	"	"	
Benzene	ND	2000	"	"	"	"	"	"	
Carbon tetrachloride	ND	1600	"	"	"	"	"	"	
Trichloroethene	**650000**	3400	"	"	"	"	"	"	
1,4-Dioxane	ND	4600	"	"	"	"	"	"	
Bromodichloromethane	ND	4300	"	"	"	"	"	"	
Toluene	ND	2400	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3400	"	"	"	"	"	"	
Tetrachloroethene	ND	4300	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4400	"	"	"	"	"	"	
Ethylbenzene	ND	2700	"	"	"	"	"	"	
m,p-Xylene	ND	5500	"	"	"	"	"	"	
o-Xylene	ND	2700	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4400	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	3100	"	"	"	"	"	"	
n-Propylbenzene	ND	3100	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	3100	"	"	"	"	"	"	
tert-Butylbenzene	ND	3500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	3100	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3800	"	"	"	"	"	"	
sec-Butylbenzene	ND	3500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	3500	"	"	"	"	"	"	
n-Butylbenzene	ND	3500	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG4-35, P5806cc (E304043-06) Vapor Sampled: 11-Apr-13 Received: 11-Apr-13									
Naphthalene	ND	3300	ug/m3	125	ED31101	11-Apr-13	11-Apr-13	TO-15	
1,2,4-Trichlorobenzene	ND	4700	"	"	"	"	"	"	
Surrogate: Toluene-d8		*90.4 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.1 %*		*56-127*	"	"	"	"	
SG2-5, P4330cc (E304043-07) Vapor Sampled: 11-Apr-13 Received: 11-Apr-13									
1,1-Difluoroethane (LCC)	ND	68	ug/m3	2.5	ED31101	11-Apr-13	11-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	63	"	"	"	"	"	"	
Chloromethane	ND	52	"	"	"	"	"	"	
Vinyl chloride	ND	32	"	"	"	"	"	"	
Bromomethane	ND	99	"	"	"	"	"	"	
Chloroethane	ND	67	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	71	"	"	"	"	"	"	
1,1-Dichloroethene	ND	50	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	96	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	44	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	100	"	"	"	"	"	"	
1,1-Dichloroethane	ND	100	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**1600**	100	"	"	"	"	"	"	
Chloroform	ND	62	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	69	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	51	"	"	"	"	"	"	
Benzene	ND	40	"	"	"	"	"	"	
Carbon tetrachloride	ND	32	"	"	"	"	"	"	
Trichloroethene	**1700**	68	"	"	"	"	"	"	
1,4-Dioxane	ND	91	"	"	"	"	"	"	
Bromodichloromethane	ND	85	"	"	"	"	"	"	
Toluene	ND	48	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	69	"	"	"	"	"	"	
Tetrachloroethene	**3400**	86	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	87	"	"	"	"	"	"	
Ethylbenzene	ND	55	"	"	"	"	"	"	
m,p-Xylene	ND	110	"	"	"	"	"	"	
o-Xylene	ND	55	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	87	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	62	"	"	"	"	"	"	
n-Propylbenzene	ND	62	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG2-5, P4330cc (E304043-07) Vapor Sampled: 11-Apr-13 Received: 11-Apr-13									
1,3,5-Trimethylbenzene	ND	62	ug/m3	2.5	ED31101	11-Apr-13	11-Apr-13	TO-15	
tert-Butylbenzene	ND	70	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	62	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	76	"	"	"	"	"	"	
sec-Butylbenzene	ND	70	"	"	"	"	"	"	
p-Isopropyltoluene	ND	70	"	"	"	"	"	"	
n-Butylbenzene	ND	70	"	"	"	"	"	"	
Naphthalene	ND	66	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	94	"	"	"	"	"	"	
Surrogate: Toluene-d8		*99.3 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*		*56-127*	"	"	"	"	
SG2-5 Rep, P5580cc (E304043-08) Vapor Sampled: 11-Apr-13 Received: 11-Apr-13									
1,1-Difluoroethane (LCC)	ND	68	ug/m3	2.5	ED31101	11-Apr-13	11-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	63	"	"	"	"	"	"	
Chloromethane	ND	52	"	"	"	"	"	"	
Vinyl chloride	ND	32	"	"	"	"	"	"	
Bromomethane	ND	99	"	"	"	"	"	"	
Chloroethane	ND	67	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	71	"	"	"	"	"	"	
1,1-Dichloroethene	ND	50	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	96	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	44	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	100	"	"	"	"	"	"	
1,1-Dichloroethane	ND	100	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**790**	100	"	"	"	"	"	"	
Chloroform	ND	62	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	69	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	51	"	"	"	"	"	"	
Benzene	ND	40	"	"	"	"	"	"	
Carbon tetrachloride	ND	32	"	"	"	"	"	"	
Trichloroethene	**2400**	68	"	"	"	"	"	"	
1,4-Dioxane	ND	91	"	"	"	"	"	"	
Bromodichloromethane	ND	85	"	"	"	"	"	"	
Toluene	ND	48	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	69	"	"	"	"	"	"	
Tetrachloroethene	**3200**	86	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG2-5 Rep, P5580cc (E304043-08) Vapor Sampled: 11-Apr-13 Received: 11-Apr-13									
1,1,1,2-Tetrachloroethane	ND	87	ug/m3	2.5	ED31101	11-Apr-13	11-Apr-13	TO-15	
Ethylbenzene	ND	55	"	"	"	"	"	"	
m,p-Xylene	ND	110	"	"	"	"	"	"	
o-Xylene	ND	55	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	87	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	62	"	"	"	"	"	"	
n-Propylbenzene	ND	62	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	62	"	"	"	"	"	"	
tert-Butylbenzene	ND	70	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	62	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	76	"	"	"	"	"	"	
sec-Butylbenzene	ND	70	"	"	"	"	"	"	
p-Isopropyltoluene	ND	70	"	"	"	"	"	"	
n-Butylbenzene	ND	70	"	"	"	"	"	"	
Naphthalene	ND	66	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	94	"	"	"	"	"	"	
Surrogate: Toluene-d8		*87.2 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.2 %*		*56-127*	"	"	"	"	
SG2-15, P4814cc (E304043-09) Vapor Sampled: 11-Apr-13 Received: 11-Apr-13									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31101	11-Apr-13	11-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**41**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**110**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**2700**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**41**	16	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG2-15, P4814cc (E304043-09) Vapor	**Sampled: 11-Apr-13**	**Received: 11-Apr-13**							
Carbon tetrachloride	ND	13	ug/m3	1	ED31101	11-Apr-13	11-Apr-13	TO-15	
Trichloroethene	**8400**	270	"	10	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**4400**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**26**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	**47**	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*99.4 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*		*56-127*	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG2-25, P5298cc (E304043-10) Vapor	**Sampled: 11-Apr-13**	**Received: 11-Apr-13**							
1,1-Difluoroethane (LCC)	ND	68	ug/m3	2.5	ED31101	11-Apr-13	11-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	63	"	"	"	"	"	"	
Chloromethane	ND	52	"	"	"	"	"	"	
Vinyl chloride	**73**	32	"	"	"	"	"	"	
Bromomethane	ND	99	"	"	"	"	"	"	
Chloroethane	ND	67	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	71	"	"	"	"	"	"	
1,1-Dichloroethene	**320**	50	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	96	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	44	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**610**	100	"	"	"	"	"	"	
1,1-Dichloroethane	**280**	100	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**6700**	100	"	"	"	"	"	"	
Chloroform	ND	62	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	69	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	51	"	"	"	"	"	"	
Benzene	ND	40	"	"	"	"	"	"	
Carbon tetrachloride	ND	32	"	"	"	"	"	"	
Trichloroethene	**18000**	68	"	"	"	"	"	"	
1,4-Dioxane	ND	91	"	"	"	"	"	"	
Bromodichloromethane	ND	85	"	"	"	"	"	"	
Toluene	ND	48	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	69	"	"	"	"	"	"	
Tetrachloroethene	**220**	86	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	87	"	"	"	"	"	"	
Ethylbenzene	ND	55	"	"	"	"	"	"	
m,p-Xylene	ND	110	"	"	"	"	"	"	
o-Xylene	ND	55	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	87	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	62	"	"	"	"	"	"	
n-Propylbenzene	ND	62	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	62	"	"	"	"	"	"	
tert-Butylbenzene	ND	70	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	62	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	76	"	"	"	"	"	"	
sec-Butylbenzene	ND	70	"	"	"	"	"	"	
p-Isopropyltoluene	ND	70	"	"	"	"	"	"	
n-Butylbenzene	ND	70	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG2-25, P5298cc (E304043-10) Vapor	**Sampled: 11-Apr-13**	**Received: 11-Apr-13**							
Naphthalene	ND	66	ug/m3	2.5	ED31101	11-Apr-13	11-Apr-13	TO-15	
1,2,4-Trichlorobenzene	ND	94	"	"	"	"	"	"	
Surrogate: Toluene-d8		*91.2 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*		*56-127*	"	"	"	"	
SG2-35, P5806cc (E304043-11) Vapor	**Sampled: 11-Apr-13**	**Received: 11-Apr-13**							
1,1-Difluoroethane (LCC)	ND	68	ug/m3	2.5	ED31101	11-Apr-13	11-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	63	"	"	"	"	"	"	
Chloromethane	ND	52	"	"	"	"	"	"	
Vinyl chloride	**2500**	32	"	"	"	"	"	"	
Bromomethane	ND	99	"	"	"	"	"	"	
Chloroethane	ND	67	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	71	"	"	"	"	"	"	
1,1-Dichloroethene	**1300**	50	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	96	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	44	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**7700**	100	"	"	"	"	"	"	
1,1-Dichloroethane	**8100**	100	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**360000**	5000	"	125	"	"	"	"	
Chloroform	ND	62	"	2.5	"	"	"	"	
1,1,1-Trichloroethane	ND	69	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	**75**	51	"	"	"	"	"	"	
Benzene	**75**	40	"	"	"	"	"	"	
Carbon tetrachloride	ND	32	"	"	"	"	"	"	
Trichloroethene	**280000**	3400	"	125	"	"	"	"	
1,4-Dioxane	ND	91	"	2.5	"	"	"	"	
Bromodichloromethane	ND	85	"	"	"	"	"	"	
Toluene	ND	48	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	69	"	"	"	"	"	"	
Tetrachloroethene	**610**	86	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	87	"	"	"	"	"	"	
Ethylbenzene	ND	55	"	"	"	"	"	"	
m,p-Xylene	ND	110	"	"	"	"	"	"	
o-Xylene	ND	55	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	87	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	62	"	"	"	"	"	"	
n-Propylbenzene	ND	62	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG2-35, P5806cc (E304043-11) Vapor	**Sampled: 11-Apr-13**	**Received: 11-Apr-13**							
1,3,5-Trimethylbenzene	ND	62	ug/m3	2.5	ED31101	11-Apr-13	11-Apr-13	TO-15	
tert-Butylbenzene	ND	70	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	62	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	76	"	"	"	"	"	"	
sec-Butylbenzene	ND	70	"	"	"	"	"	"	
p-Isopropyltoluene	ND	70	"	"	"	"	"	"	
n-Butylbenzene	ND	70	"	"	"	"	"	"	
Naphthalene	ND	66	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	94	"	"	"	"	"	"	
Surrogate: Toluene-d8		*98.9 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.3 %*		*56-127*	"	"	"	"	
SG12-5, P4330cc (E304043-12) Vapor	**Sampled: 11-Apr-13**	**Received: 11-Apr-13**							
1,1-Difluoroethane (LCC)	ND	3400	ug/m3	125	ED31101	11-Apr-13	11-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	3100	"	"	"	"	"	"	
Chloromethane	ND	2600	"	"	"	"	"	"	
Vinyl chloride	ND	1600	"	"	"	"	"	"	
Bromomethane	ND	4900	"	"	"	"	"	"	
Chloroethane	ND	3300	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	3500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	2500	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	4800	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	2200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5000	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5100	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**15000**	5000	"	"	"	"	"	"	
Chloroform	ND	3100	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3400	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	2600	"	"	"	"	"	"	
Benzene	ND	2000	"	"	"	"	"	"	
Carbon tetrachloride	ND	1600	"	"	"	"	"	"	
Trichloroethene	**22000**	3400	"	"	"	"	"	"	
1,4-Dioxane	ND	4600	"	"	"	"	"	"	
Bromodichloromethane	ND	4300	"	"	"	"	"	"	
Toluene	ND	2400	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3400	"	"	"	"	"	"	
Tetrachloroethene	ND	4300	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG12-5, P4330cc (E304043-12) Vapor	**Sampled: 11-Apr-13**	**Received: 11-Apr-13**							
1,1,1,2-Tetrachloroethane	ND	4400	ug/m3	125	ED31101	11-Apr-13	11-Apr-13	TO-15	
Ethylbenzene	ND	2700	"	"	"	"	"	"	
m,p-Xylene	ND	5500	"	"	"	"	"	"	
o-Xylene	ND	2700	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4400	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	3100	"	"	"	"	"	"	
n-Propylbenzene	ND	3100	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	3100	"	"	"	"	"	"	
tert-Butylbenzene	ND	3500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	3100	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3800	"	"	"	"	"	"	
sec-Butylbenzene	ND	3500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	3500	"	"	"	"	"	"	
n-Butylbenzene	ND	3500	"	"	"	"	"	"	
Naphthalene	ND	3300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4700	"	"	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.5 %*		*56-127*	"	"	"	"	
SG12-15, P4814cc (E304054-01) Vapor	**Sampled: 12-Apr-13**	**Received: 12-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31201	12-Apr-13	12-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**46**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**130**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**5200**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**57**	16	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG12-15, P4814cc (E304054-01) Vapor	**Sampled: 12-Apr-13**	**Received: 12-Apr-13**							
Carbon tetrachloride	ND	13	ug/m3	1	ED31201	12-Apr-13	12-Apr-13	TO-15	
Trichloroethene	**8900**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**81**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**32**	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**80**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	**36**	28	"	"	"	"	"	"	
n-Butylbenzene	**32**	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*90.2 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*78.3 %*		*56-127*	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG12-25, P5298cc (E304054-02) Vapor	**Sampled: 12-Apr-13**	**Received: 12-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31201	12-Apr-13	12-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**66**	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**190**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**91**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**160**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**6600**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**96**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**15000**	270	"	10	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**34**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**120**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	**45**	44	"	"	"	"	"	"	
o-Xylene	**32**	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**29**	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**110**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG12-25, P5298cc (E304054-02) Vapor	**Sampled: 12-Apr-13**	**Received: 12-Apr-13**							
Naphthalene	ND	27	ug/m3	1	ED31201	12-Apr-13	12-Apr-13	TO-15	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*88.8 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*72.5 %*	*56-127*		"	"	"	"	
SG12-35, P5806cc (E304054-03) Vapor	**Sampled: 12-Apr-13**	**Received: 12-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31201	12-Apr-13	12-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	**110**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**5200**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**46**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**9900**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**23**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**80**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG12-35, P5806cc (E304054-03) Vapor	**Sampled: 12-Apr-13**	**Received: 12-Apr-13**							
1,3,5-Trimethylbenzene	**31**	25	ug/m3	1	ED31201	12-Apr-13	12-Apr-13	TO-15	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**110**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	**44**	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*96.1 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*		*56-127*	"	"	"	"	
SG1-5, P4330cc (E304054-04) Vapor	**Sampled: 12-Apr-13**	**Received: 12-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31201	12-Apr-13	12-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**130**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**13000**	34	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG1-5, P4330cc (E304054-04) Vapor Sampled: 12-Apr-13 Received: 12-Apr-13									
1,1,1,2-Tetrachloroethane	ND	35	ug/m3	1	ED31201	12-Apr-13	12-Apr-13	TO-15	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*98.1 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*76.3 %*		*56-127*	"	"	"	"	
SG1-15, P4814cc (E304054-05) Vapor Sampled: 12-Apr-13 Received: 12-Apr-13									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31201	12-Apr-13	12-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**44**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG1-15, P4814cc (E304054-05) Vapor	**Sampled: 12-Apr-13**	**Received: 12-Apr-13**							
Carbon tetrachloride	ND	13	ug/m3	1	ED31201	12-Apr-13	12-Apr-13	TO-15	
Trichloroethene	**100**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**720**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*78.5 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.1 %*		*56-127*	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG1-25, P5298cc (E304054-06) Vapor	**Sampled: 12-Apr-13**	**Received: 12-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31201	12-Apr-13	12-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**250**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**18000**	270	"	10	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**42000**	340	"	10	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	1	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG1-25, P5298cc (E304054-06) Vapor	**Sampled: 12-Apr-13**	**Received: 12-Apr-13**							
Naphthalene	ND	27	ug/m3	1	ED31201	12-Apr-13	12-Apr-13	TO-15	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*81.8 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.6 %*	*56-127*		"	"	"	"	
SG1-35, P5806cc (E304054-07) Vapor	**Sampled: 12-Apr-13**	**Received: 12-Apr-13**							
1,1-Difluoroethane (LCC)	ND	270	ug/m3	10	ED31201	12-Apr-13	12-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	250	"	"	"	"	"	"	
Chloromethane	ND	210	"	"	"	"	"	"	
Vinyl chloride	ND	130	"	"	"	"	"	"	
Bromomethane	ND	390	"	"	"	"	"	"	
Chloroethane	ND	270	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	280	"	"	"	"	"	"	
1,1-Dichloroethene	ND	200	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	390	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	180	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	400	"	"	"	"	"	"	
1,1-Dichloroethane	ND	410	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**1900**	400	"	"	"	"	"	"	
Chloroform	ND	250	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	280	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	210	"	"	"	"	"	"	
Benzene	ND	160	"	"	"	"	"	"	
Carbon tetrachloride	ND	130	"	"	"	"	"	"	
Trichloroethene	**8100**	270	"	"	"	"	"	"	
1,4-Dioxane	ND	360	"	"	"	"	"	"	
Bromodichloromethane	ND	340	"	"	"	"	"	"	
Toluene	ND	190	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	280	"	"	"	"	"	"	
Tetrachloroethene	**6100**	340	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	350	"	"	"	"	"	"	
Ethylbenzene	ND	220	"	"	"	"	"	"	
m,p-Xylene	ND	440	"	"	"	"	"	"	
o-Xylene	ND	220	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	350	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	250	"	"	"	"	"	"	
n-Propylbenzene	ND	250	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG1-35, P5806cc (E304054-07) Vapor	**Sampled: 12-Apr-13**	**Received: 12-Apr-13**							
1,3,5-Trimethylbenzene	ND	250	ug/m3	10	ED31201	12-Apr-13	12-Apr-13	TO-15	
tert-Butylbenzene	ND	280	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	250	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
sec-Butylbenzene	ND	280	"	"	"	"	"	"	
p-Isopropyltoluene	ND	280	"	"	"	"	"	"	
n-Butylbenzene	ND	280	"	"	"	"	"	"	
Naphthalene	ND	270	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	380	"	"	"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*75-125*		*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*82.8 %*	*56-127*		*"*	*"*	*"*	*"*	
SG17-5, P4330cc (E304054-08) Vapor	**Sampled: 12-Apr-13**	**Received: 12-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31201	12-Apr-13	12-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**82**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**27**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**190**	34	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG17-5, P4330cc (E304054-08) Vapor Sampled: 12-Apr-13 Received: 12-Apr-13									
1,1,1,2-Tetrachloroethane	ND	35	ug/m3	1	ED31201	12-Apr-13	12-Apr-13	TO-15	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*94.0 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*68.9 %*		*56-127*	"	"	"	"	
SG17-15, P4814cc (E304054-09) Vapor Sampled: 12-Apr-13 Received: 12-Apr-13									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31201	12-Apr-13	12-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**38**	16	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG17-15, P4814cc (E304054-09) Vapor	**Sampled: 12-Apr-13**	**Received: 12-Apr-13**							
Carbon tetrachloride	ND	13	ug/m3	1	ED31201	12-Apr-13	12-Apr-13	TO-15	
Trichloroethene	**39**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**44**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**210**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	**35**	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*97.9 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*75.4 %*	*56-127*		"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG17-25, P5298cc (E304054-10) Vapor	**Sampled: 12-Apr-13**	**Received: 12-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31201	12-Apr-13	12-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**270**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**100**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**1700**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**53**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**1400**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG17-25, P5298cc (E304054-10) Vapor	**Sampled: 12-Apr-13**	**Received: 12-Apr-13**							
Naphthalene	ND	27	ug/m3	1	ED31201	12-Apr-13	12-Apr-13	TO-15	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*90.4 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*64.3 %*		*56-127*	"	"	"	"	
SG17-35, P5806cc (E304054-11) Vapor	**Sampled: 12-Apr-13**	**Received: 12-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31201	12-Apr-13	12-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**27**	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**69**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**130**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**3000**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**36**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**6800**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**19**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**480**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG17-35, P5806cc (E304054-11) Vapor	**Sampled: 12-Apr-13**	**Received: 12-Apr-13**							
1,3,5-Trimethylbenzene	ND	25	ug/m3	1	ED31201	12-Apr-13	12-Apr-13	TO-15	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*97.8 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*64.4 %*		*56-127*	"	"	"	"	
SG16-5, P4330cc (E304054-12) Vapor	**Sampled: 12-Apr-13**	**Received: 12-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31201	12-Apr-13	12-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**120**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**110**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**280**	34	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG16-5, P4330cc (E304054-12) Vapor Sampled: 12-Apr-13 Received: 12-Apr-13									
1,1,1,2-Tetrachloroethane	ND	35	ug/m3	1	ED31201	12-Apr-13	12-Apr-13	TO-15	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*84.3 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*79.2 %*		*56-127*	"	"	"	"	
SG16-5 Rep, P4380cc (E304054-13) Vapor Sampled: 12-Apr-13 Received: 12-Apr-13									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31201	12-Apr-13	12-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**66**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG16-5 Rep, P4380cc (E304054-13) Vapor	**Sampled: 12-Apr-13**	**Received: 12-Apr-13**							
Carbon tetrachloride	ND	13	ug/m3	1	ED31201	12-Apr-13	12-Apr-13	TO-15	
Trichloroethene	**49**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**390**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*92.1 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*72.6 %*		*56-127*	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG16-15, P4814cc (E304054-14) Vapor	**Sampled: 12-Apr-13**	**Received: 12-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31201	12-Apr-13	12-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**55**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**29**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**72**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**35**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**820**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	**38**	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG16-15, P4814cc (E304054-14) Vapor	**Sampled: 12-Apr-13**	**Received: 12-Apr-13**							
Naphthalene	ND	27	ug/m3	1	ED31201	12-Apr-13	12-Apr-13	TO-15	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*80.0 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*72.6 %*	*56-127*		"	"	"	"	
SG16-25, P5298cc (E304060-01) Vapor	**Sampled: 15-Apr-13**	**Received: 15-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31503	15-Apr-13	15-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**870**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**72**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**880**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**1100**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG16-25, P5298cc (E304060-01) Vapor	**Sampled: 15-Apr-13**	**Received: 15-Apr-13**							
1,3,5-Trimethylbenzene	ND	25	ug/m3	1	ED31503	15-Apr-13	15-Apr-13	TO-15	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*85.7 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.0 %*		*56-127*	"	"	"	"	
SG16-35, P5806cc (E304060-02) Vapor	**Sampled: 15-Apr-13**	**Received: 15-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31503	15-Apr-13	15-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**170**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**610**	34	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG16-35, P5806cc (E304060-02) Vapor Sampled: 15-Apr-13 Received: 15-Apr-13									
1,1,1,2-Tetrachloroethane	ND	35	ug/m3	1	ED31503	15-Apr-13	15-Apr-13	TO-15	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*88.2 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.6 %*		*56-127*	"	"	"	"	
SG15-5, P4330cc (E304060-03) Vapor Sampled: 15-Apr-13 Received: 15-Apr-13									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31503	15-Apr-13	15-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG15-5, P4330cc (E304060-03) Vapor	**Sampled: 15-Apr-13**	**Received: 15-Apr-13**							
Carbon tetrachloride	ND	13	ug/m3	1	ED31503	15-Apr-13	15-Apr-13	TO-15	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**750**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*89.2 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*79.3 %*		*56-127*	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG15-15, P4814cc (E304060-04) Vapor	**Sampled: 15-Apr-13**	**Received: 15-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31503	15-Apr-13	15-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**110**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**32**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**40**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**810**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG15-15, P4814cc (E304060-04) Vapor	**Sampled: 15-Apr-13**	**Received: 15-Apr-13**							
Naphthalene	ND	27	ug/m3	1	ED31503	15-Apr-13	15-Apr-13	TO-15	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*90.7 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.3 %*		*56-127*	"	"	"	"	
SG15-25, P5298cc (E304060-05) Vapor	**Sampled: 15-Apr-13**	**Received: 15-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31503	15-Apr-13	15-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**23**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**460**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**1600**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG15-25, P5298cc (E304060-05) Vapor	**Sampled: 15-Apr-13**	**Received: 15-Apr-13**							
1,3,5-Trimethylbenzene	ND	25	ug/m3	1	ED31503	15-Apr-13	15-Apr-13	TO-15	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*83.3 %*	*75-125*		*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*117 %*	*56-127*		*"*	*"*	*"*	*"*	
SG15-35, P5806cc (E304060-06) Vapor	**Sampled: 15-Apr-13**	**Received: 15-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31503	15-Apr-13	15-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**580**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**1200**	34	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG15-35, P5806cc (E304060-06) Vapor	**Sampled: 15-Apr-13**	**Received: 15-Apr-13**							
1,1,1,2-Tetrachloroethane	ND	35	ug/m3	1	ED31503	15-Apr-13	15-Apr-13	TO-15	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*91.0 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.2 %*		*56-127*	"	"	"	"	
SG8-5, P4330cc (E304060-07) Vapor	**Sampled: 15-Apr-13**	**Received: 15-Apr-13**							
1,1-Difluoroethane (LCC)	ND	14000	ug/m3	500	ED31503	15-Apr-13	15-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	13000	"	"	"	"	"	"	
Chloromethane	ND	10000	"	"	"	"	"	"	
Vinyl chloride	**450000**	6500	"	"	"	"	"	"	
Bromomethane	ND	20000	"	"	"	"	"	"	
Chloroethane	ND	13000	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	14000	"	"	"	"	"	"	
1,1-Dichloroethene	ND	10000	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	19000	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	8800	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	20000	"	"	"	"	"	"	
1,1-Dichloroethane	**83000**	21000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**230000**	20000	"	"	"	"	"	"	
Chloroform	ND	12000	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	14000	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	10000	"	"	"	"	"	"	
Benzene	ND	8100	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG8-5, P4330cc (E304060-07) Vapor Sampled: 15-Apr-13 Received: 15-Apr-13									
Carbon tetrachloride	ND	6400	ug/m3	500	ED31503	15-Apr-13	15-Apr-13	TO-15	
Trichloroethene	ND	14000	"	"	"	"	"	"	
1,4-Dioxane	ND	18000	"	"	"	"	"	"	
Bromodichloromethane	ND	17000	"	"	"	"	"	"	
Toluene	ND	9500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	14000	"	"	"	"	"	"	
Tetrachloroethene	ND	17000	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	17000	"	"	"	"	"	"	
Ethylbenzene	ND	11000	"	"	"	"	"	"	
m,p-Xylene	ND	22000	"	"	"	"	"	"	
o-Xylene	ND	11000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	17000	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	12000	"	"	"	"	"	"	
n-Propylbenzene	ND	12000	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	12000	"	"	"	"	"	"	
tert-Butylbenzene	ND	14000	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	12000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	15000	"	"	"	"	"	"	
sec-Butylbenzene	ND	14000	"	"	"	"	"	"	
p-Isopropyltoluene	ND	14000	"	"	"	"	"	"	
n-Butylbenzene	ND	14000	"	"	"	"	"	"	
Naphthalene	ND	13000	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	19000	"	"	"	"	"	"	
Surrogate: Toluene-d8		*90.2 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.4 %*		*56-127*	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG8-15, P4814cc (E304060-08) Vapor	**Sampled: 15-Apr-13**	**Received: 15-Apr-13**							
1,1-Difluoroethane (LCC)	ND	14000	ug/m3	500	ED31503	15-Apr-13	15-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	13000	"	"	"	"	"	"	
Chloromethane	ND	10000	"	"	"	"	"	"	
Vinyl chloride	**480000**	6500	"	"	"	"	"	"	
Bromomethane	ND	20000	"	"	"	"	"	"	
Chloroethane	ND	13000	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	14000	"	"	"	"	"	"	
1,1-Dichloroethene	**14000**	10000	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	19000	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	8800	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	20000	"	"	"	"	"	"	
1,1-Dichloroethane	**180000**	21000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**2400000**	20000	"	"	"	"	"	"	
Chloroform	ND	12000	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	14000	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	10000	"	"	"	"	"	"	
Benzene	ND	8100	"	"	"	"	"	"	
Carbon tetrachloride	ND	6400	"	"	"	"	"	"	
Trichloroethene	**880000**	14000	"	"	"	"	"	"	
1,4-Dioxane	ND	18000	"	"	"	"	"	"	
Bromodichloromethane	ND	17000	"	"	"	"	"	"	
Toluene	ND	9500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	14000	"	"	"	"	"	"	
Tetrachloroethene	ND	17000	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	17000	"	"	"	"	"	"	
Ethylbenzene	ND	11000	"	"	"	"	"	"	
m,p-Xylene	ND	22000	"	"	"	"	"	"	
o-Xylene	ND	11000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	17000	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	12000	"	"	"	"	"	"	
n-Propylbenzene	ND	12000	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	12000	"	"	"	"	"	"	
tert-Butylbenzene	ND	14000	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	12000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	15000	"	"	"	"	"	"	
sec-Butylbenzene	ND	14000	"	"	"	"	"	"	
p-Isopropyltoluene	ND	14000	"	"	"	"	"	"	
n-Butylbenzene	ND	14000	"	"	"	"	"	"	

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Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG8-15, P4814cc (E304060-08) Vapor	**Sampled: 15-Apr-13**	**Received: 15-Apr-13**							
Naphthalene	ND	13000	ug/m3	500	ED31503	15-Apr-13	15-Apr-13	TO-15	
1,2,4-Trichlorobenzene	ND	19000	"	"	"	"	"	"	
Surrogate: Toluene-d8		*83.1 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.4 %*	*56-127*		"	"	"	"	
SG8-25, P5298cc (E304060-09) Vapor	**Sampled: 15-Apr-13**	**Received: 15-Apr-13**							
1,1-Difluoroethane (LCC)	ND	17000	ug/m3	625	ED31503	15-Apr-13	15-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	16000	"	"	"	"	"	"	
Chloromethane	ND	13000	"	"	"	"	"	"	
Vinyl chloride	**400000**	8100	"	"	"	"	"	"	
Bromomethane	ND	25000	"	"	"	"	"	"	
Chloroethane	ND	17000	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	18000	"	"	"	"	"	"	
1,1-Dichloroethene	**23000**	13000	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	24000	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	11000	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	25000	"	"	"	"	"	"	
1,1-Dichloroethane	**130000**	26000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**4000000**	25000	"	"	"	"	"	"	
Chloroform	ND	15000	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	17000	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	13000	"	"	"	"	"	"	
Benzene	ND	10000	"	"	"	"	"	"	
Carbon tetrachloride	ND	8000	"	"	"	"	"	"	
Trichloroethene	**85000**	17000	"	"	"	"	"	"	
1,4-Dioxane	ND	23000	"	"	"	"	"	"	
Bromodichloromethane	ND	21000	"	"	"	"	"	"	
Toluene	ND	12000	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	17000	"	"	"	"	"	"	
Tetrachloroethene	ND	22000	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	22000	"	"	"	"	"	"	
Ethylbenzene	ND	14000	"	"	"	"	"	"	
m,p-Xylene	ND	27000	"	"	"	"	"	"	
o-Xylene	ND	14000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	22000	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	16000	"	"	"	"	"	"	
n-Propylbenzene	ND	16000	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG8-25, P5298cc (E304060-09) Vapor	**Sampled: 15-Apr-13**	**Received: 15-Apr-13**							
1,3,5-Trimethylbenzene	ND	16000	ug/m3	625	ED31503	15-Apr-13	15-Apr-13	TO-15	
tert-Butylbenzene	ND	17000	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	16000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	19000	"	"	"	"	"	"	
sec-Butylbenzene	ND	17000	"	"	"	"	"	"	
p-Isopropyltoluene	ND	17000	"	"	"	"	"	"	
n-Butylbenzene	ND	17000	"	"	"	"	"	"	
Naphthalene	ND	17000	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	23000	"	"	"	"	"	"	
Surrogate: Toluene-d8		*90.6 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.8 %*		*56-127*	"	"	"	"	
SG8-35, P5806cc (E304060-10) Vapor	**Sampled: 15-Apr-13**	**Received: 15-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27000	ug/m3	1000	ED31503	15-Apr-13	15-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25000	"	"	"	"	"	"	
Chloromethane	ND	21000	"	"	"	"	"	"	
Vinyl chloride	**200000**	13000	"	"	"	"	"	"	
Bromomethane	ND	39000	"	"	"	"	"	"	
Chloroethane	ND	27000	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28000	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20000	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39000	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18000	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**65000**	40000	"	"	"	"	"	"	
1,1-Dichloroethane	**110000**	41000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**3100000**	40000	"	"	"	"	"	"	
Chloroform	ND	25000	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28000	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21000	"	"	"	"	"	"	
Benzene	ND	16000	"	"	"	"	"	"	
Carbon tetrachloride	ND	13000	"	"	"	"	"	"	
Trichloroethene	**770000**	27000	"	"	"	"	"	"	
1,4-Dioxane	ND	36000	"	"	"	"	"	"	
Bromodichloromethane	ND	34000	"	"	"	"	"	"	
Toluene	ND	19000	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28000	"	"	"	"	"	"	
Tetrachloroethene	ND	34000	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG8-35, P5806cc (E304060-10) Vapor Sampled: 15-Apr-13 Received: 15-Apr-13									
1,1,1,2-Tetrachloroethane	ND	35000	ug/m3	1000	ED31503	15-Apr-13	15-Apr-13	TO-15	
Ethylbenzene	ND	22000	"	"	"	"	"	"	
m,p-Xylene	ND	44000	"	"	"	"	"	"	
o-Xylene	ND	22000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35000	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25000	"	"	"	"	"	"	
n-Propylbenzene	ND	25000	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25000	"	"	"	"	"	"	
tert-Butylbenzene	ND	28000	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30000	"	"	"	"	"	"	
sec-Butylbenzene	ND	28000	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28000	"	"	"	"	"	"	
n-Butylbenzene	ND	28000	"	"	"	"	"	"	
Naphthalene	ND	27000	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38000	"	"	"	"	"	"	
Surrogate: Toluene-d8		*89.5 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.8 %*	*56-127*		"	"	"	"	
SG7-5, P4330cc (E304060-11) Vapor Sampled: 15-Apr-13 Received: 15-Apr-13									
1,1-Difluoroethane (LCC)	ND	1400	ug/m3	50	ED31503	15-Apr-13	15-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	1300	"	"	"	"	"	"	
Chloromethane	ND	1000	"	"	"	"	"	"	
Vinyl chloride	ND	650	"	"	"	"	"	"	
Bromomethane	ND	2000	"	"	"	"	"	"	
Chloroethane	ND	1300	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	1400	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1000	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	1900	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	880	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2000	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2100	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**6300**	2000	"	"	"	"	"	"	
Chloroform	ND	1200	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1400	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	1000	"	"	"	"	"	"	
Benzene	ND	810	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG7-5, P4330cc (E304060-11) Vapor Sampled: 15-Apr-13 Received: 15-Apr-13									
Carbon tetrachloride	ND	640	ug/m3	50	ED31503	15-Apr-13	15-Apr-13	TO-15	
Trichloroethene	**12000**	1400	"	"	"	"	"	"	
1,4-Dioxane	ND	1800	"	"	"	"	"	"	
Bromodichloromethane	ND	1700	"	"	"	"	"	"	
Toluene	ND	950	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1400	"	"	"	"	"	"	
Tetrachloroethene	ND	1700	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1700	"	"	"	"	"	"	
Ethylbenzene	ND	1100	"	"	"	"	"	"	
m,p-Xylene	ND	2200	"	"	"	"	"	"	
o-Xylene	ND	1100	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1700	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	1200	"	"	"	"	"	"	
n-Propylbenzene	ND	1200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1200	"	"	"	"	"	"	
tert-Butylbenzene	ND	1400	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1500	"	"	"	"	"	"	
sec-Butylbenzene	ND	1400	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1400	"	"	"	"	"	"	
n-Butylbenzene	ND	1400	"	"	"	"	"	"	
Naphthalene	ND	1300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1900	"	"	"	"	"	"	
Surrogate: Toluene-d8		*95.5 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*		*56-127*	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG7-5 Rep, P4380cc (E304060-12) Vapor	**Sampled: 15-Apr-13**	**Received: 15-Apr-13**							
1,1-Difluoroethane (LCC)	ND	1400	ug/m3	50	ED31503	15-Apr-13	15-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	1300	"	"	"	"	"	"	
Chloromethane	ND	1000	"	"	"	"	"	"	
Vinyl chloride	ND	650	"	"	"	"	"	"	
Bromomethane	ND	2000	"	"	"	"	"	"	
Chloroethane	ND	1300	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	1400	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1000	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	1900	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	880	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2000	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2100	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**2200**	2000	"	"	"	"	"	"	
Chloroform	ND	1200	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1400	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	1000	"	"	"	"	"	"	
Benzene	ND	810	"	"	"	"	"	"	
Carbon tetrachloride	ND	640	"	"	"	"	"	"	
Trichloroethene	**18000**	1400	"	"	"	"	"	"	
1,4-Dioxane	ND	1800	"	"	"	"	"	"	
Bromodichloromethane	ND	1700	"	"	"	"	"	"	
Toluene	ND	950	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1400	"	"	"	"	"	"	
Tetrachloroethene	ND	1700	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1700	"	"	"	"	"	"	
Ethylbenzene	ND	1100	"	"	"	"	"	"	
m,p-Xylene	ND	2200	"	"	"	"	"	"	
o-Xylene	ND	1100	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1700	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	1200	"	"	"	"	"	"	
n-Propylbenzene	ND	1200	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1200	"	"	"	"	"	"	
tert-Butylbenzene	ND	1400	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1500	"	"	"	"	"	"	
sec-Butylbenzene	ND	1400	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1400	"	"	"	"	"	"	
n-Butylbenzene	ND	1400	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG7-5 Rep, P4380cc (E304060-12) Vapor Sampled: 15-Apr-13 Received: 15-Apr-13									
Naphthalene	ND	1300	ug/m3	50	ED31503	15-Apr-13	15-Apr-13	TO-15	
1,2,4-Trichlorobenzene	ND	1900	"	"	"	"	"	"	
Surrogate: Toluene-d8		*92.5 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.9 %*	*56-127*		"	"	"	"	
SG7-15, P4814cc (E304065-01) Vapor Sampled: 16-Apr-13 Received: 16-Apr-13									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31601	16-Apr-13	16-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**600**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**89**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**6100**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**23**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG7-15, P4814cc (E304065-01) Vapor	**Sampled: 16-Apr-13**	**Received: 16-Apr-13**							
1,3,5-Trimethylbenzene	ND	25	ug/m3	1	ED31601	16-Apr-13	16-Apr-13	TO-15	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.5 %*		*56-127*	"	"	"	"	
SG7-25, P5298cc (E304065-02) Vapor	**Sampled: 16-Apr-13**	**Received: 16-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31601	16-Apr-13	16-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	**34**	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**130**	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**280**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**630**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**1300**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**24000**	1000	"	25	"	"	"	"	
Chloroform	ND	25	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**120**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**120000**	680	"	25	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**27**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**90**	34	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG7-25, P5298cc (E304065-02) Vapor	**Sampled: 16-Apr-13**	**Received: 16-Apr-13**							
1,1,1,2-Tetrachloroethane	ND	35	ug/m3	1	ED31601	16-Apr-13	16-Apr-13	TO-15	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.6 %*	*56-127*		"	"	"	"	
SG7-35, P5806cc (E304065-03) Vapor	**Sampled: 16-Apr-13**	**Received: 16-Apr-13**							
1,1-Difluoroethane (LCC)	ND	680	ug/m3	25	ED31601	16-Apr-13	16-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	630	"	"	"	"	"	"	
Chloromethane	ND	520	"	"	"	"	"	"	
Vinyl chloride	**6800**	320	"	"	"	"	"	"	
Bromomethane	ND	990	"	"	"	"	"	"	
Chloroethane	ND	670	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	710	"	"	"	"	"	"	
1,1-Dichloroethene	**4100**	500	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	960	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	440	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**7300**	1000	"	"	"	"	"	"	
1,1-Dichloroethane	**5400**	1000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**200000**	1000	"	"	"	"	"	"	
Chloroform	ND	620	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	690	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	510	"	"	"	"	"	"	
Benzene	ND	400	"	"	"	"	"	"	

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Geochemistry Inc.

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG7-35, P5806cc (E304065-03) Vapor	**Sampled: 16-Apr-13**	**Received: 16-Apr-13**							
Carbon tetrachloride	ND	320	ug/m3	25	ED31601	16-Apr-13	16-Apr-13	TO-15	
Trichloroethene	**340000**	3400	"	125	"	"	"	"	
1,4-Dioxane	ND	910	"	25	"	"	"	"	
Bromodichloromethane	ND	850	"	"	"	"	"	"	
Toluene	ND	480	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	690	"	"	"	"	"	"	
Tetrachloroethene	ND	860	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	870	"	"	"	"	"	"	
Ethylbenzene	ND	550	"	"	"	"	"	"	
m,p-Xylene	ND	1100	"	"	"	"	"	"	
o-Xylene	ND	550	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	870	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	620	"	"	"	"	"	"	
n-Propylbenzene	ND	620	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	620	"	"	"	"	"	"	
tert-Butylbenzene	ND	700	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	620	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	760	"	"	"	"	"	"	
sec-Butylbenzene	ND	700	"	"	"	"	"	"	
p-Isopropyltoluene	ND	700	"	"	"	"	"	"	
n-Butylbenzene	ND	700	"	"	"	"	"	"	
Naphthalene	ND	660	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	940	"	"	"	"	"	"	
Surrogate: Toluene-d8		*97.6 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.9 %*		*56-127*	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG5-5, P4330cc (E304065-04) Vapor Sampled: 16-Apr-13 Received: 16-Apr-13									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31601	16-Apr-13	16-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**210**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**1200**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**990**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG5-5, P4330cc (E304065-04) Vapor Sampled: 16-Apr-13 Received: 16-Apr-13									
Naphthalene	ND	27	ug/m3	1	ED31601	16-Apr-13	16-Apr-13	TO-15	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*96.5 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.9 %*		*56-127*	"	"	"	"	
SG5-5 Rep, P4380cc (E304065-05) Vapor Sampled: 16-Apr-13 Received: 16-Apr-13									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31601	16-Apr-13	16-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**240**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**1200**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**970**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG5-5 Rep, P4380cc (E304065-05) Vapor	**Sampled: 16-Apr-13**	**Received: 16-Apr-13**							
1,3,5-Trimethylbenzene	ND	25	ug/m3	1	ED31601	16-Apr-13	16-Apr-13	TO-15	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*95.6 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*79.0 %*		*56-127*	"	"	"	"	
SG5-15, P4814cc (E304065-06) Vapor	**Sampled: 16-Apr-13**	**Received: 16-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31601	16-Apr-13	16-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**80**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**70**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**2500**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**770**	34	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG5-15, P4814cc (E304065-06) Vapor	**Sampled: 16-Apr-13**	**Received: 16-Apr-13**							
1,1,1,2-Tetrachloroethane	ND	35	ug/m3	1	ED31601	16-Apr-13	16-Apr-13	TO-15	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*87.1 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*68.5 %*		*56-127*	"	"	"	"	
SG5-25, P5298cc (E304065-07) Vapor	**Sampled: 16-Apr-13**	**Received: 16-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31601	16-Apr-13	16-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**30**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**83**	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**200**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**170**	16	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG5-25, P5298cc (E304065-07) Vapor	**Sampled: 16-Apr-13**	**Received: 16-Apr-13**							
Carbon tetrachloride	ND	13	ug/m3	1	ED31601	16-Apr-13	16-Apr-13	TO-15	
Trichloroethene	**11000**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**130**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*92.7 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*75.3 %*		*56-127*	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG5-35, P5806cc (E304065-08) Vapor	**Sampled: 16-Apr-13**	**Received: 16-Apr-13**							
1,1-Difluoroethane (LCC)	ND	270	ug/m3	10	ED31601	16-Apr-13	16-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	250	"	"	"	"	"	"	
Chloromethane	ND	210	"	"	"	"	"	"	
Vinyl chloride	ND	130	"	"	"	"	"	"	
Bromomethane	ND	390	"	"	"	"	"	"	
Chloroethane	ND	270	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	280	"	"	"	"	"	"	
1,1-Dichloroethene	ND	200	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	390	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	180	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	400	"	"	"	"	"	"	
1,1-Dichloroethane	ND	410	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**810**	400	"	"	"	"	"	"	
Chloroform	ND	250	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	280	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	210	"	"	"	"	"	"	
Benzene	ND	160	"	"	"	"	"	"	
Carbon tetrachloride	ND	130	"	"	"	"	"	"	
Trichloroethene	**20000**	270	"	"	"	"	"	"	
1,4-Dioxane	ND	360	"	"	"	"	"	"	
Bromodichloromethane	ND	340	"	"	"	"	"	"	
Toluene	ND	190	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	280	"	"	"	"	"	"	
Tetrachloroethene	ND	340	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	350	"	"	"	"	"	"	
Ethylbenzene	ND	220	"	"	"	"	"	"	
m,p-Xylene	ND	440	"	"	"	"	"	"	
o-Xylene	ND	220	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	350	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	250	"	"	"	"	"	"	
n-Propylbenzene	ND	250	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	250	"	"	"	"	"	"	
tert-Butylbenzene	ND	280	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	250	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
sec-Butylbenzene	ND	280	"	"	"	"	"	"	
p-Isopropyltoluene	ND	280	"	"	"	"	"	"	
n-Butylbenzene	ND	280	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG5-35, P5806cc (E304065-08) Vapor	**Sampled: 16-Apr-13**	**Received: 16-Apr-13**							
Naphthalene	ND	270	ug/m3	10	ED31601	16-Apr-13	16-Apr-13	TO-15	
1,2,4-Trichlorobenzene	ND	380	"	"	"	"	"	"	
Surrogate: Toluene-d8		*93.1 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.5 %*		*56-127*	"	"	"	"	
SG11-5, P4330cc (E304065-09) Vapor	**Sampled: 16-Apr-13**	**Received: 16-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31601	16-Apr-13	16-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**200**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**170**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG11-5, P4330cc (E304065-09) Vapor Sampled: 16-Apr-13 Received: 16-Apr-13									
1,3,5-Trimethylbenzene	ND	25	ug/m3	1	ED31601	16-Apr-13	16-Apr-13	TO-15	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*90.3 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*63.2 %*		*56-127*	"	"	"	"	
SG11-15, P4814cc (E304065-10) Vapor Sampled: 16-Apr-13 Received: 16-Apr-13									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31601	16-Apr-13	16-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**74**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**21**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**53**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG11-15, P4814cc (E304065-10) Vapor	**Sampled: 16-Apr-13**	**Received: 16-Apr-13**							
1,1,1,2-Tetrachloroethane	ND	35	ug/m3	1	ED31601	16-Apr-13	16-Apr-13	TO-15	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*98.8 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*79.7 %*		*56-127*	"	"	"	"	
SG11-25, P5298cc (E304065-11) Vapor	**Sampled: 16-Apr-13**	**Received: 16-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31601	16-Apr-13	16-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**21**	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**590**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG11-25, P5298cc (E304065-11) Vapor	**Sampled: 16-Apr-13**	**Received: 16-Apr-13**							
Carbon tetrachloride	ND	13	ug/m3	1	ED31601	16-Apr-13	16-Apr-13	TO-15	
Trichloroethene	**830**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**26**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**130**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**43**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	**70**	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*104 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*61.1 %*		*56-127*	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG11-35, P5806cc (E304065-12) Vapor	**Sampled: 16-Apr-13**	**Received: 16-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31601	16-Apr-13	16-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG11-35, P5806cc (E304065-12) Vapor Sampled: 16-Apr-13 Received: 16-Apr-13									
Naphthalene	ND	27	ug/m3	1	ED31601	16-Apr-13	16-Apr-13	TO-15	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*79.8 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*77.1 %*		*56-127*	"	"	"	"	
SG18-5, P4330cc (E304065-13) Vapor Sampled: 16-Apr-13 Received: 16-Apr-13									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31601	16-Apr-13	16-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**65**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG18-5, P4330cc (E304065-13) Vapor Sampled: 16-Apr-13 Received: 16-Apr-13									
1,3,5-Trimethylbenzene	ND	25	ug/m3	1	ED31601	16-Apr-13	16-Apr-13	TO-15	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*87.1 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*79.1 %*		*56-127*	"	"	"	"	
SG18-15, P4814cc (E304065-14) Vapor Sampled: 16-Apr-13 Received: 16-Apr-13									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31601	16-Apr-13	16-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**82**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**200**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG18-15, P4814cc (E304065-14) Vapor	**Sampled: 16-Apr-13**	**Received: 16-Apr-13**							
1,1,1,2-Tetrachloroethane	ND	35	ug/m3	1	ED31601	16-Apr-13	16-Apr-13	TO-15	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*91.9 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*72.8 %*		*56-127*	"	"	"	"	
SG18-25, P5298cc (E304065-15) Vapor	**Sampled: 16-Apr-13**	**Received: 16-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31601	16-Apr-13	16-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG18-25, P5298cc (E304065-15) Vapor	**Sampled: 16-Apr-13**	**Received: 16-Apr-13**							
Carbon tetrachloride	ND	13	ug/m3	1	ED31601	16-Apr-13	16-Apr-13	TO-15	
Trichloroethene	**280**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*94.4 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*76.1 %*		*56-127*	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG18-35, P5806cc (E304070-01) Vapor	**Sampled: 17-Apr-13**	**Received: 17-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31703	17-Apr-13	17-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**25**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG18-35, P5806cc (E304070-01) Vapor Sampled: 17-Apr-13 Received: 17-Apr-13									
Naphthalene	ND	27	ug/m3	1	ED31703	17-Apr-13	17-Apr-13	TO-15	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*97.4 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.2 %*	*56-127*		"	"	"	"	
JW-SB6-5, P4330cc (E304070-02) Vapor Sampled: 17-Apr-13 Received: 17-Apr-13									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31703	17-Apr-13	17-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
JW-SB6-5, P4330cc (E304070-02) Vapor	**Sampled: 17-Apr-13**	**Received: 17-Apr-13**							
1,3,5-Trimethylbenzene	ND	25	ug/m3	1	ED31703	17-Apr-13	17-Apr-13	TO-15	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*89.6 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*77.0 %*		*56-127*	"	"	"	"	
JW-SB6-15, P4814cc (E304070-03) Vapor	**Sampled: 17-Apr-13**	**Received: 17-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31703	17-Apr-13	17-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**31**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**170**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**65**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
JW-SB6-15, P4814cc (E304070-03) Vapor	**Sampled: 17-Apr-13**	**Received: 17-Apr-13**							
1,1,1,2-Tetrachloroethane	ND	35	ug/m3	1	ED31703	17-Apr-13	17-Apr-13	TO-15	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	**65**	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**56**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	**37**	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*82.3 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.5 %*		*56-127*	"	"	"	"	
JW-SB6-25, P5298cc (E304070-04) Vapor	**Sampled: 17-Apr-13**	**Received: 17-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31703	17-Apr-13	17-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**690**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**250**	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**970**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**79**	16	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
JW-SB6-25, P5298cc (E304070-04) Vapor	**Sampled: 17-Apr-13**	**Received: 17-Apr-13**							
Carbon tetrachloride	ND	13	ug/m3	1	ED31703	17-Apr-13	17-Apr-13	TO-15	
Trichloroethene	**18000**	140	"	5	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**26**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**190**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*94.3 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.9 %*		*56-127*	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
JW-SB6-35, P5806cc (E304070-05) Vapor	**Sampled: 17-Apr-13**	**Received: 17-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31703	17-Apr-13	17-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**730**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**34**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**2000**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**29**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**1100**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**55**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
JW-SB6-35, P5806cc (E304070-05) Vapor Sampled: 17-Apr-13 Received: 17-Apr-13									
Naphthalene	ND	27	ug/m3	1	ED31703	17-Apr-13	17-Apr-13	TO-15	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*92.2 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.1 %*		*56-127*	"	"	"	"	
JW-SB6-35 Rep, P5906cc (E304070-06) Vapor Sampled: 17-Apr-13 Received: 17-Apr-13									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31703	17-Apr-13	17-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**550**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**21**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**1800**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**23**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**1000**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
JW-SB6-35 Rep, P5906cc (E304070-06) Vapor	**Sampled: 17-Apr-13**	**Received: 17-Apr-13**							
1,3,5-Trimethylbenzene	ND	25	ug/m3	1	ED31703	17-Apr-13	17-Apr-13	TO-15	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**43**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*90.9 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.0 %*		*56-127*	"	"	"	"	
JW-SB5-5, P4330cc (E304070-07) Vapor	**Sampled: 17-Apr-13**	**Received: 17-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31703	17-Apr-13	17-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**250**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**1800**	34	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
JW-SB5-5, P4330cc (E304070-07) Vapor	**Sampled: 17-Apr-13**	**Received: 17-Apr-13**							
1,1,1,2-Tetrachloroethane	ND	35	ug/m3	1	ED31703	17-Apr-13	17-Apr-13	TO-15	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*82.4 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*72.5 %*		*56-127*	"	"	"	"	
JW-SB5-25, P5298cc (E304070-08) Vapor	**Sampled: 17-Apr-13**	**Received: 17-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31703	17-Apr-13	17-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**77**	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**1500**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**94**	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**230**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**100**	16	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
JW-SB5-25, P5298cc (E304070-08) Vapor	**Sampled: 17-Apr-13**	**Received: 17-Apr-13**							
Carbon tetrachloride	ND	13	ug/m3	1	ED31703	17-Apr-13	17-Apr-13	TO-15	
Trichloroethene	**44000**	270	"	10	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**1200**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*82.8 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.6 %*		*56-127*	"	"	"	"	

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Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
JW-SB5-35, P5806cc (E304070-09) Vapor	**Sampled: 17-Apr-13**	**Received: 17-Apr-13**							
1,1-Difluoroethane (LCC)	ND	270	ug/m3	10	ED31703	17-Apr-13	17-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	250	"	"	"	"	"	"	
Chloromethane	ND	210	"	"	"	"	"	"	
Vinyl chloride	ND	130	"	"	"	"	"	"	
Bromomethane	ND	390	"	"	"	"	"	"	
Chloroethane	ND	270	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	280	"	"	"	"	"	"	
1,1-Dichloroethene	**280**	200	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	390	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	180	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**530**	400	"	"	"	"	"	"	
1,1-Dichloroethane	ND	410	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**5700**	400	"	"	"	"	"	"	
Chloroform	ND	250	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	280	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	210	"	"	"	"	"	"	
Benzene	ND	160	"	"	"	"	"	"	
Carbon tetrachloride	ND	130	"	"	"	"	"	"	
Trichloroethene	**30000**	270	"	"	"	"	"	"	
1,4-Dioxane	ND	360	"	"	"	"	"	"	
Bromodichloromethane	ND	340	"	"	"	"	"	"	
Toluene	ND	190	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	280	"	"	"	"	"	"	
Tetrachloroethene	**6500**	340	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	350	"	"	"	"	"	"	
Ethylbenzene	ND	220	"	"	"	"	"	"	
m,p-Xylene	ND	440	"	"	"	"	"	"	
o-Xylene	ND	220	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	350	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	250	"	"	"	"	"	"	
n-Propylbenzene	ND	250	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	250	"	"	"	"	"	"	
tert-Butylbenzene	ND	280	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	250	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
sec-Butylbenzene	ND	280	"	"	"	"	"	"	
p-Isopropyltoluene	ND	280	"	"	"	"	"	"	
n-Butylbenzene	ND	280	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
JW-SB5-35, P5806cc (E304070-09) Vapor Sampled: 17-Apr-13 Received: 17-Apr-13									
Naphthalene	ND	270	ug/m3	10	ED31703	17-Apr-13	17-Apr-13	TO-15	
1,2,4-Trichlorobenzene	ND	380	"	"	"	"	"	"	
Surrogate: Toluene-d8		*85.8 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*77.3 %*	*56-127*		"	"	"	"	
JW-SB4-5, P4330cc (E304070-10) Vapor Sampled: 17-Apr-13 Received: 17-Apr-13									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31703	17-Apr-13	17-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	**180**	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**570**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**2900**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	

H&P Mobile
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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
JW-SB4-5, P4330cc (E304070-10) Vapor	**Sampled: 17-Apr-13**	**Received: 17-Apr-13**							
1,3,5-Trimethylbenzene	ND	25	ug/m3	1	ED31703	17-Apr-13	17-Apr-13	TO-15	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*82.2 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.7 %*		*56-127*	"	"	"	"	
JW-SB4-15, P4814cc (E304070-11) Vapor	**Sampled: 17-Apr-13**	**Received: 17-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31703	17-Apr-13	17-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**180**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**490**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**33**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**76**	34	"	"	"	"	"	"	

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Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
JW-SB4-15, P4814cc (E304070-11) Vapor	**Sampled: 17-Apr-13**	**Received: 17-Apr-13**							
1,1,1,2-Tetrachloroethane	ND	35	ug/m3	1	ED31703	17-Apr-13	17-Apr-13	TO-15	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*87.1 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.4 %*		*56-127*	"	"	"	"	
JW-SB4-35, P5806cc (E304070-12) Vapor	**Sampled: 17-Apr-13**	**Received: 17-Apr-13**							
1,1-Difluoroethane (LCC)	ND	270	ug/m3	10	ED31703	17-Apr-13	17-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	250	"	"	"	"	"	"	
Chloromethane	ND	210	"	"	"	"	"	"	
Vinyl chloride	ND	130	"	"	"	"	"	"	
Bromomethane	ND	390	"	"	"	"	"	"	
Chloroethane	ND	270	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	280	"	"	"	"	"	"	
1,1-Dichloroethene	**290**	200	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	390	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	180	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**680**	400	"	"	"	"	"	"	
1,1-Dichloroethane	ND	410	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**11000**	400	"	"	"	"	"	"	
Chloroform	ND	250	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	280	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	210	"	"	"	"	"	"	
Benzene	ND	160	"	"	"	"	"	"	

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Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
JW-SB4-35, P5806cc (E304070-12) Vapor	**Sampled: 17-Apr-13**	**Received: 17-Apr-13**							
Carbon tetrachloride	ND	130	ug/m3	10	ED31703	17-Apr-13	17-Apr-13	TO-15	
Trichloroethene	**43000**	270	"	"	"	"	"	"	
1,4-Dioxane	ND	360	"	"	"	"	"	"	
Bromodichloromethane	ND	340	"	"	"	"	"	"	
Toluene	ND	190	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	280	"	"	"	"	"	"	
Tetrachloroethene	**4900**	340	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	350	"	"	"	"	"	"	
Ethylbenzene	ND	220	"	"	"	"	"	"	
m,p-Xylene	ND	440	"	"	"	"	"	"	
o-Xylene	ND	220	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	350	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	250	"	"	"	"	"	"	
n-Propylbenzene	ND	250	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	250	"	"	"	"	"	"	
tert-Butylbenzene	ND	280	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	250	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
sec-Butylbenzene	ND	280	"	"	"	"	"	"	
p-Isopropyltoluene	ND	280	"	"	"	"	"	"	
n-Butylbenzene	ND	280	"	"	"	"	"	"	
Naphthalene	ND	270	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	380	"	"	"	"	"	"	
Surrogate: Toluene-d8		*81.5 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.7 %*		*56-127*	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
JW-SB3-5, P4330cc (E304085-01) Vapor	**Sampled: 18-Apr-13**	**Received: 18-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31801	18-Apr-13	18-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	**230**	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**190**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**37**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**4500**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
JW-SB3-5, P4330cc (E304085-01) Vapor Sampled: 18-Apr-13 Received: 18-Apr-13									
Naphthalene	ND	27	ug/m3	1	ED31801	18-Apr-13	18-Apr-13	TO-15	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*90.9 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.2 %*		*56-127*	"	"	"	"	
JW-SB3-5 Rep, P4380cc (E304085-02) Vapor Sampled: 18-Apr-13 Received: 18-Apr-13									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31801	18-Apr-13	18-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	**320**	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**230**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**6900**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
JW-SB3-5 Rep, P4380cc (E304085-02) Vapor	**Sampled: 18-Apr-13**	**Received: 18-Apr-13**							
1,3,5-Trimethylbenzene	ND	25	ug/m3	1	ED31801	18-Apr-13	18-Apr-13	TO-15	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*94.7 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.1 %*		*56-127*	"	"	"	"	
JW-SB3-35, P5806cc (E304085-03) Vapor	**Sampled: 18-Apr-13**	**Received: 18-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31801	18-Apr-13	18-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**31**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**35**	34	"	"	"	"	"	"	

H&P Mobile
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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
JW-SB3-35, P5806cc (E304085-03) Vapor Sampled: 18-Apr-13 Received: 18-Apr-13									
1,1,1,2-Tetrachloroethane	ND	35	ug/m3	1	ED31801	18-Apr-13	18-Apr-13	TO-15	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*88.0 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.2 %*		*56-127*	"	"	"	"	
JW-SB1-5, P4330cc (E304085-04) Vapor Sampled: 18-Apr-13 Received: 18-Apr-13									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31801	18-Apr-13	18-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	**210**	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
JW-SB1-5, P4330cc (E304085-04) Vapor	**Sampled: 18-Apr-13**	**Received: 18-Apr-13**							
Carbon tetrachloride	ND	13	ug/m3	1	ED31801	18-Apr-13	18-Apr-13	TO-15	
Trichloroethene	**5100**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**2600**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*91.3 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.4 %*		*56-127*	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
JW-SB1-15, P4814cc (E304085-05) Vapor	**Sampled: 18-Apr-13**	**Received: 18-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31801	18-Apr-13	18-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	**78**	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**28**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**2600**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**760**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
JW-SB1-15, P4814cc (E304085-05) Vapor	**Sampled: 18-Apr-13**	**Received: 18-Apr-13**							
Naphthalene	ND	27	ug/m3	1	ED31801	18-Apr-13	18-Apr-13	TO-15	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*88.2 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.9 %*	*56-127*		"	"	"	"	
JW-SB1-25, P5298cc (E304085-06) Vapor	**Sampled: 18-Apr-13**	**Received: 18-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31801	18-Apr-13	18-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**1600**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**86**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
JW-SB1-25, P5298cc (E304085-06) Vapor	**Sampled: 18-Apr-13**	**Received: 18-Apr-13**							
1,3,5-Trimethylbenzene	ND	25	ug/m3	1	ED31801	18-Apr-13	18-Apr-13	TO-15	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*85.0 %*	*75-125*		*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*80.7 %*	*56-127*		*"*	*"*	*"*	*"*	
JW-SB1-35, P5806cc (E304085-07) Vapor	**Sampled: 18-Apr-13**	**Received: 18-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31801	18-Apr-13	18-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**300**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**2100**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
JW-SB1-35, P5806cc (E304085-07) Vapor Sampled: 18-Apr-13 Received: 18-Apr-13									
1,1,1,2-Tetrachloroethane	ND	35	ug/m3	1	ED31801	18-Apr-13	18-Apr-13	TO-15	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*90.5 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.3 %*		*56-127*	"	"	"	"	
JW-SB2-5, P4330cc (E304085-08) Vapor Sampled: 18-Apr-13 Received: 18-Apr-13									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31801	18-Apr-13	18-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	**450**	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
JW-SB2-5, P4330cc (E304085-08) Vapor	**Sampled: 18-Apr-13**	**Received: 18-Apr-13**							
Carbon tetrachloride	ND	13	ug/m3	1	ED31801	18-Apr-13	18-Apr-13	TO-15	
Trichloroethene	**10000**	140	"	5	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**5400**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*90.4 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*77.1 %*		*56-127*	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
JW-SB2-25, P5298cc (E304085-09) Vapor	**Sampled: 18-Apr-13**	**Received: 18-Apr-13**							
1,1-Difluoroethane (LCC)	ND	270	ug/m3	10	ED31801	18-Apr-13	18-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	250	"	"	"	"	"	"	
Chloromethane	ND	210	"	"	"	"	"	"	
Vinyl chloride	ND	130	"	"	"	"	"	"	
Bromomethane	ND	390	"	"	"	"	"	"	
Chloroethane	ND	270	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	280	"	"	"	"	"	"	
1,1-Dichloroethene	**860**	200	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	390	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	180	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**1700**	400	"	"	"	"	"	"	
1,1-Dichloroethane	ND	410	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**30000**	400	"	"	"	"	"	"	
Chloroform	ND	250	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	280	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	210	"	"	"	"	"	"	
Benzene	ND	160	"	"	"	"	"	"	
Carbon tetrachloride	ND	130	"	"	"	"	"	"	
Trichloroethene	**150000**	680	"	25	"	"	"	"	
1,4-Dioxane	ND	360	"	10	"	"	"	"	
Bromodichloromethane	ND	340	"	"	"	"	"	"	
Toluene	ND	190	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	280	"	"	"	"	"	"	
Tetrachloroethene	**3500**	340	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	350	"	"	"	"	"	"	
Ethylbenzene	ND	220	"	"	"	"	"	"	
m,p-Xylene	ND	440	"	"	"	"	"	"	
o-Xylene	ND	220	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	350	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	250	"	"	"	"	"	"	
n-Propylbenzene	ND	250	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	250	"	"	"	"	"	"	
tert-Butylbenzene	ND	280	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	250	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
sec-Butylbenzene	ND	280	"	"	"	"	"	"	
p-Isopropyltoluene	ND	280	"	"	"	"	"	"	
n-Butylbenzene	ND	280	"	"	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
JW-SB2-25, P5298cc (E304085-09) Vapor	**Sampled: 18-Apr-13**	**Received: 18-Apr-13**							
Naphthalene	ND	270	ug/m3	10	ED31801	18-Apr-13	18-Apr-13	TO-15	
1,2,4-Trichlorobenzene	ND	380	"	"	"	"	"	"	
Surrogate: Toluene-d8		*90.3 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.6 %*	*56-127*		"	"	"	"	
JW-SB2-15, P4814cc (E304085-10) Vapor	**Sampled: 18-Apr-13**	**Received: 18-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31801	18-Apr-13	18-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**130**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**700**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**52**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
JW-SB2-15, P4814cc (E304085-10) Vapor	**Sampled: 18-Apr-13**	**Received: 18-Apr-13**							
1,3,5-Trimethylbenzene	ND	25	ug/m3	1	ED31801	18-Apr-13	18-Apr-13	TO-15	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*93.0 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.8 %*		*56-127*	"	"	"	"	
JW-SB2-35, P5806cc (E304085-11) Vapor	**Sampled: 18-Apr-13**	**Received: 18-Apr-13**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED31801	18-Apr-13	18-Apr-13	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**42**	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**510**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**1000**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**140**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**13000**	1000	"	25	"	"	"	"	
Chloroform	ND	25	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**31**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**73000**	680	"	25	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**2500**	34	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
JW-SB2-35, P5806cc (E304085-11) Vapor	**Sampled: 18-Apr-13**	**Received: 18-Apr-13**							
1,1,1,2-Tetrachloroethane	ND	35	ug/m3	1	ED31801	18-Apr-13	18-Apr-13	TO-15	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: Toluene-d8		*95.5 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.0 %*		*56-127*	"	"	"	"	

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED30905 - TO-15										
Blank (ED30905-BLK1)				Prepared & Analyzed: 09-Apr-13						
1,1-Difluoroethane (LCC)	ND	27	ug/m3							
Dichlorodifluoromethane (F12)	ND	25	"							
Chloromethane	ND	21	"							
Vinyl chloride	ND	13	"							
Bromomethane	ND	39	"							
Chloroethane	ND	27	"							
Trichlorofluoromethane (F11)	ND	28	"							
1,1-Dichloroethene	ND	20	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"							
Methylene chloride (Dichloromethane)	ND	18	"							
trans-1,2-Dichloroethene	ND	40	"							
1,1-Dichloroethane	ND	41	"							
cis-1,2-Dichloroethene	ND	40	"							
Chloroform	ND	25	"							
1,1,1-Trichloroethane	ND	28	"							
1,2-Dichloroethane (EDC)	ND	21	"							
Benzene	ND	16	"							
Carbon tetrachloride	ND	13	"							
Trichloroethene	ND	27	"							
1,4-Dioxane	ND	36	"							
Bromodichloromethane	ND	34	"							
Toluene	ND	19	"							
1,1,2-Trichloroethane	ND	28	"							
Tetrachloroethene	ND	34	"							
1,1,1,2-Tetrachloroethane	ND	35	"							
Ethylbenzene	ND	22	"							
m,p-Xylene	ND	44	"							
o-Xylene	ND	22	"							
1,1,2,2-Tetrachloroethane	ND	35	"							
Isopropylbenzene (Cumene)	ND	25	"							
n-Propylbenzene	ND	25	"							
1,3,5-Trimethylbenzene	ND	25	"							
tert-Butylbenzene	ND	28	"							
1,2,4-Trimethylbenzene	ND	25	"							

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Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED30905 - TO-15										
Blank (ED30905-BLK1)				Prepared & Analyzed: 09-Apr-13						
1,4-Dichlorobenzene	ND	30	ug/m3							
sec-Butylbenzene	ND	28	"							
p-Isopropyltoluene	ND	28	"							
n-Butylbenzene	ND	28	"							
Naphthalene	ND	27	"							
1,2,4-Trichlorobenzene	ND	38	"							
Surrogate: Toluene-d8	*327*		*"*	*345*		*94.7*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*546*		*"*	*610*		*89.4*	*56-127*			
LCS (ED30905-BS1)				Prepared & Analyzed: 09-Apr-13						
Dichlorodifluoromethane (F12)	310	25	ug/m3	250		123	65-135			
Vinyl chloride	120	13	"	130		88.8	65-135			
Chloroethane	130	27	"	134		95.2	65-135			
Trichlorofluoromethane (F11)	330	28	"	283		116	65-135			
1,1-Dichloroethene	230	20	"	202		113	65-135			
1,1,2-Trichlorotrifluoroethane (F113)	380	39	"	387		99.2	65-135			
Methylene chloride (Dichloromethane)	160	18	"	177		90.9	65-135			
trans-1,2-Dichloroethene	170	40	"	202		85.1	65-135			
1,1-Dichloroethane	220	41	"	206		105	65-135			
cis-1,2-Dichloroethene	210	40	"	202		103	65-135			
Chloroform	260	25	"	247		107	65-135			
1,1,1-Trichloroethane	270	28	"	276		96.6	65-135			
1,2-Dichloroethane (EDC)	250	21	"	206		119	65-135			
Benzene	120	16	"	162		73.9	65-135			
Carbon tetrachloride	340	13	"	320		108	65-135			
Trichloroethene	290	27	"	272		105	65-135			
Toluene	140	19	"	191		74.4	65-135			
1,1,2-Trichloroethane	250	28	"	276		91.8	65-135			
Tetrachloroethene	360	34	"	345		104	65-135			
1,1,1,2-Tetrachloroethane	350	35	"	349		98.9	65-135			
Ethylbenzene	190	22	"	220		87.1	65-135			
m,p-Xylene	410	44	"	440		94.0	65-135			
o-Xylene	220	22	"	220		98.6	65-135			

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Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED30905 - TO-15										
LCS (ED30905-BS1)				Prepared & Analyzed: 09-Apr-13						
1,1,2,2-Tetrachloroethane	320	35	ug/m3	349		92.0	65-135			
Surrogate: Toluene-d8	*326*		*"*	*345*		*94.4*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*576*		*"*	*610*		*94.4*	*56-127*			
Batch ED31002 - TO-15										
Blank (ED31002-BLK1)				Prepared & Analyzed: 10-Apr-13						
1,1-Difluoroethane (LCC)	ND	27	ug/m3							
Dichlorodifluoromethane (F12)	ND	25	"							
Chloromethane	ND	21	"							
Vinyl chloride	ND	13	"							
Bromomethane	ND	39	"							
Chloroethane	ND	27	"							
Trichlorofluoromethane (F11)	ND	28	"							
1,1-Dichloroethene	ND	20	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"							
Methylene chloride (Dichloromethane)	ND	18	"							
trans-1,2-Dichloroethene	ND	40	"							
1,1-Dichloroethane	ND	41	"							
cis-1,2-Dichloroethene	ND	40	"							
Chloroform	ND	25	"							
1,1,1-Trichloroethane	ND	28	"							
1,2-Dichloroethane (EDC)	ND	21	"							
Benzene	ND	16	"							
Carbon tetrachloride	ND	13	"							
Trichloroethene	ND	27	"							
1,4-Dioxane	ND	36	"							
Bromodichloromethane	ND	34	"							
Toluene	ND	19	"							
1,1,2-Trichloroethane	ND	28	"							
Tetrachloroethene	ND	34	"							
1,1,1,2-Tetrachloroethane	ND	35	"							
Ethylbenzene	ND	22	"							

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Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED31002 - TO-15										
Blank (ED31002-BLK1)				Prepared & Analyzed: 10-Apr-13						
m,p-Xylene	ND	44	ug/m3							
o-Xylene	ND	22	"							
1,1,2,2-Tetrachloroethane	ND	35	"							
Isopropylbenzene (Cumene)	ND	25	"							
n-Propylbenzene	ND	25	"							
1,3,5-Trimethylbenzene	ND	25	"							
tert-Butylbenzene	ND	28	"							
1,2,4-Trimethylbenzene	ND	25	"							
1,4-Dichlorobenzene	ND	30	"							
sec-Butylbenzene	ND	28	"							
p-Isopropyltoluene	ND	28	"							
n-Butylbenzene	ND	28	"							
Naphthalene	ND	27	"							
1,2,4-Trichlorobenzene	ND	38	"							
Surrogate: Toluene-d8	*319*		*"*	*345*		*92.4*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*605*		*"*	*610*		*99.1*	*56-127*			
LCS (ED31002-BS1)				Prepared & Analyzed: 10-Apr-13						
Dichlorodifluoromethane (F12)	270	25	ug/m3	250		107	65-135			
Vinyl chloride	120	13	"	130		93.8	65-135			
Chloroethane	120	27	"	134		90.6	65-135			
Trichlorofluoromethane (F11)	300	28	"	283		107	65-135			
1,1-Dichloroethene	210	20	"	202		106	65-135			
1,1,2-Trichlorotrifluoroethane (F113)	430	39	"	387		111	65-135			
Methylene chloride (Dichloromethane)	150	18	"	177		83.1	65-135			
trans-1,2-Dichloroethene	180	40	"	202		90.2	65-135			
1,1-Dichloroethane	220	41	"	206		104	65-135			
cis-1,2-Dichloroethene	210	40	"	202		103	65-135			
Chloroform	280	25	"	247		114	65-135			
1,1,1-Trichloroethane	330	28	"	276		119	65-135			
1,2-Dichloroethane (EDC)	250	21	"	206		120	65-135			
Benzene	150	16	"	162		93.8	65-135			
Carbon tetrachloride	370	13	"	320		117	65-135			

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED31002 - TO-15										
LCS (ED31002-BS1)				Prepared & Analyzed: 10-Apr-13						
Trichloroethene	260	27	ug/m3	272		93.6	65-135			
Toluene	180	19	"	191		93.7	65-135			
1,1,2-Trichloroethane	260	28	"	276		94.6	65-135			
Tetrachloroethene	430	34	"	345		124	65-135			
1,1,1,2-Tetrachloroethane	440	35	"	349		127	65-135			
Ethylbenzene	200	22	"	220		91.5	65-135			
m,p-Xylene	380	44	"	440		86.7	65-135			
o-Xylene	210	22	"	220		93.2	65-135			
1,1,2,2-Tetrachloroethane	260	35	"	349		75.7	65-135			
Surrogate: Toluene-d8	*323*		*"*	*345*		*93.5*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*571*		*"*	*610*		*93.5*	*56-127*			
Batch ED31101 - TO-15										
Blank (ED31101-BLK1)				Prepared & Analyzed: 11-Apr-13						
1,1-Difluoroethane (LCC)	ND	27	ug/m3							
Dichlorodifluoromethane (F12)	ND	25	"							
Chloromethane	ND	21	"							
Vinyl chloride	ND	13	"							
Bromomethane	ND	39	"							
Chloroethane	ND	27	"							
Trichlorofluoromethane (F11)	ND	28	"							
1,1-Dichloroethene	ND	20	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"							
Methylene chloride (Dichloromethane)	ND	18	"							
trans-1,2-Dichloroethene	ND	40	"							
1,1-Dichloroethane	ND	41	"							
cis-1,2-Dichloroethene	ND	40	"							
Chloroform	ND	25	"							
1,1,1-Trichloroethane	ND	28	"							
1,2-Dichloroethane (EDC)	ND	21	"							
Benzene	ND	16	"							
Carbon tetrachloride	ND	13	"							

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED31101 - TO-15										
Blank (ED31101-BLK1)				Prepared & Analyzed: 11-Apr-13						
Trichloroethene	ND	27	ug/m3							
1,4-Dioxane	ND	36	"							
Bromodichloromethane	ND	34	"							
Toluene	ND	19	"							
1,1,2-Trichloroethane	ND	28	"							
Tetrachloroethene	ND	34	"							
1,1,1,2-Tetrachloroethane	ND	35	"							
Ethylbenzene	ND	22	"							
m,p-Xylene	ND	44	"							
o-Xylene	ND	22	"							
1,1,2,2-Tetrachloroethane	ND	35	"							
Isopropylbenzene (Cumene)	ND	25	"							
n-Propylbenzene	ND	25	"							
1,3,5-Trimethylbenzene	ND	25	"							
tert-Butylbenzene	ND	28	"							
1,2,4-Trimethylbenzene	ND	25	"							
1,4-Dichlorobenzene	ND	30	"							
sec-Butylbenzene	ND	28	"							
p-Isopropyltoluene	ND	28	"							
n-Butylbenzene	ND	28	"							
Naphthalene	ND	27	"							
1,2,4-Trichlorobenzene	ND	38	"							
Surrogate: Toluene-d8	*306*		*"*	*345*		*88.6*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*637*		*"*	*610*		*104*	*56-127*			
LCS (ED31101-BS1)				Prepared & Analyzed: 11-Apr-13						
Dichlorodifluoromethane (F12)	280	25	ug/m3	250		111	65-135			
Vinyl chloride	110	13	"	130		83.8	65-135			
Chloroethane	120	27	"	134		88.7	65-135			
Trichlorofluoromethane (F11)	320	28	"	283		112	65-135			
1,1-Dichloroethene	180	20	"	202		90.9	65-135			
1,1,2-Trichlorotrifluoroethane (F113)	340	39	"	387		89.2	65-135			
Methylene chloride (Dichloromethane)	150	18	"	177		86.8	65-135			

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED31101 - TO-15										
LCS (ED31101-BS1)				Prepared & Analyzed: 11-Apr-13						
trans-1,2-Dichloroethene	180	40	ug/m3	202		88.6	65-135			
1,1-Dichloroethane	190	41	"	206		93.6	65-135			
cis-1,2-Dichloroethene	170	40	"	202		85.3	65-135			
Chloroform	240	25	"	247		99.0	65-135			
1,1,1-Trichloroethane	310	28	"	276		112	65-135			
1,2-Dichloroethane (EDC)	240	21	"	206		116	65-135			
Benzene	140	16	"	162		84.5	65-135			
Carbon tetrachloride	350	13	"	320		108	65-135			
Trichloroethene	310	27	"	272		114	65-135			
Toluene	170	19	"	191		87.7	65-135			
1,1,2-Trichloroethane	230	28	"	276		81.6	65-135			
Tetrachloroethene	320	34	"	345		91.4	65-135			
1,1,1,2-Tetrachloroethane	430	35	"	349		123	65-135			
Ethylbenzene	190	22	"	220		85.6	65-135			
m,p-Xylene	360	44	"	440		82.2	65-135			
o-Xylene	180	22	"	220		83.1	65-135			
1,1,2,2-Tetrachloroethane	250	35	"	349		71.3	65-135			
Surrogate: Toluene-d8	*317*		*"*	*345*		*91.8*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*613*		*"*	*610*		*100*	*56-127*			
Batch ED31201 - TO-15										
Blank (ED31201-BLK1)				Prepared & Analyzed: 12-Apr-13						
1,1-Difluoroethane (LCC)	ND	27	ug/m3							
Dichlorodifluoromethane (F12)	ND	25	"							
Chloromethane	ND	21	"							
Vinyl chloride	ND	13	"							
Bromomethane	ND	39	"							
Chloroethane	ND	27	"							
Trichlorofluoromethane (F11)	ND	28	"							
1,1-Dichloroethene	ND	20	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"							
Methylene chloride (Dichloromethane)	ND	18	"							

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED31201 - TO-15										
Blank (ED31201-BLK1)				Prepared & Analyzed: 12-Apr-13						
trans-1,2-Dichloroethene	ND	40	ug/m3							
1,1-Dichloroethane	ND	41	"							
cis-1,2-Dichloroethene	ND	40	"							
Chloroform	ND	25	"							
1,1,1-Trichloroethane	ND	28	"							
1,2-Dichloroethane (EDC)	ND	21	"							
Benzene	ND	16	"							
Carbon tetrachloride	ND	13	"							
Trichloroethene	ND	27	"							
1,4-Dioxane	ND	36	"							
Bromodichloromethane	ND	34	"							
Toluene	ND	19	"							
1,1,2-Trichloroethane	ND	28	"							
Tetrachloroethene	ND	34	"							
1,1,1,2-Tetrachloroethane	ND	35	"							
Ethylbenzene	ND	22	"							
m,p-Xylene	ND	44	"							
o-Xylene	ND	22	"							
1,1,2,2-Tetrachloroethane	ND	35	"							
Isopropylbenzene (Cumene)	ND	25	"							
n-Propylbenzene	ND	25	"							
1,3,5-Trimethylbenzene	ND	25	"							
tert-Butylbenzene	ND	28	"							
1,2,4-Trimethylbenzene	ND	25	"							
1,4-Dichlorobenzene	ND	30	"							
sec-Butylbenzene	ND	28	"							
p-Isopropyltoluene	ND	28	"							
n-Butylbenzene	ND	28	"							
Naphthalene	ND	27	"							
1,2,4-Trichlorobenzene	ND	38	"							
Surrogate: Toluene-d8	*304*		*"*	*345*		*88.1*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*507*		*"*	*610*		*83.1*	*56-127*			

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Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED31201 - TO-15										
LCS (ED31201-BS1)				Prepared & Analyzed: 12-Apr-13						
Dichlorodifluoromethane (F12)	290	25	ug/m3	250		117	65-135			
Vinyl chloride	140	13	"	130		108	65-135			
Chloroethane	120	27	"	134		90.4	65-135			
Trichlorofluoromethane (F11)	360	28	"	283		126	65-135			
1,1-Dichloroethene	230	20	"	202		112	65-135			
1,1,2-Trichlorotrifluoroethane (F113)	420	39	"	387		108	65-135			
Methylene chloride (Dichloromethane)	220	18	"	177		125	65-135			
trans-1,2-Dichloroethene	210	40	"	202		106	65-135			
1,1-Dichloroethane	250	41	"	206		124	65-135			
cis-1,2-Dichloroethene	250	40	"	202		122	65-135			
Chloroform	320	25	"	247		129	65-135			
1,1,1-Trichloroethane	370	28	"	276		134	65-135			
1,2-Dichloroethane (EDC)	260	21	"	206		128	65-135			
Benzene	130	16	"	162		79.8	65-135			
Carbon tetrachloride	400	13	"	320		126	65-135			
Trichloroethene	260	27	"	272		93.9	65-135			
Toluene	190	19	"	191		99.2	65-135			
1,1,2-Trichloroethane	280	28	"	276		102	65-135			
Tetrachloroethene	410	34	"	345		119	65-135			
1,1,1,2-Tetrachloroethane	460	35	"	349		132	65-135			
Ethylbenzene	180	22	"	220		81.6	65-135			
m,p-Xylene	350	44	"	440		78.7	65-135			
o-Xylene	190	22	"	220		88.2	65-135			
1,1,2,2-Tetrachloroethane	260	35	"	349		74.2	65-135			
Surrogate: Toluene-d8	*322*		*"*	*345*		*93.3*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*452*		*"*	*610*		*74.1*	*56-127*			

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED31503 - TO-15										
Blank (ED31503-BLK1)				Prepared & Analyzed: 15-Apr-13						
1,1-Difluoroethane (LCC)	ND	27	ug/m3							
Dichlorodifluoromethane (F12)	ND	25	"							
Chloromethane	ND	21	"							
Vinyl chloride	ND	13	"							
Bromomethane	ND	39	"							
Chloroethane	ND	27	"							
Trichlorofluoromethane (F11)	ND	28	"							
1,1-Dichloroethene	ND	20	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"							
Methylene chloride (Dichloromethane)	ND	18	"							
trans-1,2-Dichloroethene	ND	40	"							
1,1-Dichloroethane	ND	41	"							
cis-1,2-Dichloroethene	ND	40	"							
Chloroform	ND	25	"							
1,1,1-Trichloroethane	ND	28	"							
1,2-Dichloroethane (EDC)	ND	21	"							
Benzene	ND	16	"							
Carbon tetrachloride	ND	13	"							
Trichloroethene	ND	27	"							
1,4-Dioxane	ND	36	"							
Bromodichloromethane	ND	34	"							
Toluene	ND	19	"							
1,1,2-Trichloroethane	ND	28	"							
Tetrachloroethene	ND	34	"							
1,1,1,2-Tetrachloroethane	ND	35	"							
Ethylbenzene	ND	22	"							
m,p-Xylene	ND	44	"							
o-Xylene	ND	22	"							
1,1,2,2-Tetrachloroethane	ND	35	"							
Isopropylbenzene (Cumene)	ND	25	"							
n-Propylbenzene	ND	25	"							
1,3,5-Trimethylbenzene	ND	25	"							
tert-Butylbenzene	ND	28	"							
1,2,4-Trimethylbenzene	ND	25	"							

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Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED31503 - TO-15										
Blank (ED31503-BLK1)				Prepared & Analyzed: 15-Apr-13						
1,4-Dichlorobenzene	ND	30	ug/m3							
sec-Butylbenzene	ND	28	"							
p-Isopropyltoluene	ND	28	"							
n-Butylbenzene	ND	28	"							
Naphthalene	ND	27	"							
1,2,4-Trichlorobenzene	ND	38	"							
Surrogate: Toluene-d8	*312*		*"*	*345*		*90.4*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*690*		*"*	*610*		*113*	*56-127*			
LCS (ED31503-BS1)				Prepared & Analyzed: 15-Apr-13						
Dichlorodifluoromethane (F12)	290	25	ug/m3	250		114	65-135			
Vinyl chloride	110	13	"	130		85.0	65-135			
Chloroethane	110	27	"	134		81.5	65-135			
Trichlorofluoromethane (F11)	320	28	"	283		115	65-135			
1,1-Dichloroethene	190	20	"	202		93.7	65-135			
1,1,2-Trichlorotrifluoroethane (F113)	400	39	"	387		104	65-135			
Methylene chloride (Dichloromethane)	160	18	"	177		88.3	65-135			
trans-1,2-Dichloroethene	190	40	"	202		96.3	65-135			
1,1-Dichloroethane	200	41	"	206		97.4	65-135			
cis-1,2-Dichloroethene	220	40	"	202		107	65-135			
Chloroform	240	25	"	247		95.1	65-135			
1,1,1-Trichloroethane	320	28	"	276		114	65-135			
1,2-Dichloroethane (EDC)	250	21	"	206		123	65-135			
Benzene	150	16	"	162		91.1	65-135			
Carbon tetrachloride	360	13	"	320		114	65-135			
Trichloroethene	250	27	"	272		93.2	65-135			
Toluene	160	19	"	191		83.1	65-135			
1,1,2-Trichloroethane	240	28	"	276		87.5	65-135			
Tetrachloroethene	340	34	"	345		97.2	65-135			
1,1,1,2-Tetrachloroethane	370	35	"	349		107	65-135			
Ethylbenzene	160	22	"	220		72.9	65-135			
m,p-Xylene	340	44	"	440		78.2	65-135			
o-Xylene	170	22	"	220		77.0	65-135			

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Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED31503 - TO-15										
LCS (ED31503-BS1)				Prepared & Analyzed: 15-Apr-13						
1,1,2,2-Tetrachloroethane	270	35	ug/m3	349		77.3	65-135			
Surrogate: Toluene-d8	*323*		*"*	*345*		*93.5*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*692*		*"*	*610*		*113*	*56-127*			
Batch ED31601 - TO-15										
Blank (ED31601-BLK1)				Prepared & Analyzed: 16-Apr-13						
1,1-Difluoroethane (LCC)	ND	27	ug/m3							
Dichlorodifluoromethane (F12)	ND	25	"							
Chloromethane	ND	21	"							
Vinyl chloride	ND	13	"							
Bromomethane	ND	39	"							
Chloroethane	ND	27	"							
Trichlorofluoromethane (F11)	ND	28	"							
1,1-Dichloroethene	ND	20	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"							
Methylene chloride (Dichloromethane)	ND	18	"							
trans-1,2-Dichloroethene	ND	40	"							
1,1-Dichloroethane	ND	41	"							
cis-1,2-Dichloroethene	ND	40	"							
Chloroform	ND	25	"							
1,1,1-Trichloroethane	ND	28	"							
1,2-Dichloroethane (EDC)	ND	21	"							
Benzene	ND	16	"							
Carbon tetrachloride	ND	13	"							
Trichloroethene	ND	27	"							
1,4-Dioxane	ND	36	"							
Bromodichloromethane	ND	34	"							
Toluene	ND	19	"							
1,1,2-Trichloroethane	ND	28	"							
Tetrachloroethene	ND	34	"							
1,1,1,2-Tetrachloroethane	ND	35	"							
Ethylbenzene	ND	22	"							

H&P Mobile
Geochemistry Inc.

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760-804-9159 Fax

ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED31601 - TO-15										
Blank (ED31601-BLK1)				Prepared & Analyzed: 16-Apr-13						
m,p-Xylene	ND	44	ug/m3							
o-Xylene	ND	22	"							
1,1,2,2-Tetrachloroethane	ND	35	"							
Isopropylbenzene (Cumene)	ND	25	"							
n-Propylbenzene	ND	25	"							
1,3,5-Trimethylbenzene	ND	25	"							
tert-Butylbenzene	ND	28	"							
1,2,4-Trimethylbenzene	ND	25	"							
1,4-Dichlorobenzene	ND	30	"							
sec-Butylbenzene	ND	28	"							
p-Isopropyltoluene	ND	28	"							
n-Butylbenzene	ND	28	"							
Naphthalene	ND	27	"							
1,2,4-Trichlorobenzene	ND	38	"							
Surrogate: Toluene-d8	*343*		*"*	*345*		*99.5*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*609*		*"*	*610*		*99.8*	*56-127*			
LCS (ED31601-BS1)				Prepared & Analyzed: 16-Apr-13						
Dichlorodifluoromethane (F12)	280	25	ug/m3	250		113	65-135			
Vinyl chloride	110	13	"	130		88.3	65-135			
Chloroethane	100	27	"	134		75.9	65-135			
Trichlorofluoromethane (F11)	350	28	"	283		122	65-135			
1,1-Dichloroethene	190	20	"	202		93.5	65-135			
1,1,2-Trichlorotrifluoroethane (F113)	370	39	"	387		96.4	65-135			
Methylene chloride (Dichloromethane)	160	18	"	177		90.0	65-135			
trans-1,2-Dichloroethene	180	40	"	202		88.8	65-135			
1,1-Dichloroethane	200	41	"	206		94.8	65-135			
cis-1,2-Dichloroethene	190	40	"	202		93.6	65-135			
Chloroform	230	25	"	247		93.6	65-135			
1,1,1-Trichloroethane	310	28	"	276		114	65-135			
1,2-Dichloroethane (EDC)	220	21	"	206		107	65-135			
Benzene	160	16	"	162		98.3	65-135			
Carbon tetrachloride	390	13	"	320		121	65-135			

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED31601 - TO-15										
LCS (ED31601-BS1)				Prepared & Analyzed: 16-Apr-13						
Trichloroethene	240	27	ug/m3	272		87.2	65-135			
Toluene	160	19	"	191		84.0	65-135			
1,1,2-Trichloroethane	270	28	"	276		96.6	65-135			
Tetrachloroethene	330	34	"	345		95.5	65-135			
1,1,1,2-Tetrachloroethane	390	35	"	349		113	65-135			
Ethylbenzene	170	22	"	220		76.7	65-135			
m,p-Xylene	300	44	"	440		69.3	65-135			
o-Xylene	180	22	"	220		79.6	65-135			
1,1,2,2-Tetrachloroethane	240	35	"	349		67.4	65-135			
Surrogate: Toluene-d8	*335*		*"*	*345*		*97.2*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*555*		*"*	*610*		*90.9*	*56-127*			
Batch ED31703 - TO-15										
Blank (ED31703-BLK1)				Prepared & Analyzed: 17-Apr-13						
1,1-Difluoroethane (LCC)	ND	27	ug/m3							
Dichlorodifluoromethane (F12)	ND	25	"							
Chloromethane	ND	21	"							
Vinyl chloride	ND	13	"							
Bromomethane	ND	39	"							
Chloroethane	ND	27	"							
Trichlorofluoromethane (F11)	ND	28	"							
1,1-Dichloroethene	ND	20	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"							
Methylene chloride (Dichloromethane)	ND	18	"							
trans-1,2-Dichloroethene	ND	40	"							
1,1-Dichloroethane	ND	41	"							
cis-1,2-Dichloroethene	ND	40	"							
Chloroform	ND	25	"							
1,1,1-Trichloroethane	ND	28	"							
1,2-Dichloroethane (EDC)	ND	21	"							
Benzene	ND	16	"							
Carbon tetrachloride	ND	13	"							

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED31703 - TO-15										
Blank (ED31703-BLK1)				Prepared & Analyzed: 17-Apr-13						
Trichloroethene	ND	27	ug/m3							
1,4-Dioxane	ND	36	"							
Bromodichloromethane	ND	34	"							
Toluene	ND	19	"							
1,1,2-Trichloroethane	ND	28	"							
Tetrachloroethene	ND	34	"							
1,1,1,2-Tetrachloroethane	ND	35	"							
Ethylbenzene	ND	22	"							
m,p-Xylene	ND	44	"							
o-Xylene	ND	22	"							
1,1,2,2-Tetrachloroethane	ND	35	"							
Isopropylbenzene (Cumene)	ND	25	"							
n-Propylbenzene	ND	25	"							
1,3,5-Trimethylbenzene	ND	25	"							
tert-Butylbenzene	ND	28	"							
1,2,4-Trimethylbenzene	ND	25	"							
1,4-Dichlorobenzene	ND	30	"							
sec-Butylbenzene	ND	28	"							
p-Isopropyltoluene	ND	28	"							
n-Butylbenzene	ND	28	"							
Naphthalene	ND	27	"							
1,2,4-Trichlorobenzene	ND	38	"							
Surrogate: Toluene-d8	*328*		*"*	*345*		*95.1*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*572*		*"*	*610*		*93.8*	*56-127*			
LCS (ED31703-BS1)				Prepared & Analyzed: 17-Apr-13						
Dichlorodifluoromethane (F12)	280	25	ug/m3	250		112	65-135			
Vinyl chloride	130	13	"	130		97.3	65-135			
Chloroethane	110	27	"	134		81.7	65-135			
Trichlorofluoromethane (F11)	320	28	"	283		112	65-135			
1,1-Dichloroethene	190	20	"	202		92.6	65-135			
1,1,2-Trichlorotrifluoroethane (F113)	300	39	"	387		77.9	65-135			
Methylene chloride (Dichloromethane)	160	18	"	177		89.5	65-135			

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED31703 - TO-15										
LCS (ED31703-BS1)				Prepared & Analyzed: 17-Apr-13						
trans-1,2-Dichloroethene	150	40	ug/m3	202		74.1	65-135			
1,1-Dichloroethane	190	41	"	206		89.8	65-135			
cis-1,2-Dichloroethene	180	40	"	202		87.6	65-135			
Chloroform	250	25	"	247		99.8	65-135			
1,1,1-Trichloroethane	270	28	"	276		96.9	65-135			
1,2-Dichloroethane (EDC)	220	21	"	206		107	65-135			
Benzene	130	16	"	162		82.6	65-135			
Carbon tetrachloride	330	13	"	320		103	65-135			
Trichloroethene	260	27	"	272		96.1	65-135			
Toluene	170	19	"	191		90.8	65-135			
1,1,2-Trichloroethane	240	28	"	276		87.2	65-135			
Tetrachloroethene	360	34	"	345		106	65-135			
1,1,1,2-Tetrachloroethane	360	35	"	349		102	65-135			
Ethylbenzene	150	22	"	220		69.5	65-135			
m,p-Xylene	350	44	"	440		79.8	65-135			
o-Xylene	190	22	"	220		85.3	65-135			
1,1,2,2-Tetrachloroethane	300	35	"	349		85.3	65-135			
Surrogate: Toluene-d8	*329*		*"*	*345*		*95.3*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*608*		*"*	*610*		*99.7*	*56-127*			
Batch ED31801 - TO-15										
Blank (ED31801-BLK1)				Prepared & Analyzed: 18-Apr-13						
1,1-Difluoroethane (LCC)	ND	27	ug/m3							
Dichlorodifluoromethane (F12)	ND	25	"							
Chloromethane	ND	21	"							
Vinyl chloride	ND	13	"							
Bromomethane	ND	39	"							
Chloroethane	ND	27	"							
Trichlorofluoromethane (F11)	ND	28	"							
1,1-Dichloroethene	ND	20	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"							
Methylene chloride (Dichloromethane)	ND	18	"							

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED31801 - TO-15										
Blank (ED31801-BLK1)				Prepared & Analyzed: 18-Apr-13						
trans-1,2-Dichloroethene	ND	40	ug/m3							
1,1-Dichloroethane	ND	41	"							
cis-1,2-Dichloroethene	ND	40	"							
Chloroform	ND	25	"							
1,1,1-Trichloroethane	ND	28	"							
1,2-Dichloroethane (EDC)	ND	21	"							
Benzene	ND	16	"							
Carbon tetrachloride	ND	13	"							
Trichloroethene	ND	27	"							
1,4-Dioxane	ND	36	"							
Bromodichloromethane	ND	34	"							
Toluene	ND	19	"							
1,1,2-Trichloroethane	ND	28	"							
Tetrachloroethene	ND	34	"							
1,1,1,2-Tetrachloroethane	ND	35	"							
Ethylbenzene	ND	22	"							
m,p-Xylene	ND	44	"							
o-Xylene	ND	22	"							
1,1,2,2-Tetrachloroethane	ND	35	"							
Isopropylbenzene (Cumene)	ND	25	"							
n-Propylbenzene	ND	25	"							
1,3,5-Trimethylbenzene	ND	25	"							
tert-Butylbenzene	ND	28	"							
1,2,4-Trimethylbenzene	ND	25	"							
1,4-Dichlorobenzene	ND	30	"							
sec-Butylbenzene	ND	28	"							
p-Isopropyltoluene	ND	28	"							
n-Butylbenzene	ND	28	"							
Naphthalene	ND	27	"							
1,2,4-Trichlorobenzene	ND	38	"							
Surrogate: Toluene-d8	*283*		*"*	*345*		*82.0*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*604*		*"*	*610*		*99.0*	*56-127*			

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2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED31801 - TO-15										
LCS (ED31801-BS1)				Prepared & Analyzed: 18-Apr-13						
Dichlorodifluoromethane (F12)	270	25	ug/m3	250		109	65-135			
Vinyl chloride	120	13	"	130		89.2	65-135			
Chloroethane	100	27	"	134		75.5	65-135			
Trichlorofluoromethane (F11)	350	28	"	283		123	65-135			
1,1-Dichloroethene	200	20	"	202		101	65-135			
1,1,2-Trichlorotrifluoroethane (F113)	370	39	"	387		95.1	65-135			
Methylene chloride (Dichloromethane)	130	18	"	177		71.9	65-135			
trans-1,2-Dichloroethene	160	40	"	202		78.0	65-135			
1,1-Dichloroethane	180	41	"	206		87.2	65-135			
cis-1,2-Dichloroethene	200	40	"	202		100	65-135			
Chloroform	230	25	"	247		92.7	65-135			
1,1,1-Trichloroethane	310	28	"	276		111	65-135			
1,2-Dichloroethane (EDC)	220	21	"	206		105	65-135			
Benzene	130	16	"	162		83.2	65-135			
Carbon tetrachloride	370	13	"	320		116	65-135			
Trichloroethene	280	27	"	272		101	65-135			
Toluene	150	19	"	191		79.6	65-135			
1,1,2-Trichloroethane	250	28	"	276		88.8	65-135			
Tetrachloroethene	340	34	"	345		97.5	65-135			
1,1,1,2-Tetrachloroethane	390	35	"	349		112	65-135			
Ethylbenzene	180	22	"	220		82.8	65-135			
m,p-Xylene	380	44	"	440		86.0	65-135			
o-Xylene	200	22	"	220		90.9	65-135			
1,1,2,2-Tetrachloroethane	280	35	"	349		81.6	65-135			
Surrogate: Toluene-d8	*326*		*"*	*345*		*94.5*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*616*		*"*	*610*		*101*	*56-127*			

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ITSI Gilbane Company	Project: ITSI040813-A2 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 07163.0064.FI0301 / 5211 Southern Ave	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	09-Oct-13 09:22

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory (Certification # L11-175) in accordance with the DoD-ELAP program. H&P is approved by the State of Arizona under Certification Numbers AZM758 and AZ0779. H&P is approved as an Environmental Laboratory in conformance with the Environmental Laboratory Accreditation Program (CA) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste for the following methods:

Certificate# 2741, 2743, 2579, 2754 & 2740 approved for EPA 8260 and LUFT GC/MS
Certificate# 2742, 2745, & 2741 approved for LUFT
Certificate# 2745 & 2742 approved for EPA 418.1

H&P Mobile Geochemistry, Inc. is approved as an Environmental Laboratory in conformance with the National Environmental Accreditation Conference Standards for the category Environmental Analysis Air and Emissions for the following analytes and methods:

Hexachlorobutadiene by EPA TO-15 & TO-14A
1,2,4-Trichlorobenzene by EPA TO-15 & TO-14A
1,2-Dichlorobenzene by EPA TO-15 & TO-14A
Dichlorotetrafluoroethane by EPA TO-14A
1,4-Dichlorobenzene by EPA TO-15 & TO-14A
Benzene by EPA TO-15 & TO-14A
Chlorobenzene by EPA TO-15 & TO-14A
Ethyl benzene by EPA TO-15 & TO-14A
Styrene by EPA TO-15 & TO-14A
Toluene by EPA TO-15 & TO-14A
Total Xylenes by EPA TO-15
1,1,1-Trichloroethane by EPA TO-15 & TO-14A
1,1,2,2-Tetrachloroethane by EPA TO-15 & TO-14A
1,1,2-Trichloroethane by EPA TO-15 & TO-14A
1,1-Dichloroethane by EPA TO-15 & TO-14A
1,1-Dichloroethene by EPA TO-15 & TO-14A
1,2-Dichloroethane by EPA TO-15 & TO-14A
1,2-Dichloropropane by EPA TO-15 & TO-14A
Benzyl Chloride by EPA TO-15 & TO-14A
Bromoform by EPA TO-15
Bromomethane by EPA TO-15 & TO-14A
Carbon tetrachloride by EPA TO-15 & TO-14A
Chloroethane by EPA TO-15 & TO-14A
Chloroform by EPA TO-15 & TO-14A
Chloromethane by EPA TO-15 & TO-14A
cis-1,2-Dichloroethene by EPA TO-15 & TO-14A
cis-1,3-Dichloropropene by EPA TO-15 & TO-14A
Methylene chloride by EPA TO -15 & TO-14A
Tetrachloroethane by EPA TO-15 & TO-14A
trans-1,2-Dichloroethene by EPA TO-15
trans-1,3-Dichloropropene by EPA TO-15 & TO-14A
Trichloroethene by EPA TO-15 & TO-14A
Vinyl chloride by EPA TO -15
2-Butanone by EPA TO-15
4-Methyl-2-Pentanone by EPA TO-15
Hexane by EPA TO-15
Methyl tert-butyl ether by EPA TO-15
Vinyl acetate by EPA TO-15

1,3-Dichlorobenzene by EPA TO-15 & TO-14A
Trichlorofluoromethane by EPA TO-14A
Naphthalene by H&P SOP TO-15/GC-MS
1,2-Dibromoethane (EDB) by EPA TO-15 & TO-14A
1,2-Dibromo-3-chloropropane by EPA TO-15
1,3-Butadiene by EPA TO-15
1,1,2-Trichlorotrifluoroethane by EPA TO-14A
Carbon disulfide by EPA TO-15
1,4-Dioxane by EPA TO-15

This certification applies to samples analyzed in summa canisters.

Chain of Custody Record

H&P Mobile Geochemistry Inc.
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☐ 1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date: 4-9-2013
H&P Project # ITSI040813-AZ
Outside Lab:

Client: ITSI Gilbane Company
Address: 2934 Gold Pan Ct. ste 12, Rancho Cordova, CA. 95670
Email: dgruber@itsi.com
Collector: M. Montemayor, T. Taylor
Client Project # 07163.0064.F10301
Location: 5711 Southern Ave. Southgate, CA
Phone: 916-853-1839
Fax:
Page: 1 of 2
Project Contact: Ed Gillera
Turn around time:

Geotracker EDF: Yes ☐ No ☐
Global ID:
Excel EDD: Yes ☒ No ☐

Sample Receipt
Intact: ☒ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ ~~N/A~~
Cold: ☐ Yes ☐ No ☒ ~~N/A~~
Temperature: 20°C

Special Instructions:

Lab Work Order # E304025 / ED30905

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers	SOIL/GW: 8260B Full List	SOIL/GW: 8260B ☐ BTEX/OXY ☐ TPH gas	SOIL/GW: 8015M TPH ☐ g ☐ d ☐ ext	SOIL/GW: 418.1 TRPH	SOIL VAPOR/AIR ANALYSIS: VOC's: Full List ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: VOC's: Short List/DTSC ☐ 8260B ☒ TO-15	SOIL VAPOR/AIR ANALYSIS: VOC's: SAM, 8260B ☐ SAM A ☐ SAM B	SOIL VAPOR/AIR ANALYSIS: Naphthalene ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: Oxygenates ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: TPHv gas ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: Ketones ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: Other ___ ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: Leak Check Compound ☒ 1,1 DFA ☐ OTHER	SOIL VAPOR/AIR ANALYSIS: Methane	SOIL VAPOR/AIR ANALYSIS: Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2
SG6-35 1PV		581	0706	4/9/13	Vapor	Glass syringe	1						X							X	
SG6-35 3PV		1742	0818				1						X							X	
SG6-35 10PV		5806	0946				1						X							X	
SG13-5		4330	1125				1						X							X	
SG13-15		4814	1157				1						X							X	
SG13-25		5298	1229				1						X							X	
SG13-35		5806	1259				1						X							X	
SG14-5		4330	1326				1						X							X	
SG14-15		4814	1402				1						X							X	
SG14-15 REP		4864	1426										X							X	

Relinquished by: (Signature)	(company) ITSI	Received by: (Signature)	(company) H+P	Date: 4/9/13	Time: 1526
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal ☐ Return to client ☐ Pickup

Chain of Custody Record

Mobile Geochemistry Inc.

☐ 2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
☐ 1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date: 4-9-2013
H&P Project # ITSI040813-A2
Outside Lab:

Client: ITSI Gilbane Company
Address: 2934 Gold Pan Ct. Ste 12, Rancho Cordova, CA. 95670
Email: dgruber@itsi.com

Collector: M. Mantemayor, T. Taylor
Client Project # 07163.0064.FI0301
Location: 5211 Southern Ave, Southgate, CA.
Phone: 916-853-1839
Fax:

Page: 2 of 2
Project Contact: E. Gillera
Turn around time:

Geotracker EDF: Yes ☐ No ☐
Global ID:
Excel EDD: Yes ☒ No ☐

Sample Receipt
Intact: ☑ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☑ N/A
Cold: ☐ Yes ☐ No ☑ N/A
Temperature: 20°C

Special Instructions:

Lab Work Order # E304025 / ED30905

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers	8260B Full List	8260B ☐ BTEX/OXY ☐ TPH gas	8015M TPH ☐ g ☐ d ☐ ext	418.1 TRPH	VOC's: Full List ☐ 8260B ☐ TO-15	VOC's: Short List/DTSC ☐ 8260B ☒ TO-15	VOC's: SAM, 8260B ☐ SAM A ☐ SAM B	Naphthalene ☐ 8260B ☐ TO-15	Oxygenates ☐ 8260B ☐ TO-15	TPHv gas ☐ 8260B ☐ TO-15	Ketones ☐ 8260B ☐ TO-15	Other ____ ☐ 8260B ☐ TO-15	Leak Check Compound ☒ 1,1 DFA ☐ OTHER	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2
								SOIL/GW				SOIL VAPOR/AIR ANALYSIS										
SG14-25		5298	1446	4/9/13	Vapor	Glass Syringe	1						X							X		
SG14-35		5806	1505	↓	↓	↓	1						X							X		

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
	ITSI		H&P	4/9/13	1526
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal ☐ Return to client ☐ Pickup

Chain of Custody Record

H&P Mobile Geochemistry Inc.
☐ 2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
☐ 1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date: 4-10-2013
H&P Project # ITSI040813-AZ
Outside Lab:

Client: ITSI Gilbane Company
Address: 2934 Gold Pan Court Ste 12, Rancho Cordova, CA. 95670
Email: dgruber@itsi.com
Collector: T. Taylor
Client Project # 07163.0064.F10301
Location: 5211 Southern Ave, Southgate, CA
Phone: 9168531839
Fax:
Page: 1 of 2
Project Contact: E. Gillera
Turn around time:

Geotracker EDF: Yes ☐ No ☐
Global ID:
Excel EDD: Yes ☒ No ☐

Sample Receipt
Intact: ☒ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No ☒ N/A
Temperature: 20°C

Special Instructions:

Lab Work Order # E304035/ED31002

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers	8260B Full List	BTEX/OXY ☐ TPH gas	8260B	8015M TPH ☐ g ☐ d ☐ ext	418.1 TRPH	VOCs: Full List ☐ 8260B ☐ TO-15	VOCs: Short List/DTSC ☐ 8260B ☒ TO-15	VOCs: SAM, 8260B ☐ SAM A ☐ SAM B	Naphthalene ☐ 8260B ☐ TO-15	Oxygenates ☐ 8260B ☐ TO-15	TPHv gas ☐ 8260B ☐ TO-15	Ketones ☐ 8260B ☐ TO-15	Other ____ ☐ 8260B ☐ TO-15	Leak Check Compound ☒ 1,1 DFA ☐ OTHER	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2
								SOIL/GW					SOIL VAPOR/AIR ANALYSIS										
SG10-5		4330	0736	4/10/13	Vapor	Glass Syringe	1						X	X							X		
SG10-15		4814	0900				1						X	X							X		
SG10-25		5298	0931				1						X	X							X		
SG10-35		5806	1005				1						X	X							X		
SG9-5		4330	1048				1						X	X							X		
SG9-15		4814	1113				1						X	X							X		
SG9-25		5298	1139				1						X	X							X		
SG9-35		5806	1245				1						X	X							X		
SG3-5		4330	1342				1						X	X							X		
SG3-5 Rep		4380	1422	↓	↓	↓	1						X	X							X		

Relinquished by: (Signature)	(company) ITSI	Received by: (Signature)	(company) H&P
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)

Date: 4/10/13 Time: 1525

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal ☐ Return to client ☐ Pickup

Chain of Custody Record

H&P Mobile Geochemistry Inc.
2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date: 4/10/2013
H&P Project # ITSI040813-AZ
Outside Lab:

Client: ITSI Gilbane company
Address: 2934 Gold Pan court Ste 12, Rancho Cordova, CA. 95670
Email: dgruber@itsi.com
Collector: T. Taylor
Client Project # 07163.0064.F10301
Location: 5211 Southern Ave. Southgate, CA
Phone: 916 853 1839
Fax:
Page: 2 of 2
Project Contact: E. Gillera
Turn around time:

Geotracker EDF: Yes ☐ No ☐
Global ID:
Excel EDD: Yes ☒ No ☐

Sample Receipt
Intact: ~~☐ Yes~~ ☐ No
Seal Intact: ☐ Yes ☐ ~~No~~ ☐ ~~N/A~~
Cold: ☐ Yes ☐ No ☐ ~~N/A~~
Temperature: 20°C

Special Instructions:

Lab Work Order # E304035/ED31002

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers	SOIL/GW: 8260B Full List	SOIL/GW: 8260B ☐ BTEX/OXY ☐ TPH gas	SOIL/GW: 8015M TPH ☐ g ☐ d ☐ ext	SOIL/GW: 418.1 TRPH	SOIL VAPOR/AIR ANALYSIS: VOC's: Full List ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: VOC's: Short List/DTSC ☐ 8260B ☒ TO-15	SOIL VAPOR/AIR ANALYSIS: VOC's: SAM, 8260B ☐ SAM A ☐ SAM B	SOIL VAPOR/AIR ANALYSIS: Naphthalene ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: Oxygenates ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: TPHv gas ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: Ketones ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: Other ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: Leak Check Compound ☒ 1,1 DFA ☐ OTHER	SOIL VAPOR/AIR ANALYSIS: Methane	SOIL VAPOR/AIR ANALYSIS: Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2
SG3-25		5298	1456	4/10/13	Vapor	Glass Syringe	1						X							X		

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
	ITSI		H&P	4/10/13	1525
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal ☐ Return to client ☐ Pickup

Chain of Custody Record

H&P Mobile Geochemistry Inc.
2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date: 4-11-2013
H&P Project # ITSI 040813-A2
Outside Lab:

Client: ITSI Gilbane Company
Address: 2934 Gold Pan Court Ste 12, Rancho Cordova, CA. 95670
Email: dgruber@itsi.com
Collector: T. Taylor
Client Project # 07163.0064.F10301
Location: 5211 Southern Ave. South Gate, CA
Phone: 916 853-1839
Fax:
Page: 1 of 2
Project Contact: Ed Gillera
Turn around time:

Geotracker EDF: Yes ☐ No ☐
Global ID:
Excel EDD: Yes ☒ No ☐

Sample Receipt
Intact: ☑ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☑ N/A
Cold: ☐ Yes ☐ No ☑ N/A
Temperature: 20°c

Special Instructions:

Lab Work Order # E304043/ED31101

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers	SOIL/GW: 8260B Full List	SOIL/GW: 8260B BTEX/OXY ☐ TPH gas	SOIL/GW: 8015M TPH ☐ g ☐ d ☐ ext	SOIL/GW: 418.1 TRPH	SOIL VAPOR/AIR ANALYSIS: VOC's: Full List ☐ 8260B ☐ TO-15	VOC's: Short List/DTSC ☐ 8260B ☒ TO-15	VOC's: SAM, 8260B ☐ SAM A ☐ SAM B	Naphthalene ☐ 8260B ☐ TO-15	Oxygenates ☐ 8260B ☐ TO-15	TPHv gas ☐ 8260B ☐ TO-15	Ketones ☐ 8260B ☐ TO-15	Other ____ ☐ 8260B ☐ TO-15	Leak Check Compound ☒ 1,1 DFA ☐ OTHER	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2
SG3-35		5806	0753	4/11/13	Vapor	Glass Syringe	1						X							X		
SG3-15		4814	0816				1						X							X		
SG4-5		4330	0902				1						X							X		
SG4-15		4814	1004				1						X							X		
SG4-25		5298	1043				1						X							X		
SG4-35		5806	1122				1						X							X		
SG2-5		4330	1201				1						X							X		
SG2-5 Rep		5580	1243				1						X							X		
SG2-15		4814	1304				1						X							X		
SG2-25		5298	1346				1						X							X		

Relinquished by: (Signature)	(company) MSI	Received by: (Signature)	(company) H&P	Date: 4/11/13 Time: 1520
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date: Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date: Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal ☐ Return to client ☐ Pickup

Chain of Custody Record

H&P Mobile Geochemistry Inc.
☐ 2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
☐ 1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date: 4-11-2013
H&P Project # ITSI040813-AZ
Outside Lab:

Client: ITSI Gilbane Company
Address: 2934 Gold Pan Court Ste 12, Rancho Cordova, CA. 95670
Email: dgruber@itsi.com

Collector: T. Taylor
Client Project # 07163.0064.F10301
Location: 5211 Southern Ave, Southgate, CA
Phone: 9168531839
Fax:

Page: 2 of 2
Project Contact: Ed Gillera
Turn around time:

Geotracker EDF: Yes ☐ No ☐
Global ID:
Excel EDD: Yes ☒ No ☐

Sample Receipt
Intact: ☐ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No ☐ N/A
Temperature: 20c

Special Instructions:

Lab Work Order # E304043 / ED31101

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers	8260B Full List	8260B ☐ BTEX/OXY ☐ TPH gas	8015M TPH ☐ g ☐ d ☐ ext	418.1 TRPH	VOC's: Full List ☐ 8260B ☐ TO-15	VOC's: Short List/DTSC ☐ 8260B ☒ TO-15	VOC's: SAM, 8260B ☐ SAM A ☐ SAM B	Naphthalene ☐ 8260B ☐ TO-15	Oxygenates ☐ 8260B ☐ TO-15	TPHv gas ☐ 8260B ☐ TO-15	Ketones ☐ 8260B ☐ TO-15	Other ☐ 8260B ☐ TO-15	Leak Check Compound ☐ 1,1 DFA ☐ OTHER	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2
								SOIL/GW				SOIL VAPOR/AIR ANALYSIS										
SG2-35		5806	1410	4/11/13	Vapor	Glass Syringe	1						X							X		
SG12-5		4330	1513	↓	↓	↓	1						X							X		

Relinquished by: (Signature)	(company) ITSI	Received by: (Signature)	(company) H+P	Date: 4/11/13	Time: 1520
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal ☐ Return to client ☐ Pickup

Chain of Custody Record

Mobile Geochemistry Inc.
☐ 2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
☐ 1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date: 4-12-2013
H&P Project # ITSI040813-A2
Outside Lab:

Client: ITSI Gilbane Company
Address: 2934 Gold Pan Ct. Ste 12, Rancho Cordova, CA, 95670
Email: dgruber@itsi.com
Collector: T. Taylor
Client Project # 07163.0064, ITO301
Location: 5211 Southern Ave, Southgate, CA
Phone: 916853.1839
Page: 1 of 2
Project Contact: Ed. Gillera
Fax:
Turn around time:

Geotracker EDF: Yes ☐ No ☐
Global ID:
Excel EDD: Yes ☒ No ☐

Sample Receipt
Intact: ~~☐ Yes~~ ☐ No
Seal Intact: ☐ Yes ☐ No ~~☐ N/A~~
Cold: ☐ Yes ☐ No ~~☐ N/A~~
Temperature: 20°C

Special Instructions:

Lab Work Order # E304054/ED31201

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers	8260B Full List	8260B ☐ BTEX/OXY ☐ TPH gas	8015M TPH ☐ g ☐ d ☐ ext	418.1 TRPH	VOC's: Full List ☐ 8260B ☐ TO-15	VOC's: Short List/DTSC ☐ 8260B ☒ TO-15	VOC's: SAM, 8260B ☐ SAM A ☐ SAM B	Naphthalene ☐ 8260B ☐ TO-15	Oxygenates ☐ 8260B ☐ TO-15	TPHv gas ☐ 8260B ☐ TO-15	Ketones ☐ 8260B ☐ TO-15	Other ____ ☐ 8260B ☐ TO-15	Leak Check Compound ☒ 1,1 DFA ☐ OTHER	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2
								SOIL/GW				SOIL VAPOR/AIR ANALYSIS										
SG12-15		4814	0738	4/12/13	Vapor	Glass Syringe	1						X							X		
SG12-25		5298	0825				1						X							X		
SG12-35		5806	0906				1						X							X		
SG1-5		4330	0933				1						X							X		
SG1-15		4814	1000				1						X							X		
SG1-25		5298	1108				1						X							X		
SG1-35		5806	1206				1						X							X		
SG17-5		4330	1228				1						X							X		
SG17-15		4814	1300				1						X							X		
SG17-25		5298	1326	↓	↓	↓	1						X							X		

Relinquished by: (Signature)	(company) ITSI	Received by: (Signature)	(company) H+P	Date: 4/12/13 Time: 1533
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date: Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date: Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal ☐ Return to client ☐ Pickup

Chain of Custody Record

Mobile Geochemistry Inc.

2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date: 4-12-2013
H&P Project # ITSI040813-A2
Outside Lab:

Client: ITSI Gilbane Company
Address: 2934 Gold Pan ct. Ste 12
Rancho Cordova, CA. 95670
Email: dgwber@itsi.com

Collector: T. Taylor
Client Project # 07163.0064.FI0301
Location: 5211 Southern Ave, South Gate, CA
Phone: 916-853-1839 Fax:

Page: 2 of 2
Project Contact: E. Gilleva
Turn around time:

Geotracker EDF: Yes ☐ No ☐
Global ID:
Excel EDD: Yes ☒ No ☐

Sample Receipt
Intact: ☑ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No ☐ N/A
Temperature: 20°C

Special Instructions:

Lab Work Order # E304054/ED31201

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers	8260B Full List	8260B ☐ BTEX/OXY ☐ TPH gas	8015M TPH ☐ g ☐ d ☐ ext	418.1 TRPH	VOC's: Full List ☐ 8260B ☐ TO-15	VOC's: Short List/DTSC ☐ 8260B ☒ TO-15	VOC's: SAM, 8260B ☐ SAM A ☐ SAM B	Naphthalene ☐ 8260B ☐ TO-15	Oxygenates ☐ 8260B ☐ TO-15	TPHv gas ☐ 8260B ☐ TO-15	Ketones ☐ 8260B ☐ TO-15	Other ☐ 8260B ☐ TO-15	Leak Check Compound ☒ 1,1 DFA ☐ OTHER	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2
								SOIL/GW				SOIL VAPOR/AIR ANALYSIS										
SG17-35		5806	1355	4/12/13	Vapor	Glass Syringe	1						X							X		
SG16-5		4330	1415	↓	↓	↓	1						X							X		
SG16-5 Rep		4380	1444				1						X							X		
SG16-15		4814	1503				1						X							X		

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
	ITSI		H&P	4/12/13	1522
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal ☐ Return to client ☐ Pickup

Chain of Custody Record

Mobile Geochemistry, Inc.
2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date: 4-15-2013
H&P Project # ITSI040813-AZ
Outside Lab:

Client: ITSI Gilbane Company
Address: 2934 Gold Pan Ct. ste 12, Rancho Cordova, CA 95670
Email: dgruber@itsi.com
Collector: M. Martemayor / T. Taylor
Client Project # 07163.0064.FI0301
Location: 5211 Southern Ave. South Gate, CH
Phone: 916-853-1839
Fax:
Page: 1 of 2
Project Contact: Ed Gillera
Turn around time:

Geotracker EDF: Yes ☐ No ☐
Global ID:
Excel EDD: Yes ☒ No ☐

Sample Receipt
Intact: ☑ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No ☐ N/A
Temperature: 20°C

Special Instructions:

Lab Work Order # E304060 / ED31503

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers	SOIL/GW: 8260B Full List	SOIL/GW: 8260B ☐ BTEX/OXY ☐ TPH gas	SOIL/GW: LUFT/8015M TPH ☐ g ☐ d ☐ ext	SOIL/GW: 418.1 TRPH	SOIL VAPOR/AIR ANALYSIS: VOC's: Full List ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: VOC's: Short List/DTSC ☐ 8260B ☒ TO-15	SOIL VAPOR/AIR ANALYSIS: VOC's: SAM, 8260B ☐ SAM A ☐ SAM B	SOIL VAPOR/AIR ANALYSIS: Naphthalene ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: Oxygenates ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: TPHv gas ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: Ketones ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: Other ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: Leak Check Compound ☒ 8021 DFA ☐ OTHER	SOIL VAPOR/AIR ANALYSIS: Methane	SOIL VAPOR/AIR ANALYSIS: Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2
SG16-25		5298	0820	4/15/13	Vapor	Glass Syringe	1						X							X		
SG16-35		5806	0910				1						X							X		
SG15-5		4330	0950				1						X							X		
SG15-15		4814	1014				1						X							X		
SG15-25		5298	1038				1						X							X		
SG15-35		5806	1104				1						X							X		
SG8-5		4330	1305				1						X							X		
SG8-15		4814	1338				1						X							X		
SG8-25		5298	1408				1						X							X		
SG8-35		5806	1434				1						X							X		

Approved/Relinquished by: (Signature)	(company) ITSI	Received by: (Signature)	(company) H&P
Approved/Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)
Approved/Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)

Date: 4/15/13 Time: 1542

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal ☐ Return to client ☐ Pickup

Chain of Custody Record

Mobile Geochemistry, Inc.
☐ 2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
☐ 1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date: 4-15-2013
H&P Project # ITSI040813-A2
Outside Lab:

Client: ITSI Gilbane Company
Address: 2934 Gold Pan Ct. Ste 12, Rancho Cordova, CA. 95670
Email: dgrubere@itsi.com
Collector: T. Taylor
Client Project # 07163.0064.F10301
Location: 5211 Southern Ave. Southgate, CA
Phone: 916-853-1839 Fax:
Page: 1 of 2
Project Contact: Ed. Gillera
Turn around time:

Geotracker EDF: Yes ☐ No ☐
Global ID:
Excel EDD: Yes ☒ No ☐

Sample Receipt
Intact: ☑ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No ☑ N/A
Temperature: 20°C

Special Instructions:

Lab Work Order # E304060 / ED 31503

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers	8260B Full List	8260B ☐ BTEX/OXY ☐ TPH gas	LUFT/8015M TPH ☐ g ☐ d ☐ ext	418.1 TRPH	VOC's: Full List ☐ 8260B ☐ TO-15	VOC's: Short List/DTSC ☐ 8260B ☒ TO-15	VOC's: SAM, 8260B ☐ SAM A ☐ SAM B	Naphthalene ☐ 8260B ☐ TO-15	Oxygenates ☐ 8260B ☐ TO-15	TPHv gas ☐ 8260B ☐ TO-15	Ketones ☐ 8260B ☐ TO-15	Other ☐ 8260B ☐ TO-15	Leak Check Compound ☒ 1,1 DFA ☐ OTHER	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2
								SOIL/GW				SOIL VAPOR/AIR ANALYSIS										
SG7-5		4330	1457	4/15/13	Vapor	Glass Syringe	1						X							X		
SG7-5 Rep		4380	1534	↓	↓	↓	1						X							X		

Approved/Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
	ITSI		H&P	4/15/13	15:42
Approved/Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Approved/Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal ☐ Return to client ☐ Pickup

Chain of Custody Record

Mobile Geochemistry, Inc.

2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date: 4-16-2013
H&P Project # ITSI040813-A2
Outside Lab:

Client: ITSI Gilbane Company
Address: 2934 ~~Gilbane~~ Gold Pan Ct, Ste 12, Rancho Cordova, CA. 95670
Email: dgruber@itsi.com

Collector: T. Taylor
Client Project # 07163.0064.F10301
Location: 5211 Southern Ave South Gate, CA
Phone: 916-853-1839 Fax:

Page: 1 of 2
Project Contact: E. Gillera
Turn around time:

Geotracker EDF: Yes ☐ No ☐
Global ID:
Excel EDD: Yes ☒ No ☐

Sample Receipt
Intact: ☐ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No ☐ N/A
Temperature: 20°C

Special Instructions:

Lab Work Order # E304065/ED31601

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers	8260B Full List	BTEX/OXY ☐ TPH gas	LUFT/8015M TPH ☐ g ☐ d ☐ ext	418.1 TRPH	VOC's: Full List ☐ 8260B ☐ TO-15	VOC's: Short List/DTSC ☐ 8260B ☐ TO-15	VOC's: SAM, 8260B ☐ SAM A ☐ SAM B	Naphthalene ☐ 8260B ☐ TO-15	Oxygenates ☐ 8260B ☐ TO-15	TPHv gas ☐ 8260B ☐ TO-15	Ketones ☐ 8260B ☐ TO-15	Other ☐ 8260B ☐ TO-15	Leak Check Compound ☐ 1,1 DFA ☐ OTHER	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2
								SOIL/GW				SOIL VAPOR/AIR ANALYSIS										
SG7-15'		4814	0803	4/16/13	Vapor	Glass Syringe	1						X							X		
SG7-25		5298	0850				1						X							X		
SG7-35		5806	0950				1						X							X		
SG5-5		4330	1030				1						X							X		
SG5-5 Rep		4380	1050				1						X							X		
SG5-15		4814	1110				1						X							X		
SG5-25		5298	1154				1						X							X		
SG5-35		5806	1214				1						X							X		
SG11-5		4330	1240				1						X							X		
SG11-15		4814	1308				1						X							X		

Approved/Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
	ITSI		H&P	4/16/13	1524
Approved/Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Approved/Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal ☐ Return to client ☐ Pickup

Chain of Custody Record

Mobile Geochemistry, Inc.
☐ 2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
☐ 1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date: 4-16-2013
H&P Project #: ITSI040813-AZ
Outside Lab:

Client: ITSI Gilbane Company
Address: 2934 Gold Pan Ct. Ste 12, Rancho Cordova, CA. 95670
Email: dgruber@itsi.com

Collector: T. Taylor
Client Project #: 07163.0064.F10301
Location: 5211 Southern Ave Southgate, CA
Phone: 916 853 1839 Fax:

Page: 2 of 2
Project Contact: E. Gillera
Turn around time:

Geotracker EDF: Yes ☐ No ☐
Global ID:
Excel EDD: Yes ☒ No ☐

Sample Receipt
Intact: ☑ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No ☐ N/A
Temperature: 20°C

Special Instructions:

Lab Work Order # E304065/ED31601

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers	8260B Full List	8260B ☐ BTEX/OXY ☐ TPH gas	LUFT/8015M TPH ☐ g ☐ d ☐ ext	418.1 TRPH	VOC's: Full List ☐ 8260B ☐ TO-15	VOC's: Short List/DTSC ☐ 8260B ☒ TO-15	VOC's: SAM, 8260B ☐ SAM A ☐ SAM B	Naphthalene ☐ 8260B ☐ TO-15	Oxygenates ☐ 8260B ☐ TO-15	TPHv gas ☐ 8260B ☐ TO-15	Ketones ☐ 8260B ☐ TO-15	Other ☐ 8260B ☐ TO-15	Leak Check Compound ☒ 1, 1 DFA ☐ OTHER	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2	
								SOIL/GW				SOIL VAPOR/AIR ANALYSIS											
SG11-25		5298	1342	4/16/13	Vapor	6 liter Syringe	1						X							X			
SG11-35		5806	1403				1						X							X			
SG18-5		4330	1433				1						X							X			
SG18-15		4814	1452				1						X							X			
~~SG18-25~~		~~5298~~	1515				1						X							X			VOID
SG18-25		5298	1515				1						X							X			

Approved/Relinquished by: (Signature)	(company) ITSI	Received by: (Signature)	(company) H+P	Date: 4/16/13 Time: 1524
Approved/Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date: Time:
Approved/Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date: Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal ☐ Return to client ☐ Pickup

Chain of Custody Record

Mobile Geochemistry, Inc.
☐ 2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
☐ 1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date: 4-17-2013
H&P Project # ITSI040813-AZ
Outside Lab:

Client: ITSI Gilbane Company
Address: 2934 Gold Pan Ct. Ste 12, Rancho Cordova, CA, 95670
Email: dgruber@itsi.com
Collector: T. Taylor
Client Project # 07163.0064.F10301
Location: 5211 Southern Ave. South Gate, CA
Phone: 916-853-1839 Fax:
Page: 1 of 2
Project Contact: Ed Gillera
Turn around time:

Geotracker EDF: Yes ☐ No ☐
Global ID:
Excel EDD: Yes ☒ No ☐

Sample Receipt
Intact: ☒ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No ☒ N/A
Temperature: 20°C

Special Instructions:

Lab Work Order # E304070/ED31703

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers	SOIL/GW: 8260B Full List	SOIL/GW: 8260B ☐ BTEX/OXY ☐ TPH gas	SOIL/GW: LUFT/8015M TPH ☐ g ☐ d ☐ ext	SOIL/GW: 418.1 TRPH	SOIL VAPOR/AIR ANALYSIS: VOC's: Full List ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: VOC's: Short List/DTSC ☐ 8260B ☒ TO-15	SOIL VAPOR/AIR ANALYSIS: VOC's: SAM, 8260B ☐ SAM A ☐ SAM B	SOIL VAPOR/AIR ANALYSIS: Naphthalene ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: Oxygenates ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: TPHv gas ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: Ketones ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: Other ____ ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: Leak Check Compound ☒ 8021 DFA ☐ OTHER	SOIL VAPOR/AIR ANALYSIS: Methane	SOIL VAPOR/AIR ANALYSIS: Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2
SG18-35		5806	0752	4/11/13	Vapor	Glass Syringe	1						X							X	
JW-SB6-5		4330	0915				1						X							X	
JW-SB6-15		4814	0938				1						X							X	
JW-SB6-25		5298	1020				1						X							X	
JW-SB6-35		5806	1123				1						X							X	
JW-SB6-35 Rep		5906	1203				1						X							X	
JW-SB5-5		4330	1235				1						X							X	
JW-SB5-25		5298	1258				1						X							X	
JW-SB5-35		5806	1348				1						X							X	
JW-SB4-5		4330	1405	↓	↓	↓	1						X							X	

Approved/Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
	ITSI		H&P	4/17/13	1538
Approved/Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Approved/Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal ☐ Return to client ☐ Pickup

Chain of Custody Record

Mobile Geochemistry, Inc.
☐ 2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
☐ 1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date: 4-17-2013
H&P Project # ITSI040813-AZ
Outside Lab:

Client: ITSI Gilbane Company
Address: 2934 Gold Pan Ct Ste 12, Rancho Cordova, CA 95670
Email: dgruber@itsi.com
Collector: T. Taylor
Client Project # 07163.0064.F-10301
Location: 5211 Southern Ave, South Gate, CA
Phone: 916-853-1839 Fax:
Page: 2 of 2
Project Contact: ed Gillera
Turn around time:

Geotracker EDF: Yes ☐ No ☐
Global ID:
Excel EDD: Yes ☒ No ☐

Sample Receipt
Intact: ☑ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No ☑ N/A
Temperature: 20°C

Special Instructions:

Lab Work Order # E304070/ED31703

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers	8260B Full List	8260B ☐ BTEX/OXY ☐ TPH gas	LUFT/8015M TPH ☐ g ☐ d ☐ ext	418.1 TRPH	VOC's: Full List ☐ 8260B ☐ TO-15	VOC's: Short List/DTSC ☐ 8260B ☒ TO-15	VOC's: SAM, 8260B ☐ SAM A ☐ SAM B	Naphthalene ☐ 8260B ☐ TO-15	Oxygenates ☐ 8260B ☐ TO-15	TPHv gas ☐ 8260B ☐ TO-15	Ketones ☐ 8260B ☐ TO-15	Other ____ ☐ 8260B ☐ TO-15	Leak Check Compound ☒ 1,1 DFA ☐ OTHER	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2
								SOIL/GW				SOIL VAPOR/AIR ANALYSIS										
JW-SB4-15		4814	1435	4/17/13	Vapor	Glass syringe	1						X							X		
JW-SB4-35		5806	1517	↓	↓	↓	1						X							X		

Approved/Relinquished by: (Signature)	(company) ITSI	Received by: (Signature)	(company) H&P	Date: 4/17/13	Time: 1538
Approved/Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Approved/Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal ☐ Return to client ☐ Pickup

Chain of Custody Record

Mobile Geochemistry, Inc.

2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date: 4-18-2013
H&P Project # ITSI040813-AZ
Outside Lab:

Client: ITSI Gilbane Company
Address: 2934 Gold Pan Ct Ste 12 Rancho Cordova, CA. 95670
Email: dgruber@itsi.com

Collector: T. Taylor
Client Project # 07163.0064.FI0301
Location: 5211 Southern Ave Southgate, CA
Phone: 9168531839
Fax:

Page: 1 of 2
Project Contact: Ed Gillera
Turn around time:

Geotracker EDF: Yes ☐ No ☐
Global ID:
Excel EDD: Yes ☒ No ☐

Sample Receipt
Intact: ☒ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☒ N/A
Cold: ☐ Yes ☐ No ☒ N/A
Temperature: 20°C

Special Instructions:

Lab Work Order # E304085 / ED31801

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers	8260B Full List	8260B ☐ BTEX/OXY ☐ TPH gas	LUFT/8015M TPH ☐ g ☐ d ☐ ext	418.1 TRPH	VOC's: Full List ☐ 8260B ☐ TO-15	VOC's: Short List/DTSC ☐ 8260B ☒ TO-15	VOC's: SAM, 8260B ☐ SAM A ☐ SAM B	Naphthalene ☐ 8260B ☐ TO-15	Oxygenates ☐ 8260B ☐ TO-15	TPHv gas ☐ 8260B ☐ TO-15	Ketones ☐ 8260B ☐ TO-15	Other ____ ☐ 8260B ☐ TO-15	Leak Check Compound ☒ 1,1 DFA ☐ OTHER	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2
								SOIL/GW				SOIL VAPOR/AIR ANALYSIS										
JW-SB3-5		4330	0745	4/18/13	Vapor	Glass 6 Syringe	1						X							X		
JW-SB3-5 Rep		4380	0810				1						X							X		
JW-SB3-35		5806	0904				1						X							X		
JW-SB1-5		4330	1011				1						X							X		
JW-SB1-15		4814	1032				1						X							X		
JW-SB1-25		5298	1110				1						X							X		
JW-SB1-35		5806	1138				1						X							X		
JW-SB2-5		4330	1159				1						X							X		
JW-SB2-25		5298	1245				1						X							X		
JW-SB2-15		4814	1322				1						X							X		

Approved/Relinquished by: (Signature)	(company) ITSI	Received by: (Signature)	(company) H&P	Date: 4/18/13	Time: 1445
Approved/Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Approved/Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal ☐ Return to client ☐ Pickup

Chain of Custody Record

H&P Mobile Geochemistry, Inc.
☐ 2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
☐ 1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date: 4-18-2013
H&P Project # ITSI040813-AZ
Outside Lab:

Client: ITSI Gilbane Company
Address: 2934 Gold Pan Ct. Ste 12, Rancho Cordova, CA. 95670
Email: dgruber@itsi.com
Collector: T. Taylor
Client Project # 07163.0004.F10301
Location: 5211 Southern Ave, South Gate, CA
Phone: 9168531839
Fax:
Page: 2 of 2
Project Contact: Ed Gillera
Turn around time:

Geotracker EDF: Yes ☐ No ☐
Global ID:
Excel EDD: Yes ☒ No ☐

Sample Receipt
Intact: ☒ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No ☒ N/A
Temperature: 20°C

Special Instructions:

Lab Work Order # E304085/E031801

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers	8260B Full List	8260B ☐ BTEX/OXY ☐ TPH gas	LUFT/8015M TPH ☐ g ☐ d ☐ ext	418.1 TRPH	VOC's: Full List ☐ 8260B ☐ TO-15	VOC's: Short List/DTSC ☐ 8260B ☒ TO-15	VOC's: SAM, 8260B ☐ SAM A ☐ SAM B	Naphthalene ☐ 8260B ☐ TO-15	Oxygenates ☐ 8260B ☐ TO-15	TPHv gas ☐ 8260B ☐ TO-15	Ketones ☐ 8260B ☐ TO-15	Other ____ ☐ 8260B ☐ TO-15	Leak Check Compound ☒ 1,1 DFA ☐ OTHER	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2
								SOIL/GW				SOIL VAPOR/AIR ANALYSIS										
JW-SB2-35		5806	1345	4/18/13	Vapor	6L Tedlar Syringe	1						X							X		

Approved/Relinquished by: (Signature)	(company) ITSI	Received by: (Signature)	(company) H&P	Date: 4/18/13	Time: 1445
Approved/Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Approved/Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal ☐ Return to client ☐ Pickup

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: ITSI040813-A2
Site Address: 5211 Southern Ave. Southgate, CA
Consultant: ITSI Gilbane Company
Field Rep(s): Ed Gillera
H&P Rep(s): M. Montemayor, T. Taylor

Date: 4/9/2013
Arrival Time: 6:30
Departure Time: 15:30
Overtime:
Approved By:

Office Use Only:
Reviewed: DM
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes:
1	SG6-35 1PV	SV0024	04/09/13	0706	35	37	1/4	2	12	2	6	581	✓	<200	0	
2	SG6-35 1PV R	SV0022		0748								631	✓		0	resample
3	SG6-35 3PV	SV0021		0818								1742	✓		0	
4	SG6-35 3PV R	SV0024		0904								2942	✓		0	Tedlar / resample
5	SG6-35 10PV	SV0022		0946								5806	✓		0	
6	SG6-35 10PV R	SV0021		1026	↓	↓						5856	✓		0	resample
7	SG13-5	SV0024		1125	5	6.5						4330	✓		0	
8	SG13-15	SV0022		1157	15	16.5						4814	✓		0	
9	SG13-25	SV0021		1229	25	26.5						5298	✓		0	
10	SG13-35	SV0023		1259	35	37						5806	✓		0	
11	SG14-5	SV0024		1326	5	6.5						4330	✓		0	
12	SG14-15	SV0022	↓	1402	15	16.5	↓	↓	↓	↓	↓	4814	✓	↓	2	

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG6-35					
Tubing:	Length:	37	Diameter	1/4"	1 Volume:	179
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV =	**581**	3PV =	**1742**	10PV =	**5806**
PV Amount Selected:	10 PV		*Selected by:*	Ed Gillera		

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: ITSI040813-A2
Site Address: 5211 Southern Ave. Southgate, CA
Consultant: ITSI Gilbane Company
Field Rep(s): Ed Gillera
H&P Rep(s): M. Montemayor, T. Taylor

Date: 4/9/2013
Arrival Time: 6:30
Departure Time: 15:30
Overtime:
Approved By:

Office Use Only:
Reviewed: MB
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes:
13	SG14-15 REP	SV0023	04/09/13	1426	15	16.5	1/4"	2"	12"	2"	6"	4864	✓	<200	2	
14	SG14-25	SV0021	↓	1446	25	26.5	↓	↓	↓	↓	↓	5298	✓	↓	0	Split in Tedlar
15	SG14-35	SV0022	↓	1505	35	37	↓	↓	↓	↓	↓	5806	✓	↓	<1	
16		SV002														
17		SV002														
18		SV002														
19		SV002														
20		SV002														
21		SV002														
22		SV002														
23		SV002														
24		SV002														

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG6-35					
Tubing:	Length:	37	Diameter	1/4"	1 Volume:	179
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV =	581	3PV =	1742	10PV =	5806
PV Amount Selected:	10PV		*Selected by:*		Ed Gillera	

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: ITSI040813-A2
Site Address: 5211 Southern Ave. Southgate, CA
Consultant: ITSI Gilbane Company
Field Rep(s): Ed Gillera
H&P Rep(s): M. Montemayor, T. Taylor

Date: 4/10/2013
Arrival Time: 6:30
Departure Time: 15:45
Overtime:
Approved By:

Office Use Only:
Reviewed: DS
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes:
1	SG10-5'	SV00023	04/10/13	0736	5	6.5	1/4"	2"	12"	2"	6"	4330	✓	<200	0	
2	SG10-5' R	SV00022		0805	5	6.5						4380	✓	<200	0	resample
3	SG10-15'	SV00024		0900	15	16.5						4814	✓	<200	0	Tedlar
4	SG10-25'	SV00024		0931	25	26.5						5298	✓	<200	0	
5	SG10-35'	SV00021		1005	35	37						5806	✓	<200	0	
6	SG9-5'	SV00023		1048	5	6.5						4330	✓	<200	0	
7	SG9-15'	SV00024		1113	15	16.5						4814	✓	<200	0	
8	SG9-25'	SV00022		1139	25	26.5						5298	✓	<200	0	
9	SG9-35'	SV00021		1245	35	37						5806	✓	<200	0	Tedlar
10	SG3-5	SV00023		1342	5	6.5						4330	✓	<200	0	
11	SG3-5 Rep	SV00024		1422	5	6.5						4380	✓	<200	0	
12	SG3-25'	SV00021	↓	1456	25	26.5	↓	↓	↓	↓	↓	5298	✓	<200	0	

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG6-35 on 4/9/13					
Tubing:	Length:	37	Diameter	1/4"	1 Volume:	179
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV = **581**		3PV = **1742**		10PV = **5806**	
PV Amount Selected:	10PV		*Selected by:*		Ed Gillera	

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: ITSI040813-A2
Site Address: 5211 Southern Ave. Southgate, CA
Consultant: ITSI Gilbane Company
Field Rep(s): Ed Gillera
H&P Rep(s): M. Montemayor, T. Taylor

Date: 4/11/2013
Arrival Time: 6:50
Departure Time: 15:45
Overtime:
Approved By:

Office Use Only:
Reviewed: DB
Scanned:

	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes:
	Sampling Information				**Probe Specs**							**Collection Data**				
1	SG3-35'	SV0022	04/11/13	0753	35	37	1/4"	2"	12"	2"	6"	5806	✓	<200	0	
2	SG3-15'	SV0021		~~0816~~ 0816 (T)	15	16.5						4814	✓	100	3	
3	SG3-15 R	SV0023		0839	15	16.5						4964	✓	100	3	resample
4	SG4-5'	SV0022		0902	5	6.5						4330	✓	<200	0	
5	SG4-5' R	SV0024		0940	5	6.5						4380	✓	<200	0	resample
6	SG4-15'	SV0021		1004	15	16.5						4814	✓	<200	0	
7	SG4-25	SV0023		1043	25	26.5						5218	✓	100	3	
8	SG4-35	SV0022		1122	35	37						5806	✓	<200	0	
9	SG2-5'	SV0024		1201	5	6.5						4330	✓	<200	0	Teller
10	SG2-5 Rep	SV0021		1243	5	6.5						5380	✓	<200	0	Replicant
11	SG2-15'	SV0023		1304	15'	16.5						4814	✓	<200	0	
12	SG2-15R	SV0027		1329	15	16.5						4864	✓	<20	0	Resample

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG6-35 on 4/9/13					
Tubing:	Length:	37	Diameter	1/4"	1 Volume:	179
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV = **581**		3PV = **1742**		10PV = **5806**	
PV Amount Selected:	10PV		*Selected by:*		Ed Gillera	

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: ITSI040813-A2
Site Address: 5211 Southern Ave. Southgate, CA
Consultant: ITSI Gilbane Company
Field Rep(s): Ed Gillera
H&P Rep(s): M. Montemayor, T. Taylor

Date: 4/11/2013
Arrival Time: 6:50
Departure Time: 15:45
Overtime:
Approved By:

Office Use Only:
Reviewed: DB
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes:
13	SG2-25'	SV0021	04/11/13	1346	25	26.5	1/4"	2"	12"	2"	6"	5298	✓	100	2	
14	SG2-35'	SV0024	↓	1410	35	37	↓	↓	↓	↓	↓	5906	✓	<200	0	
15	SG2-35'R	SV0023	↓	1450	35	37	↓	↓	↓	↓	↓	5956	✓	<200	0	replicate
16	SG12-5'	SV0021	↓	1573	5'	6.5	↓	↓	↓	↓	↓	4330	✓	<200	0	
17		SV002														
18		SV002														
19		SV002														
20		SV002														
21		SV002														
22		SV002														
23		SV002														
24		SV002														

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG6-35 on 4/9/13					
Tubing:	Length:	37	Diameter	1/4"	1 Volume:	179
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV =	581	3PV =	1742	10PV =	5806
PV Amount Selected:	10PV		*Selected by:*		Ed Gillera	

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: ITSI040813-A2
Site Address: 5211 Southern Ave. Southgate, CA
Consultant: ITSI Gilbane Company
Field Rep(s): Ed Gillera
H&P Rep(s): M. Montemayor, T. Taylor

Date: 4/12/2013
Arrival Time: 6:50
Departure Time: 15:35
Overtime:
Approved By:

Office Use Only:
Reviewed: DB
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes:
1	SG12-15'	SV0022	04/12/13	0738	15	16.5	1/4"	2"	12"	2"	6"	4814	✓	<200	0	
2	SG12-15'R	SV0021		0803	15	16.5						4864	✓	<200	0	resample
3	SG12-25'	SV0023		0825	25	26.5						5298	✓	<200	1	
4	SG12-25' R	SV0022		0849	25	26.5						5348	✓	<200	1	resample
5	SG12-35'	SV0024		0906	35	37						5806	✓	<200	0	
6	SG1-5	SV0021		0933	5'	6.5						4330	✓	<200	0	
7	SG1-15	SV0023		1000	15'	16.5'						4814	✓	<200	0	
8	SG1-15 Rep *	SV0027		1025	15	16.5						4864	✓	<200	0	Replicant/w// RR
9	SG1-25	SV0024		1108	25	26.5						5298	✓	<200	0	
10	SG1-25R	SV0021		1126	25	26.5						5348	✓	<200	0	Resample
11	SG1-25RR	SV0023		1148	25	26.5						5348	✓	<200	0	Resample
12	SG1-35'	SV0024		1206	35	37						5806	✓	<200	0	

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG6-35 on 4/9/13					
Tubing:	Length: 37	Diameter 1/4"	1 Volume: 179			
Sand Pack (if included in purge volume calculation):	Height: 12"	Diameter 2"	1 Volume: 247			
Dry Bentonite (if included in purge volume calculation):	Height: 6"	Diameter 2"	1 Volume: 154			
PVT Increments:	1PV = **581**	3PV = **1742**	10PV = **5806**			
PV Amount Selected:	10PV	*Selected by:*	Ed Gillera			

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

* Valve slipped of tubing while sampling, Helium air entered tubing. Will choose different location.

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: ITSI040813-A2
Site Address: 5211 Southern Ave. Southgate, CA
Consultant: ITSI Gilbane Company
Field Rep(s): Ed Gillera
H&P Rep(s): M. Montemayor, T. Taylor

Date: 4/12/2013
Arrival Time: 6:50
Departure Time: 15:35
Overtime:
Approved By:

Office Use Only:
Reviewed:
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes:
13	SG17-5'	SV002 2	04/12/13	1238	5	6.5	1/4"	2"	12"	2"	6"	4330	✓	<200	0	
14	SG17-15'	SV002 3		1300	15	16.5						4314	✓	<200	0	
15	SG17-25'	SV002 1		1326	25	26.5						5278	✓	<200	0	
16	SG12-35'	SV002 3		1355	35	37						5306	✓	<200	0	
17	SG16-5'	SV002 2		1415	5	6.5						4336	✓	<200	0	
18	SG16-5'Rep	SV002 4		1444	5	6.5						4380	✓	<200	0	Insufficient return
19	SG16-15'	SV002 1		1503	15	6.5						4814	✓	<200	0	
20		SV002														
21		SV002														
22		SV002														
23		SV002														
24		SV002														

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG6-35 on 4/9/13					
Tubing:	Length:	37	Diameter	1/4"	1 Volume:	179
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV =	581	3PV =	1742	10PV =	5806
PV Amount Selected:	10PV		*Selected by:*		Ed Gillera	

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: ITSI040813-A2
Site Address: 5211 Southern Ave. Southgate, CA
Consultant: ITSI Gilbane Company
Field Rep(s): Ed Gillera
H&P Rep(s): M. Montemayor, T. Taylor

Date: 4/15/2013
Arrival Time: 7:25
Departure Time: 16:00
Overtime:
Approved By:

Office Use Only:
Reviewed: DP
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes:
1	SG16-25	SV00223	04/15/13	0820	25	26.5	1/4"	2"	12"	2"	6"	5298	✓	<200	0	high LCC
2	SG16-25 R	SV00222		0849	25	26.5						5348	✓	<200	0	resample high LCC
3	SG16-35	SV00224		0910	35	37						5806	✓	<200	0	high LCC
4	SG15-5'	SV00221		0950	5	6.5						4330	✓	<200	0	
5	SG15-15'	SV00212		1014	15	16.5						4814	✓	<200	0	
6	SG15-25'	SV00213		1038	25	26.5						5298	✓	<200	0	
7	SG15-35'	SV00211		1104	35	37						5806	✓	<200	0	
8	SG16-25 RR	SV00214		1208	25	26.5						5398	✓	<200	0	resample
9	SG16-35 R	SV00221		1228	35	37						5856	✓	<200	0	resample
10	SG8-5	SV00222		1305	5	6.5						4330	✓	<200	0	Tedlar
11	SG8-15	SV00223		1338	15	16.5						4814	✓	<200	0	
12	SG8-25	SV00201	↓	1408	25	26.5	↓	↓	↓	↓	↓	5298	✓	<200	3	

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG6-35 on 4/9/13					
Tubing:	Length:	37	Diameter	1/4"	1 Volume:	179
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV = **581**		3PV = **1742**		10PV = **5806**	
PV Amount Selected:	10PV		*Selected by:*		Ed Gillera	

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: ITSI040813-A2
Site Address: 5211 Southern Ave. Southgate, CA
Consultant: ITSI Gilbane Company
Field Rep(s): Ed Gillera
H&P Rep(s): M. Montemayor, T. Taylor

Date: 4/15/2013
Arrival Time: 7:25
Departure Time: 16:00
Overtime:
Approved By:

Office Use Only:
Reviewed:
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes:
13	SG8-35	SV0024	04/15/13	1434	35	37	1/4"	2"	12"	2"	6"	5806	✓	<200	0	
14	SG7-5'	SV0022	↓	1457	5	6.5	↓	↓	↓	↓	↓	4330	✓	<200	0	
15	SG7-5' REP	SV0021	↓	1534	5	6.5	↓	↓	↓	↓	↓	4380	✓	<200	0	Replicate
16		SV002														
17		SV002														
18		SV002														
19		SV002														
20		SV002														
21		SV002														
22		SV002														
23		SV002														
24		SV002														

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG6-35 on 4/9/13					
Tubing:	Length:	37	Diameter	1/4"	1 Volume:	179
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV =	581	3PV =	1742	10PV =	5806
PV Amount Selected:	10PV		*Selected by:*		Ed Gillera	

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: ITSI040813-A2
Site Address: 5211 Southern Ave. Southgate, CA
Consultant: ITSI Gilbane Company
Field Rep(s): Ed Gillera
H&P Rep(s): M. Montemayor, T. Taylor

Date: 4/15/2013
Arrival Time: 6:45
Departure Time: 15:45
Overtime:
Approved By:

Office Use Only:
Reviewed: DB
Scanned:

	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes:
	Sampling Information				**Probe Specs**							**Collection Data**				
1	SG7-15'	SV0023	04/15/13	0807	15	16.5	1/4"	2"	12"	2"	6"	4814	✓	<200	4	
2	SG7-15' R	SV0024		0825	15	16.5						4864	✓	<200	4	Resample
3	SG7-25'	SV0021		0850	25	26.5						5298	✓	<200	6	
4	SG7-25' R	SV0023		0925	25	26.5						5348	✓	<200	6	resample
5	SG7-35'	SV0022		0950	35	37						5806	✓	<200	3	
6	SG7-35 R	SV0021		1005	35	37						5856	✓	<200	3	Resample
7	SG5-5	SV0023		1030	5	6.5						4330	✓	<200	0	
8	SG5-5 Rep	SV0022		1050	5	6.5						4380	✓	<200	0	Replicant
9	SG5-15	SV0024		1110	15	16.5						4814	✓	<200	0	
10	SG5-15R	SV0021		1135	15	16.5						4864	✓	<200	0	Resample
11	SG5-25'	SV0027		1154	25	26.5						5298	✓	<200	2	
12	SG5-35'	SV0024		1214	35	37						5806	✓	<200	0	

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG6-35 on 4/9/13					
Tubing:	Length:	37	Diameter	1/4"	1 Volume:	179
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV = **581**		3PV = **1742**		10PV = **5806**	
PV Amount Selected:	10PV		*Selected by:*		Ed Gillera	

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: ITSI040813-A2
Site Address: 5211 Southern Ave. Southgate, CA
Consultant: ITSI Gilbane Company
Field Rep(s): Ed Gillera
H&P Rep(s): M. Montemayor, T. Taylor

Date: 4/15/2013
Arrival Time: 6:45
Departure Time: 15:45
Overtime:
Approved By:

Office Use Only:
Reviewed:
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes:
13	SG11-5'	SV0023	04/15/13	1240	5	6.5	1/4"	2"	12"	2"	6"	4330	✓	<200	0	
14	SG11-15	SV0021		1308	15	16.5						4814	✓	<200	0	
15	SG11-25	SV0022		1342	25	26.5						5298	✓	<200	5	Tedlar
16	SG11-35	SV0024		1403	35	37						5806	✓	<200	0	
17	SG18-5	SV0022		1433	5	6.5						4330	✓	<200	0	
18	SG18-15'	SV0023		1452	15	16.5						4814	✓	<200	0	
19	SG18-25	SV0024		1515	25	26.5						5298	✓	<200	0	
20		SV002														
21		SV002														
22		SV002														
23		SV002														
24		SV002														

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG6-35 on 4/9/13					
Tubing:	Length:	37	Diameter	1/4"	1 Volume:	179
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV =	581	3PV =	1742	10PV =	5806
PV Amount Selected:	10PV		*Selected by:*		Ed Gillera	

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: ITSI040813-A2
Site Address: 5211 Southern Ave. Southgate, CA
Consultant: ITSI Gilbane Company
Field Rep(s): Ed Gillera
H&P Rep(s): M. Montemayor, T. Taylor

Date: 4/17/2013
Arrival Time: 6:45
Departure Time: 15:45
Overtime:
Approved By:

Office Use Only:
Reviewed:
Scanned:

	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes:
	Sampling Information				**Probe Specs**							**Collection Data**				
1	SG18-35'	SV0021	04/17/13	0752	35	37	1/4"	2"	12"	2"	6"	5806	✓	<200	0	
2	SG18-35' R	SV0022		0814	35	37						5856	✓	<200	0	resample
3	JW-SB6-5'	SV0024		0915	5'	6.5						4330	✓	<200	0	
4	JW-SB6-15'	SV0022		0938	15	16.5						4814	✓	<200	0	
5	JW-SB6-15'R	SV0021		0958	15	16.5						4864	✓	<200	0	resample
6	JW-SB6-25	SV0023		1020	25	26.5						5298	✓	<200	0	
7	JW-SB6-25R	SV0021		1059	25	26.5						5348	✓	<200	0	
8	JW-SB6-35'	SV0022		1123	35	37						5806	✓	<200	0	Tedlar
9	JW-SB6-35R	SV0022		1144	35	37						5856	✓	<200	0	resample
10	JW-SB6-35Rep	SV0024		1203	35	37						5406	✓	<200	0	Replicant
11	JW-SB5-5	SV0021		1235	5	6.5						4330	✓	<200	0	
12	JW-SB5-25	SV0023	↓	1258	25	26.5	↓	↓	↓	↓	↓	5298	✓	~~200~~ 50 (T)	5	

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG6-35 on 4/9/13					
Tubing:	Length:	37	Diameter	1/4"	1 Volume:	179
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV =	**581**	3PV =	**1742**	10PV =	**5806**
PV Amount Selected:	10PV		*Selected by:*		Ed Gillera	

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: ITSI040813-A2
Site Address: 5211 Southern Ave. Southgate, CA
Consultant: ITSI Gilbane Company
Field Rep(s): Ed Gillera
H&P Rep(s): M. Montemayor, T. Taylor

Date: 4/17/2013
Arrival Time: 6:45
Departure Time: 15:45
Overtime:
Approved By:

Office Use Only:
Reviewed: MM
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes:
13	JW-SG5-25'R	SV0024	04/17/13	1332	25	26.5	1/4"	2"	12"	2"	6"	5298	✓	50	5	resample
14	JW-SG5-35	SV0023	↓	1348	35	37	↓	↓	↓	↓	↓	5806	✓	50	5	
15	JW-SG4-5'	SV0021		1405	5	6.5						4330	✓	<200	0	
16	JW-SG4-15'	SV0023		1435	15	16.5						4814	✓	50	6	
17	JW-SG4-15'R	SV0024		1455	15	16.5						4864	✓	50	6	resample
18	JW-SG4-35'	SV0022	↓	1517	35	37	↓	↓	↓	↓	↓	5806	✓	<200	0	Tedlar
19		SV002														
20		SV002														
21		SV002														
22		SV002														
23		SV002														
24		SV002														

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG6-35 on 4/9/13					
Tubing:	Length:	37	Diameter	1/4"	1 Volume:	179
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV =	581	3PV =	1742	10PV =	5806
PV Amount Selected:	10PV		*Selected by:*		Ed Gillera	

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: ITSI040813-A2
Site Address: 5211 Southern Ave. Southgate, CA
Consultant: ITSI Gilbane Company
Field Rep(s): Ed Gillera
H&P Rep(s): M. Montemayor, T. Taylor

Date: 4/18/2013
Arrival Time: 6:45
Departure Time: 15:00
Overtime:
Approved By:

Office Use Only:
Reviewed:
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes:
1	JW-SB3-5	SV0022	04/18/13	0745	5	6.5	1/4"	2"	12"	2"	6"	4330	✓	<200	0	
2	JW-SB3-5 REP	SV0021		0810	5	6.5						4380	✓	<200	0	replicant
3	JW-SB3-35'	SV0023		0904	35'	37						5806	✓	<200	0	
4	JW-SB1-5'	SV0021		1011	5	6.5						4330	✓	<200	0	
5	JW-SB1-15'	SV0022		1032	15'	16.5						4814	✓	<200	0	
6	JW-SB1-15' R	SV0022		1052	15	16.5						4864	✓	<200	0	resample
7	JW-SB1-25'	SV0021		1110	25	26.5						5298	✓	<200	0	
8	JW-SB1-35	SV0023		1138	35	37						5806	✓	<200	0	
9	JW-SB2-5'	SV0021		1159	5	6.5						4330	✓	<200	0	
10	JW-SB2-5' R	SV0022		1219	5	6.5						4380	✓	<200	0	resample
11	JW-SB2-25	SV0024		1245	25	26.5						5298	✓	<200	0	Tedlar
12	JW-SB2-25R	SV0024	↓	1300	25	26.5	↓	↓	↓	↓	↓	5298	✓	<200	0	resample from Bag

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG6-35 on 4/9/13					
Tubing:	Length:	37	Diameter	1/4"	1 Volume:	179
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV = **581**		3PV = **1742**		10PV = **5806**	
PV Amount Selected:	10PV		*Selected by:*		Ed Gillera	

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: ITSI040813-A2
Site Address: 5211 Southern Ave. Southgate, CA
Consultant: ITSI Gilbane Company
Field Rep(s): Ed Gillera
H&P Rep(s): M. Montemayor, T. Taylor

Date: 4/18/2013
Arrival Time: 6:45
Departure Time: 15:00
Overtime:
Approved By:

Office Use Only:
Reviewed:
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes:
13	JW-SB2-15'	SV0023	04/18/13	1322	15	16.5	1/4"	2"	12"	2"	6"	4814	✓	<200	2	
14	JW-SB2-35'	SV0021	↓	1345	35	37	↓	↓	↓	↓	↓	5806	✓	50	5	
15	JW-SB2-35R	SV0022	↓	1424	35	37	↓	↓	↓	↓	↓	5806	✓	50	5	
16		SV002														
17		SV002														
18		SV002														
19		SV002														
20		SV002														
21		SV002														
22		SV002														
23		SV002														
24		SV002														

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG6-35 on 4/9/13					
Tubing:	Length:	37	Diameter	1/4"	1 Volume:	179
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV =	581	3PV =	1742	10PV =	5806
PV Amount Selected:	10PV		*Selected by:*		Ed Gillera	

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

Mobile Geochemistry Inc.

16 June 2014

Mr. Don Gruber
Gilbane Company
2934 Gold Pan Court, Ste 12
Rancho Cordova, CA 95670

H&P Project: GIL042114-A1 Rev
Client Project: 9804-07163.0064 South Gate

Dear Mr. Don Gruber:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 4/21/2014 -5/2/2014 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody

Unless otherwise noted, all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

Lisa D Ems for

Janis Villarreal
Laboratory Director

H&P Mobile Geochemistry, Inc. operates under CA Environmental Lab Accreditation Program Numbers 2579, 2740, 2741, 2742, 2743, 2745 and 2754. National Environmental Laboratory Accreditation Conference (NELAC) Standards Lab #11845

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SAIA-SB/SG-23-5, 1PV, P433cc	E404066-01	Vapor	21-Apr-14	21-Apr-14
SAIA-SB/SG-23-5, 3PV, P1299cc	E404066-02	Vapor	21-Apr-14	21-Apr-14
SAIA-SB/SG-23-5, 10PV, P4330cc	E404066-03	Vapor	21-Apr-14	21-Apr-14
SAIA-SB/SG-23-15, 1PV, P481cc	E404066-04	Vapor	21-Apr-14	21-Apr-14
SAIA-SB/SG-23-15, 3PV, P1444cc	E404066-05	Vapor	21-Apr-14	21-Apr-14
SAIA-SB/SG-23-15, 10PV, P4814cc	E404066-06	Vapor	21-Apr-14	21-Apr-14
SAIA-SB/SG-23-25, 1PV, P530cc	E404066-07	Vapor	21-Apr-14	21-Apr-14
SAIA-SB/SG-23-35, 1PV, P578cc	E404066-08	Vapor	21-Apr-14	21-Apr-14
SAIA-SB/SG-23-25, 3PV, P1589cc	E404066-09	Vapor	21-Apr-14	21-Apr-14
SAIA-SB/SG-23-35, 3PV, P1734cc	E404066-10	Vapor	21-Apr-14	21-Apr-14
SAIA-SB/SG-23-25, 10PV, P5298cc	E404066-11	Vapor	21-Apr-14	21-Apr-14
SAIA-SB/SG-23-35, 10PV, P5782cc	E404066-12	Vapor	21-Apr-14	21-Apr-14
SAIA-SB/SG-39-5, P816cc	E404070-01	Vapor	22-Apr-14	22-Apr-14
SAIA-SB/SG-39-15, P913cc	E404070-02	Vapor	22-Apr-14	22-Apr-14
SAIA-SB/SG-39-25, P530cc	E404070-03	Vapor	22-Apr-14	22-Apr-14
SAIA-SB/SG-39-35, P578cc	E404070-04	Vapor	22-Apr-14	22-Apr-14
SAIA-SB/SG-38-5, P816cc	E404070-05	Vapor	22-Apr-14	22-Apr-14
SAIA-SB/SG-38-15, P913cc	E404070-06	Vapor	22-Apr-14	22-Apr-14
SAIA-SB/SG-38-15 Rep, P963cc	E404070-07	Vapor	22-Apr-14	22-Apr-14
SAIA-SB/SG-38-25, P530cc	E404070-08	Vapor	22-Apr-14	22-Apr-14
SAIA-SB/SG-38-35, P578cc	E404070-09	Vapor	22-Apr-14	22-Apr-14
SAIA-SB/SG-37-5, P816cc	E404070-10	Vapor	22-Apr-14	22-Apr-14
SAIA-SB/SG-37-15, P913cc	E404070-11	Vapor	22-Apr-14	22-Apr-14
SAIA-SB/SG-36-5, P816cc	E404074-01	Vapor	23-Apr-14	23-Apr-14
SAIA-SB/SG-36-15, P913cc	E404074-02	Vapor	23-Apr-14	23-Apr-14
SAIA-SB/SG-36-25, P530cc	E404074-03	Vapor	23-Apr-14	23-Apr-14
SAIA-SB/SG-36-35, P578cc	E404074-04	Vapor	23-Apr-14	23-Apr-14
SAIA-SB/SG-24-5, P816cc	E404074-05	Vapor	23-Apr-14	23-Apr-14

H&P Mobile
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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SAIA-SB/SG-24-15, P913cc	E404074-06	Vapor	23-Apr-14	23-Apr-14
SAIA-SB/SG-24-25, P530cc	E404074-07	Vapor	23-Apr-14	23-Apr-14
SAIA-SB/SG-24-35, P578cc	E404074-08	Vapor	23-Apr-14	23-Apr-14
SAIA-SB/SG-26-5, P816cc	E404074-09	Vapor	23-Apr-14	23-Apr-14
SAIA-SB/SG-26-5 Rep, P866cc	E404074-10	Vapor	23-Apr-14	23-Apr-14
SAIA-SB/SG-26-15, P913cc	E404074-11	Vapor	23-Apr-14	23-Apr-14
SAIA-SB/SG-26-25, P530cc	E404080-01	Vapor	24-Apr-14	24-Apr-14
SAIA-SB/SG-29-5, P816cc	E404080-02	Vapor	24-Apr-14	24-Apr-14
SAIA-SB/SG-29-15, P913cc	E404080-03	Vapor	24-Apr-14	24-Apr-14
SAIA-SB/SG-29-25, P530cc	E404080-04	Vapor	24-Apr-14	24-Apr-14
SAIA-SB/SG-29-35, P578cc	E404080-05	Vapor	24-Apr-14	24-Apr-14
SAIA-SB/SG-28-5, P816cc	E404080-06	Vapor	24-Apr-14	24-Apr-14
SAIA-SB/SG-28-15, P913cc	E404080-07	Vapor	24-Apr-14	24-Apr-14
SAIA-SB/SG-28-15 Rep, P963cc	E404080-08	Vapor	24-Apr-14	24-Apr-14
SAIA-SB/SG-28-35, P578cc	E404080-09	Vapor	24-Apr-14	24-Apr-14
SAIA-SB/SG-31-5, P816cc	E404080-10	Vapor	24-Apr-14	24-Apr-14
SAIA-SB/SG-31-15, P913cc	E404080-11	Vapor	24-Apr-14	24-Apr-14
SAIA-SB/SG-31-25, P530cc	E404080-12	Vapor	24-Apr-14	24-Apr-14
SAIA-SB/SG-31-35, P578cc	E404080-13	Vapor	24-Apr-14	24-Apr-14
SAIA-SB/SG-30-5, P816cc	E404080-14	Vapor	24-Apr-14	24-Apr-14
SAIA-SB/SG-30-15, P913cc	E404080-15	Vapor	24-Apr-14	24-Apr-14
SAIA-SB/SG-30-25, P530cc	E404085-01	Vapor	25-Apr-14	25-Apr-14
SAIA-SB/SG-30-35, P578cc	E404085-02	Vapor	25-Apr-14	25-Apr-14
SAIA-SB/SG-32-5, P816cc	E404085-03	Vapor	25-Apr-14	25-Apr-14
SAIA-SB/SG-32-15, P913cc	E404085-04	Vapor	25-Apr-14	25-Apr-14
SAIA-SB/SG-32-25, P530cc	E404085-05	Vapor	25-Apr-14	25-Apr-14
SAIA-SB/SG-32-35, P578cc	E404085-06	Vapor	25-Apr-14	25-Apr-14
SAIA-SB/SG-33-5, P816cc	E404085-07	Vapor	25-Apr-14	25-Apr-14

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SAIA-SB/SG-33-5 Rep, P866cc	E404085-08	Vapor	25-Apr-14	25-Apr-14
SAIA-SB/SG-33-15, P913cc	E404085-09	Vapor	25-Apr-14	25-Apr-14
SAIA-SB/SG-33-25, P530cc	E404085-10	Vapor	25-Apr-14	25-Apr-14
SAIA-SB/SG-33-35, P578cc	E404085-11	Vapor	25-Apr-14	25-Apr-14
SAIA-SB/SG-34-5, P816cc	E404085-12	Vapor	25-Apr-14	25-Apr-14
SAIA-SB/SG-34-15, P913cc	E404085-13	Vapor	25-Apr-14	25-Apr-14
SAIA-SB/SG-34-25, P530cc	E404085-14	Vapor	25-Apr-14	25-Apr-14
SAIA-SB/SG-34-35, P578cc	E404085-15	Vapor	25-Apr-14	25-Apr-14
SAIA-SB/SG-35-5, P816cc	E404090-01	Vapor	28-Apr-14	28-Apr-14
SAIA-SB/SG-35-15, P913cc	E404090-02	Vapor	28-Apr-14	28-Apr-14
SAIA-SB/SG-35-25, P530cc	E404090-03	Vapor	28-Apr-14	28-Apr-14
SAIA-SB/SG-35-35, P578cc	E404090-04	Vapor	28-Apr-14	28-Apr-14
SAIA-SB/SG-25-5, P816cc	E404090-05	Vapor	28-Apr-14	28-Apr-14
SAIA-SB/SG-25-15, P913cc	E404090-06	Vapor	28-Apr-14	28-Apr-14
SAIA-SB/SG-25-15 Rep, P963cc	E404090-07	Vapor	28-Apr-14	28-Apr-14
SAIA-SB/SG-25-35, P578cc	E404090-08	Vapor	28-Apr-14	28-Apr-14
SAIA-SB/SG-25-25, P530cc	E404090-09	Vapor	28-Apr-14	28-Apr-14
SAIA-SB/SG-27-5, P816cc	E404090-10	Vapor	28-Apr-14	28-Apr-14
SAIA-SB/SG-27-15, P913cc	E404090-11	Vapor	28-Apr-14	28-Apr-14
SAIA-SB/SG-27-25, P530cc	E404090-12	Vapor	28-Apr-14	28-Apr-14
SAIA-SB/SG-27-35, P578cc	E404095-01	Vapor	29-Apr-14	29-Apr-14
SAIA-SB/SG-19-5, P816cc	E404095-02	Vapor	29-Apr-14	29-Apr-14
SAIA-SB/SG-19-25, P530cc	E404095-03	Vapor	29-Apr-14	29-Apr-14
SAIA-SB/SG-19-15, P913cc	E404095-04	Vapor	29-Apr-14	29-Apr-14
SAIA-SB/SG-19-35, P578cc	E404095-05	Vapor	29-Apr-14	29-Apr-14
SAIA-SB/SG-22-5, P816cc	E404095-06	Vapor	29-Apr-14	29-Apr-14
SAIA-SB/SG-22-5 Rep, P866cc	E404095-07	Vapor	29-Apr-14	29-Apr-14
SAIA-SB/SG-22-15, P913cc	E404095-08	Vapor	29-Apr-14	29-Apr-14

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SAIA-SB/SG-22-25, P530cc	E404095-09	Vapor	29-Apr-14	29-Apr-14
SAIA-SB/SG-22-35, P578cc	E404099-01	Vapor	30-Apr-14	30-Apr-14
SAIA-SB/SG-22-35 Rep, P628cc	E404099-02	Vapor	30-Apr-14	30-Apr-14
SAIA-SB/SG-21-5, P816cc	E404099-03	Vapor	30-Apr-14	30-Apr-14
SAIA-SB/SG-21-15, P913cc	E404099-04	Vapor	30-Apr-14	30-Apr-14
SAIA-SB/SG-21-25, P530cc	E404099-05	Vapor	30-Apr-14	30-Apr-14
SAIA-SB/SG-21-35, P578cc	E404099-06	Vapor	30-Apr-14	30-Apr-14
SAIA-SB/SG-20-5, P816cc	E404099-07	Vapor	30-Apr-14	30-Apr-14
SAIA-SB/SG-20-15, P913cc	E404099-08	Vapor	30-Apr-14	30-Apr-14
SAIA-SB/SG-20-25, P530cc	E404099-09	Vapor	30-Apr-14	30-Apr-14
SAIA-SB/SG-20-35, P578cc	E405001-01	Vapor	01-May-14	01-May-14
SAIA-SB/SG-40-5, P816cc	E405001-02	Vapor	01-May-14	01-May-14
SAIA-SB/SG-40-15, P913cc	E405001-03	Vapor	01-May-14	01-May-14
SAIA-SB/SG-40-25, P530cc	E405001-04	Vapor	01-May-14	01-May-14
SAIA-SB/SG-40-35, P578cc	E405001-05	Vapor	01-May-14	01-May-14
SAIA-SB/SG-40-35 Rep, P628cc	E405001-06	Vapor	01-May-14	01-May-14
SAIA-SB/SG-41-5, P816cc	E405001-07	Vapor	01-May-14	01-May-14
SAIA-SB/SG-41-15, P913cc	E405001-08	Vapor	01-May-14	01-May-14
SAIA-SB/SG-41-25, P530cc	E405001-09	Vapor	01-May-14	01-May-14
SAIA-SB/SG-41-35, P578cc	E405001-10	Vapor	01-May-14	01-May-14
SAIA-SB/SG-43-5, P816cc	E405001-11	Vapor	01-May-14	01-May-14
SAIA-SB/SG-43-15, P913cc	E405007-01	Vapor	02-May-14	02-May-14
SAIA-SB/SG-43-25, P530cc	E405007-02	Vapor	02-May-14	02-May-14
SAIA-SB/SG-43-35, P578cc	E405007-03	Vapor	02-May-14	02-May-14
SAIA-SB/SG-43-35 Rep, P628cc	E405007-04	Vapor	02-May-14	02-May-14
SAIA-SB/SG-42-5, P816cc	E405007-05	Vapor	02-May-14	02-May-14
SAIA-SB/SG-42-15, P913cc	E405007-06	Vapor	02-May-14	02-May-14
SAIA-SB/SG-42-25, P530cc	E405007-07	Vapor	02-May-14	02-May-14

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Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SAIA-SB/SG-42-35, P578cc	E405007-08	Vapor	02-May-14	02-May-14

April 21, 2014

The percent recovery for Naphthalene fell below the method criteria in the continuing calibration verification (CCV). This analyte has been qualified for all samples analyzed on this date.

April 22, 2014

The percent recovery for Naphthalene fell below the method criteria in the CCV. This analyte has been qualified for all samples analyzed on this date.

The percent recoveries for Bromodichloromethane, 1,1,2-Trichloroethane, and 1,1,1,2-Tetrachloroethane fell above the method criteria in the CCV on this date. Since these analytes weren't detected in any samples, the data is not affected.

April 23 and 24, 2014

The percent recoveries for Naphthalene and 1,2,4-Trichlorobenzene fell below the method criteria in the CCV. These analytes have been qualified for all samples analyzed on this date.

April 25, 2014

The percent recoveries for Carbon Tetrachloride and 1,1,1,2-Tetrachloroethane fell above the method criteria in the CCV. Since these analytes were not present in any samples analyzed on this date, the data is not affected.

April 28 and 29, 2014

The percent recovery for Naphthalene fell below the method criteria in the CCV on these two dates. This analyte has been qualified for all samples analyzed on these dates.

April 30, 2014

The percent recoveries for Naphthalene and 1,2,4-Trichlorobenzene fell below the CCV. These two analytes have been qualified for samples analyzed on this date.

May 1, 2014

The percent recoveries for Carbon Tetrachloride and 1,1,1,2-Tetrachloroethane fell above the method criteria in the CCV. Since these analytes were not present in any samples analyzed on this date, the data should not be affected.

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May 2, 2014

The percent recoveries for Vinyl Chloride, Bromodichloromethane and 1,1,1,2-Tetrachloroethane fell above the method criteria in the CCV. Since these analytes were not present in any samples analyzed on this date, the data should not be affected.

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Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

DETECTIONS SUMMARY

Sample ID: **SAIA-SB/SG-23-5, 1PV, P433cc** Laboratory ID: **E404066-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**260**	27	ug/m3	TO-15	
Tetrachloroethene	**58**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-23-5, 3PV, P1299cc** Laboratory ID: **E404066-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**260**	27	ug/m3	TO-15	
Tetrachloroethene	**63**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-23-5, 10PV, P4330cc** Laboratory ID: **E404066-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**280**	27	ug/m3	TO-15	
Tetrachloroethene	**72**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-23-15, 1PV, P481cc** Laboratory ID: **E404066-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**25**	16	ug/m3	TO-15	
Trichloroethene	**420**	27	ug/m3	TO-15	
Tetrachloroethene	**100**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-23-15, 3PV, P1444cc** Laboratory ID: **E404066-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**440**	27	ug/m3	TO-15	
Tetrachloroethene	**91**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-23-15, 10PV, P4814cc** Laboratory ID: **E404066-06**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**440**	27	ug/m3	TO-15	
Tetrachloroethene	**88**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-23-25, 1PV, P530cc** Laboratory ID: **E404066-07**

Analyte	Result	Reporting Limit	Units	Method	Notes

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Sample ID: **SAIA-SB/SG-23-25, 1PV, P530cc** Laboratory ID: **E404066-07**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**47**	16	ug/m3	TO-15	
Trichloroethene	**900**	27	ug/m3	TO-15	
Tetrachloroethene	**69**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-23-35, 1PV, P578cc** Laboratory ID: **E404066-08**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**58**	40	ug/m3	TO-15	
Trichloroethene	**1500**	27	ug/m3	TO-15	
Tetrachloroethene	**110**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-23-25, 3PV, P1589cc** Laboratory ID: **E404066-09**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**43**	16	ug/m3	TO-15	
Trichloroethene	**320**	27	ug/m3	TO-15	
Toluene	**55**	19	ug/m3	TO-15	
Tetrachloroethene	**89**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-23-35, 3PV, P1734cc** Laboratory ID: **E404066-10**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**55**	40	ug/m3	TO-15	
Trichloroethene	**1500**	27	ug/m3	TO-15	
Tetrachloroethene	**82**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-23-25, 10PV, P5298cc** Laboratory ID: **E404066-11**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**160**	27	ug/m3	TO-15	
Toluene	**28**	19	ug/m3	TO-15	
Tetrachloroethene	**47**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-23-35, 10PV, P5782cc** Laboratory ID: **E404066-12**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**58**	40	ug/m3	TO-15	
Trichloroethene	**1500**	27	ug/m3	TO-15	
Tetrachloroethene	**75**	34	ug/m3	TO-15	

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Sample ID: **SAIA-SB/SG-39-5, P816cc** Laboratory ID: **E404070-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SAIA-SB/SG-39-15, P913cc** Laboratory ID: **E404070-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SAIA-SB/SG-39-25, P530cc** Laboratory ID: **E404070-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**140**	40	ug/m3	TO-15	
Benzene	**90**	16	ug/m3	TO-15	
Trichloroethene	**78**	27	ug/m3	TO-15	
Toluene	**47**	19	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-39-35, P578cc** Laboratory ID: **E404070-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
1,1-Difluoroethane (LCC)	**92**	27	ug/m3	TO-15	
Vinyl chloride	**76**	13	ug/m3	TO-15	
1,1-Dichloroethene	**160**	20	ug/m3	TO-15	
trans-1,2-Dichloroethene	**1700**	40	ug/m3	TO-15	
1,1-Dichloroethane	**380**	41	ug/m3	TO-15	
cis-1,2-Dichloroethene	**34000**	1000	ug/m3	TO-15	
Trichloroethene	**13000**	680	ug/m3	TO-15	
Tetrachloroethene	**160**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-38-5, P816cc** Laboratory ID: **E404070-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**46**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-38-15, P913cc** Laboratory ID: **E404070-06**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**350**	40	ug/m3	TO-15	
Benzene	**52**	16	ug/m3	TO-15	
Trichloroethene	**330**	27	ug/m3	TO-15	
Toluene	**53**	19	ug/m3	TO-15	

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Sample ID: **SAIA-SB/SG-38-15 Rep, P963cc** Laboratory ID: **E404070-07**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**330**	40	ug/m3	TO-15	
Benzene	**49**	16	ug/m3	TO-15	
Trichloroethene	**270**	27	ug/m3	TO-15	
Toluene	**37**	19	ug/m3	TO-15	
Tetrachloroethene	**57**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-38-25, P530cc** Laboratory ID: **E404070-08**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**510**	40	ug/m3	TO-15	
Benzene	**55**	16	ug/m3	TO-15	
Trichloroethene	**200**	27	ug/m3	TO-15	
Toluene	**38**	19	ug/m3	TO-15	
m,p-Xylene	**47**	44	ug/m3	TO-15	
p-Isopropyltoluene	**74**	28	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-38-35, P578cc** Laboratory ID: **E404070-09**

Analyte	Result	Reporting Limit	Units	Method	Notes
Vinyl chloride	**52000**	3200	ug/m3	TO-15	
1,1-Dichloroethene	**4400**	20	ug/m3	TO-15	
1,1-Dichloroethane	**45000**	10000	ug/m3	TO-15	
cis-1,2-Dichloroethene	**1100000**	10000	ug/m3	TO-15	
Chloroform	**44**	25	ug/m3	TO-15	
1,1,1-Trichloroethane	**120**	28	ug/m3	TO-15	
1,2-Dichloroethane (EDC)	**65**	21	ug/m3	TO-15	
Benzene	**230**	16	ug/m3	TO-15	
Trichloroethene	**940000**	6800	ug/m3	TO-15	
Toluene	**180**	19	ug/m3	TO-15	
Tetrachloroethene	**3100**	34	ug/m3	TO-15	
Ethylbenzene	**25**	22	ug/m3	TO-15	
Isopropylbenzene (Cumene)	**190**	25	ug/m3	TO-15	
1,3,5-Trimethylbenzene	**190**	25	ug/m3	TO-15	
sec-Butylbenzene	**300**	28	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-37-5, P816cc** Laboratory ID: **E404070-10**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**380**	40	ug/m3	TO-15	

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Sample ID: **SAIA-SB/SG-37-5, P816cc** Laboratory ID: **E404070-10**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**400**	27	ug/m3	TO-15	
Tetrachloroethene	**45**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-37-15, P913cc** Laboratory ID: **E404070-11**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**83**	40	ug/m3	TO-15	
Benzene	**58**	16	ug/m3	TO-15	
Trichloroethene	**160**	27	ug/m3	TO-15	
Toluene	**35**	19	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-36-5, P816cc** Laboratory ID: **E404074-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SAIA-SB/SG-36-15, P913cc** Laboratory ID: **E404074-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**21**	16	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-36-25, P530cc** Laboratory ID: **E404074-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SAIA-SB/SG-36-35, P578cc** Laboratory ID: **E404074-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**40**	27	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-24-5, P816cc** Laboratory ID: **E404074-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
1,1-Dichloroethane	**180**	41	ug/m3	TO-15	
cis-1,2-Dichloroethene	**170**	40	ug/m3	TO-15	
1,1,1-Trichloroethane	**50**	28	ug/m3	TO-15	
Trichloroethene	**920**	27	ug/m3	TO-15	
Tetrachloroethene	**93**	34	ug/m3	TO-15	

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Sample ID: **SAIA-SB/SG-24-15, P913cc** Laboratory ID: **E404074-06**

Analyte	Result	Reporting Limit	Units	Method	Notes
1,1-Dichloroethene	**81**	20	ug/m3	TO-15	
trans-1,2-Dichloroethene	**120**	40	ug/m3	TO-15	
1,1-Dichloroethane	**360**	41	ug/m3	TO-15	
cis-1,2-Dichloroethene	**3900**	40	ug/m3	TO-15	
1,1,1-Trichloroethane	**56**	28	ug/m3	TO-15	
Benzene	**19**	16	ug/m3	TO-15	
Trichloroethene	**19000**	270	ug/m3	TO-15	
Tetrachloroethene	**93**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-24-25, P530cc** Laboratory ID: **E404074-07**

Analyte	Result	Reporting Limit	Units	Method	Notes
1,1-Dichloroethene	**110**	20	ug/m3	TO-15	
1,1,2-Trichlorotrifluoroethane (F113)	**43**	39	ug/m3	TO-15	
trans-1,2-Dichloroethene	**45**	40	ug/m3	TO-15	
cis-1,2-Dichloroethene	**1200**	40	ug/m3	TO-15	
Trichloroethene	**5500**	27	ug/m3	TO-15	
Toluene	**44**	19	ug/m3	TO-15	
Tetrachloroethene	**760**	34	ug/m3	TO-15	
Ethylbenzene	**40**	22	ug/m3	TO-15	
m,p-Xylene	**51**	44	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-24-35, P578cc** Laboratory ID: **E404074-08**

Analyte	Result	Reporting Limit	Units	Method	Notes
Vinyl chloride	**17000**	13	ug/m3	TO-15	E
1,1-Dichloroethene	**35000**	20	ug/m3	TO-15	E
trans-1,2-Dichloroethene	**72000**	40	ug/m3	TO-15	E
1,1-Dichloroethane	**53000**	41	ug/m3	TO-15	E
cis-1,2-Dichloroethene	**420000**	20000	ug/m3	TO-15	
Chloroform	**120**	25	ug/m3	TO-15	
1,1,1-Trichloroethane	**610**	28	ug/m3	TO-15	
Benzene	**840**	16	ug/m3	TO-15	
Trichloroethene	**980000**	14000	ug/m3	TO-15	
Toluene	**63**	19	ug/m3	TO-15	
Tetrachloroethene	**950**	34	ug/m3	TO-15	
Ethylbenzene	**93**	22	ug/m3	TO-15	
o-Xylene	**24**	22	ug/m3	TO-15	
p-Isopropyltoluene	**50**	28	ug/m3	TO-15	

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Sample ID: **SAIA-SB/SG-26-5, P816cc** Laboratory ID: **E404074-09**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**290**	40	ug/m3	TO-15	
Benzene	**41**	16	ug/m3	TO-15	
Trichloroethene	**950**	27	ug/m3	TO-15	
Tetrachloroethene	**65**	34	ug/m3	TO-15	
1,4-Dichlorobenzene	**770**	30	ug/m3	TO-15	
1,2,4-Trichlorobenzene	**65**	38	ug/m3	TO-15	C-Low

Sample ID: **SAIA-SB/SG-26-5 Rep, P866cc** Laboratory ID: **E404074-10**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**240**	40	ug/m3	TO-15	
Benzene	**46**	16	ug/m3	TO-15	
Trichloroethene	**740**	27	ug/m3	TO-15	
Tetrachloroethene	**36**	34	ug/m3	TO-15	
1,4-Dichlorobenzene	**770**	30	ug/m3	TO-15	
1,2,4-Trichlorobenzene	**72**	38	ug/m3	TO-15	C-Low

Sample ID: **SAIA-SB/SG-26-15, P913cc** Laboratory ID: **E404074-11**

Analyte	Result	Reporting Limit	Units	Method	Notes
Vinyl chloride	**230**	13	ug/m3	TO-15	
1,1-Dichloroethene	**110**	20	ug/m3	TO-15	
trans-1,2-Dichloroethene	**240**	40	ug/m3	TO-15	
1,1-Dichloroethane	**900**	41	ug/m3	TO-15	
cis-1,2-Dichloroethene	**17000**	800	ug/m3	TO-15	
Benzene	**42**	16	ug/m3	TO-15	
Trichloroethene	**33000**	550	ug/m3	TO-15	
Tetrachloroethene	**37**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-26-25, P530cc** Laboratory ID: **E404080-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
Vinyl chloride	**6500**	1300	ug/m3	TO-15	
1,1-Dichloroethene	**1100**	20	ug/m3	TO-15	
trans-1,2-Dichloroethene	**1200**	40	ug/m3	TO-15	
1,1-Dichloroethane	**4400**	41	ug/m3	TO-15	
cis-1,2-Dichloroethene	**98000**	4000	ug/m3	TO-15	
1,1,1-Trichloroethane	**30**	28	ug/m3	TO-15	
Benzene	**71**	16	ug/m3	TO-15	

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2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Sample ID: **SAIA-SB/SG-26-25, P530cc** Laboratory ID: **E404080-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**150000**	2700	ug/m3	TO-15	
Toluene	**30**	19	ug/m3	TO-15	
Tetrachloroethene	**75**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-29-5, P816cc** Laboratory ID: **E404080-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**1200**	40	ug/m3	TO-15	
Trichloroethene	**5700**	27	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-29-15, P913cc** Laboratory ID: **E404080-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**61**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-29-25, P530cc** Laboratory ID: **E404080-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
Vinyl chloride	**13**	13	ug/m3	TO-15	
cis-1,2-Dichloroethene	**83**	40	ug/m3	TO-15	
Benzene	**170**	16	ug/m3	TO-15	
Trichloroethene	**320**	27	ug/m3	TO-15	
Toluene	**35**	19	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-29-35, P578cc** Laboratory ID: **E404080-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
1,1-Dichloroethene	**74**	20	ug/m3	TO-15	
trans-1,2-Dichloroethene	**530**	40	ug/m3	TO-15	
1,1-Dichloroethane	**120**	41	ug/m3	TO-15	
cis-1,2-Dichloroethene	**7600**	40	ug/m3	TO-15	
Trichloroethene	**9500**	27	ug/m3	TO-15	
Tetrachloroethene	**680**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-28-5, P816cc** Laboratory ID: **E404080-06**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**590**	34	ug/m3	TO-15	

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Sample ID: **SAIA-SB/SG-28-15, P913cc** Laboratory ID: **E404080-07**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**690**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-28-15 Rep, P963cc** Laboratory ID: **E404080-08**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**540**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-28-35, P578cc** Laboratory ID: **E404080-09**

Analyte	Result	Reporting Limit	Units	Method	Notes
Vinyl chloride	**64**	13	ug/m3	TO-15	
1,1-Dichloroethene	**130**	20	ug/m3	TO-15	
trans-1,2-Dichloroethene	**1600**	40	ug/m3	TO-15	
1,1-Dichloroethane	**220**	41	ug/m3	TO-15	
cis-1,2-Dichloroethene	**24000**	400	ug/m3	TO-15	
Trichloroethene	**11000**	270	ug/m3	TO-15	
1,1,2-Trichloroethane	**50**	28	ug/m3	TO-15	
Tetrachloroethene	**310**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-31-5, P816cc** Laboratory ID: **E404080-10**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**490**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-31-15, P913cc** Laboratory ID: **E404080-11**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**57**	27	ug/m3	TO-15	
Tetrachloroethene	**750**	34	ug/m3	TO-15	
p-Isopropyltoluene	**34**	28	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-31-25, P530cc** Laboratory ID: **E404080-12**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**170**	40	ug/m3	TO-15	
Benzene	**24**	16	ug/m3	TO-15	
Trichloroethene	**2300**	27	ug/m3	TO-15	
Tetrachloroethene	**580**	34	ug/m3	TO-15	
p-Isopropyltoluene	**110**	28	ug/m3	TO-15	

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Sample ID: **SAIA-SB/SG-31-35, P578cc** Laboratory ID: **E404080-13**

Analyte	Result	Reporting Limit	Units	Method	Notes
trans-1,2-Dichloroethene	**110**	40	ug/m3	TO-15	
cis-1,2-Dichloroethene	**1600**	40	ug/m3	TO-15	
Trichloroethene	**1500**	27	ug/m3	TO-15	
Tetrachloroethene	**560**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-30-5, P816cc** Laboratory ID: **E404080-14**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**400**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-30-15, P913cc** Laboratory ID: **E404080-15**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**590**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-30-25, P530cc** Laboratory ID: **E404085-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**240**	40	ug/m3	TO-15	
Benzene	**28**	16	ug/m3	TO-15	
Trichloroethene	**1300**	27	ug/m3	TO-15	
Tetrachloroethene	**740**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-30-35, P578cc** Laboratory ID: **E404085-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
trans-1,2-Dichloroethene	**59**	40	ug/m3	TO-15	
cis-1,2-Dichloroethene	**290**	40	ug/m3	TO-15	
Trichloroethene	**250**	27	ug/m3	TO-15	
Tetrachloroethene	**490**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-32-5, P816cc** Laboratory ID: **E404085-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**76**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-32-15, P913cc** Laboratory ID: **E404085-04**

Analyte	Result	Reporting Limit	Units	Method	Notes

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Sample ID: **SAIA-SB/SG-32-15, P913cc** Laboratory ID: **E404085-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**150**	40	ug/m3	TO-15	
Benzene	**21**	16	ug/m3	TO-15	
Trichloroethene	**980**	27	ug/m3	TO-15	
Tetrachloroethene	**230**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-32-25, P530cc** Laboratory ID: **E404085-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SAIA-SB/SG-32-35, P578cc** Laboratory ID: **E404085-06**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**47**	40	ug/m3	TO-15	
Trichloroethene	**120**	27	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-33-5, P816cc** Laboratory ID: **E404085-07**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**470**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-33-5 Rep, P866cc** Laboratory ID: **E404085-08**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**410**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-33-15, P913cc** Laboratory ID: **E404085-09**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**190**	34	ug/m3	TO-15	
Ethylbenzene	**270**	22	ug/m3	TO-15	
m,p-Xylene	**120**	44	ug/m3	TO-15	
o-Xylene	**300**	22	ug/m3	TO-15	
Isopropylbenzene (Cumene)	**420**	25	ug/m3	TO-15	
n-Propylbenzene	**320**	25	ug/m3	TO-15	
1,3,5-Trimethylbenzene	**420**	25	ug/m3	TO-15	
tert-Butylbenzene	**400**	28	ug/m3	TO-15	
1,2,4-Trimethylbenzene	**2700**	25	ug/m3	TO-15	
sec-Butylbenzene	**1300**	28	ug/m3	TO-15	

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Sample ID: **SAIA-SB/SG-33-15, P913cc** Laboratory ID: **E404085-09**

Analyte	Result	Reporting Limit	Units	Method	Notes
p-Isopropyltoluene	**940**	28	ug/m3	TO-15	
Naphthalene	**260**	27	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-33-25, P530cc** Laboratory ID: **E404085-10**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**35**	16	ug/m3	TO-15	
Toluene	**39**	19	ug/m3	TO-15	
Ethylbenzene	**170**	22	ug/m3	TO-15	
m,p-Xylene	**140**	44	ug/m3	TO-15	
o-Xylene	**46**	22	ug/m3	TO-15	
Isopropylbenzene (Cumene)	**230**	25	ug/m3	TO-15	
n-Propylbenzene	**110**	25	ug/m3	TO-15	
1,3,5-Trimethylbenzene	**230**	25	ug/m3	TO-15	
1,2,4-Trimethylbenzene	**600**	25	ug/m3	TO-15	
sec-Butylbenzene	**650**	28	ug/m3	TO-15	
p-Isopropyltoluene	**3400**	28	ug/m3	TO-15	
Naphthalene	**33**	27	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-33-35, P578cc** Laboratory ID: **E404085-11**

Analyte	Result	Reporting Limit	Units	Method	Notes
trans-1,2-Dichloroethene	**51**	40	ug/m3	TO-15	
cis-1,2-Dichloroethene	**630**	40	ug/m3	TO-15	
Benzene	**29**	16	ug/m3	TO-15	
Trichloroethene	**1900**	27	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-34-5, P816cc** Laboratory ID: **E404085-12**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SAIA-SB/SG-34-15, P913cc** Laboratory ID: **E404085-13**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

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Sample ID: **SAIA-SB/SG-34-25, P530cc** Laboratory ID: **E404085-14**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SAIA-SB/SG-34-35, P578cc** Laboratory ID: **E404085-15**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SAIA-SB/SG-35-5, P816cc** Laboratory ID: **E404090-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SAIA-SB/SG-35-15, P913cc** Laboratory ID: **E404090-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SAIA-SB/SG-35-25, P530cc** Laboratory ID: **E404090-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**51**	40	ug/m3	TO-15	
Benzene	**79**	16	ug/m3	TO-15	
Trichloroethene	**530**	27	ug/m3	TO-15	
Toluene	**34**	19	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-35-35, P578cc** Laboratory ID: **E404090-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SAIA-SB/SG-25-5, P816cc** Laboratory ID: **E404090-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**3000**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-25-15, P913cc** Laboratory ID: **E404090-06**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**20**	16	ug/m3	TO-15	

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Sample ID: **SAIA-SB/SG-25-15, P913cc** Laboratory ID: **E404090-06**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	**4100**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-25-15 Rep, P963cc** Laboratory ID: **E404090-07**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**26**	16	ug/m3	TO-15	
Tetrachloroethene	**3400**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-25-35, P578cc** Laboratory ID: **E404090-08**

Analyte	Result	Reporting Limit	Units	Method	Notes
Vinyl chloride	**26**	13	ug/m3	TO-15	
1,1-Dichloroethene	**100**	20	ug/m3	TO-15	
trans-1,2-Dichloroethene	**690**	40	ug/m3	TO-15	
cis-1,2-Dichloroethene	**6700**	800	ug/m3	TO-15	
Trichloroethene	**25000**	550	ug/m3	TO-15	
Tetrachloroethene	**6400**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-25-25, P530cc** Laboratory ID: **E404090-09**

Analyte	Result	Reporting Limit	Units	Method	Notes
Chloromethane	**58**	21	ug/m3	TO-15	
cis-1,2-Dichloroethene	**81**	40	ug/m3	TO-15	
Benzene	**28**	16	ug/m3	TO-15	
Trichloroethene	**620**	27	ug/m3	TO-15	
Toluene	**29**	19	ug/m3	TO-15	
Tetrachloroethene	**580**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-27-5, P816cc** Laboratory ID: **E404090-10**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**57**	40	ug/m3	TO-15	
Benzene	**29**	16	ug/m3	TO-15	
Trichloroethene	**970**	27	ug/m3	TO-15	
Toluene	**20**	19	ug/m3	TO-15	
Tetrachloroethene	**53000**	340	ug/m3	TO-15	

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Sample ID: **SAIA-SB/SG-27-15, P913cc** Laboratory ID: **E404090-11**

Analyte	Result	Reporting Limit	Units	Method	Notes
trans-1,2-Dichloroethene	**100**	40	ug/m3	TO-15	
cis-1,2-Dichloroethene	**340**	40	ug/m3	TO-15	
Benzene	**25**	16	ug/m3	TO-15	
Trichloroethene	**5300**	27	ug/m3	TO-15	
Tetrachloroethene	**30000**	340	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-27-25, P530cc** Laboratory ID: **E404090-12**

Analyte	Result	Reporting Limit	Units	Method	Notes
trans-1,2-Dichloroethene	**460**	40	ug/m3	TO-15	
1,1-Dichloroethane	**220**	41	ug/m3	TO-15	
cis-1,2-Dichloroethene	**4000**	40	ug/m3	TO-15	
Benzene	**49**	16	ug/m3	TO-15	
Trichloroethene	**23000**	270	ug/m3	TO-15	
Tetrachloroethene	**15000**	340	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-27-35, P578cc** Laboratory ID: **E404095-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
1,1-Dichloroethene	**99**	20	ug/m3	TO-15	
trans-1,2-Dichloroethene	**1200**	40	ug/m3	TO-15	
1,1-Dichloroethane	**58**	41	ug/m3	TO-15	
cis-1,2-Dichloroethene	**14000**	400	ug/m3	TO-15	
Trichloroethene	**10000**	27	ug/m3	TO-15	
Tetrachloroethene	**210**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-19-5, P816cc** Laboratory ID: **E404095-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
trans-1,2-Dichloroethene	**370**	40	ug/m3	TO-15	
1,1-Dichloroethane	**2000**	41	ug/m3	TO-15	
cis-1,2-Dichloroethene	**17000**	400	ug/m3	TO-15	
Chloroform	**85**	25	ug/m3	TO-15	
1,1,1-Trichloroethane	**2400**	28	ug/m3	TO-15	
Trichloroethene	**30000**	270	ug/m3	TO-15	
Tetrachloroethene	**1100**	34	ug/m3	TO-15	

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Sample ID: **SAIA-SB/SG-19-25, P530cc** Laboratory ID: **E404095-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
Vinyl chloride	**810000**	16000	ug/m3	TO-15	
Chloroethane	**440**	27	ug/m3	TO-15	
1,1-Dichloroethene	**660**	20	ug/m3	TO-15	
trans-1,2-Dichloroethene	**6400**	5000	ug/m3	TO-15	
1,1-Dichloroethane	**18000**	5100	ug/m3	TO-15	
cis-1,2-Dichloroethene	**22000**	5000	ug/m3	TO-15	
1,1,1-Trichloroethane	**150**	28	ug/m3	TO-15	
1,2-Dichloroethane (EDC)	**110**	21	ug/m3	TO-15	
Benzene	**600**	16	ug/m3	TO-15	
Trichloroethene	**230000**	3400	ug/m3	TO-15	
Toluene	**1900**	19	ug/m3	TO-15	
Tetrachloroethene	**410**	34	ug/m3	TO-15	
Ethylbenzene	**270**	22	ug/m3	TO-15	
m,p-Xylene	**290**	44	ug/m3	TO-15	
o-Xylene	**490**	22	ug/m3	TO-15	
Isopropylbenzene (Cumene)	**200**	25	ug/m3	TO-15	
n-Propylbenzene	**170**	25	ug/m3	TO-15	
1,3,5-Trimethylbenzene	**200**	25	ug/m3	TO-15	
1,2,4-Trimethylbenzene	**91**	25	ug/m3	TO-15	
sec-Butylbenzene	**290**	28	ug/m3	TO-15	
p-Isopropyltoluene	**180**	28	ug/m3	TO-15	
n-Butylbenzene	**270**	28	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-19-15, P913cc** Laboratory ID: **E404095-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
Vinyl chloride	**13000**	2600	ug/m3	TO-15	
1,1-Dichloroethene	**85**	20	ug/m3	TO-15	
trans-1,2-Dichloroethene	**500**	40	ug/m3	TO-15	
1,1-Dichloroethane	**1700**	41	ug/m3	TO-15	
cis-1,2-Dichloroethene	**5300**	40	ug/m3	TO-15	
1,1,1-Trichloroethane	**64**	28	ug/m3	TO-15	
Benzene	**350**	16	ug/m3	TO-15	
Trichloroethene	**35000**	5500	ug/m3	TO-15	
Toluene	**210**	19	ug/m3	TO-15	
Tetrachloroethene	**1200**	34	ug/m3	TO-15	
Ethylbenzene	**100**	22	ug/m3	TO-15	
o-Xylene	**150**	22	ug/m3	TO-15	
Isopropylbenzene (Cumene)	**43**	25	ug/m3	TO-15	

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Sample ID: **SAIA-SB/SG-19-15, P913cc** Laboratory ID: **E404095-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
n-Propylbenzene	**34**	25	ug/m3	TO-15	
1,3,5-Trimethylbenzene	**43**	25	ug/m3	TO-15	
sec-Butylbenzene	**56**	28	ug/m3	TO-15	
p-Isopropyltoluene	**43**	28	ug/m3	TO-15	
n-Butylbenzene	**34**	28	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-19-35, P578cc** Laboratory ID: **E404095-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
Vinyl chloride	**38000**	260	ug/m3	TO-15	
1,1-Dichloroethene	**700**	20	ug/m3	TO-15	
trans-1,2-Dichloroethene	**460**	40	ug/m3	TO-15	
1,1-Dichloroethane	**820**	41	ug/m3	TO-15	
cis-1,2-Dichloroethene	**6800**	40	ug/m3	TO-15	
1,1,1-Trichloroethane	**38**	28	ug/m3	TO-15	
Benzene	**98**	16	ug/m3	TO-15	
Trichloroethene	**21000**	550	ug/m3	TO-15	
Toluene	**87**	19	ug/m3	TO-15	
Tetrachloroethene	**2200**	34	ug/m3	TO-15	
Ethylbenzene	**70**	22	ug/m3	TO-15	
m,p-Xylene	**63**	44	ug/m3	TO-15	
o-Xylene	**38**	22	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-22-5, P816cc** Laboratory ID: **E404095-06**

Analyte	Result	Reporting Limit	Units	Method	Notes
Vinyl chloride	**64**	13	ug/m3	TO-15	
Trichloroethene	**86**	27	ug/m3	TO-15	
Tetrachloroethene	**35**	34	ug/m3	TO-15	
1,2,4-Trimethylbenzene	**69**	25	ug/m3	TO-15	
sec-Butylbenzene	**44**	28	ug/m3	TO-15	
p-Isopropyltoluene	**61**	28	ug/m3	TO-15	
n-Butylbenzene	**76**	28	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-22-5 Rep, P866cc** Laboratory ID: **E404095-07**

Analyte	Result	Reporting Limit	Units	Method	Notes
Vinyl chloride	**32**	13	ug/m3	TO-15	
Trichloroethene	**100**	27	ug/m3	TO-15	

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Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Sample ID: **SAIA-SB/SG-22-5 Rep, P866cc** Laboratory ID: **E404095-07**

Analyte	Result	Reporting Limit	Units	Method	Notes
1,2,4-Trimethylbenzene	**43**	25	ug/m3	TO-15	
p-Isopropyltoluene	**46**	28	ug/m3	TO-15	
n-Butylbenzene	**59**	28	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-22-15, P913cc** Laboratory ID: **E404095-08**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**25**	16	ug/m3	TO-15	
Trichloroethene	**180**	27	ug/m3	TO-15	
Tetrachloroethene	**39**	34	ug/m3	TO-15	
p-Isopropyltoluene	**40**	28	ug/m3	TO-15	
n-Butylbenzene	**45**	28	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-22-25, P530cc** Laboratory ID: **E404095-09**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**120**	40	ug/m3	TO-15	
Benzene	**120**	16	ug/m3	TO-15	
Trichloroethene	**310**	27	ug/m3	TO-15	
Toluene	**50**	19	ug/m3	TO-15	
Tetrachloroethene	**43**	34	ug/m3	TO-15	
1,2,4-Trimethylbenzene	**78**	25	ug/m3	TO-15	
sec-Butylbenzene	**43**	28	ug/m3	TO-15	
p-Isopropyltoluene	**97**	28	ug/m3	TO-15	
n-Butylbenzene	**110**	28	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-22-35, P578cc** Laboratory ID: **E404099-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
Dichlorodifluoromethane (F12)	**47**	25	ug/m3	TO-15	
Vinyl chloride	**90**	13	ug/m3	TO-15	
1,1-Dichloroethene	**26**	20	ug/m3	TO-15	
cis-1,2-Dichloroethene	**190**	40	ug/m3	TO-15	QL-1H
Trichloroethene	**120**	27	ug/m3	TO-15	
Toluene	**23**	19	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-22-35 Rep, P628cc** Laboratory ID: **E404099-02**

Analyte	Result	Reporting Limit	Units	Method	Notes

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Sample ID: **SAIA-SB/SG-22-35 Rep, P628cc** Laboratory ID: **E404099-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
Dichlorodifluoromethane (F12)	**51**	25	ug/m3	TO-15	
Vinyl chloride	**73**	13	ug/m3	TO-15	
1,1-Dichloroethene	**40**	20	ug/m3	TO-15	
cis-1,2-Dichloroethene	**210**	40	ug/m3	TO-15	QL-1H
Trichloroethene	**110**	27	ug/m3	TO-15	
Toluene	**20**	19	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-21-5, P816cc** Laboratory ID: **E404099-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**160**	27	ug/m3	TO-15	
Tetrachloroethene	**93**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-21-15, P913cc** Laboratory ID: **E404099-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
trans-1,2-Dichloroethene	**150**	40	ug/m3	TO-15	
1,1-Dichloroethane	**510**	41	ug/m3	TO-15	
cis-1,2-Dichloroethene	**32000**	1000	ug/m3	TO-15	QL-1H
Benzene	**40**	16	ug/m3	TO-15	
Trichloroethene	**8500**	680	ug/m3	TO-15	
Toluene	**67**	19	ug/m3	TO-15	
Tetrachloroethene	**570**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-21-25, P530cc** Laboratory ID: **E404099-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
Vinyl chloride	**1600**	13	ug/m3	TO-15	
1,1-Dichloroethene	**1100**	20	ug/m3	TO-15	
trans-1,2-Dichloroethene	**5400**	1000	ug/m3	TO-15	
1,1-Dichloroethane	**2200**	41	ug/m3	TO-15	
cis-1,2-Dichloroethene	**50000**	1000	ug/m3	TO-15	QL-1H
Benzene	**120**	16	ug/m3	TO-15	
Trichloroethene	**7000**	680	ug/m3	TO-15	
Toluene	**90**	19	ug/m3	TO-15	
Tetrachloroethene	**360**	34	ug/m3	TO-15	
m,p-Xylene	**96**	44	ug/m3	TO-15	

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Sample ID: **SAIA-SB/SG-21-35, P578cc** Laboratory ID: **E404099-06**

Analyte	Result	Reporting Limit	Units	Method	Notes
Vinyl chloride	**4300**	13	ug/m3	TO-15	
1,1-Dichloroethene	**1700**	20	ug/m3	TO-15	
trans-1,2-Dichloroethene	**4700**	40	ug/m3	TO-15	
1,1-Dichloroethane	**930**	41	ug/m3	TO-15	
cis-1,2-Dichloroethene	**52000**	1000	ug/m3	TO-15	QL-1H
Benzene	**59**	16	ug/m3	TO-15	
Trichloroethene	**21000**	680	ug/m3	TO-15	
Tetrachloroethene	**38**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-20-5, P816cc** Laboratory ID: **E404099-07**

Analyte	Result	Reporting Limit	Units	Method	Notes
Vinyl chloride	**170000**	1300	ug/m3	TO-15	
Chloroethane	**650**	27	ug/m3	TO-15	
1,1-Dichloroethene	**710**	20	ug/m3	TO-15	
trans-1,2-Dichloroethene	**1700**	40	ug/m3	TO-15	
1,1-Dichloroethane	**22000**	4100	ug/m3	TO-15	
cis-1,2-Dichloroethene	**610000**	4000	ug/m3	TO-15	QL-1H
1,1,1-Trichloroethane	**76**	28	ug/m3	TO-15	
1,2-Dichloroethane (EDC)	**72**	21	ug/m3	TO-15	
Benzene	**340**	16	ug/m3	TO-15	
Trichloroethene	**17000**	2700	ug/m3	TO-15	
Toluene	**460**	19	ug/m3	TO-15	
Tetrachloroethene	**290**	34	ug/m3	TO-15	
Ethylbenzene	**150**	22	ug/m3	TO-15	
m,p-Xylene	**390**	44	ug/m3	TO-15	
Isopropylbenzene (Cumene)	**39**	25	ug/m3	TO-15	
n-Propylbenzene	**45**	25	ug/m3	TO-15	
1,3,5-Trimethylbenzene	**39**	25	ug/m3	TO-15	
tert-Butylbenzene	**41**	28	ug/m3	TO-15	
1,2,4-Trimethylbenzene	**260**	25	ug/m3	TO-15	
sec-Butylbenzene	**34**	28	ug/m3	TO-15	
p-Isopropyltoluene	**69**	28	ug/m3	TO-15	
n-Butylbenzene	**41**	28	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-20-15, P913cc** Laboratory ID: **E404099-08**

Analyte	Result	Reporting Limit	Units	Method	Notes
Vinyl chloride	**85000**	1600	ug/m3	TO-15	

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Sample ID: **SAIA-SB/SG-20-15, P913cc** Laboratory ID: **E404099-08**

Analyte	Result	Reporting Limit	Units	Method	Notes
Chloroethane	**8800**	3300	ug/m3	TO-15	
1,1-Dichloroethene	**9400**	2500	ug/m3	TO-15	
trans-1,2-Dichloroethene	**19000**	5000	ug/m3	TO-15	
1,1-Dichloroethane	**20000**	5100	ug/m3	TO-15	
cis-1,2-Dichloroethene	**3000000**	50000	ug/m3	TO-15	QL-1H
1,2-Dichloroethane (EDC)	**440**	21	ug/m3	TO-15	
Benzene	**910**	16	ug/m3	TO-15	
Trichloroethene	**7700**	3400	ug/m3	TO-15	
Toluene	**740**	19	ug/m3	TO-15	
Tetrachloroethene	**440**	34	ug/m3	TO-15	
m,p-Xylene	**240**	44	ug/m3	TO-15	
Isopropylbenzene (Cumene)	**32**	25	ug/m3	TO-15	
n-Propylbenzene	**36**	25	ug/m3	TO-15	
1,3,5-Trimethylbenzene	**32**	25	ug/m3	TO-15	
1,2,4-Trimethylbenzene	**180**	25	ug/m3	TO-15	
sec-Butylbenzene	**31**	28	ug/m3	TO-15	
p-Isopropyltoluene	**58**	28	ug/m3	TO-15	
n-Butylbenzene	**37**	28	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-20-25, P530cc** Laboratory ID: **E404099-09**

Analyte	Result	Reporting Limit	Units	Method	Notes
Vinyl chloride	**98000**	1600	ug/m3	TO-15	
Chloroethane	**19000**	3300	ug/m3	TO-15	
1,1-Dichloroethene	**55000**	2500	ug/m3	TO-15	
trans-1,2-Dichloroethene	**90000**	5000	ug/m3	TO-15	
1,1-Dichloroethane	**5900**	41	ug/m3	TO-15	
cis-1,2-Dichloroethene	**23000000**	500000	ug/m3	TO-15	QL-1H
Benzene	**430**	16	ug/m3	TO-15	
Trichloroethene	**270000**	3400	ug/m3	TO-15	
Toluene	**240**	19	ug/m3	TO-15	
Tetrachloroethene	**140**	34	ug/m3	TO-15	
Ethylbenzene	**94**	22	ug/m3	TO-15	
m,p-Xylene	**290**	44	ug/m3	TO-15	
o-Xylene	**140**	22	ug/m3	TO-15	
Isopropylbenzene (Cumene)	**35**	25	ug/m3	TO-15	
n-Propylbenzene	**41**	25	ug/m3	TO-15	
1,3,5-Trimethylbenzene	**35**	25	ug/m3	TO-15	
tert-Butylbenzene	**38**	28	ug/m3	TO-15	

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Sample ID: **SAIA-SB/SG-20-25, P530cc** Laboratory ID: **E404099-09**

Analyte	Result	Reporting Limit	Units	Method	Notes
1,2,4-Trimethylbenzene	**280**	25	ug/m3	TO-15	
sec-Butylbenzene	**44**	28	ug/m3	TO-15	
p-Isopropyltoluene	**74**	28	ug/m3	TO-15	
n-Butylbenzene	**52**	28	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-20-35, P578cc** Laboratory ID: **E405001-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
Vinyl chloride	**80000**	3200	ug/m3	TO-15	
Chloroethane	**730**	27	ug/m3	TO-15	
1,1-Dichloroethene	**20000**	5000	ug/m3	TO-15	
trans-1,2-Dichloroethene	**93000**	10000	ug/m3	TO-15	
1,1-Dichloroethane	**62000**	10000	ug/m3	TO-15	
cis-1,2-Dichloroethene	**5200000**	100000	ug/m3	TO-15	
1,2-Dichloroethane (EDC)	**230**	21	ug/m3	TO-15	
Benzene	**310**	16	ug/m3	TO-15	
Trichloroethene	**4100000**	68000	ug/m3	TO-15	
Toluene	**360**	19	ug/m3	TO-15	
Tetrachloroethene	**2000**	34	ug/m3	TO-15	
Ethylbenzene	**110**	22	ug/m3	TO-15	
m,p-Xylene	**91**	44	ug/m3	TO-15	
o-Xylene	**110**	22	ug/m3	TO-15	
Isopropylbenzene (Cumene)	**90**	25	ug/m3	TO-15	
n-Propylbenzene	**74**	25	ug/m3	TO-15	
1,3,5-Trimethylbenzene	**91**	25	ug/m3	TO-15	
1,2,4-Trimethylbenzene	**38**	25	ug/m3	TO-15	
sec-Butylbenzene	**120**	28	ug/m3	TO-15	
n-Butylbenzene	**99**	28	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-40-5, P816cc** Laboratory ID: **E405001-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**410**	40	ug/m3	TO-15	
Trichloroethene	**200**	27	ug/m3	TO-15	
Tetrachloroethene	**240**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-40-15, P913cc** Laboratory ID: **E405001-03**

Analyte	Result	Reporting Limit	Units	Method	Notes

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Sample ID: **SAIA-SB/SG-40-15, P913cc** Laboratory ID: **E405001-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**340**	40	ug/m3	TO-15	
Benzene	**23**	16	ug/m3	TO-15	
Trichloroethene	**140**	27	ug/m3	TO-15	
Tetrachloroethene	**330**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-40-25, P530cc** Laboratory ID: **E405001-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**200**	40	ug/m3	TO-15	
Trichloroethene	**380**	27	ug/m3	TO-15	
Tetrachloroethene	**1200**	34	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-40-35, P578cc** Laboratory ID: **E405001-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
trans-1,2-Dichloroethene	**96**	40	ug/m3	TO-15	
cis-1,2-Dichloroethene	**900**	40	ug/m3	TO-15	
Trichloroethene	**430**	27	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-40-35 Rep, P628cc** Laboratory ID: **E405001-06**

Analyte	Result	Reporting Limit	Units	Method	Notes
trans-1,2-Dichloroethene	**88**	40	ug/m3	TO-15	
cis-1,2-Dichloroethene	**730**	40	ug/m3	TO-15	
Trichloroethene	**320**	27	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-41-5, P816cc** Laboratory ID: **E405001-07**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**51**	27	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-41-15, P913cc** Laboratory ID: **E405001-08**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**160**	40	ug/m3	TO-15	
Trichloroethene	**94**	27	ug/m3	TO-15	
Tetrachloroethene	**45**	34	ug/m3	TO-15	

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Sample ID: **SAIA-SB/SG-41-25, P530cc** Laboratory ID: **E405001-09**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**60**	40	ug/m3	TO-15	
Trichloroethene	**34**	27	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-41-35, P578cc** Laboratory ID: **E405001-10**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**69**	40	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-43-5, P816cc** Laboratory ID: **E405001-11**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**62**	40	ug/m3	TO-15	
Trichloroethene	**55**	27	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-43-15, P913cc** Laboratory ID: **E405007-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SAIA-SB/SG-43-25, P530cc** Laboratory ID: **E405007-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**60**	40	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-43-35, P578cc** Laboratory ID: **E405007-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SAIA-SB/SG-43-35 Rep, P628cc** Laboratory ID: **E405007-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SAIA-SB/SG-42-5, P816cc** Laboratory ID: **E405007-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
cis-1,2-Dichloroethene	**190**	40	ug/m3	TO-15	
Benzene	**21**	16	ug/m3	TO-15	

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Sample ID: **SAIA-SB/SG-42-5, P816cc** Laboratory ID: **E405007-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
Trichloroethene	**53**	27	ug/m3	TO-15	

Sample ID: **SAIA-SB/SG-42-15, P913cc** Laboratory ID: **E405007-06**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SAIA-SB/SG-42-25, P530cc** Laboratory ID: **E405007-07**

Analyte	Result	Reporting Limit	Units	Method	Notes
No Detections Reported					

Sample ID: **SAIA-SB/SG-42-35, P578cc** Laboratory ID: **E405007-08**

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**17**	16	ug/m3	TO-15	
p-Isopropyltoluene	**33**	28	ug/m3	TO-15	

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Volatile Organic Compounds by H&P Method TO-15M SV

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Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-23-5, 1PV, P433cc (E404066-01) Vapor	**Sampled: 21-Apr-14**		**Received: 21-Apr-14**						
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42104	21-Apr-14	21-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**260**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**58**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-23-5, 1PV, P433cc (E404066-01) Vapor	**Sampled: 21-Apr-14**		**Received: 21-Apr-14**						
Naphthalene	ND	27	ug/m3	1	ED42104	21-Apr-14	21-Apr-14	TO-15	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*99.4 %*	*67-141*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*96.3 %*	*75-125*		*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*90.7 %*	*56-127*		*"*	*"*	*"*	*"*	
SAIA-SB/SG-23-5, 3PV, P1299cc (E404066-02) Vapor	**Sampled: 21-Apr-14**		**Received: 21-Apr-14**						
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42104	21-Apr-14	21-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**260**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**63**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-23-5, 3PV, P1299cc (E404066-02) Vapor	**Sampled: 21-Apr-14**	**Received: 21-Apr-14**							
n-Propylbenzene	ND	25	ug/m3	1	ED42104	21-Apr-14	21-Apr-14	TO-15	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*89.9 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.6 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-23-5, 10PV, P4330cc (E404066-03) Vapor	**Sampled: 21-Apr-14**	**Received: 21-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42104	21-Apr-14	21-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**280**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-23-5, 10PV, P4330cc (E404066-03) Vapor	**Sampled: 21-Apr-14**		**Received: 21-Apr-14**						
1,1,2-Trichloroethane	ND	28	ug/m3	1	ED42104	21-Apr-14	21-Apr-14	TO-15	
Tetrachloroethene	**72**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*67-141*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.4 %*	*56-127*		"	"	"	"	
SAIA-SB/SG-23-15, 1PV, P481cc (E404066-04) Vapor	**Sampled: 21-Apr-14**		**Received: 21-Apr-14**						
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42104	21-Apr-14	21-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-23-15, 1PV, P481cc (E404066-04) Vapor	**Sampled: 21-Apr-14**		**Received: 21-Apr-14**						
1,1,1-Trichloroethane	ND	28	ug/m3	1	ED42104	21-Apr-14	21-Apr-14	TO-15	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**25**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**420**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**100**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.6 %*		*56-127*	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-23-15, 3PV, P1444cc (E404066-05) Vapor	**Sampled: 21-Apr-14**		**Received: 21-Apr-14**						
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42104	21-Apr-14	21-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**440**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**91**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-23-15, 3PV, P1444cc (E404066-05) Vapor	**Sampled: 21-Apr-14**	**Received: 21-Apr-14**							
Naphthalene	ND	27	ug/m3	1	ED42104	21-Apr-14	21-Apr-14	TO-15	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*90.0 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*100 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.4 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-23-15, 10PV, P4814cc (E404066-06) Vapor	**Sampled: 21-Apr-14**	**Received: 21-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42104	21-Apr-14	21-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**440**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**88**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-23-15, 10PV, P4814cc (E404066-06) Vapor Sampled: 21-Apr-14 Received: 21-Apr-14									
n-Propylbenzene	ND	25	ug/m3	1	ED42104	21-Apr-14	21-Apr-14	TO-15	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*95.6 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*95.9 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.5 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-23-25, 1PV, P530cc (E404066-07) Vapor Sampled: 21-Apr-14 Received: 21-Apr-14									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42104	21-Apr-14	21-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**47**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**900**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-23-25, 1PV, P530cc (E404066-07) Vapor	**Sampled: 21-Apr-14**		**Received: 21-Apr-14**						
1,1,2-Trichloroethane	ND	28	ug/m3	1	ED42104	21-Apr-14	21-Apr-14	TO-15	
Tetrachloroethene	**69**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*97.1 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*100 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.0 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-23-35, 1PV, P578cc (E404066-08) Vapor	**Sampled: 21-Apr-14**		**Received: 21-Apr-14**						
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42104	21-Apr-14	21-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**58**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-23-35, 1PV, P578cc (E404066-08) Vapor	**Sampled: 21-Apr-14**		**Received: 21-Apr-14**						
1,1,1-Trichloroethane	ND	28	ug/m3	1	ED42104	21-Apr-14	21-Apr-14	TO-15	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**1500**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**110**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*92.1 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*95.8 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*78.5 %*		*56-127*	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-23-25, 3PV, P1589cc (E404066-09) Vapor	**Sampled: 21-Apr-14**		**Received: 21-Apr-14**						
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42104	21-Apr-14	21-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**43**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**320**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**55**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**89**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-23-25, 3PV, P1589cc (E404066-09) Vapor	**Sampled: 21-Apr-14**		**Received: 21-Apr-14**						
Naphthalene	ND	27	ug/m3	1	ED42104	21-Apr-14	21-Apr-14	TO-15	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*67-141*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*96.8 %*	*75-125*		*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*83.5 %*	*56-127*		*"*	*"*	*"*	*"*	
SAIA-SB/SG-23-35, 3PV, P1734cc (E404066-10) Vapor	**Sampled: 21-Apr-14**		**Received: 21-Apr-14**						
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42104	21-Apr-14	21-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**55**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**1500**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**82**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-23-35, 3PV, P1734cc (E404066-10) Vapor	**Sampled: 21-Apr-14**	**Received: 21-Apr-14**							
n-Propylbenzene	ND	25	ug/m3	1	ED42104	21-Apr-14	21-Apr-14	TO-15	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*92.1 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.1 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-23-25, 10PV, P5298cc (E404066-11) Vapor	**Sampled: 21-Apr-14**	**Received: 21-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42104	21-Apr-14	21-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**160**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**28**	19	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-23-25, 10PV, P5298cc (E404066-11) Vapor Sampled: 21-Apr-14 Received: 21-Apr-14									
1,1,2-Trichloroethane	ND	28	ug/m3	1	ED42104	21-Apr-14	21-Apr-14	TO-15	
Tetrachloroethene	**47**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*105 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*99.4 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.4 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-23-35, 10PV, P5782cc (E404066-12) Vapor Sampled: 21-Apr-14 Received: 21-Apr-14									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42104	21-Apr-14	21-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**58**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	

H&P Mobile
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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-23-35, 10PV, P5782cc (E404066-12) Vapor	**Sampled: 21-Apr-14**	**Received: 21-Apr-14**							
1,1,1-Trichloroethane	ND	28	ug/m3	1	ED42104	21-Apr-14	21-Apr-14	TO-15	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**1500**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**75**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*102 %*		*67-141*	*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*99.3 %*		*75-125*	*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*91.7 %*		*56-127*	*"*	*"*	*"*	*"*	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-39-5, P816cc (E404070-01) Vapor	**Sampled: 22-Apr-14**	**Received: 22-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42206	22-Apr-14	22-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-39-5, P816cc (E404070-01) Vapor Sampled: 22-Apr-14 Received: 22-Apr-14									
Naphthalene	ND	27	ug/m3	1	ED42206	22-Apr-14	22-Apr-14	TO-15	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*97.5 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*106 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.6 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-39-15, P913cc (E404070-02) Vapor Sampled: 22-Apr-14 Received: 22-Apr-14									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42206	22-Apr-14	22-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-39-15, P913cc (E404070-02) Vapor	**Sampled: 22-Apr-14**	**Received: 22-Apr-14**							
n-Propylbenzene	ND	25	ug/m3	1	ED42206	22-Apr-14	22-Apr-14	TO-15	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*97.2 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*92.7 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.2 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-39-25, P530cc (E404070-03) Vapor	**Sampled: 22-Apr-14**	**Received: 22-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42206	22-Apr-14	22-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**140**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**90**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**78**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**47**	19	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-39-25, P530cc (E404070-03) Vapor	**Sampled: 22-Apr-14**	**Received: 22-Apr-14**							
1,1,2-Trichloroethane	ND	28	ug/m3	1	ED42206	22-Apr-14	22-Apr-14	TO-15	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*110 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*105 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.8 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-39-35, P578cc (E404070-04) Vapor	**Sampled: 22-Apr-14**	**Received: 22-Apr-14**							
1,1-Difluoroethane (LCC)	**92**	27	ug/m3	1	ED42206	22-Apr-14	22-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**76**	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**160**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**1700**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**380**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**34000**	1000	"	25	"	"	"	"	
Chloroform	ND	25	"	1	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-39-35, P578cc (E404070-04) Vapor	**Sampled: 22-Apr-14**	**Received: 22-Apr-14**							
1,1,1-Trichloroethane	ND	28	ug/m3	1	ED42206	22-Apr-14	22-Apr-14	TO-15	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**13000**	680	"	25	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**160**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*94.1 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*108 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*79.0 %*		*56-127*	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-38-5, P816cc (E404070-05) Vapor	**Sampled: 22-Apr-14**	**Received: 22-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42206	22-Apr-14	22-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**46**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-38-5, P816cc (E404070-05) Vapor	**Sampled: 22-Apr-14**	**Received: 22-Apr-14**							
Naphthalene	ND	27	ug/m3	1	ED42206	22-Apr-14	22-Apr-14	TO-15	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*105 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*71.5 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-38-15, P913cc (E404070-06) Vapor	**Sampled: 22-Apr-14**	**Received: 22-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42206	22-Apr-14	22-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**350**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**52**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**330**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**53**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-38-15, P913cc (E404070-06) Vapor	**Sampled: 22-Apr-14**	**Received: 22-Apr-14**							
n-Propylbenzene	ND	25	ug/m3	1	ED42206	22-Apr-14	22-Apr-14	TO-15	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*95.7 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*100 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*70.9 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-38-15 Rep, P963cc (E404070-07) Vapor	**Sampled: 22-Apr-14**	**Received: 22-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42206	22-Apr-14	22-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**330**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**49**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**270**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**37**	19	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-38-15 Rep, P963cc (E404070-07) Vapor	**Sampled: 22-Apr-14**	**Received: 22-Apr-14**							
1,1,2-Trichloroethane	ND	28	ug/m3	1	ED42206	22-Apr-14	22-Apr-14	TO-15	
Tetrachloroethene	**57**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*94.6 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*89.3 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*77.5 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-38-25, P530cc (E404070-08) Vapor	**Sampled: 22-Apr-14**	**Received: 22-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42206	22-Apr-14	22-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**510**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-38-25, P530cc (E404070-08) Vapor	**Sampled: 22-Apr-14**	**Received: 22-Apr-14**							
1,1,1-Trichloroethane	ND	28	ug/m3	1	ED42206	22-Apr-14	22-Apr-14	TO-15	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**55**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**200**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**38**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	**47**	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	**74**	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*67-141*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*98.1 %*	*75-125*		*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*79.5 %*	*56-127*		*"*	*"*	*"*	*"*	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-38-35, P578cc (E404070-09) Vapor	**Sampled: 22-Apr-14**	**Received: 22-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42206	22-Apr-14	22-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**52000**	3200	"	250	"	"	"	"	
Bromomethane	ND	39	"	1	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**4400**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	10000	"	250	"	"	"	"	
1,1-Dichloroethane	**45000**	10000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**1100000**	10000	"	"	"	"	"	"	
Chloroform	**44**	25	"	1	"	"	"	"	
1,1,1-Trichloroethane	**120**	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	**65**	21	"	"	"	"	"	"	
Benzene	**230**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**940000**	6800	"	250	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**180**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**3100**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	**25**	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	**190**	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**190**	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	**300**	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-38-35, P578cc (E404070-09) Vapor	**Sampled: 22-Apr-14**	**Received: 22-Apr-14**							
Naphthalene	ND	27	ug/m3	1	ED42206	22-Apr-14	22-Apr-14	TO-15	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*67-141*		"	"	"	"	
Surrogate: Toluene-d8		*99.6 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*67.4 %*	*56-127*		"	"	"	"	
SAIA-SB/SG-37-5, P816cc (E404070-10) Vapor	**Sampled: 22-Apr-14**	**Received: 22-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42206	22-Apr-14	22-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**380**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**400**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**45**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-37-5, P816cc (E404070-10) Vapor	**Sampled: 22-Apr-14**	**Received: 22-Apr-14**							
n-Propylbenzene	ND	25	ug/m3	1	ED42206	22-Apr-14	22-Apr-14	TO-15	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*102 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*76.4 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-37-15, P913cc (E404070-11) Vapor	**Sampled: 22-Apr-14**	**Received: 22-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42206	22-Apr-14	22-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**83**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**58**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**160**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**35**	19	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-37-15, P913cc (E404070-11) Vapor Sampled: 22-Apr-14 Received: 22-Apr-14									
1,1,2-Trichloroethane	ND	28	ug/m3	1	ED42206	22-Apr-14	22-Apr-14	TO-15	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*93.2 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.1 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-36-5, P816cc (E404074-01) Vapor Sampled: 23-Apr-14 Received: 23-Apr-14									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42304	23-Apr-14	23-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-36-5, P816cc (E404074-01) Vapor	**Sampled: 23-Apr-14**	**Received: 23-Apr-14**							
1,1,1-Trichloroethane	ND	28	ug/m3	1	ED42304	23-Apr-14	23-Apr-14	TO-15	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*95.5 %*		*67-141*	*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*90.1 %*		*75-125*	*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*87.5 %*		*56-127*	*"*	*"*	*"*	*"*	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-36-15, P913cc (E404074-02) Vapor	**Sampled: 23-Apr-14**	**Received: 23-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42304	23-Apr-14	23-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**21**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-36-15, P913cc (E404074-02) Vapor	**Sampled: 23-Apr-14**	**Received: 23-Apr-14**							
Naphthalene	ND	27	ug/m3	1	ED42304	23-Apr-14	23-Apr-14	TO-15	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*93.5 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.8 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-36-25, P530cc (E404074-03) Vapor	**Sampled: 23-Apr-14**	**Received: 23-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42304	23-Apr-14	23-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-36-25, P530cc (E404074-03) Vapor	**Sampled: 23-Apr-14**	**Received: 23-Apr-14**							
n-Propylbenzene	ND	25	ug/m3	1	ED42304	23-Apr-14	23-Apr-14	TO-15	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*98.4 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*92.8 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.3 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-36-35, P578cc (E404074-04) Vapor	**Sampled: 23-Apr-14**	**Received: 23-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42304	23-Apr-14	23-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**40**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-36-35, P578cc (E404074-04) Vapor Sampled: 23-Apr-14 Received: 23-Apr-14									
1,1,2-Trichloroethane	ND	28	ug/m3	1	ED42304	23-Apr-14	23-Apr-14	TO-15	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*97.6 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-24-5, P816cc (E404074-05) Vapor Sampled: 23-Apr-14 Received: 23-Apr-14									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42304	23-Apr-14	23-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	**180**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**170**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-24-5, P816cc (E404074-05) Vapor	**Sampled: 23-Apr-14**	**Received: 23-Apr-14**							
1,1,1-Trichloroethane	**50**	28	ug/m3	1	ED42304	23-Apr-14	23-Apr-14	TO-15	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**920**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**93**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*101 %*		*67-141*	*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*90.9 %*		*75-125*	*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*103 %*		*56-127*	*"*	*"*	*"*	*"*	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-24-15, P913cc (E404074-06) Vapor	**Sampled: 23-Apr-14**	**Received: 23-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42304	23-Apr-14	23-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**81**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**120**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**360**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**3900**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	**56**	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**19**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**19000**	270	"	10	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**93**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-24-15, P913cc (E404074-06) Vapor	**Sampled: 23-Apr-14**	**Received: 23-Apr-14**							
Naphthalene	ND	27	ug/m3	1	ED42304	23-Apr-14	23-Apr-14	TO-15	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*96.2 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*93.0 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-24-25, P530cc (E404074-07) Vapor	**Sampled: 23-Apr-14**	**Received: 23-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42304	23-Apr-14	23-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**110**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	**43**	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**45**	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**1200**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**5500**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**44**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**760**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	**40**	22	"	"	"	"	"	"	
m,p-Xylene	**51**	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-24-25, P530cc (E404074-07) Vapor	**Sampled: 23-Apr-14**	**Received: 23-Apr-14**							
n-Propylbenzene	ND	25	ug/m3	1	ED42304	23-Apr-14	23-Apr-14	TO-15	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*104 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*87.3 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.2 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-24-35, P578cc (E404074-08) Vapor	**Sampled: 23-Apr-14**	**Received: 23-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42304	23-Apr-14	23-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**17000**	13	"	"	"	"	"	"	E
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**35000**	20	"	"	"	"	"	"	E
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**72000**	40	"	"	"	"	"	"	E
1,1-Dichloroethane	**53000**	41	"	"	"	"	"	"	E
cis-1,2-Dichloroethene	**420000**	20000	"	500	"	"	"	"	
Chloroform	**120**	25	"	1	"	"	"	"	
1,1,1-Trichloroethane	**610**	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**840**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**980000**	14000	"	500	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**63**	19	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-24-35, P578cc (E404074-08) Vapor	**Sampled: 23-Apr-14**	**Received: 23-Apr-14**							
1,1,2-Trichloroethane	ND	28	ug/m3	1	ED42304	23-Apr-14	23-Apr-14	TO-15	
Tetrachloroethene	**950**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	**93**	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	**24**	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	**50**	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*110 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*81.4 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.0 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-26-5, P816cc (E404074-09) Vapor	**Sampled: 23-Apr-14**	**Received: 23-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42304	23-Apr-14	23-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**290**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-26-5, P816cc (E404074-09) Vapor	**Sampled: 23-Apr-14**	**Received: 23-Apr-14**							
1,1,1-Trichloroethane	ND	28	ug/m3	1	ED42304	23-Apr-14	23-Apr-14	TO-15	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**41**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**950**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**65**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	**770**	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	**65**	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*96.8 %*		*67-141*	*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*96.3 %*		*75-125*	*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*90.1 %*		*56-127*	*"*	*"*	*"*	*"*	

H&P Mobile
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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-26-5 Rep, P866cc (E404074-10) Vapor	**Sampled: 23-Apr-14**		**Received: 23-Apr-14**						
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42304	23-Apr-14	23-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**240**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**46**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**740**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**36**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	**770**	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-26-5 Rep, P866cc (E404074-10) Vapor	**Sampled: 23-Apr-14**	**Received: 23-Apr-14**							
Naphthalene	ND	27	ug/m3	1	ED42304	23-Apr-14	23-Apr-14	TO-15	C-Low
1,2,4-Trichlorobenzene	**72**	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*67-141*		"	"	"	"	
Surrogate: Toluene-d8		*91.3 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*56-127*		"	"	"	"	
SAIA-SB/SG-26-15, P913cc (E404074-11) Vapor	**Sampled: 23-Apr-14**	**Received: 23-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42304	23-Apr-14	23-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**230**	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**110**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**240**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**900**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**17000**	800	"	20	"	"	"	"	
Chloroform	ND	25	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**42**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**33000**	550	"	20	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**37**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-26-15, P913cc (E404074-11) Vapor	**Sampled: 23-Apr-14**	**Received: 23-Apr-14**							
n-Propylbenzene	ND	25	ug/m3	1	ED42304	23-Apr-14	23-Apr-14	TO-15	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*96.7 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*93.9 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.8 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-26-25, P530cc (E404080-01) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**6500**	1300	"	100	"	"	"	"	
Bromomethane	ND	39	"	1	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**1100**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**1200**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**4400**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**98000**	4000	"	100	"	"	"	"	
Chloroform	ND	25	"	1	"	"	"	"	
1,1,1-Trichloroethane	**30**	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**71**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**150000**	2700	"	100	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**30**	19	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-26-25, P530cc (E404080-01) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
1,1,2-Trichloroethane	ND	28	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	
Tetrachloroethene	**75**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*101 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*92.6 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.0 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-29-5, P816cc (E404080-02) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**1200**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-29-5, P816cc (E404080-02) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
1,1,1-Trichloroethane	ND	28	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**5700**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*100 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*95.8 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*		*56-127*	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-29-15, P913cc (E404080-03) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**61**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-29-15, P913cc (E404080-03) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
Naphthalene	ND	27	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*106 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*93.8 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-29-25, P530cc (E404080-04) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**13**	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**83**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**170**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**320**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**35**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-29-25, P530cc (E404080-04) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
n-Propylbenzene	ND	25	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*105 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*100 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-29-35, P578cc (E404080-05) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**74**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**530**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**120**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**7600**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**9500**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-29-35, P578cc (E404080-05) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
1,1,2-Trichloroethane	ND	28	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	
Tetrachloroethene	**680**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*103 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*94.6 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-28-5, P816cc (E404080-06) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-28-5, P816cc (E404080-06) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
1,1,1-Trichloroethane	ND	28	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**590**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*94.8 %*		*67-141*	*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*90.4 %*		*75-125*	*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*98.1 %*		*56-127*	*"*	*"*	*"*	*"*	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-28-15, P913cc (E404080-07) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**690**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-28-15, P913cc (E404080-07) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
Naphthalene	ND	27	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*97.4 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*91.6 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.0 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-28-15 Rep, P963cc (E404080-08) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**540**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-28-15 Rep, P963cc (E404080-08) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
n-Propylbenzene	ND	25	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*104 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*95.0 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-28-35, P578cc (E404080-09) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**64**	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**130**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**1600**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**220**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**24000**	400	"	10	"	"	"	"	
Chloroform	ND	25	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**11000**	270	"	10	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	

H&P Mobile
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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-28-35, P578cc (E404080-09) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
1,1,2-Trichloroethane	**50**	28	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	
Tetrachloroethene	**310**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*98.0 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*94.7 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.8 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-31-5, P816cc (E404080-10) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-31-5, P816cc (E404080-10) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
1,1,1-Trichloroethane	ND	28	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**490**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*105 %*		*67-141*	*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*92.0 %*		*75-125*	*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*98.1 %*		*56-127*	*"*	*"*	*"*	*"*	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-31-15, P913cc (E404080-11) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**57**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**750**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	**34**	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-31-15, P913cc (E404080-11) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
Naphthalene	ND	27	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*102 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*92.1 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.9 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-31-25, P530cc (E404080-12) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**170**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**24**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**2300**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**580**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-31-25, P530cc (E404080-12) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
n-Propylbenzene	ND	25	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	**110**	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*95.9 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*92.5 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.2 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-31-35, P578cc (E404080-13) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**110**	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**1600**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**1500**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-31-35, P578cc (E404080-13) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
1,1,2-Trichloroethane	ND	28	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	
Tetrachloroethene	**560**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*98.3 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*92.4 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.9 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-30-5, P816cc (E404080-14) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-30-5, P816cc (E404080-14) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
1,1,1-Trichloroethane	ND	28	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**400**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*111 %*		*67-141*	*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*96.6 %*		*75-125*	*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*91.7 %*		*56-127*	*"*	*"*	*"*	*"*	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-30-15, P913cc (E404080-15) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**590**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-30-15, P913cc (E404080-15) Vapor	**Sampled: 24-Apr-14**	**Received: 24-Apr-14**							
Naphthalene	ND	27	ug/m3	1	ED42401	24-Apr-14	24-Apr-14	TO-15	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*101 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*90.6 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.4 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-30-25, P530cc (E404085-01) Vapor	**Sampled: 25-Apr-14**	**Received: 25-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**240**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**28**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**1300**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**740**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-30-25, P530cc (E404085-01) Vapor	**Sampled: 25-Apr-14**	**Received: 25-Apr-14**							
n-Propylbenzene	ND	25	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*96.4 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*96.5 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.1 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-30-35, P578cc (E404085-02) Vapor	**Sampled: 25-Apr-14**	**Received: 25-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**59**	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**290**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**250**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-30-35, P578cc (E404085-02) Vapor	**Sampled: 25-Apr-14**	**Received: 25-Apr-14**							
1,1,2-Trichloroethane	ND	28	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
Tetrachloroethene	**490**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*94.7 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*99.4 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.8 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-32-5, P816cc (E404085-03) Vapor	**Sampled: 25-Apr-14**	**Received: 25-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-32-5, P816cc (E404085-03) Vapor	**Sampled: 25-Apr-14**	**Received: 25-Apr-14**							
1,1,1-Trichloroethane	ND	28	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**76**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*97.8 %*		*67-141*	*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*95.7 %*		*75-125*	*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*104 %*		*56-127*	*"*	*"*	*"*	*"*	

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2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-32-15, P913cc (E404085-04) Vapor	**Sampled: 25-Apr-14**	**Received: 25-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**150**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**21**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**980**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**230**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-32-15, P913cc (E404085-04) Vapor	**Sampled: 25-Apr-14**	**Received: 25-Apr-14**							
Naphthalene	ND	27	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98.9 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.9 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-32-25, P530cc (E404085-05) Vapor	**Sampled: 25-Apr-14**	**Received: 25-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-32-25, P530cc (E404085-05) Vapor	**Sampled: 25-Apr-14**	**Received: 25-Apr-14**							
n-Propylbenzene	ND	25	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*94.4 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*95.4 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.0 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-32-35, P578cc (E404085-06) Vapor	**Sampled: 25-Apr-14**	**Received: 25-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**47**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**120**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-32-35, P578cc (E404085-06) Vapor	**Sampled: 25-Apr-14**	**Received: 25-Apr-14**							
1,1,2-Trichloroethane	ND	28	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*96.9 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.0 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-33-5, P816cc (E404085-07) Vapor	**Sampled: 25-Apr-14**	**Received: 25-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-33-5, P816cc (E404085-07) Vapor	**Sampled: 25-Apr-14**	**Received: 25-Apr-14**							
1,1,1-Trichloroethane	ND	28	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**470**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*99.2 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*104 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*		*56-127*	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-33-5 Rep, P866cc (E404085-08) Vapor	**Sampled: 25-Apr-14**		**Received: 25-Apr-14**						
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**410**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-33-5 Rep, P866cc (E404085-08) Vapor	**Sampled: 25-Apr-14**	**Received: 25-Apr-14**							
Naphthalene	ND	27	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*94.4 %*	*67-141*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*101 %*	*75-125*		*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*92.0 %*	*56-127*		*"*	*"*	*"*	*"*	
SAIA-SB/SG-33-15, P913cc (E404085-09) Vapor	**Sampled: 25-Apr-14**	**Received: 25-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**190**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	**270**	22	"	"	"	"	"	"	
m,p-Xylene	**120**	44	"	"	"	"	"	"	
o-Xylene	**300**	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	**420**	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-33-15, P913cc (E404085-09) Vapor	**Sampled: 25-Apr-14**	**Received: 25-Apr-14**							
n-Propylbenzene	**320**	25	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
1,3,5-Trimethylbenzene	**420**	25	"	"	"	"	"	"	
tert-Butylbenzene	**400**	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**2700**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	**1300**	28	"	"	"	"	"	"	
p-Isopropyltoluene	**940**	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	**260**	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*100 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.4 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-33-25, P530cc (E404085-10) Vapor	**Sampled: 25-Apr-14**	**Received: 25-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**35**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**39**	19	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-33-25, P530cc (E404085-10) Vapor	**Sampled: 25-Apr-14**	**Received: 25-Apr-14**							
1,1,2-Trichloroethane	ND	28	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	**170**	22	"	"	"	"	"	"	
m,p-Xylene	**140**	44	"	"	"	"	"	"	
o-Xylene	**46**	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	**230**	25	"	"	"	"	"	"	
n-Propylbenzene	**110**	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**230**	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**600**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	**650**	28	"	"	"	"	"	"	
p-Isopropyltoluene	**3400**	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	**33**	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*88.3 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.6 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-33-35, P578cc (E404085-11) Vapor	**Sampled: 25-Apr-14**	**Received: 25-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**51**	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**630**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-33-35, P578cc (E404085-11) Vapor	**Sampled: 25-Apr-14**	**Received: 25-Apr-14**							
1,1,1-Trichloroethane	ND	28	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**29**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**1900**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*88.7 %*		*67-141*	*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*97.6 %*		*75-125*	*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*103 %*		*56-127*	*"*	*"*	*"*	*"*	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-34-5, P816cc (E404085-12) Vapor	**Sampled: 25-Apr-14**	**Received: 25-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-34-5, P816cc (E404085-12) Vapor Sampled: 25-Apr-14 Received: 25-Apr-14									
Naphthalene	ND	27	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*88.8 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*95.5 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-34-15, P913cc (E404085-13) Vapor Sampled: 25-Apr-14 Received: 25-Apr-14									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-34-15, P913cc (E404085-13) Vapor	**Sampled: 25-Apr-14**	**Received: 25-Apr-14**							
n-Propylbenzene	ND	25	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*92.3 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*97.9 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-34-25, P530cc (E404085-14) Vapor	**Sampled: 25-Apr-14**	**Received: 25-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-34-25, P530cc (E404085-14) Vapor	**Sampled: 25-Apr-14**	**Received: 25-Apr-14**							
1,1,2-Trichloroethane	ND	28	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*89.7 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.5 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-34-35, P578cc (E404085-15) Vapor	**Sampled: 25-Apr-14**	**Received: 25-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-34-35, P578cc (E404085-15) Vapor	**Sampled: 25-Apr-14**	**Received: 25-Apr-14**							
1,1,1-Trichloroethane	ND	28	ug/m3	1	ED42501	25-Apr-14	25-Apr-14	TO-15	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*91.0 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*98.3 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.0 %*		*56-127*	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-35-5, P816cc (E404090-01) Vapor	**Sampled: 28-Apr-14**	**Received: 28-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42803	28-Apr-14	28-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-35-5, P816cc (E404090-01) Vapor Sampled: 28-Apr-14 Received: 28-Apr-14									
Naphthalene	ND	27	ug/m3	1	ED42803	28-Apr-14	28-Apr-14	TO-15	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*103 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*86.6 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-35-15, P913cc (E404090-02) Vapor Sampled: 28-Apr-14 Received: 28-Apr-14									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42803	28-Apr-14	28-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-35-15, P913cc (E404090-02) Vapor	**Sampled: 28-Apr-14**	**Received: 28-Apr-14**							
n-Propylbenzene	ND	25	ug/m3	1	ED42803	28-Apr-14	28-Apr-14	TO-15	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*99.1 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*80.1 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.4 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-35-25, P530cc (E404090-03) Vapor	**Sampled: 28-Apr-14**	**Received: 28-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42803	28-Apr-14	28-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**51**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**79**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**530**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**34**	19	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-35-25, P530cc (E404090-03) Vapor	**Sampled: 28-Apr-14**	**Received: 28-Apr-14**							
1,1,2-Trichloroethane	ND	28	ug/m3	1	ED42803	28-Apr-14	28-Apr-14	TO-15	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98.9 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*87.4 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.1 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-35-35, P578cc (E404090-04) Vapor	**Sampled: 28-Apr-14**	**Received: 28-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42803	28-Apr-14	28-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-35-35, P578cc (E404090-04) Vapor	**Sampled: 28-Apr-14**	**Received: 28-Apr-14**							
1,1,1-Trichloroethane	ND	28	ug/m3	1	ED42803	28-Apr-14	28-Apr-14	TO-15	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*97.1 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*87.3 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*		*56-127*	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-25-5, P816cc (E404090-05) Vapor	**Sampled: 28-Apr-14**	**Received: 28-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42803	28-Apr-14	28-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**3000**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-25-5, P816cc (E404090-05) Vapor	**Sampled: 28-Apr-14**	**Received: 28-Apr-14**							
Naphthalene	ND	27	ug/m3	1	ED42803	28-Apr-14	28-Apr-14	TO-15	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*67-141*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*92.8 %*	*75-125*		*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*97.9 %*	*56-127*		*"*	*"*	*"*	*"*	
SAIA-SB/SG-25-15, P913cc (E404090-06) Vapor	**Sampled: 28-Apr-14**	**Received: 28-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42803	28-Apr-14	28-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**20**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**4100**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-25-15, P913cc (E404090-06) Vapor	**Sampled: 28-Apr-14**	**Received: 28-Apr-14**							
n-Propylbenzene	ND	25	ug/m3	1	ED42803	28-Apr-14	28-Apr-14	TO-15	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*103 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*90.9 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.3 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-25-15 Rep, P963cc (E404090-07) Vapor	**Sampled: 28-Apr-14**	**Received: 28-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42803	28-Apr-14	28-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**26**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-25-15 Rep, P963cc (E404090-07) Vapor	**Sampled: 28-Apr-14**	**Received: 28-Apr-14**							
1,1,2-Trichloroethane	ND	28	ug/m3	1	ED42803	28-Apr-14	28-Apr-14	TO-15	
Tetrachloroethene	**3400**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*102 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*89.3 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-25-35, P578cc (E404090-08) Vapor	**Sampled: 28-Apr-14**	**Received: 28-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42803	28-Apr-14	28-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**26**	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**100**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**690**	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**6700**	800	"	20	"	"	"	"	
Chloroform	ND	25	"	1	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-25-35, P578cc (E404090-08) Vapor	**Sampled: 28-Apr-14**	**Received: 28-Apr-14**							
1,1,1-Trichloroethane	ND	28	ug/m3	1	ED42803	28-Apr-14	28-Apr-14	TO-15	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**25000**	550	"	20	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**6400**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*97.0 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*89.2 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.0 %*		*56-127*	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-25-25, P530cc (E404090-09) Vapor	**Sampled: 28-Apr-14**	**Received: 28-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42803	28-Apr-14	28-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	**58**	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**81**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**28**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**620**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**29**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**580**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-25-25, P530cc (E404090-09) Vapor	**Sampled: 28-Apr-14**	**Received: 28-Apr-14**							
Naphthalene	ND	27	ug/m3	1	ED42803	28-Apr-14	28-Apr-14	TO-15	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*96.0 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.1 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-27-5, P816cc (E404090-10) Vapor	**Sampled: 28-Apr-14**	**Received: 28-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42803	28-Apr-14	28-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**57**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**29**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**970**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**20**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**53000**	340	"	10	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	1	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-27-5, P816cc (E404090-10) Vapor	**Sampled: 28-Apr-14**	**Received: 28-Apr-14**							
n-Propylbenzene	ND	25	ug/m3	1	ED42803	28-Apr-14	28-Apr-14	TO-15	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*105 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*85.9 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-27-15, P913cc (E404090-11) Vapor	**Sampled: 28-Apr-14**	**Received: 28-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42803	28-Apr-14	28-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**100**	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**340**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**25**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**5300**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-27-15, P913cc (E404090-11) Vapor	**Sampled: 28-Apr-14**	**Received: 28-Apr-14**							
1,1,2-Trichloroethane	ND	28	ug/m3	1	ED42803	28-Apr-14	28-Apr-14	TO-15	
Tetrachloroethene	**30000**	340	"	10	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	1	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*102 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*91.8 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.2 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-27-25, P530cc (E404090-12) Vapor	**Sampled: 28-Apr-14**	**Received: 28-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42803	28-Apr-14	28-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**460**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**220**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**4000**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-27-25, P530cc (E404090-12) Vapor	**Sampled: 28-Apr-14**	**Received: 28-Apr-14**							
1,1,1-Trichloroethane	ND	28	ug/m3	1	ED42803	28-Apr-14	28-Apr-14	TO-15	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**49**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**23000**	270	"	10	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**15000**	340	"	10	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	1	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*97.7 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*92.8 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.2 %*		*56-127*	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-27-35, P578cc (E404095-01) Vapor	**Sampled: 29-Apr-14**	**Received: 29-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42902	29-Apr-14	29-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**99**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**1200**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**58**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**14000**	400	"	10	"	"	"	"	
Chloroform	ND	25	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**10000**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**210**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-27-35, P578cc (E404095-01) Vapor	**Sampled: 29-Apr-14**	**Received: 29-Apr-14**							
Naphthalene	ND	27	ug/m3	1	ED42902	29-Apr-14	29-Apr-14	TO-15	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*94.1 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.1 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-19-5, P816cc (E404095-02) Vapor	**Sampled: 29-Apr-14**	**Received: 29-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42902	29-Apr-14	29-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**370**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**2000**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**17000**	400	"	10	"	"	"	"	
Chloroform	**85**	25	"	1	"	"	"	"	
1,1,1-Trichloroethane	**2400**	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**30000**	270	"	10	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**1100**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-19-5, P816cc (E404095-02) Vapor	**Sampled: 29-Apr-14**	**Received: 29-Apr-14**							
n-Propylbenzene	ND	25	ug/m3	1	ED42902	29-Apr-14	29-Apr-14	TO-15	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*97.9 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.5 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-19-25, P530cc (E404095-03) Vapor	**Sampled: 29-Apr-14**	**Received: 29-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42902	29-Apr-14	29-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**810000**	16000	"	1250	"	"	"	"	
Bromomethane	ND	39	"	1	"	"	"	"	
Chloroethane	**440**	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**660**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**6400**	5000	"	125	"	"	"	"	
1,1-Dichloroethane	**18000**	5100	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**22000**	5000	"	"	"	"	"	"	
Chloroform	ND	25	"	1	"	"	"	"	
1,1,1-Trichloroethane	**150**	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	**110**	21	"	"	"	"	"	"	
Benzene	**600**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**230000**	3400	"	125	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**1900**	19	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-19-25, P530cc (E404095-03) Vapor	**Sampled: 29-Apr-14**	**Received: 29-Apr-14**							
1,1,2-Trichloroethane	ND	28	ug/m3	1	ED42902	29-Apr-14	29-Apr-14	TO-15	
Tetrachloroethene	**410**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	**270**	22	"	"	"	"	"	"	
m,p-Xylene	**290**	44	"	"	"	"	"	"	
o-Xylene	**490**	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	**200**	25	"	"	"	"	"	"	
n-Propylbenzene	**170**	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**200**	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**91**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	**290**	28	"	"	"	"	"	"	
p-Isopropyltoluene	**180**	28	"	"	"	"	"	"	
n-Butylbenzene	**270**	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98.1 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*89.7 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.6 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-19-15, P913cc (E404095-04) Vapor	**Sampled: 29-Apr-14**	**Received: 29-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42902	29-Apr-14	29-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**13000**	2600	"	200	"	"	"	"	
Bromomethane	ND	39	"	1	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**85**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**500**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**1700**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**5300**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-19-15, P913cc (E404095-04) Vapor	**Sampled: 29-Apr-14**	**Received: 29-Apr-14**							
1,1,1-Trichloroethane	**64**	28	ug/m3	1	ED42902	29-Apr-14	29-Apr-14	TO-15	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**350**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**35000**	5500	"	200	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**210**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**1200**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	**100**	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	**150**	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	**43**	25	"	"	"	"	"	"	
n-Propylbenzene	**34**	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**43**	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	**56**	28	"	"	"	"	"	"	
p-Isopropyltoluene	**43**	28	"	"	"	"	"	"	
n-Butylbenzene	**34**	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*105 %*		*67-141*	*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*96.0 %*		*75-125*	*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*83.3 %*		*56-127*	*"*	*"*	*"*	*"*	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-19-35, P578cc (E404095-05) Vapor	**Sampled: 29-Apr-14**	**Received: 29-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42902	29-Apr-14	29-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**38000**	260	"	20	"	"	"	"	
Bromomethane	ND	39	"	1	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**700**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**460**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**820**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**6800**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	**38**	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**98**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**21000**	550	"	20	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**87**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**2200**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	**70**	22	"	"	"	"	"	"	
m,p-Xylene	**63**	44	"	"	"	"	"	"	
o-Xylene	**38**	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-19-35, P578cc (E404095-05) Vapor Sampled: 29-Apr-14 Received: 29-Apr-14									
Naphthalene	ND	27	ug/m3	1	ED42902	29-Apr-14	29-Apr-14	TO-15	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*92.0 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*89.6 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.4 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-22-5, P816cc (E404095-06) Vapor Sampled: 29-Apr-14 Received: 29-Apr-14									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42902	29-Apr-14	29-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**64**	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**86**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**35**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-22-5, P816cc (E404095-06) Vapor	**Sampled: 29-Apr-14**	**Received: 29-Apr-14**							
n-Propylbenzene	ND	25	ug/m3	1	ED42902	29-Apr-14	29-Apr-14	TO-15	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**69**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	**44**	28	"	"	"	"	"	"	
p-Isopropyltoluene	**61**	28	"	"	"	"	"	"	
n-Butylbenzene	**76**	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*103 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*95.6 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.0 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-22-5 Rep, P866cc (E404095-07) Vapor	**Sampled: 29-Apr-14**	**Received: 29-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42902	29-Apr-14	29-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**32**	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**100**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-22-5 Rep, P866cc (E404095-07) Vapor	**Sampled: 29-Apr-14**	**Received: 29-Apr-14**							
1,1,2-Trichloroethane	ND	28	ug/m3	1	ED42902	29-Apr-14	29-Apr-14	TO-15	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**43**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	**46**	28	"	"	"	"	"	"	
n-Butylbenzene	**59**	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*99.3 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*96.0 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.6 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-22-15, P913cc (E404095-08) Vapor	**Sampled: 29-Apr-14**	**Received: 29-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42902	29-Apr-14	29-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-22-15, P913cc (E404095-08) Vapor	**Sampled: 29-Apr-14**	**Received: 29-Apr-14**							
1,1,1-Trichloroethane	ND	28	ug/m3	1	ED42902	29-Apr-14	29-Apr-14	TO-15	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**25**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**180**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**39**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	**40**	28	"	"	"	"	"	"	
n-Butylbenzene	**45**	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*99.2 %*		*67-141*	*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*90.9 %*		*75-125*	*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*89.4 %*		*56-127*	*"*	*"*	*"*	*"*	

H&P Mobile
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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-22-25, P530cc (E404095-09) Vapor	**Sampled: 29-Apr-14**	**Received: 29-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED42902	29-Apr-14	29-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**120**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**120**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**310**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**50**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**43**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**78**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	**43**	28	"	"	"	"	"	"	
p-Isopropyltoluene	**97**	28	"	"	"	"	"	"	
n-Butylbenzene	**110**	28	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-22-25, P530cc (E404095-09) Vapor	**Sampled: 29-Apr-14**	**Received: 29-Apr-14**							
Naphthalene	ND	27	ug/m3	1	ED42902	29-Apr-14	29-Apr-14	TO-15	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*106 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*97.2 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.1 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-22-35, P578cc (E404099-01) Vapor	**Sampled: 30-Apr-14**	**Received: 30-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED43003	30-Apr-14	30-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	**47**	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**90**	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**26**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**190**	40	"	"	"	"	"	"	QL-1H
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**120**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**23**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-22-35, P578cc (E404099-01) Vapor	**Sampled: 30-Apr-14**	**Received: 30-Apr-14**							
n-Propylbenzene	ND	25	ug/m3	1	ED43003	30-Apr-14	30-Apr-14	TO-15	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*92.3 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*94.9 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*79.1 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-22-35 Rep, P628cc (E404099-02) Vapor	**Sampled: 30-Apr-14**	**Received: 30-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED43003	30-Apr-14	30-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	**51**	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**73**	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**40**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**210**	40	"	"	"	"	"	"	QL-1H
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**110**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**20**	19	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-22-35 Rep, P628cc (E404099-02) Vapor	**Sampled: 30-Apr-14**		**Received: 30-Apr-14**						
1,1,2-Trichloroethane	ND	28	ug/m3	1	ED43003	30-Apr-14	30-Apr-14	TO-15	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*67-141*		"	"	"	"	
Surrogate: Toluene-d8		*95.7 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.2 %*	*56-127*		"	"	"	"	
SAIA-SB/SG-21-5, P816cc (E404099-03) Vapor	**Sampled: 30-Apr-14**		**Received: 30-Apr-14**						
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED43003	30-Apr-14	30-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-21-5, P816cc (E404099-03) Vapor	**Sampled: 30-Apr-14**	**Received: 30-Apr-14**							
1,1,1-Trichloroethane	ND	28	ug/m3	1	ED43003	30-Apr-14	30-Apr-14	TO-15	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**160**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**93**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*97.0 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*94.7 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.2 %*		*56-127*	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-21-15, P913cc (E404099-04) Vapor	**Sampled: 30-Apr-14**	**Received: 30-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED43003	30-Apr-14	30-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**150**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**510**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**32000**	1000	"	25	"	"	"	"	QL-1H
Chloroform	ND	25	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**40**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**8500**	680	"	25	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**67**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**570**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-21-15, P913cc (E404099-04) Vapor	**Sampled: 30-Apr-14**	**Received: 30-Apr-14**							
Naphthalene	ND	27	ug/m3	1	ED43003	30-Apr-14	30-Apr-14	TO-15	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*98.0 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*104 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.0 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-21-25, P530cc (E404099-05) Vapor	**Sampled: 30-Apr-14**	**Received: 30-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED43003	30-Apr-14	30-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**1600**	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**1100**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**5400**	1000	"	25	"	"	"	"	
1,1-Dichloroethane	**2200**	41	"	1	"	"	"	"	
cis-1,2-Dichloroethene	**50000**	1000	"	25	"	"	"	"	QL-1H
Chloroform	ND	25	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**120**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**7000**	680	"	25	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**90**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**360**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	**96**	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-21-25, P530cc (E404099-05) Vapor	**Sampled: 30-Apr-14**	**Received: 30-Apr-14**							
n-Propylbenzene	ND	25	ug/m3	1	ED43003	30-Apr-14	30-Apr-14	TO-15	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*98.0 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*91.9 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*79.7 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-21-35, P578cc (E404099-06) Vapor	**Sampled: 30-Apr-14**	**Received: 30-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED43003	30-Apr-14	30-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**4300**	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**1700**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**4700**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**930**	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**52000**	1000	"	25	"	"	"	"	QL-1H
Chloroform	ND	25	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**59**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**21000**	680	"	25	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-21-35, P578cc (E404099-06) Vapor	**Sampled: 30-Apr-14**	**Received: 30-Apr-14**							
1,1,2-Trichloroethane	ND	28	ug/m3	1	ED43003	30-Apr-14	30-Apr-14	TO-15	
Tetrachloroethene	**38**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*101 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*96.5 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.5 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-20-5, P816cc (E404099-07) Vapor	**Sampled: 30-Apr-14**	**Received: 30-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED43003	30-Apr-14	30-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**170000**	1300	"	100	"	"	"	"	
Bromomethane	ND	39	"	1	"	"	"	"	
Chloroethane	**650**	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**710**	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**1700**	40	"	"	"	"	"	"	
1,1-Dichloroethane	**22000**	4100	"	100	"	"	"	"	
cis-1,2-Dichloroethene	**610000**	4000	"	"	"	"	"	"	QL-1H
Chloroform	ND	25	"	1	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-20-5, P816cc (E404099-07) Vapor	**Sampled: 30-Apr-14**	**Received: 30-Apr-14**							
1,1,1-Trichloroethane	**76**	28	ug/m3	1	ED43003	30-Apr-14	30-Apr-14	TO-15	
1,2-Dichloroethane (EDC)	**72**	21	"	"	"	"	"	"	
Benzene	**340**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**17000**	2700	"	100	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**460**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**290**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	**150**	22	"	"	"	"	"	"	
m,p-Xylene	**390**	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	**39**	25	"	"	"	"	"	"	
n-Propylbenzene	**45**	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**39**	25	"	"	"	"	"	"	
tert-Butylbenzene	**41**	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**260**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	**34**	28	"	"	"	"	"	"	
p-Isopropyltoluene	**69**	28	"	"	"	"	"	"	
n-Butylbenzene	**41**	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low

Surrogate: 1,2-Dichloroethane-d4	*100 %*	*67-141*	*"*	*"*	*"*	*"*
Surrogate: Toluene-d8	*101 %*	*75-125*	*"*	*"*	*"*	*"*
Surrogate: 4-Bromofluorobenzene	*69.4 %*	*56-127*	*"*	*"*	*"*	*"*

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-20-15, P913cc (E404099-08) Vapor	**Sampled: 30-Apr-14**	**Received: 30-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED43003	30-Apr-14	30-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**85000**	1600	"	125	"	"	"	"	
Bromomethane	ND	39	"	1	"	"	"	"	
Chloroethane	**8800**	3300	"	125	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	1	"	"	"	"	
1,1-Dichloroethene	**9400**	2500	"	125	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	1	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**19000**	5000	"	125	"	"	"	"	
1,1-Dichloroethane	**20000**	5100	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**3000000**	50000	"	1250	"	"	"	"	QL-1H
Chloroform	ND	25	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	**440**	21	"	"	"	"	"	"	
Benzene	**910**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**7700**	3400	"	125	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**740**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**440**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	**240**	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	**32**	25	"	"	"	"	"	"	
n-Propylbenzene	**36**	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**32**	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**180**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	**31**	28	"	"	"	"	"	"	
p-Isopropyltoluene	**58**	28	"	"	"	"	"	"	
n-Butylbenzene	**37**	28	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-20-15, P913cc (E404099-08) Vapor	**Sampled: 30-Apr-14**	**Received: 30-Apr-14**							
Naphthalene	ND	27	ug/m3	1	ED43003	30-Apr-14	30-Apr-14	TO-15	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*94.7 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*93.4 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*68.1 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-20-25, P530cc (E404099-09) Vapor	**Sampled: 30-Apr-14**	**Received: 30-Apr-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	ED43003	30-Apr-14	30-Apr-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**98000**	1600	"	125	"	"	"	"	
Bromomethane	ND	39	"	1	"	"	"	"	
Chloroethane	**19000**	3300	"	125	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	1	"	"	"	"	
1,1-Dichloroethene	**55000**	2500	"	125	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	1	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**90000**	5000	"	125	"	"	"	"	
1,1-Dichloroethane	**5900**	41	"	1	"	"	"	"	
cis-1,2-Dichloroethene	**23000000**	500000	"	12500	"	"	"	"	QL-1H
Chloroform	ND	25	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**430**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**270000**	3400	"	125	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**240**	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**140**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	**94**	22	"	"	"	"	"	"	
m,p-Xylene	**290**	44	"	"	"	"	"	"	
o-Xylene	**140**	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	**35**	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-20-25, P530cc (E404099-09) Vapor	**Sampled: 30-Apr-14**	**Received: 30-Apr-14**							
n-Propylbenzene	**41**	25	ug/m3	1	ED43003	30-Apr-14	30-Apr-14	TO-15	
1,3,5-Trimethylbenzene	**35**	25	"	"	"	"	"	"	
tert-Butylbenzene	**38**	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**280**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	**44**	28	"	"	"	"	"	"	
p-Isopropyltoluene	**74**	28	"	"	"	"	"	"	
n-Butylbenzene	**52**	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	C-Low
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	C-Low
Surrogate: 1,2-Dichloroethane-d4		*103 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*100 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*76.6 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-20-35, P578cc (E405001-01) Vapor	**Sampled: 01-May-14**	**Received: 01-May-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	EE40101	01-May-14	01-May-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	**80000**	3200	"	250	"	"	"	"	
Bromomethane	ND	39	"	1	"	"	"	"	
Chloroethane	**730**	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	**20000**	5000	"	250	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	1	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**93000**	10000	"	250	"	"	"	"	
1,1-Dichloroethane	**62000**	10000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**5200000**	100000	"	2500	"	"	"	"	
Chloroform	ND	25	"	1	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	**230**	21	"	"	"	"	"	"	
Benzene	**310**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**4100000**	68000	"	2500	"	"	"	"	
1,4-Dioxane	ND	36	"	1	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	**360**	19	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-20-35, P578cc (E405001-01) Vapor Sampled: 01-May-14 Received: 01-May-14									
1,1,2-Trichloroethane	ND	28	ug/m3	1	EE40101	01-May-14	01-May-14	TO-15	
Tetrachloroethene	**2000**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	**110**	22	"	"	"	"	"	"	
m,p-Xylene	**91**	44	"	"	"	"	"	"	
o-Xylene	**110**	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	**90**	25	"	"	"	"	"	"	
n-Propylbenzene	**74**	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**91**	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**38**	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	**120**	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	**99**	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*97.7 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*78.9 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*73.4 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-40-5, P816cc (E405001-02) Vapor Sampled: 01-May-14 Received: 01-May-14									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	EE40101	01-May-14	01-May-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**410**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-40-5, P816cc (E405001-02) Vapor	**Sampled: 01-May-14**	**Received: 01-May-14**							
1,1,1-Trichloroethane	ND	28	ug/m3	1	EE40101	01-May-14	01-May-14	TO-15	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**200**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**240**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98.0 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*96.1 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*		*56-127*	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-40-15, P913cc (E405001-03) Vapor	**Sampled: 01-May-14**	**Received: 01-May-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	EE40101	01-May-14	01-May-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**340**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**23**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**140**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**330**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-40-15, P913cc (E405001-03) Vapor	**Sampled: 01-May-14**	**Received: 01-May-14**							
Naphthalene	ND	27	ug/m3	1	EE40101	01-May-14	01-May-14	TO-15	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*97.8 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*96.6 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.0 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-40-25, P530cc (E405001-04) Vapor	**Sampled: 01-May-14**	**Received: 01-May-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	EE40101	01-May-14	01-May-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**200**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**380**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**1200**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-40-25, P530cc (E405001-04) Vapor	**Sampled: 01-May-14**	**Received: 01-May-14**							
n-Propylbenzene	ND	25	ug/m3	1	EE40101	01-May-14	01-May-14	TO-15	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*105 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*99.8 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.0 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-40-35, P578cc (E405001-05) Vapor	**Sampled: 01-May-14**	**Received: 01-May-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	EE40101	01-May-14	01-May-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**96**	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**900**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**430**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-40-35, P578cc (E405001-05) Vapor	**Sampled: 01-May-14**	**Received: 01-May-14**							
1,1,2-Trichloroethane	ND	28	ug/m3	1	EE40101	01-May-14	01-May-14	TO-15	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*90.4 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*97.5 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.4 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-40-35 Rep, P628cc (E405001-06) Vapor	**Sampled: 01-May-14**	**Received: 01-May-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	EE40101	01-May-14	01-May-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**88**	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**730**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-40-35 Rep, P628cc (E405001-06) Vapor	**Sampled: 01-May-14**		**Received: 01-May-14**						
1,1,1-Trichloroethane	ND	28	ug/m3	1	EE40101	01-May-14	01-May-14	TO-15	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**320**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*67-141*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*88.8 %*	*75-125*		*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*80.8 %*	*56-127*		*"*	*"*	*"*	*"*	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-41-5, P816cc (E405001-07) Vapor	**Sampled: 01-May-14**	**Received: 01-May-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	EE40101	01-May-14	01-May-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**51**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-41-5, P816cc (E405001-07) Vapor Sampled: 01-May-14 Received: 01-May-14									
Naphthalene	ND	27	ug/m3	1	EE40101	01-May-14	01-May-14	TO-15	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*91.5 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.5 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-41-15, P913cc (E405001-08) Vapor Sampled: 01-May-14 Received: 01-May-14									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	EE40101	01-May-14	01-May-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**160**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**94**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	**45**	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-41-15, P913cc (E405001-08) Vapor	**Sampled: 01-May-14**	**Received: 01-May-14**							
n-Propylbenzene	ND	25	ug/m3	1	EE40101	01-May-14	01-May-14	TO-15	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*112 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.9 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-41-25, P530cc (E405001-09) Vapor	**Sampled: 01-May-14**	**Received: 01-May-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	EE40101	01-May-14	01-May-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**60**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**34**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-41-25, P530cc (E405001-09) Vapor	**Sampled: 01-May-14**	**Received: 01-May-14**							
1,1,2-Trichloroethane	ND	28	ug/m3	1	EE40101	01-May-14	01-May-14	TO-15	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*94.3 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*96.4 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.7 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-41-35, P578cc (E405001-10) Vapor	**Sampled: 01-May-14**	**Received: 01-May-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	EE40101	01-May-14	01-May-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**69**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-41-35, P578cc (E405001-10) Vapor	**Sampled: 01-May-14**	**Received: 01-May-14**							
1,1,1-Trichloroethane	ND	28	ug/m3	1	EE40101	01-May-14	01-May-14	TO-15	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*96.8 %*	*67-141*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*92.2 %*	*75-125*		*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*87.9 %*	*56-127*		*"*	*"*	*"*	*"*	

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2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-43-5, P816cc (E405001-11) Vapor	**Sampled: 01-May-14**	**Received: 01-May-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	EE40101	01-May-14	01-May-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**62**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**55**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-43-5, P816cc (E405001-11) Vapor Sampled: 01-May-14 Received: 01-May-14									
Naphthalene	ND	27	ug/m3	1	EE40101	01-May-14	01-May-14	TO-15	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*95.3 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*93.8 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.5 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-43-15, P913cc (E405007-01) Vapor Sampled: 02-May-14 Received: 02-May-14									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	EE40201	02-May-14	02-May-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-43-15, P913cc (E405007-01) Vapor	**Sampled: 02-May-14**	**Received: 02-May-14**							
n-Propylbenzene	ND	25	ug/m3	1	EE40201	02-May-14	02-May-14	TO-15	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*105 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*88.1 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*77.9 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-43-25, P530cc (E405007-02) Vapor	**Sampled: 02-May-14**	**Received: 02-May-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	EE40201	02-May-14	02-May-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**60**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-43-25, P530cc (E405007-02) Vapor	**Sampled: 02-May-14**	**Received: 02-May-14**							
1,1,2-Trichloroethane	ND	28	ug/m3	1	EE40201	02-May-14	02-May-14	TO-15	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*97.4 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*95.2 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.0 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-43-35, P578cc (E405007-03) Vapor	**Sampled: 02-May-14**	**Received: 02-May-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	EE40201	02-May-14	02-May-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-43-35, P578cc (E405007-03) Vapor	**Sampled: 02-May-14**	**Received: 02-May-14**							
1,1,1-Trichloroethane	ND	28	ug/m3	1	EE40201	02-May-14	02-May-14	TO-15	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98.3 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*89.2 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.2 %*		*56-127*	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-43-35 Rep, P628cc (E405007-04) Vapor	**Sampled: 02-May-14**		**Received: 02-May-14**						
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	EE40201	02-May-14	02-May-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-43-35 Rep, P628cc (E405007-04) Vapor	**Sampled: 02-May-14**	**Received: 02-May-14**							
Naphthalene	ND	27	ug/m3	1	EE40201	02-May-14	02-May-14	TO-15	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*67-141*		*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*94.3 %*	*75-125*		*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*85.1 %*	*56-127*		*"*	*"*	*"*	*"*	
SAIA-SB/SG-42-5, P816cc (E405007-05) Vapor	**Sampled: 02-May-14**	**Received: 02-May-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	EE40201	02-May-14	02-May-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**190**	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**21**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	**53**	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-42-5, P816cc (E405007-05) Vapor Sampled: 02-May-14 Received: 02-May-14									
n-Propylbenzene	ND	25	ug/m3	1	EE40201	02-May-14	02-May-14	TO-15	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*109 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*94.8 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.2 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-42-15, P913cc (E405007-06) Vapor Sampled: 02-May-14 Received: 02-May-14									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	EE40201	02-May-14	02-May-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-42-15, P913cc (E405007-06) Vapor	**Sampled: 02-May-14**	**Received: 02-May-14**							
1,1,2-Trichloroethane	ND	28	ug/m3	1	EE40201	02-May-14	02-May-14	TO-15	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*95.3 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*95.7 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.5 %*		*56-127*	"	"	"	"	
SAIA-SB/SG-42-25, P530cc (E405007-07) Vapor	**Sampled: 02-May-14**	**Received: 02-May-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	EE40201	02-May-14	02-May-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-42-25, P530cc (E405007-07) Vapor	**Sampled: 02-May-14**	**Received: 02-May-14**							
1,1,1-Trichloroethane	ND	28	ug/m3	1	EE40201	02-May-14	02-May-14	TO-15	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	ND	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*		*67-141*	*"*	*"*	*"*	*"*	
Surrogate: Toluene-d8		*92.0 %*		*75-125*	*"*	*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*94.3 %*		*56-127*	*"*	*"*	*"*	*"*	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-42-35, P578cc (E405007-08) Vapor	**Sampled: 02-May-14**	**Received: 02-May-14**							
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	EE40201	02-May-14	02-May-14	TO-15	
Dichlorodifluoromethane (F12)	ND	25	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**17**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,4-Dioxane	ND	36	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Isopropylbenzene (Cumene)	ND	25	"	"	"	"	"	"	
n-Propylbenzene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
tert-Butylbenzene	ND	28	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	30	"	"	"	"	"	"	
sec-Butylbenzene	ND	28	"	"	"	"	"	"	
p-Isopropyltoluene	**33**	28	"	"	"	"	"	"	
n-Butylbenzene	ND	28	"	"	"	"	"	"	

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2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SAIA-SB/SG-42-35, P578cc (E405007-08) Vapor	**Sampled: 02-May-14**	**Received: 02-May-14**							
Naphthalene	ND	27	ug/m3	1	EE40201	02-May-14	02-May-14	TO-15	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*67-141*		"	"	"	"	
Surrogate: Toluene-d8		*89.9 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.2 %*	*56-127*		"	"	"	"	

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED42104 - TO-15										
Blank (ED42104-BLK1)				Prepared & Analyzed: 21-Apr-14						
1,1-Difluoroethane (LCC)	ND	27	ug/m3							
Dichlorodifluoromethane (F12)	ND	25	"							
Chloromethane	ND	21	"							
Vinyl chloride	ND	13	"							
Bromomethane	ND	39	"							
Chloroethane	ND	27	"							
Trichlorofluoromethane (F11)	ND	28	"							
1,1-Dichloroethene	ND	20	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"							
Methylene chloride (Dichloromethane)	ND	18	"							
trans-1,2-Dichloroethene	ND	40	"							
1,1-Dichloroethane	ND	41	"							
cis-1,2-Dichloroethene	ND	40	"							
Chloroform	ND	25	"							
1,1,1-Trichloroethane	ND	28	"							
1,2-Dichloroethane (EDC)	ND	21	"							
Benzene	ND	16	"							
Carbon tetrachloride	ND	13	"							
Trichloroethene	ND	27	"							
1,4-Dioxane	ND	36	"							
Bromodichloromethane	ND	34	"							
Toluene	ND	19	"							
1,1,2-Trichloroethane	ND	28	"							
Tetrachloroethene	ND	34	"							
1,1,1,2-Tetrachloroethane	ND	35	"							
Ethylbenzene	ND	22	"							
m,p-Xylene	ND	44	"							
o-Xylene	ND	22	"							
1,1,2,2-Tetrachloroethane	ND	35	"							
Isopropylbenzene (Cumene)	ND	25	"							
n-Propylbenzene	ND	25	"							
1,3,5-Trimethylbenzene	ND	25	"							
tert-Butylbenzene	ND	28	"							
1,2,4-Trimethylbenzene	ND	25	"							

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2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
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Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED42104 - TO-15										
Blank (ED42104-BLK1)				Prepared & Analyzed: 21-Apr-14						
1,4-Dichlorobenzene	ND	30	ug/m3							
sec-Butylbenzene	ND	28	"							
p-Isopropyltoluene	ND	28	"							
n-Butylbenzene	ND	28	"							
Naphthalene	ND	27	"							
1,2,4-Trichlorobenzene	ND	38	"							
Surrogate: 1,2-Dichloroethane-d4	*895*		*"*	*886*		*101*	*67-141*			
Surrogate: Toluene-d8	*850*		*"*	*864*		*98.3*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1130*		*"*	*1530*		*73.8*	*56-127*			
LCS (ED42104-BS1)				Prepared & Analyzed: 21-Apr-14						
Dichlorodifluoromethane (F12)	290	25	ug/m3	250		114	65-135			
Vinyl chloride	140	13	"	130		106	65-135			
Chloroethane	140	27	"	134		108	65-135			
Trichlorofluoromethane (F11)	340	28	"	283		122	65-135			
1,1-Dichloroethene	190	20	"	202		92.3	65-135			
1,1,2-Trichlorotrifluoroethane (F113)	420	39	"	387		108	65-135			
Methylene chloride (Dichloromethane)	150	18	"	177		86.3	65-135			
trans-1,2-Dichloroethene	190	40	"	202		94.3	65-135			
1,1-Dichloroethane	200	41	"	206		96.5	65-135			
cis-1,2-Dichloroethene	230	40	"	202		112	65-135			
Chloroform	240	25	"	247		97.2	65-135			
1,1,1-Trichloroethane	290	28	"	276		104	65-135			
1,2-Dichloroethane (EDC)	220	21	"	206		105	65-135			
Benzene	160	16	"	162		98.9	65-135			
Carbon tetrachloride	380	13	"	320		120	65-135			
Trichloroethene	260	27	"	272		94.8	65-135			
Toluene	190	19	"	191		99.7	65-135			
1,1,2-Trichloroethane	300	28	"	276		107	65-135			
Tetrachloroethene	380	34	"	345		110	65-135			
1,1,1,2-Tetrachloroethane	490	35	"	349		141	65-135			QL-1L
Ethylbenzene	230	22	"	220		103	65-135			
m,p-Xylene	480	44	"	440		108	65-135			

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2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED42104 - TO-15										
LCS (ED42104-BS1)				Prepared & Analyzed: 21-Apr-14						
o-Xylene	220	22	ug/m3	220		102	65-135			
1,1,2,2-Tetrachloroethane	370	35	"	349		106	65-135			
Surrogate: 1,2-Dichloroethane-d4	*886*		*"*	*886*		*100*	*67-141*			
Surrogate: Toluene-d8	*799*		*"*	*864*		*92.4*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1430*		*"*	*1530*		*93.4*	*56-127*			
Batch ED42206 - TO-15										
Blank (ED42206-BLK1)				Prepared & Analyzed: 22-Apr-14						
1,1-Difluoroethane (LCC)	ND	27	ug/m3							
Dichlorodifluoromethane (F12)	ND	25	"							
Chloromethane	ND	21	"							
Vinyl chloride	ND	13	"							
Bromomethane	ND	39	"							
Chloroethane	ND	27	"							
Trichlorofluoromethane (F11)	ND	28	"							
1,1-Dichloroethene	ND	20	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"							
Methylene chloride (Dichloromethane)	ND	18	"							
trans-1,2-Dichloroethene	ND	40	"							
1,1-Dichloroethane	ND	41	"							
cis-1,2-Dichloroethene	ND	40	"							
Chloroform	ND	25	"							
1,1,1-Trichloroethane	ND	28	"							
1,2-Dichloroethane (EDC)	ND	21	"							
Benzene	ND	16	"							
Carbon tetrachloride	ND	13	"							
Trichloroethene	ND	27	"							
1,4-Dioxane	ND	36	"							
Bromodichloromethane	ND	34	"							
Toluene	ND	19	"							
1,1,2-Trichloroethane	ND	28	"							
Tetrachloroethene	ND	34	"							

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED42206 - TO-15										
Blank (ED42206-BLK1)				Prepared & Analyzed: 22-Apr-14						
1,1,1,2-Tetrachloroethane	ND	35	ug/m3							
Ethylbenzene	ND	22	"							
m,p-Xylene	ND	44	"							
o-Xylene	ND	22	"							
1,1,2,2-Tetrachloroethane	ND	35	"							
Isopropylbenzene (Cumene)	ND	25	"							
n-Propylbenzene	ND	25	"							
1,3,5-Trimethylbenzene	ND	25	"							
tert-Butylbenzene	ND	28	"							
1,2,4-Trimethylbenzene	ND	25	"							
1,4-Dichlorobenzene	ND	30	"							
sec-Butylbenzene	ND	28	"							
p-Isopropyltoluene	ND	28	"							
n-Butylbenzene	ND	28	"							
Naphthalene	ND	27	"							
1,2,4-Trichlorobenzene	ND	38	"							
Surrogate: 1,2-Dichloroethane-d4	*834*		*"*	*886*		*94.2*	*67-141*			
Surrogate: Toluene-d8	*900*		*"*	*864*		*104*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1160*		*"*	*1530*		*75.8*	*56-127*			
LCS (ED42206-BS1)				Prepared & Analyzed: 22-Apr-14						
Dichlorodifluoromethane (F12)	270	25	ug/m3	250		109	65-135			
Vinyl chloride	130	13	"	130		101	65-135			
Chloroethane	120	27	"	134		90.5	65-135			
Trichlorofluoromethane (F11)	340	28	"	283		122	65-135			
1,1-Dichloroethene	200	20	"	202		101	65-135			
1,1,2-Trichlorotrifluoroethane (F113)	430	39	"	387		111	65-135			
Methylene chloride (Dichloromethane)	160	18	"	177		89.3	65-135			
trans-1,2-Dichloroethene	210	40	"	202		102	65-135			
1,1-Dichloroethane	210	41	"	206		101	65-135			
cis-1,2-Dichloroethene	230	40	"	202		114	65-135			
Chloroform	250	25	"	247		101	65-135			
1,1,1-Trichloroethane	300	28	"	276		107	65-135			

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED42206 - TO-15										
LCS (ED42206-BS1)				Prepared & Analyzed: 22-Apr-14						
1,2-Dichloroethane (EDC)	210	21	ug/m3	206		99.8	65-135			
Benzene	130	16	"	162		77.7	65-135			
Carbon tetrachloride	420	13	"	320		130	65-135			
Trichloroethene	330	27	"	272		120	65-135			
Toluene	170	19	"	191		91.5	65-135			
1,1,2-Trichloroethane	300	28	"	276		107	65-135			
Tetrachloroethene	450	34	"	345		131	65-135			
1,1,1,2-Tetrachloroethane	410	35	"	349		117	65-135			
Ethylbenzene	190	22	"	220		87.2	65-135			
m,p-Xylene	370	44	"	440		83.1	65-135			
o-Xylene	170	22	"	220		79.3	65-135			
1,1,2,2-Tetrachloroethane	350	35	"	349		101	65-135			
Surrogate: 1,2-Dichloroethane-d4	*842*		*"*	*886*		*95.0*	*67-141*			
Surrogate: Toluene-d8	*968*		*"*	*864*		*112*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1580*		*"*	*1530*		*103*	*56-127*			
Batch ED42304 - TO-15										
Blank (ED42304-BLK1)				Prepared & Analyzed: 23-Apr-14						
1,1-Difluoroethane (LCC)	ND	27	ug/m3							
Dichlorodifluoromethane (F12)	ND	25	"							
Chloromethane	ND	21	"							
Vinyl chloride	ND	13	"							
Bromomethane	ND	39	"							
Chloroethane	ND	27	"							
Trichlorofluoromethane (F11)	ND	28	"							
1,1-Dichloroethene	ND	20	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"							
Methylene chloride (Dichloromethane)	ND	18	"							
trans-1,2-Dichloroethene	ND	40	"							
1,1-Dichloroethane	ND	41	"							
cis-1,2-Dichloroethene	ND	40	"							
Chloroform	ND	25	"							

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED42304 - TO-15										
Blank (ED42304-BLK1)				Prepared & Analyzed: 23-Apr-14						
1,1,1-Trichloroethane	ND	28	ug/m3							
1,2-Dichloroethane (EDC)	ND	21	"							
Benzene	ND	16	"							
Carbon tetrachloride	ND	13	"							
Trichloroethene	ND	27	"							
1,4-Dioxane	ND	36	"							
Bromodichloromethane	ND	34	"							
Toluene	ND	19	"							
1,1,2-Trichloroethane	ND	28	"							
Tetrachloroethene	ND	34	"							
1,1,1,2-Tetrachloroethane	ND	35	"							
Ethylbenzene	ND	22	"							
m,p-Xylene	ND	44	"							
o-Xylene	ND	22	"							
1,1,2,2-Tetrachloroethane	ND	35	"							
Isopropylbenzene (Cumene)	ND	25	"							
n-Propylbenzene	ND	25	"							
1,3,5-Trimethylbenzene	ND	25	"							
tert-Butylbenzene	ND	28	"							
1,2,4-Trimethylbenzene	ND	25	"							
1,4-Dichlorobenzene	ND	30	"							
sec-Butylbenzene	ND	28	"							
p-Isopropyltoluene	ND	28	"							
n-Butylbenzene	ND	28	"							
Naphthalene	ND	27	"							
1,2,4-Trichlorobenzene	ND	38	"							
Surrogate: 1,2-Dichloroethane-d4	*894*		*"*	*886*		*101*	*67-141*			
Surrogate: Toluene-d8	*790*		*"*	*864*		*91.4*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1110*		*"*	*1530*		*72.6*	*56-127*			

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Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED42304 - TO-15										
LCS (ED42304-BS1)				Prepared & Analyzed: 23-Apr-14						
Dichlorodifluoromethane (F12)	250	25	ug/m3	250		98.8	65-135			
Vinyl chloride	120	13	"	130		90.8	65-135			
Chloroethane	130	27	"	134		101	65-135			
Trichlorofluoromethane (F11)	280	28	"	283		101	65-135			
1,1-Dichloroethene	170	20	"	202		83.0	65-135			
1,1,2-Trichlorotrifluoroethane (F113)	380	39	"	387		98.4	65-135			
Methylene chloride (Dichloromethane)	120	18	"	177		65.5	65-135			
trans-1,2-Dichloroethene	170	40	"	202		85.6	65-135			
1,1-Dichloroethane	170	41	"	206		84.6	65-135			
cis-1,2-Dichloroethene	180	40	"	202		90.5	65-135			
Chloroform	210	25	"	247		86.4	65-135			
1,1,1-Trichloroethane	230	28	"	276		85.0	65-135			
1,2-Dichloroethane (EDC)	200	21	"	206		96.9	65-135			
Benzene	120	16	"	162		71.9	65-135			
Carbon tetrachloride	370	13	"	320		115	65-135			
Trichloroethene	300	27	"	272		111	65-135			
Toluene	160	19	"	191		82.9	65-135			
1,1,2-Trichloroethane	360	28	"	276		129	65-135			
Tetrachloroethene	340	34	"	345		99.5	65-135			
1,1,1,2-Tetrachloroethane	350	35	"	349		101	65-135			
Ethylbenzene	150	22	"	220		66.4	65-135			
m,p-Xylene	300	44	"	440		68.2	65-135			
o-Xylene	150	22	"	220		67.8	65-135			
1,1,2,2-Tetrachloroethane	260	35	"	349		73.4	65-135			
Surrogate: 1,2-Dichloroethane-d4	*884*		*"*	*886*		*99.8*	*67-141*			
Surrogate: Toluene-d8	*859*		*"*	*864*		*99.4*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1530*		*"*	*1530*		*100*	*56-127*			

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2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED42401 - TO-15										
Blank (ED42401-BLK1)				Prepared & Analyzed: 24-Apr-14						
1,1-Difluoroethane (LCC)	ND	27	ug/m3							
Dichlorodifluoromethane (F12)	ND	25	"							
Chloromethane	ND	21	"							
Vinyl chloride	ND	13	"							
Bromomethane	ND	39	"							
Chloroethane	ND	27	"							
Trichlorofluoromethane (F11)	ND	28	"							
1,1-Dichloroethene	ND	20	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"							
Methylene chloride (Dichloromethane)	ND	18	"							
trans-1,2-Dichloroethene	ND	40	"							
1,1-Dichloroethane	ND	41	"							
cis-1,2-Dichloroethene	ND	40	"							
Chloroform	ND	25	"							
1,1,1-Trichloroethane	ND	28	"							
1,2-Dichloroethane (EDC)	ND	21	"							
Benzene	ND	16	"							
Carbon tetrachloride	ND	13	"							
Trichloroethene	ND	27	"							
1,4-Dioxane	ND	36	"							
Bromodichloromethane	ND	34	"							
Toluene	ND	19	"							
1,1,2-Trichloroethane	ND	28	"							
Tetrachloroethene	ND	34	"							
1,1,1,2-Tetrachloroethane	ND	35	"							
Ethylbenzene	ND	22	"							
m,p-Xylene	ND	44	"							
o-Xylene	ND	22	"							
1,1,2,2-Tetrachloroethane	ND	35	"							
Isopropylbenzene (Cumene)	ND	25	"							
n-Propylbenzene	ND	25	"							
1,3,5-Trimethylbenzene	ND	25	"							
tert-Butylbenzene	ND	28	"							
1,2,4-Trimethylbenzene	ND	25	"							

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Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED42401 - TO-15										
Blank (ED42401-BLK1)				Prepared & Analyzed: 24-Apr-14						
1,4-Dichlorobenzene	ND	30	ug/m3							
sec-Butylbenzene	ND	28	"							
p-Isopropyltoluene	ND	28	"							
n-Butylbenzene	ND	28	"							
Naphthalene	ND	27	"							
1,2,4-Trichlorobenzene	ND	38	"							
Surrogate: 1,2-Dichloroethane-d4	*922*		*"*	*886*		*104*	*67-141*			
Surrogate: Toluene-d8	*744*		*"*	*864*		*86.1*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1450*		*"*	*1530*		*94.9*	*56-127*			
LCS (ED42401-BS1)				Prepared & Analyzed: 24-Apr-14						
Dichlorodifluoromethane (F12)	330	25	ug/m3	250		131	65-135			
Vinyl chloride	170	13	"	130		128	65-135			
Chloroethane	130	27	"	134		98.3	65-135			
Trichlorofluoromethane (F11)	380	28	"	283		134	65-135			
1,1-Dichloroethene	210	20	"	202		103	65-135			
1,1,2-Trichlorotrifluoroethane (F113)	420	39	"	387		108	65-135			
Methylene chloride (Dichloromethane)	140	18	"	177		77.7	65-135			
trans-1,2-Dichloroethene	210	40	"	202		102	65-135			
1,1-Dichloroethane	200	41	"	206		95.7	65-135			
cis-1,2-Dichloroethene	210	40	"	202		105	65-135			
Chloroform	280	25	"	247		114	65-135			
1,1,1-Trichloroethane	300	28	"	276		109	65-135			
1,2-Dichloroethane (EDC)	240	21	"	206		117	65-135			
Benzene	150	16	"	162		91.0	65-135			
Carbon tetrachloride	430	13	"	320		134	65-135			
Trichloroethene	340	27	"	272		124	65-135			
Toluene	220	19	"	191		115	65-135			
1,1,2-Trichloroethane	320	28	"	276		115	65-135			
Tetrachloroethene	420	34	"	345		122	65-135			
1,1,1,2-Tetrachloroethane	470	35	"	349		134	65-135			
Ethylbenzene	210	22	"	220		94.2	65-135			
m,p-Xylene	440	44	"	440		99.2	65-135			

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2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED42401 - TO-15										
LCS (ED42401-BS1)				Prepared & Analyzed: 24-Apr-14						
o-Xylene	210	22	ug/m3	220		95.2	65-135			
1,1,2,2-Tetrachloroethane	360	35	"	349		103	65-135			
Surrogate: 1,2-Dichloroethane-d4	*819*		*"*	*886*		*92.5*	*67-141*			
Surrogate: Toluene-d8	*814*		*"*	*864*		*94.2*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1460*		*"*	*1530*		*95.4*	*56-127*			
Batch ED42501 - TO-15										
Blank (ED42501-BLK1)				Prepared & Analyzed: 25-Apr-14						
1,1-Difluoroethane (LCC)	ND	27	ug/m3							
Dichlorodifluoromethane (F12)	ND	25	"							
Chloromethane	ND	21	"							
Vinyl chloride	ND	13	"							
Bromomethane	ND	39	"							
Chloroethane	ND	27	"							
Trichlorofluoromethane (F11)	ND	28	"							
1,1-Dichloroethene	ND	20	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"							
Methylene chloride (Dichloromethane)	ND	18	"							
trans-1,2-Dichloroethene	ND	40	"							
1,1-Dichloroethane	ND	41	"							
cis-1,2-Dichloroethene	ND	40	"							
Chloroform	ND	25	"							
1,1,1-Trichloroethane	ND	28	"							
1,2-Dichloroethane (EDC)	ND	21	"							
Benzene	ND	16	"							
Carbon tetrachloride	ND	13	"							
Trichloroethene	ND	27	"							
1,4-Dioxane	ND	36	"							
Bromodichloromethane	ND	34	"							
Toluene	ND	19	"							
1,1,2-Trichloroethane	ND	28	"							
Tetrachloroethene	ND	34	"							

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Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED42501 - TO-15										
Blank (ED42501-BLK1)				Prepared & Analyzed: 25-Apr-14						
1,1,1,2-Tetrachloroethane	ND	35	ug/m3							
Ethylbenzene	ND	22	"							
m,p-Xylene	ND	44	"							
o-Xylene	ND	22	"							
1,1,2,2-Tetrachloroethane	ND	35	"							
Isopropylbenzene (Cumene)	ND	25	"							
n-Propylbenzene	ND	25	"							
1,3,5-Trimethylbenzene	ND	25	"							
tert-Butylbenzene	ND	28	"							
1,2,4-Trimethylbenzene	ND	25	"							
1,4-Dichlorobenzene	ND	30	"							
sec-Butylbenzene	ND	28	"							
p-Isopropyltoluene	ND	28	"							
n-Butylbenzene	ND	28	"							
Naphthalene	ND	27	"							
1,2,4-Trichlorobenzene	ND	38	"							
Surrogate: 1,2-Dichloroethane-d4	*849*		*"*	*886*		*95.9*	*67-141*			
Surrogate: Toluene-d8	*731*		*"*	*864*		*84.6*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1390*		*"*	*1530*		*91.0*	*56-127*			
LCS (ED42501-BS1)				Prepared & Analyzed: 25-Apr-14						
Dichlorodifluoromethane (F12)	240	25	ug/m3	250		94.2	65-135			
Vinyl chloride	130	13	"	130		98.3	65-135			
Chloroethane	96	27	"	134		71.4	65-135			
Trichlorofluoromethane (F11)	280	28	"	283		99.2	65-135			
1,1-Dichloroethene	160	20	"	202		78.1	65-135			
1,1,2-Trichlorotrifluoroethane (F113)	370	39	"	387		95.7	65-135			
Methylene chloride (Dichloromethane)	130	18	"	177		76.1	65-135			
trans-1,2-Dichloroethene	200	40	"	202		97.0	65-135			
1,1-Dichloroethane	160	41	"	206		77.1	65-135			
cis-1,2-Dichloroethene	160	40	"	202		79.7	65-135			
Chloroform	180	25	"	247		72.8	65-135			
1,1,1-Trichloroethane	210	28	"	276		75.3	65-135			

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Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED42501 - TO-15										
LCS (ED42501-BS1)				Prepared & Analyzed: 25-Apr-14						
1,2-Dichloroethane (EDC)	180	21	ug/m3	206		85.8	65-135			
Benzene	110	16	"	162		69.5	65-135			
Carbon tetrachloride	360	13	"	320		112	65-135			
Trichloroethene	240	27	"	272		88.6	65-135			
Toluene	170	19	"	191		88.3	65-135			
1,1,2-Trichloroethane	290	28	"	276		106	65-135			
Tetrachloroethene	370	34	"	345		107	65-135			
1,1,1,2-Tetrachloroethane	460	35	"	349		132	65-135			
Ethylbenzene	160	22	"	220		74.4	65-135			
m,p-Xylene	300	44	"	440		68.9	65-135			
o-Xylene	170	22	"	220		78.9	65-135			
1,1,2,2-Tetrachloroethane	290	35	"	349		82.0	65-135			
Surrogate: 1,2-Dichloroethane-d4	*867*		*"*	*886*		*97.9*	*67-141*			
Surrogate: Toluene-d8	*893*		*"*	*864*		*103*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1560*		*"*	*1530*		*102*	*56-127*			
Batch ED42803 - TO-15										
Blank (ED42803-BLK1)				Prepared & Analyzed: 28-Apr-14						
1,1-Difluoroethane (LCC)	ND	27	ug/m3							
Dichlorodifluoromethane (F12)	ND	25	"							
Chloromethane	ND	21	"							
Vinyl chloride	ND	13	"							
Bromomethane	ND	39	"							
Chloroethane	ND	27	"							
Trichlorofluoromethane (F11)	ND	28	"							
1,1-Dichloroethene	ND	20	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"							
Methylene chloride (Dichloromethane)	ND	18	"							
trans-1,2-Dichloroethene	ND	40	"							
1,1-Dichloroethane	ND	41	"							
cis-1,2-Dichloroethene	ND	40	"							
Chloroform	ND	25	"							

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED42803 - TO-15										
Blank (ED42803-BLK1)				Prepared & Analyzed: 28-Apr-14						
1,1,1-Trichloroethane	ND	28	ug/m3							
1,2-Dichloroethane (EDC)	ND	21	"							
Benzene	ND	16	"							
Carbon tetrachloride	ND	13	"							
Trichloroethene	ND	27	"							
1,4-Dioxane	ND	36	"							
Bromodichloromethane	ND	34	"							
Toluene	ND	19	"							
1,1,2-Trichloroethane	ND	28	"							
Tetrachloroethene	ND	34	"							
1,1,1,2-Tetrachloroethane	ND	35	"							
Ethylbenzene	ND	22	"							
m,p-Xylene	ND	44	"							
o-Xylene	ND	22	"							
1,1,2,2-Tetrachloroethane	ND	35	"							
Isopropylbenzene (Cumene)	ND	25	"							
n-Propylbenzene	ND	25	"							
1,3,5-Trimethylbenzene	ND	25	"							
tert-Butylbenzene	ND	28	"							
1,2,4-Trimethylbenzene	ND	25	"							
1,4-Dichlorobenzene	ND	30	"							
sec-Butylbenzene	ND	28	"							
p-Isopropyltoluene	ND	28	"							
n-Butylbenzene	ND	28	"							
Naphthalene	ND	27	"							
1,2,4-Trichlorobenzene	ND	38	"							
Surrogate: 1,2-Dichloroethane-d4	*874*		*"*	*886*		*98.7*	*67-141*			
Surrogate: Toluene-d8	*891*		*"*	*864*		*103*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1440*		*"*	*1530*		*94.3*	*56-127*			

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED42803 - TO-15										
LCS (ED42803-BS1)				Prepared & Analyzed: 28-Apr-14						
Dichlorodifluoromethane (F12)	310	25	ug/m3	250		126	65-135			
Vinyl chloride	160	13	"	130		123	65-135			
Chloroethane	120	27	"	134		93.0	65-135			
Trichlorofluoromethane (F11)	380	28	"	283		133	65-135			
1,1-Dichloroethene	220	20	"	202		107	65-135			
1,1,2-Trichlorotrifluoroethane (F113)	460	39	"	387		118	65-135			
Methylene chloride (Dichloromethane)	180	18	"	177		99.7	65-135			
trans-1,2-Dichloroethene	210	40	"	202		103	65-135			
1,1-Dichloroethane	230	41	"	206		111	65-135			
cis-1,2-Dichloroethene	250	40	"	202		125	65-135			
Chloroform	290	25	"	247		117	65-135			
1,1,1-Trichloroethane	330	28	"	276		121	65-135			
1,2-Dichloroethane (EDC)	270	21	"	206		130	65-135			
Benzene	160	16	"	162		99.2	65-135			
Carbon tetrachloride	450	13	"	320		140	65-135			QL-1H
Trichloroethene	280	27	"	272		101	65-135			
Toluene	190	19	"	191		98.7	65-135			
1,1,2-Trichloroethane	320	28	"	276		116	65-135			
Tetrachloroethene	420	34	"	345		121	65-135			
1,1,1,2-Tetrachloroethane	450	35	"	349		128	65-135			
Ethylbenzene	180	22	"	220		82.1	65-135			
m,p-Xylene	360	44	"	440		81.9	65-135			
o-Xylene	160	22	"	220		71.7	65-135			
1,1,2,2-Tetrachloroethane	330	35	"	349		95.3	65-135			
Surrogate: 1,2-Dichloroethane-d4	*1020*		*"*	*886*		*115*	*67-141*			
Surrogate: Toluene-d8	*957*		*"*	*864*		*111*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1230*		*"*	*1530*		*80.4*	*56-127*			

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2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED42902 - TO-15										
Blank (ED42902-BLK1)				Prepared & Analyzed: 29-Apr-14						
1,1-Difluoroethane (LCC)	ND	27	ug/m3							
Dichlorodifluoromethane (F12)	ND	25	"							
Chloromethane	ND	21	"							
Vinyl chloride	ND	13	"							
Bromomethane	ND	39	"							
Chloroethane	ND	27	"							
Trichlorofluoromethane (F11)	ND	28	"							
1,1-Dichloroethene	ND	20	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"							
Methylene chloride (Dichloromethane)	ND	18	"							
trans-1,2-Dichloroethene	ND	40	"							
1,1-Dichloroethane	ND	41	"							
cis-1,2-Dichloroethene	ND	40	"							
Chloroform	ND	25	"							
1,1,1-Trichloroethane	ND	28	"							
1,2-Dichloroethane (EDC)	ND	21	"							
Benzene	ND	16	"							
Carbon tetrachloride	ND	13	"							
Trichloroethene	ND	27	"							
1,4-Dioxane	ND	36	"							
Bromodichloromethane	ND	34	"							
Toluene	ND	19	"							
1,1,2-Trichloroethane	ND	28	"							
Tetrachloroethene	ND	34	"							
1,1,1,2-Tetrachloroethane	ND	35	"							
Ethylbenzene	ND	22	"							
m,p-Xylene	ND	44	"							
o-Xylene	ND	22	"							
1,1,2,2-Tetrachloroethane	ND	35	"							
Isopropylbenzene (Cumene)	ND	25	"							
n-Propylbenzene	ND	25	"							
1,3,5-Trimethylbenzene	ND	25	"							
tert-Butylbenzene	ND	28	"							
1,2,4-Trimethylbenzene	ND	25	"							

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2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED42902 - TO-15										
Blank (ED42902-BLK1)				Prepared & Analyzed: 29-Apr-14						
1,4-Dichlorobenzene	ND	30	ug/m3							
sec-Butylbenzene	ND	28	"							
p-Isopropyltoluene	ND	28	"							
n-Butylbenzene	ND	28	"							
Naphthalene	ND	27	"							
1,2,4-Trichlorobenzene	ND	38	"							
Surrogate: 1,2-Dichloroethane-d4	*875*		*"*	*886*		*98.7*	*67-141*			
Surrogate: Toluene-d8	*757*		*"*	*864*		*87.6*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1060*		*"*	*1530*		*69.2*	*56-127*			
LCS (ED42902-BS1)				Prepared & Analyzed: 29-Apr-14						
Dichlorodifluoromethane (F12)	220	25	ug/m3	250		90.0	65-135			
Vinyl chloride	130	13	"	130		99.0	65-135			
Chloroethane	110	27	"	134		85.7	65-135			
Trichlorofluoromethane (F11)	270	28	"	283		94.7	65-135			
1,1-Dichloroethene	180	20	"	202		91.0	65-135			
1,1,2-Trichlorotrifluoroethane (F113)	320	39	"	387		82.8	65-135			
Methylene chloride (Dichloromethane)	160	18	"	177		89.9	65-135			
trans-1,2-Dichloroethene	170	40	"	202		85.5	65-135			
1,1-Dichloroethane	180	41	"	206		85.8	65-135			
cis-1,2-Dichloroethene	190	40	"	202		95.2	65-135			
Chloroform	210	25	"	247		83.9	65-135			
1,1,1-Trichloroethane	240	28	"	276		87.8	65-135			
1,2-Dichloroethane (EDC)	170	21	"	206		84.9	65-135			
Benzene	130	16	"	162		81.7	65-135			
Carbon tetrachloride	350	13	"	320		109	65-135			
Trichloroethene	230	27	"	272		86.2	65-135			
Toluene	160	19	"	191		83.5	65-135			
1,1,2-Trichloroethane	250	28	"	276		90.1	65-135			
Tetrachloroethene	350	34	"	345		102	65-135			
1,1,1,2-Tetrachloroethane	420	35	"	349		119	65-135			
Ethylbenzene	180	22	"	220		82.7	65-135			
m,p-Xylene	420	44	"	440		95.8	65-135			

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2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED42902 - TO-15										
LCS (ED42902-BS1)				Prepared & Analyzed: 29-Apr-14						
o-Xylene	180	22	ug/m3	220		80.6	65-135			
1,1,2,2-Tetrachloroethane	340	35	"	349		97.8	65-135			
Surrogate: 1,2-Dichloroethane-d4	*882*		*"*	*886*		*99.6*	*67-141*			
Surrogate: Toluene-d8	*855*		*"*	*864*		*98.9*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1660*		*"*	*1530*		*108*	*56-127*			
Batch ED43003 - TO-15										
Blank (ED43003-BLK1)				Prepared & Analyzed: 30-Apr-14						
1,1-Difluoroethane (LCC)	ND	27	ug/m3							
Dichlorodifluoromethane (F12)	ND	25	"							
Chloromethane	ND	21	"							
Vinyl chloride	ND	13	"							
Bromomethane	ND	39	"							
Chloroethane	ND	27	"							
Trichlorofluoromethane (F11)	ND	28	"							
1,1-Dichloroethene	ND	20	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"							
Methylene chloride (Dichloromethane)	ND	18	"							
trans-1,2-Dichloroethene	ND	40	"							
1,1-Dichloroethane	ND	41	"							
cis-1,2-Dichloroethene	ND	40	"							
Chloroform	ND	25	"							
1,1,1-Trichloroethane	ND	28	"							
1,2-Dichloroethane (EDC)	ND	21	"							
Benzene	ND	16	"							
Carbon tetrachloride	ND	13	"							
Trichloroethene	ND	27	"							
1,4-Dioxane	ND	36	"							
Bromodichloromethane	ND	34	"							
Toluene	ND	19	"							
1,1,2-Trichloroethane	ND	28	"							
Tetrachloroethene	ND	34	"							

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED43003 - TO-15										
Blank (ED43003-BLK1)				Prepared & Analyzed: 30-Apr-14						
1,1,1,2-Tetrachloroethane	ND	35	ug/m3							
Ethylbenzene	ND	22	"							
m,p-Xylene	ND	44	"							
o-Xylene	ND	22	"							
1,1,2,2-Tetrachloroethane	ND	35	"							
Isopropylbenzene (Cumene)	ND	25	"							
n-Propylbenzene	ND	25	"							
1,3,5-Trimethylbenzene	ND	25	"							
tert-Butylbenzene	ND	28	"							
1,2,4-Trimethylbenzene	ND	25	"							
1,4-Dichlorobenzene	ND	30	"							
sec-Butylbenzene	ND	28	"							
p-Isopropyltoluene	ND	28	"							
n-Butylbenzene	ND	28	"							
Naphthalene	ND	27	"							
1,2,4-Trichlorobenzene	ND	38	"							
Surrogate: 1,2-Dichloroethane-d4	*936*		*"*	*886*		*106*	*67-141*			
Surrogate: Toluene-d8	*699*		*"*	*864*		*80.9*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1100*		*"*	*1530*		*71.8*	*56-127*			
LCS (ED43003-BS1)				Prepared & Analyzed: 30-Apr-14						
Dichlorodifluoromethane (F12)	320	25	ug/m3	250		129	65-135			
Vinyl chloride	140	13	"	130		107	65-135			
Chloroethane	120	27	"	134		86.8	65-135			
Trichlorofluoromethane (F11)	330	28	"	283		118	65-135			
1,1-Dichloroethene	230	20	"	202		114	65-135			
1,1,2-Trichlorotrifluoroethane (F113)	450	39	"	387		117	65-135			
Methylene chloride (Dichloromethane)	170	18	"	177		96.0	65-135			
trans-1,2-Dichloroethene	220	40	"	202		110	65-135			
1,1-Dichloroethane	220	41	"	206		108	65-135			
cis-1,2-Dichloroethene	330	40	"	202		164	65-135			QL-1H
Chloroform	290	25	"	247		117	65-135			
1,1,1-Trichloroethane	340	28	"	276		125	65-135			

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2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED43003 - TO-15										
LCS (ED43003-BS1)				Prepared & Analyzed: 30-Apr-14						
1,2-Dichloroethane (EDC)	230	21	ug/m3	206		110	65-135			
Benzene	170	16	"	162		108	65-135			
Carbon tetrachloride	420	13	"	320		131	65-135			
Trichloroethene	290	27	"	272		108	65-135			
Toluene	200	19	"	191		103	65-135			
1,1,2-Trichloroethane	310	28	"	276		111	65-135			
Tetrachloroethene	400	34	"	345		117	65-135			
1,1,1,2-Tetrachloroethane	560	35	"	349		159	65-135			
Ethylbenzene	260	22	"	220		120	65-135			
m,p-Xylene	490	44	"	440		111	65-135			
o-Xylene	240	22	"	220		109	65-135			
1,1,2,2-Tetrachloroethane	370	35	"	349		107	65-135			
Surrogate: 1,2-Dichloroethane-d4	*913*		*"*	*886*		*103*	*67-141*			
Surrogate: Toluene-d8	*836*		*"*	*864*		*96.8*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1370*		*"*	*1530*		*89.5*	*56-127*			
Batch EE40101 - TO-15										
Blank (EE40101-BLK1)				Prepared & Analyzed: 01-May-14						
1,1-Difluoroethane (LCC)	ND	27	ug/m3							
Dichlorodifluoromethane (F12)	ND	25	"							
Chloromethane	ND	21	"							
Vinyl chloride	ND	13	"							
Bromomethane	ND	39	"							
Chloroethane	ND	27	"							
Trichlorofluoromethane (F11)	ND	28	"							
1,1-Dichloroethene	ND	20	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"							
Methylene chloride (Dichloromethane)	ND	18	"							
trans-1,2-Dichloroethene	ND	40	"							
1,1-Dichloroethane	ND	41	"							
cis-1,2-Dichloroethene	ND	40	"							
Chloroform	ND	25	"							

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2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE40101 - TO-15										
Blank (EE40101-BLK1)				Prepared & Analyzed: 01-May-14						
1,1,1-Trichloroethane	ND	28	ug/m3							
1,2-Dichloroethane (EDC)	ND	21	"							
Benzene	ND	16	"							
Carbon tetrachloride	ND	13	"							
Trichloroethene	ND	27	"							
1,4-Dioxane	ND	36	"							
Bromodichloromethane	ND	34	"							
Toluene	ND	19	"							
1,1,2-Trichloroethane	ND	28	"							
Tetrachloroethene	ND	34	"							
1,1,1,2-Tetrachloroethane	ND	35	"							
Ethylbenzene	ND	22	"							
m,p-Xylene	ND	44	"							
o-Xylene	ND	22	"							
1,1,2,2-Tetrachloroethane	ND	35	"							
Isopropylbenzene (Cumene)	ND	25	"							
n-Propylbenzene	ND	25	"							
1,3,5-Trimethylbenzene	ND	25	"							
tert-Butylbenzene	ND	28	"							
1,2,4-Trimethylbenzene	ND	25	"							
1,4-Dichlorobenzene	ND	30	"							
sec-Butylbenzene	ND	28	"							
p-Isopropyltoluene	ND	28	"							
n-Butylbenzene	ND	28	"							
Naphthalene	ND	27	"							
1,2,4-Trichlorobenzene	ND	38	"							
Surrogate: 1,2-Dichloroethane-d4	*896*		*"*	*886*		*101*	*67-141*			
Surrogate: Toluene-d8	*742*		*"*	*864*		*85.9*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1170*		*"*	*1530*		*76.6*	*56-127*			

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE40101 - TO-15										
LCS (EE40101-BS1)				Prepared & Analyzed: 01-May-14						
Dichlorodifluoromethane (F12)	270	25	ug/m3	250		109	65-135			
Vinyl chloride	140	13	"	130		108	65-135			
Chloroethane	140	27	"	134		103	65-135			
Trichlorofluoromethane (F11)	340	28	"	283		119	65-135			
1,1-Dichloroethene	210	20	"	202		102	65-135			
1,1,2-Trichlorotrifluoroethane (F113)	410	39	"	387		107	65-135			
Methylene chloride (Dichloromethane)	160	18	"	177		92.0	65-135			
trans-1,2-Dichloroethene	210	40	"	202		104	65-135			
1,1-Dichloroethane	230	41	"	206		112	65-135			
cis-1,2-Dichloroethene	240	40	"	202		117	65-135			
Chloroform	240	25	"	247		97.2	65-135			
1,1,1-Trichloroethane	320	28	"	276		115	65-135			
1,2-Dichloroethane (EDC)	230	21	"	206		109	65-135			
Benzene	150	16	"	162		93.6	65-135			
Carbon tetrachloride	430	13	"	320		133	65-135			
Trichloroethene	330	27	"	272		120	65-135			
Toluene	210	19	"	191		108	65-135			
1,1,2-Trichloroethane	300	28	"	276		109	65-135			
Tetrachloroethene	410	34	"	345		118	65-135			
1,1,1,2-Tetrachloroethane	510	35	"	349		145	65-135			QL-1H
Ethylbenzene	220	22	"	220		98.7	65-135			
m,p-Xylene	470	44	"	440		106	65-135			
o-Xylene	220	22	"	220		98.2	65-135			
1,1,2,2-Tetrachloroethane	380	35	"	349		108	65-135			
Surrogate: 1,2-Dichloroethane-d4	*850*		*"*	*886*		*96.0*	*67-141*			
Surrogate: Toluene-d8	*861*		*"*	*864*		*99.6*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1380*		*"*	*1530*		*90.4*	*56-127*			

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE40201 - TO-15										
Blank (EE40201-BLK1)				Prepared & Analyzed: 02-May-14						
1,1-Difluoroethane (LCC)	ND	27	ug/m3							
Dichlorodifluoromethane (F12)	ND	25	"							
Chloromethane	ND	21	"							
Vinyl chloride	ND	13	"							
Bromomethane	ND	39	"							
Chloroethane	ND	27	"							
Trichlorofluoromethane (F11)	ND	28	"							
1,1-Dichloroethene	ND	20	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	39	"							
Methylene chloride (Dichloromethane)	ND	18	"							
trans-1,2-Dichloroethene	ND	40	"							
1,1-Dichloroethane	ND	41	"							
cis-1,2-Dichloroethene	ND	40	"							
Chloroform	ND	25	"							
1,1,1-Trichloroethane	ND	28	"							
1,2-Dichloroethane (EDC)	ND	21	"							
Benzene	ND	16	"							
Carbon tetrachloride	ND	13	"							
Trichloroethene	ND	27	"							
1,4-Dioxane	ND	36	"							
Bromodichloromethane	ND	34	"							
Toluene	ND	19	"							
1,1,2-Trichloroethane	ND	28	"							
Tetrachloroethene	ND	34	"							
1,1,1,2-Tetrachloroethane	ND	35	"							
Ethylbenzene	ND	22	"							
m,p-Xylene	ND	44	"							
o-Xylene	ND	22	"							
1,1,2,2-Tetrachloroethane	ND	35	"							
Isopropylbenzene (Cumene)	ND	25	"							
n-Propylbenzene	ND	25	"							
1,3,5-Trimethylbenzene	ND	25	"							
tert-Butylbenzene	ND	28	"							
1,2,4-Trimethylbenzene	ND	25	"							

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE40201 - TO-15										
Blank (EE40201-BLK1)				Prepared & Analyzed: 02-May-14						
1,4-Dichlorobenzene	ND	30	ug/m3							
sec-Butylbenzene	ND	28	"							
p-Isopropyltoluene	ND	28	"							
n-Butylbenzene	ND	28	"							
Naphthalene	ND	27	"							
1,2,4-Trichlorobenzene	ND	38	"							
Surrogate: 1,2-Dichloroethane-d4	*855*		*"*	*886*		*96.5*	*67-141*			
Surrogate: Toluene-d8	*758*		*"*	*864*		*87.7*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1130*		*"*	*1530*		*73.5*	*56-127*			
LCS (EE40201-BS1)				Prepared & Analyzed: 02-May-14						
Dichlorodifluoromethane (F12)	310	25	ug/m3	250		123	65-135			
Vinyl chloride	150	13	"	130		118	65-135			
Chloroethane	110	27	"	134		82.4	65-135			
Trichlorofluoromethane (F11)	350	28	"	283		125	65-135			
1,1-Dichloroethene	210	20	"	202		102	65-135			
1,1,2-Trichlorotrifluoroethane (F113)	390	39	"	387		101	65-135			
Methylene chloride (Dichloromethane)	160	18	"	177		93.2	65-135			
trans-1,2-Dichloroethene	220	40	"	202		107	65-135			
1,1-Dichloroethane	230	41	"	206		111	65-135			
cis-1,2-Dichloroethene	250	40	"	202		124	65-135			
Chloroform	290	25	"	247		117	65-135			
1,1,1-Trichloroethane	350	28	"	276		128	65-135			
1,2-Dichloroethane (EDC)	260	21	"	206		124	65-135			
Benzene	150	16	"	162		92.4	65-135			
Carbon tetrachloride	500	13	"	320		155	65-135			QL-1H
Trichloroethene	320	27	"	272		116	65-135			
Toluene	210	19	"	191		111	65-135			
1,1,2-Trichloroethane	340	28	"	276		121	65-135			
Tetrachloroethene	440	34	"	345		127	65-135			
1,1,1,2-Tetrachloroethane	520	35	"	349		149	65-135			QL-1H
Ethylbenzene	270	22	"	220		122	65-135			
m,p-Xylene	500	44	"	440		114	65-135			

H&P Mobile
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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Volatile Organic Compounds by H&P Method TO-15M SV - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE40201 - TO-15										
LCS (EE40201-BS1)				Prepared & Analyzed: 02-May-14						
o-Xylene	230	22	ug/m3	220		106	65-135			
1,1,2,2-Tetrachloroethane	410	35	"	349		117	65-135			
Surrogate: 1,2-Dichloroethane-d4	*843*		*"*	*886*		*95.2*	*67-141*			
Surrogate: Toluene-d8	*899*		*"*	*864*		*104*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1420*		*"*	*1530*		*93.1*	*56-127*			

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Notes and Definitions

QL-1L	The LCS and/or LCSD recoveries fell below the established control specifications for this analyte. Any result for this compound is qualified and should be considered biased low.
QL-1H	The LCS and/or LCSD recoveries fell above the established control specifications for this analyte. Any result for this compound is qualified and should be considered biased high.
QL-1H	The LCS and/or LCSD recoveries fell above the established control specifications for this analyte. Any result for this compound is qualified and should be considered biased high.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).
C-Low	The percent recovery for this analyte fell below the method criteria in the continuing calibration verification (CCV). Results may be biased low.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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Gilbane Company	Project: GIL042114-A1 Rev	
2934 Gold Pan Court, Ste 12	Project Number: 9804-07163.0064 South Gate	Reported:
Rancho Cordova, CA 95670	Project Manager: Mr. Don Gruber	16-Jun-14 13:35

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory (Certification # L11-175) in accordance with the DoD-ELAP program. H&P is approved by the State of Arizona under Certification Numbers AZM758 and AZ0779. H&P is approved as an Environmental Laboratory in conformance with the Environmental Laboratory Accreditation Program (CA) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste for the following methods:

Certificate# 2741, 2743, 2579, 2754 & 2740 approved for EPA 8260 and LUFT GC/MS
Certificate# 2742, 2745, & 2741 approved for LUFT
Certificate# 2745 & 2742 approved for EPA 418.1

H&P Mobile Geochemistry, Inc. is approved as an Environmental Laboratory in conformance with the National Environmental Accreditation Conference Standards for the category Environmental Analysis Air and Emissions for the following analytes and methods:

Hexachlorobutadiene by EPA TO-15 & TO-14A
1,2,4-Trichlorobenzene by EPA TO-15 & TO-14A
1,2-Dichlorobenzene by EPA TO-15 & TO-14A
Dichlorotetrafluoroethane by EPA TO-14A
1,4-Dichlorobenzene by EPA TO-15 & TO-14A
Benzene by EPA TO-15 & TO-14A
Chlorobenzene by EPA TO-15 & TO-14A
Ethyl benzene by EPA TO-15 & TO-14A
Styrene by EPA TO-15 & TO-14A
Toluene by EPA TO-15 & TO-14A
Total Xylenes by EPA TO-15
1,1,1-Trichloroethane by EPA TO-15 & TO-14A
1,1,2,2-Tetrachloroethane by EPA TO-15 & TO-14A
1,1,2-Trichloroethane by EPA TO-15 & TO-14A
1,1-Dichloroethane by EPA TO-15 & TO-14A
1,1-Dichloroethene by EPA TO-15 & TO-14A
1,2-Dichloroethane by EPA TO-15 & TO-14A
1,2-Dichloropropane by EPA TO-15 & TO-14A
Benzyl Chloride by EPA TO-15 & TO-14A
Bromoform by EPA TO-15
Bromomethane by EPA TO-15 & TO-14A
Carbon tetrachloride by EPA TO-15 & TO-14A
Chloroethane by EPA TO-15 & TO-14A
Chloroform by EPA TO-15 & TO-14A
Chloromethane by EPA TO-15 & TO-14A
cis-1,2-Dichloroethene by EPA TO-15 & TO-14A
cis-1,3-Dichloropropene by EPA TO-15 & TO-14A
Methylene chloride by EPA TO -15 & TO-14A
Tetrachloroethane by EPA TO-15 & TO-14A
trans-1,2-Dichloroethene by EPA TO-15
trans-1,3-Dichloropropene by EPA TO-15 & TO-14A
Trichloroethene by EPA TO-15 & TO-14A
Vinyl chloride by EPA TO -15
2-Butanone by EPA TO-15
4-Methyl-2-Pentanone by EPA TO-15
Hexane by EPA TO-15
Methyl tert-butyl ether by EPA TO-15
Vinyl acetate by EPA TO-15

1,3-Dichlorobenzene by EPA TO-15 & TO-14A
Trichlorofluoromethane by EPA TO-14A
Naphthalene by H&P SOP TO-15/GC-MS
1,2-Dibromoethane (EDB) by EPA TO-15 & TO-14A
1,2-Dibromo-3-chloropropane by EPA TO-15
1,3-Butadiene by EPA TO-15
1,1,2-Trichlorotrifluoroethane by EPA TO-14A
Carbon disulfide by EPA TO-15
1,4-Dioxane by EPA TO-15

This certification applies to samples analyzed in summa canisters.

H&P Mobile Geochemistry, Inc.
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VAPOR / AIR Chain of Custody

DATE: 4/21/14
Page 1 of 2

Lab Client and Project Information

Lab Client/Consultant: Gilbane Company	Project Name / #: 9804-07163.0064 South Gate
Lab Client Project Manager: Don Gruber	Project Location: 5211 Southern Ave. South Gate, CA
Lab Client Address: 2934 Gold Pan Court Ste 12	Report E-Mail(s): dgruber@gilbaneco.com egilleva@gilbaneco.com
Lab Client City, State, Zip: Rancho Cordova, CA 95670	
Phone Number: 916-853-1839	

Sample Receipt (Lab Use Only)

Date Rec'd: 4/21/14	Control #: 140290.00/.01
H&P Project # GLO42114-A1	
Lab Work Order # E404066/ED42104	
Sample Intact: ☐ Yes ☐ No ☐ See Notes Below	
Receipt Gauge ID:	Temp:
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

Reporting Requirements

- ☒ Standard Report ☐ Level III ☐ Level IV
- ☒ Excel EDD ☐ Other EDD: _____
- ☐ CA Geotracker Global ID: _____

Turnaround Time

- ☐ 5-7 day Stnd ☐ 24-Hr Rush
- ☐ 3-day Rush ☒ Mobile Lab
- ☐ 48-Hr Rush ☐ Other: ____

Sampler Information

Sampler(s): E. Corson
Signature: [signature]
Date: 4/21/14

Additional Instructions to Laboratory:

☒ Check if Project Analyte List is Attached

** Preferred VOC units (please choose one):*

☐ µg/L ☒ µg/m³ ☐ ppbv ☐ ppmv

SAIA-SB/ SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☐ 8260SV ☐ TO-15	VOCs Short List / Project List ☒ 8260SV ☐ TO-15 Client	Oxygenates ☐ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15 ☐ TO-17m	TPHv as Gas ☐ 8260SVm ☐ TO-15m	TPHv as Diesel (sorbent tube) ☐ TO-17m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound ☐ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2			
SG23-5 1PV	P433cc	04/21/14	0918	SV	Glass Syringe	99			X						X					
SG23-5 3PV	P1799cc		1001	SV		86			X						X					
SG23-5 10PV	P4330cc		1043	SV		42			X						X					
SG23-15 1PV	P481cc		1115	SV		121			X						X					
SG23-15 3PV	P1444cc		1139	SV		85			X						X					
SG23-15 10PV	P4814cc		1248	SV		85			X						X					
SG23-25 1PV	P530cc		1316	SV		99			X						X					
SG23-35 1PV	P578cc		1347	SV		121			X						X					
SG23-25 3PV	P1589cc		1414	SV		86			X						X					
SG23-35 3PV	P1734cc	↓	1447	SV	↓	121			X						X					

	Company:	Date:	Time:		Company:	Date:	Time:
Approved/Relinquished by: [signature]	Gilbane	4-21-14	1423	Received by: [signature]	H&P	4/21/14	16:25
Approved/Relinquished by:				Received by:			
Approved/Relinquished by:				Received by:			

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

Rev 12/31/2013

H&P Mobile Geochemistry, Inc.

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VAPOR / AIR Chain of Custody

DATE: 4/21/14
Page 2 of 2

Lab Client and Project Information

Lab Client/Consultant: Gilbane Company	Project Name /#: 9806-07163.0064 Swth. Gate
Lab Client Project Manager: Don Gruber	Project Location: 5211 Southern Ave, South Gate, CA
Lab Client Address: 2934 Gold Pan Court Ste 12	Report E-Mail(s): dgruber@gilbaneco.com
Lab Client City, State, Zip: Rancho Cordova, CA 95670	egillera@gilbaneco.com
Phone Number: 916 853 1839	

Reporting Requirements

- [x] Standard Report [ ] Level III [ ] Level IV
- [x] Excel EDD [ ] Other EDD: _____
- [ ] CA Geotracker Global ID: _____

Turnaround Time

- [ ] 5-7 day Stnd [ ] 24-Hr Rush
- [ ] 3-day Rush [x] Mobile Lab
- [ ] 48-Hr Rush [ ] Other: _____

Sampler Information

Sampler(s): E. Carson
Signature: [signature]
Date: 4-21-2014

Sample Receipt (Lab Use Only)

Date Rec'd: 4/21/14 Control #: 140290.00/.01
H&P Project #: GIL042114-A1
Lab Work Order #: E404066/ED42104
Sample Intact: [x] Yes [ ] No [ ] See Notes Below
Receipt Gauge ID: Temp:
Outside Lab:
Receipt Notes/Tracking #:
Lab PM Initials:

Additional Instructions to Laboratory:

- [x] Check if Project Analyte List is Attached

** Preferred VOC units (please choose one):*

- [ ] µg/L [x] µg/m³ [ ] ppbv [ ] ppmv

SAIA-SB/ SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List [ ] 8260SV [ ] TO-15	VOCs Short List / Project List [x] 8260SV [x] TO-15 C1-C4	Oxygenates [ ] 8260SV [ ] TO-15	Naphthalene [ ] 8260SV [ ] TO-15 [ ] TO-17m	TPHv as Gas [ ] 8260SVm [ ] TO-15m	TPHv as Diesel (sorbent tube) [ ] TO-17m	Aromatic/Aliphatic Fractions [ ] 8260SVm [ ] TO-15m	Leak Check Compound [x] DFA [ ] IPA [ ] He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 [ ] CO2 [ ] O2 [ ] N2			
SG23-25, 10PV	P5298cc	04/21/14	1523	SV	Glass syringe	42			X						X					
SG23-35 10PV	P5782cc	↓	1546	SV	↓	85			X						X					

Approved/Relinquished by: [signature]	Company: Gilbane	Date: 4-21-14	Time: 1423	Received by: [signature]	Company: H&P	Date: 4/21/14	Time: 16:25
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

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VAPOR / AIR Chain of Custody

DATE: 4/22/14
Page 1 of 2

Lab Client and Project Information

Lab Client/Consultant: Gilbane Company	Project Name / #: 9804-07163.0064 South Gate
Lab Client Project Manager: Don Gruber	Project Location: 5211 Southern Ave. South Gate, CA
Lab Client Address: 2934 Gold Pan Ct Ste 12	Report E-Mail(s): dgruber@gilbaneco.com egillera@gilbaneco.com
Lab Client City, State, Zip: Rancho Cordova, CA 95670	
Phone Number: 916-853-1839	

Sample Receipt (Lab Use Only)

Date Rec'd: 4/22/2014	Control #: 140390.00/.01
H&P Project # GIL042114-A1	
Lab Work Order #: E404070/ED42206	
Sample Intact: ☒ Yes ☐ No ☐ See Notes Below	
Receipt Gauge ID:	Temp:
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

Reporting Requirements

- ☒ Standard Report ☐ Level III ☐ Level IV
- ☒ Excel EDD ☐ Other EDD: _____
- ☐ CA Geotracker Global ID: _____

Turnaround Time

- ☐ 5-7 day Stnd ☐ 24-Hr Rush
- ☐ 3-day Rush ☒ Mobile Lab
- ☐ 48-Hr Rush ☐ Other: ____

Sampler Information

Sampler(s): E. Corson
Signature: E. Corson
Date: 4/22/14

Additional Instructions to Laboratory:

☐ Check if Project Analyte List is Attached

Purge volumes corrected per sampling log sheet

*** Preferred VOC units (please choose one):**

☐ µg/L ☒ µg/m³ ☐ ppbv ☐ ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☐ 8260SV ☐ TO-15	VOCs Short List / Project List ☐ 8260SV ☒ TO-15 Arom	Oxygenates ☐ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15 ☐ TO-17m	TPHv as Gas ☐ 8260SVm ☐ TO-15m	TPHv as Diesel (sorbent tube) ☐ TO-17m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound ☒ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2			
SG39-5	P1794cc	042214	1014	SV	Glass Syringe	85			X						X					
SG39-15	P1444cc		1050	SV		121			X						X					
SG39-25	P530cc		1118	SV		86			X						X					
SG39-35	P578cc		1140	SV		99			X						X					
SG38-5	P1794cc		1300	SV		121			X						X					
SG38-15	P1444cc		1322	SV		99			X						X					
SG38-15 Rep	P1794cc		1346	SV		42			X						X					
SG38-25	P530cc		1408	SV		85			X						X					
SG38-35	P578cc		1430	SV		86			X						X					
SG37-5	P1794cc		1533	SV		42			X						X					

	Company	Date	Time		Company	Date	Time
Approved/Relinquished by:	Gilbane	4-22-14	1630	Received by:	H&P	4-22-14	1636
Approved/Relinquished by:				Received by:			
Approved/Relinquished by:				Received by:			

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VAPOR / AIR Chain of Custody

DATE: 4/22/14

Lab Client and Project Information

Lab Client/Consultant: Gilbane Company
Lab Client Project Manager: Don Gruber
Lab Client Address: 2934 Gold Pan Ct, Ste 12
Lab Client City, State, Zip: Rancho Cordova, CA, 95670
Phone Number:

Project Name / #: 9804-07163.0064
Project Location: 5211 Southern Ave, South Gate, CA
Report E-Mail(s): dgruber@gilbaneco.com
ejillera@gilbaneco.com

Sample Receipt (Lab Use Only)

Date Rec'd: 4/22/14 Control #: 140290.00/.01
H&P Project #: GIL042114-A1
Lab Work Order #: E404070/ED42206
Sample Intact: ☒ Yes ☐ No ☐ See Notes Below
Receipt Gauge ID: Temp:
Outside Lab:
Receipt Notes/Tracking #:
Lab PM Initials:

Reporting Requirements

☒ Standard Report ☐ Level III ☐ Level IV
☒ Excel EDD ☐ Other EDD:
☐ CA Geotracker Global ID:

Turnaround Time

☐ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☒ Mobile Lab
☐ 48-Hr Rush ☐ Other:

Sampler Information

Sampler(s): E. Corson
Signature:
Date: 4/22/14

Additional Instructions to Laboratory: Purge volumes corrected per sampling log

☐ Check if Project Analyte List is Attached

** Preferred VOC units (please choose one):*

☐ µg/L ☒ µg/m³ ☐ ppbv ☐ ppmv

SAIA-SB/ SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☐ 8260SV ☐ TO-15	VOCs Short List / Project List ☐ 8260SV ☒ TO-15	Oxygenates ☐ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15 ☐ TO-17m	TPHv as Gas ☐ 8260SVm ☐ TO-15m	TPHv as Diesel (sorbent tube) ☐ TO-17m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound ☒ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2			
SG37-15	P 1444 cc 913cc	042214	1555	SV	Glass Syringe	99			X						X					

Approved/Relinquished by:	Company: Gilbane	Date: 4-22-14	Time: 1630	Received by:	Company: H&P	Date: 4/22/14	Time: 1630
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

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VAPOR / AIR Chain of Custody

DATE: 4-23-14
Page 1 of 2

Lab Client and Project Information

Lab Client/Consultant: Gilbane Company	Project Name / #: 9804-07163.0064 South Gate
Lab Client Project Manager: Don Gruber	Project Location: 5211 Southern Ave, South Gate, CA
Lab Client Address: 7934 Gold Pan Ct. Ste 12	Report E-Mail(s): dgruber@gilbaneco.com egillera@gilbaneco.com
Lab Client City, State, Zip: Rancho Cordova, CA 95670	
Phone Number: 916-853-1839	

Reporting Requirements
- [ ] Standard Report [ ] Level III [ ] Level IV
- [x] Excel EDD [ ] Other EDD:
- [ ] CA Geotracker Global ID:

Turnaround Time
- [ ] 5-7 day Stnd [ ] 24-Hr Rush
- [ ] 3-day Rush [x] Mobile Lab
- [ ] 48-Hr Rush [ ] Other:

Sampler Information
Sampler(s): Andrew Vaguer
Signature:
Date: 4/23/14

Sample Receipt (Lab Use Only)

Date Rec'd: 4-23-2014	Control #: 140790.00/.01
H&P Project #: GIL042114-A2	
Lab Work Order #: E404074/EDH2304	
Sample Intact: [x] Yes [ ] No [ ] See Notes Below	
Receipt Gauge ID:	Temp:
Outside Lab:	
Receipt Notes/Tracking #:	Lab PM Initials:

Additional Instructions to Laboratory: Purge volumes corrected per sampling logs ge

- [x] Check if Project Analyte List is Attached
- *Preferred VOC units (please choose one):* [ ] µg/L [x] µg/m³ [ ] ppbv [ ] ppmv

SAIA-SB/ SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☐ 8260SV ☐ TO-15	VOCs Short List / Project List ☐ 8260SV ☒ TO-15	Oxygenates ☐ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15 ☐ TO-17m	TPHv as Gas ☐ 8260SVm ☐ TO-15m	TPHv as Diesel (sorbent tube) ☐ TO-17m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound ☐ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2			
SG36-5	P1249cc (816)	04/23/14	0842	SV	Glass Syringe	86			X						X					
SG36-15	P1444cc (913)		0908	SV		99			X						X					
SG-36-25	P530cc		0929	SV		85			X						X					
SG36-35	P578cc		1003	SV		42			X						X					
SG24-5	P1249cc (816)		1107	SV		99			X						X					
SG-24-15	P1444cc (913)		1125	SV		86			X						X					
SG24-25	P530cc		1241	SV		86			X						X					
SG24-35	P578cc		1305	SV		42			X						X					
SG26-5	P1249cc (816cc)		1425	SV		99			X						X					
SG26-5 Rep	P1349cc (860)		1499	SV		86			X						X					

Approved/Relinquished by:	Company: Gilbane	Date: 4-23-14	Time: 1632	Received by:	Company: H&P	Date: 4/23/14	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

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VAPOR / AIR Chain of Custody

DATE: 4-23-14
Page 2 of 2

Lab Client and Project Information

Lab Client/Consultant: Gilbane Company	Project Name / #: 9804-07163.0064 South Gate
Lab Client Project Manager: Don Gruber	Project Location: 5211 Southern Ave South Gate, CA
Lab Client Address: 2734 Gold Pan Ct, Ste 12	Report E-Mail(s): dgruber@gilbaneco.com egillera@gilbaneco.com
Lab Client City, State, Zip: Rancho Cordova, CA 95670	
Phone Number: 916-853-1839	

Sample Receipt (Lab Use Only)

Date Rec'd: 4-23-2014	Control #: 140290.00/.01
H&P Project #: GIL042114-AZ	
Lab Work Order #: E404074/E1242304	
Sample Intact: [X] Yes [ ] No [ ] See Notes Below	
Receipt Gauge ID:	Temp:
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

Reporting Requirements

- [X] Standard Report [ ] Level III [ ] Level IV
- [X] Excel EDD [ ] Other EDD:
- [ ] CA Geotracker Global ID:

Turnaround Time

- [ ] 5-7 day Stnd [ ] 24-Hr Rush
- [ ] 3-day Rush [X] Mobile Lab
- [ ] 48-Hr Rush [ ] Other:

Sampler Information

Sampler(s): Andrew Wagner
Signature: Andrew Wagner
Date: 4/23/14

Additional Instructions to Laboratory:

purge volumes corrected per sampling log sht

- [ ] Check if Project Analyte List is Attached

** Preferred VOC units (please choose one):*

- [ ] µg/L [X] µg/m³ [ ] ppbv [ ] ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List [ ] 8260SV [ ] TO-15	VOCs Short List / Project List [ ] 8260SV [ ] TO-15	Oxygenates [ ] 8260SV [ ] TO-15	Naphthalene [ ] 8260SV [ ] TO-15 [ ] TO-17m	TPHv as Gas [ ] 8260SVm [ ] TO-15m	TPHv as Diesel (sorbent tube) [ ] TO-17m	Aromatic/Aliphatic Fractions [ ] 8260SVm [ ] TO-15m	Leak Check Compound [ ] DFA [ ] IPA [ ] He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 [ ] CO2 [ ] O2 [ ] N2			
SG26-15	P1413 1444cc	042314	1543	SV	Glass Syringe	86														

Approved/Relinquished by:	Company: Gilbane	Date: 4-23-14	Time: 1637	Received by:	Company: H&P	Date: 4/23/14	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

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VAPOR / AIR Chain of Custody

DATE: 4/24/14
Page 1 of 2

Lab Client and Project Information

Lab Client/Consultant: Gilbane Company	Project Name / #: 9804-07163.0064 South Gate
Lab Client Project Manager: Don Gruber	Project Location: 5211 Southern Ave South Gate, CA
Lab Client Address: 2934 Gold Pan Ct, Ste 12	Report E-Mail(s): dgruber@gilbaneco.com egillera@gilbaneco.com
Lab Client City, State, Zip: Rancho Cordova, CA, 95670	
Phone Number: 918-853-1839	

Reporting Requirements
- ☐ Standard Report ☐ Level III ☐ Level IV
- ☒ Excel EDD ☐ Other EDD:
- ☐ CA Geotracker Global ID:

Turnaround Time
- ☐ 5-7 day Stnd ☐ 24-Hr Rush
- ☐ 3-day Rush ☒ Mobile Lab
- ☐ 48-Hr Rush ☐ Other:

Sampler Information
- Sampler(s): Andrew Wagner
- Signature:
- Date: 4/24/14

Sample Receipt (Lab Use Only)

Date Rec'd: 4/24/14	Control #: 140290.00/.01
H&P Project #: GIL042114-A1	
Lab Work Order #: E404080/ED42401	

Sample Intact: ☒ Yes ☐ No ☐ See Notes Below

Receipt Gauge ID: Temp:

Outside Lab:

Receipt Notes/Tracking #:

Lab PM Initials:

Additional Instructions to Laboratory: Purge volumes corrected per sampling logs use

☒ Check if Project Analyte List is Attached

** Preferred VOC units (please choose one):*

☐ µg/L ☒ µg/m³ ☐ ppbv ☐ ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☐ 8260SV ☐ TO-15	VOCs Short List / Project List ☐ 8260SV ☒ TO-15	Oxygenates ☐ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15 ☐ TO-17m	TPHv as Gas ☐ 8260SVm ☐ TO-15m	TPHv as Diesel (sorbent tube) ☐ TO-17m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound ☒ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2			
SAIA-SB/																				
SG26-25	P530cc	042414	0825	SV	Glass syringe	99			X						X					
SG29-5	P1794cc 816		0945	SV		86			X						X					
SG29-15	P1444cc 913		1005	SV		85			X						X					
SG29-25	P530cc		1030	SV		99			X						X					
SG29-35	P578cc		1051	SV		121			X						X					
SG28-5	P1799cc 816		1117	SV		86			X						X					
SG28-15	P1444cc 816 913cc		1144	SV		42			X						X					
SG28-15 Rep	P1494cc 816cc		1206	SV		86			X						X					
SG28-35	P578cc		1240	SV		99			X						X					
SG31-5	P1794cc 816	↓	1336	SV	↓	42			X						X					

Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
	Gilbane	4-24-14	1622		H&P	4/24/14	1625
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

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VAPOR / AIR Chain of Custody

DATE: 4/24/14

Lab Client and Project Information

Lab Client/Consultant: Gilbane Company
Lab Client Project Manager: Don Gruber
Lab Client Address: 2934 Gold Pan Ct. Ste 12
Lab Client City, State, Zip: Rancho Cordova, CA 95670
Phone Number: 918-853-1839

Project Name / #: 9804-07163.0064 South Gate
Project Location: 5211 Southern Ave South Gate, CA
Report E-Mail(s): dgruber@gilbaneco.com
egillera@gilbaneco.com

Reporting Requirements

- [x] Standard Report
- [ ] Level III
- [ ] Level IV
- [x] Excel EDD
- [ ] Other EDD:
- [ ] CA Geotracker Global ID:

Turnaround Time

- [ ] 5-7 day Stnd
- [ ] 24-Hr Rush
- [ ] 3-day Rush
- [x] Mobile Lab
- [ ] 48-Hr Rush
- [ ] Other:

Sampler Information

Sampler(s): Andrew Wagner
Signature: Andrew Wagner
Date: 4/24/14

Sample Receipt (Lab Use Only)

Date Rec'd:
Control #: 140290.00/.01
H&P Project # GIL042114-A1
Lab Work Order #
Sample Intact: [x] Yes [ ] No [ ] See Notes Below
Receipt Gauge ID:
Temp:
Outside Lab:
Receipt Notes/Tracking #:
Lab PM Initials:

Additional Instructions to Laboratory: Purge volumes corrected per sampling log

- [ ] Check if Project Analyte List is Attached

** Preferred VOC units (please choose one):*

- [ ] µg/L
- [x] µg/m³
- [ ] ppbv
- [ ] ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☐ 8260SV ☐ TO-15	VOCs Short List / Project List ☐ 8260SV ☒ TO-15	Oxygenates ☐ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15 ☐ TO-17m	TPHv as Gas ☐ 8260SVm ☐ TO-15m	TPHv as Diesel (sorbent tube) ☐ TO-17m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound ☒ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2			
SAIA-SB1	P1444cc (413)	042414	1406	SV	Glass syringe	86			X						X					
SG31-15	P530cc		1430	SV		121			X						X					
SG31-25	P578cc		1454	SV		99			X						X					
SG31-35	P1744 916cc		1527	SV		85			X						X					
SG30-5	P1444 913cc	↓	1555	SV	↓	86			X						X					

Approved/Relinquished by	Company	Date	Time	Received by	Company	Date	Time
	Gilbane	4-24-14	1622		H&P	4/24/14	16:25

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VAPOR / AIR Chain of Custody

DATE: 4/25/14
Page 1 of 2

Lab Client and Project Information

Lab Client/Consultant: Gilbane Company	Project Name / #: 9804-07163.0064 South Gate
Lab Client Project Manager: Don Gruber	Project Location: 5211 Southern Ave South Gate, CA
Lab Client Address: 2934 Gold Pan Ct, Suite 12	Report E-Mail(s): dgruber@gilbaneco.com
Lab Client City, State, Zip: Rancho Cordova, CA 95670	esillera@gilbaneco.com
Phone Number: 916 853-1839	

Sample Receipt (Lab Use Only)

Date Rec'd: 4/25/14	Control #: 140290.00/.01
H&P Project #: GIL042114-A1	
Lab Work Order #: E404085/ED42501	
Sample Intact: ☒ Yes ☐ No ☐ See Notes Below	
Receipt Gauge ID:	Temp:
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

Reporting Requirements

☒ Standard Report ☐ Level III ☐ Level IV
☒ Excel EDD ☐ Other EDD: _____
☐ CA Geotracker Global ID: _____

Turnaround Time

☐ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☒ Mobile Lab
☐ 48-Hr Rush ☐ Other: _____

Sampler Information

Sampler(s): KURT SCHNEIDER
Signature:
Date: 4/25/2014

Additional Instructions to Laboratory:

☐ Check if Project Analyte List is Attached

** Preferred VOC units (please choose one):*

☐ µg/L ☒ µg/m³ ☐ ppbv ☐ ppmv

SAMPLE NAME (SAIA-SB/)	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☐ 8260SV ☐ TO-15	VOCs Short List / Project List ☐ 8260SV ☒ TO-15	Oxygenates ☐ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15 ☐ TO-17m	TPHv as Gas ☐ 8260SVm ☐ TO-15m	TPHv as Diesel (sorbent tube) ☐ TO-17m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound ☒ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2			
SG30-25	P530cc	04/25/14	0904	SV	Glass syringe	85			X						X					
SG30-35	P578cc		0927	SV		86			X						X					
SG32-5	P816cc		0946	SV		121			X						X					
SG32-15	P913cc		1013	SV		42			X						X					
SG32-25	P530cc		1035	SV		99			X						X					
SG32-35	P578cc		1055	SV		121			X						X					
SG33-5	P816cc		1122	SV		85			X						X					
SG33-5 Rep	P866cc		1144	SV		42			X						X					
SG33-15	P913cc		1212	SV		99			X						X					
SG33-25	P530cc	↓	1248	SV	↓	121			X						X					

Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
	Gilbane	4-25-14	1522		H&P	4/25/14	15:24
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

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VAPOR / AIR Chain of Custody

DATE: 4/25/14

Lab Client and Project Information

Lab Client/Consultant: Gilbane Company
Lab Client Project Manager: Don Gruber
Lab Client Address: 2934 Gold Pan Ct. Ste 12
Lab Client City, State, Zip: Rancho Cordova, CA 95670
Phone Number: 916 853 1839

Project Name / #: 9804-07163.0064 South Gate
Project Location: 5211 Southern Ave, South Gate, CA
Report E-Mail(s): dgruber@gilbaneco.com
egillera@gilbaneco.com

Reporting Requirements

[X] Standard Report [ ] Level III [ ] Level IV
[X] Excel EDD [ ] Other EDD:
[ ] CA Geotracker Global ID:

Turnaround Time

[ ] 5-7 day Stnd [ ] 24-Hr Rush
[ ] 3-day Rush [X] Mobile Lab
[ ] 48-Hr Rush [ ] Other:

Sampler Information

Sampler(s): Kurt Schindler
Signature:
Date: 4/25/2014

Sample Receipt (Lab Use Only)

Date Rec'd: 4/25/14
Control #: 140290.00/.01
H&P Project #: GIL042114-A1
Lab Work Order #: E404085
Sample Intact: [X] Yes [ ] No [ ] See Notes Below
Receipt Gauge ID:
Temp:
Outside Lab:
Receipt Notes/Tracking #:
Lab PM Initials:

Additional Instructions to Laboratory:

[ ] Check if Project Analyte List is Attached

** Preferred VOC units (please choose one):*

[ ] µg/L [X] µg/m³ [ ] ppbv [ ] ppmv

SAIA-SB/ SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List [ ] 8260SV [ ] TO-15	VOCs Short List / Project List [ ] 8260SV [X] TO-15	Oxygenates [ ] 8260SV [ ] TO-15	Naphthalene [ ] 8260SV [ ] TO-15 [ ] TO-17m	TPHv as Gas [ ] 8260SVm [ ] TO-15m	TPHv as Diesel (sorbent tube) [ ] TO-17m	Aromatic/Aliphatic Fractions [ ] 8260SVm [ ] TO-15m	Leak Check Compound [X] DFA [ ] IPA [ ] He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 [ ] CO2 [ ] O2 [ ] N2			
SG33-35	P578cc	04/25/14	1319	SV	Glass Syringe	86			X						X					
SG34-5	P816cc	↓	1349	SV	↓	42			X						X					
SG34-15	P913cc		1413	SV		85			X						X					
SG34-25	P530cc		1434	SV		99			X						X					
SG34-35	P578cc	↓	1455	SV	↓	86			X						X					

Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
	Gilbane	4-25-14	1522		H&P	4/25/14	1524
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

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2470 Impala Drive, Carlsbad, CA 92010
& Field Office - Signal Hill, CA
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VAPOR / AIR Chain of Custody

DATE: 4-28-14
Page 1 of 2

Lab Client and Project Information

Lab Client/Consultant: Gilbane Company	Project Name / #: 9807-07163.0064 South Gate
Lab Client Project Manager: Don Gruber	Project Location: 5211 Southern Ave, South Gate, CA
Lab Client Address: 2934 Gold Pan Ct Ste 12	Report E-Mail(s): dgruber@gilbaneco.com cgillera@gilbaneco.com
Lab Client City, State, Zip: Rancho Cordova, CA. 95670	
Phone Number: 916-853-1839	

Sample Receipt (Lab Use Only)

Date Rec'd: 4-28-2014	Control #: 140290.00/.01
H&P Project # GIL042114-A1	
Lab Work Order # E404090 / ED42803	
Sample Intact: [X] Yes [ ] No [ ] See Notes Below	
Receipt Gauge ID:	Temp:
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

Reporting Requirements

[X] Standard Report [ ] Level III [ ] Level IV
[X] Excel EDD [ ] Other EDD: _____
[ ] CA Geotracker Global ID: _____

Turnaround Time

[ ] 5-7 day Stnd [ ] 24-Hr Rush
[ ] 3-day Rush [X] Mobile Lab
[ ] 48-Hr Rush [ ] Other: _____

Sampler Information

Sampler(s): Andrew Wagner
Signature: [signature]
Date: 4/25/14

Additional Instructions to Laboratory:

[ ] Check if Project Analyte List is Attached

** Preferred VOC units (please choose one):*

[ ] µg/L [X] µg/m³ [ ] ppbv [ ] ppmv

SAIA-SB/ SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List [ ] 8260SV [ ] TO-15	VOCs Short List / Project List [ ] 8260SV [X] TO-15	Oxygenates [ ] 8260SV [ ] TO-15	Naphthalene [ ] 8260SV [ ] TO-15 [ ] TO-17m	TPHv as Gas [ ] 8260SVm [ ] TO-15m	TPHv as Diesel (sorbent tube) [ ] TO-17m	Aromatic/Aliphatic Fractions [ ] 8260SVm [ ] TO-15m	Leak Check Compound [X] DFA [ ] IPA [ ] He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 [ ] CO2 [ ] O2 [ ] N2			
SG35-5	P816cc	04/28/14	0843	SV	Glass syringe	86			X						X	1	1			
SG35-15	P913cc		0917	SV		99			X						X					
SG35-25	P530cc		0942	SV		85			X						X					
SG35-35	P578cc		1007	SV		121			X						X					
SG25-5	P816cc		1040	SV		86			X						X					
SG25-15	P913cc		1104	SV		85			X						X					
SG25-15 Rep	P963cc		1129	SV		99			X						X					
SG25-35	P578cc		1204	SV		42			X						X					
SG25-25	P530cc		1306	SV		85			X						X					
SG27-5	P816cc		1342	SV		42			X						X					

	Company	Date	Time		Company	Date	Time
Approved/Relinquished by: [signature]	Gilbane	4-28-14	1624	Received by: [signature]	H&P	4/28/14	1627
Approved/Relinquished by:				Received by:			
Approved/Relinquished by:				Received by:			

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VAPOR / AIR Chain of Custody

DATE: 4-28-2014
Page 2 of 2

Lab Client and Project Information

Lab Client/Consultant: Gilbane Company	Project Name / #: 9807-07163.0004 South Gate
Lab Client Project Manager: Don Gruber	Project Location: 5211 Southern Ave South Gate, CA
Lab Client Address: 2934 Gold Pan Ct Ste 12	Report E-Mail(s): dgruber@gilbaneco.com agillera@gilbaneco.com
Lab Client City, State, Zip: Rancho Cordova, CA. 95670	
Phone Number: 916-853-1839	

Reporting Requirements

- [x] Standard Report [ ] Level III [ ] Level IV
- [x] Excel EDD [ ] Other EDD: _____
- [ ] CA Geotracker Global ID: _____

Turnaround Time

- [ ] 5-7 day Stnd [ ] 24-Hr Rush
- [ ] 3-day Rush [x] Mobile Lab
- [ ] 48-Hr Rush [ ] Other: _____

Sampler Information

Sampler(s): Andrew Wagner
Signature: Andrew Wagner
Date: 4/28/14

Sample Receipt (Lab Use Only)

Date Rec'd: 4-28-2014	Control #: 140290.001.01
H&P Project # GIL042114-A1	
Lab Work Order # E404090/ED42803	
Sample Intact: [x] Yes [ ] No [ ] See Notes Below	
Receipt Gauge ID:	Temp:
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

Additional Instructions to Laboratory:

- [ ] Check if Project Analyte List is Attached

** Preferred VOC units (please choose one):*

- [ ] µg/L [x] µg/m³ [ ] ppbv [ ] ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List [ ] 8260SV [ ] TO-15	VOCs Short List / Project List [ ] 8260SV [x] TO-15	Oxygenates [ ] 8260SV [ ] TO-15	Naphthalene [ ] 8260SV [ ] TO-15 [ ] TO-17m	TPHv as Gas [ ] 8260SVm [ ] TO-15m	TPHv as Diesel (sorbent tube) [ ] TO-17m	Aromatic/Aliphatic Fractions [ ] 8260SVm [ ] TO-15m	Leak Check Compound [x] DFA [ ] IPA [ ] He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 [ ] CO2 [ ] O2 [ ] N2			
SG27-15	P913cc	04/28/14	1450	SV	Glass Syringe	86			X						X					
SG27-25	P530cc		1540	SV		99			X						X					

Approved/Relinquished by:	Company: Gilbane	Date: 4-28-14	Time: 1624	Received by:	Company: H&P	Date: 4/28/14	Time: 1677
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

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VAPOR / AIR Chain of Custody

DATE: 4-29-14
Page 1 of ____

Lab Client and Project Information

Lab Client/Consultant: Gilbane Company
Lab Client Project Manager: Don Gruber
Lab Client Address: 2934 Gold Pan Ct, Ste 12
Lab Client City, State, Zip: Rancho Cordova, CA, 95670
Phone Number: 916-953-1939

Project Name / #: 9504-07163, 0064 South Gate
Project Location: 5211 Southern Ave, South Gate, CA
Report E-Mail(s): dgruber@gilbaneco.com
egillera@gilbaneco.com

Reporting Requirements

☒ Standard Report ☐ Level III ☐ Level IV
☒ Excel EDD ☐ Other EDD: _____
☐ CA Geotracker Global ID: _____

Turnaround Time

☐ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☒ Mobile Lab
☐ 48-Hr Rush ☐ Other: ____

Sampler Information

Sampler(s): Andrew Wagner
Signature:
Date: 4/29/14

Sample Receipt (Lab Use Only)

Date Rec'd: 4-29-2014 Control #: 140290.00/.01
H&P Project # GIL047114-A1
Lab Work Order #: E404095/ED42902
Sample Intact: ☒ Yes ☐ No ☐ See Notes Below
Receipt Gauge ID: Temp:
Outside Lab:
Receipt Notes/Tracking #:
Lab PM Initials:

Additional Instructions to Laboratory:

☐ Check if Project Analyte List is Attached

Preferred VOC units (please choose one):

☐ µg/L ☒ µg/m³ ☐ ppbv ☐ ppmv

SAIA-SB/ SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☐ 8260SV ☐ TO-15	VOCs Short List / Project List ☐ 8260SV ☒ TO-15	Oxygenates ☐ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15 ☐ TO-17m	TPHv as Gas ☐ 8260SVm ☐ TO-15m	TPHv as Diesel (sorbent tube) ☐ TO-17m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound ☒ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2			
SG27-35	P578cc	04/29/14	0805	SV	Glass Syringe	99			X						X					
SG19-5	P816cc		0945	SV		42			X						X					
SG19-25	P530cc		1040	SV		121			X						X					
SG-19-15	P913cc		1237	SV		42			X						X					
SG19-35	P578cc		1351	SV		99			X						X					
SG22-5	P816cc		1443	SV		42			X						X					
SG22-5 Rep	P866cc		1502	SV		85			X						X					
SG22-15	P913cc		1532	SV		86			X						X					
SG22-25	P530cc	↓	1558	SV	↓	121			X						X					

Approved/Relinquished by:	Company: Gilbane	Date: 4-29-14	Time: 1621	Received by:	Company: H&P	Date: 4/29/14	Time: 1623
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

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VAPOR / AIR Chain of Custody

DATE: 4-30-14
Page 1 of 1

Lab Client and Project Information

Lab Client/Consultant: Gilbane Company	Project Name / #: 9804 - 07163.0064 South Gate
Lab Client Project Manager: Don Gruber	Project Location: 5211 Southern Ave, South Gate, CA
Lab Client Address: 2934 Gold Pan Ct. Ste 12	Report E-Mail(s): dgruber@gilbaneco.com, egillera@gilbaneco.com
Lab Client City, State, Zip: Rancho Cordova, CA. 95670	
Phone Number: 916 853 1839	

Reporting Requirements

- [x] Standard Report ☐ Level III ☐ Level IV
- [x] Excel EDD ☐ Other EDD:
- ☐ CA Geotracker Global ID:

Turnaround Time

- ☐ 5-7 day Stnd ☐ 24-Hr Rush
- ☐ 3-day Rush [x] Mobile Lab
- ☐ 48-Hr Rush ☐ Other:

Sampler Information

Sampler(s): Andrew Wagner
Signature:
Date: 4/30/14

Sample Receipt (Lab Use Only)

Date Rec'd: 4-30-2014	Control #: 140290.00/.01
H&P Project #: GIL042114-A1	
Lab Work Order #: E4044099/E1743003	

Sample Intact: [x] Yes ☐ No ☐ See Notes Below

Receipt Gauge ID: Temp:

Outside Lab:

Receipt Notes/Tracking #:

Lab PM Initials:

Additional Instructions to Laboratory:

☐ Check if Project Analyte List is Attached

** Preferred VOC units (please choose one):*

☐ µg/L [x] µg/m³ ☐ ppbv ☐ ppmv

SAIA-SB1 SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☐ 8260SV ☐ TO-15	VOCs Short List / Project List ☐ 8260SV [x] TO-15	Oxygenates ☐ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15 ☐ TO-17m	TPHv as Gas ☐ 8260SVm ☐ TO-15m	TPHv as Diesel (sorbent tube) ☐ TO-17m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound [x] DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2			
SG22-35	P578cc	043014	0805	SV	Glass Syringe	86			X						X					
SG22-35 Rep	P628cc		0828	SV		121			X						X					
SG21-5	P816cc		0850	SV		99			X						X					
SG21-15	P913cc		0914	SV		42			X						X					
SG21-25	P530cc		1013	SV		99			X						X					
SG21-35	P578cc		1104	SV		86			X						X					
SG20-5	P816cc		1154	SV		99			X						X					
SG20-15	P913cc		1319	SV		86			X						X					
SG20-25	P530cc	↓	1458	SV	↓	99			X						X					

	Company:	Date:	Time:		Company:	Date:	Time:
Approved/Relinquished by:	Gilbane	4-30-14	1627	Received by:	H&P	4/30/14	16:30
Approved/Relinquished by:				Received by:			
Approved/Relinquished by:				Received by:			

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VAPOR / AIR Chain of Custody

DATE: 5/1/14
Page 1 of 2

Lab Client and Project Information

Lab Client/Consultant: Gilbane Company	Project Name / #: 9804-07163.0064 South Gate
Lab Client Project Manager: Don Gruber	Project Location: 5211 Southern Ave, South Gate, CA
Lab Client Address: 2934 Gold Pan Ct Ste 12	Report E-Mail(s): dgruber@gilbaneco.com cgilleva@gilbaneco.com
Lab Client City, State, Zip: Rancho Cordova, CA 95670	
Phone Number: 916-853-1839	

Reporting Requirements
- [x] Standard Report [ ] Level III [ ] Level IV
- [x] Excel EDD [ ] Other EDD:
- [ ] CA Geotracker Global ID:

Turnaround Time
- [ ] 5-7 day Stnd [ ] 24-Hr Rush
- [ ] 3-day Rush [x] Mobile Lab
- [ ] 48-Hr Rush [ ] Other:

Sampler Information
Sampler(s): Andrew Wagner
Signature:
Date: 5/1/14

Sample Receipt (Lab Use Only)

Date Rec'd: 5-1-2014	Control #: 140290.00/.01
H&P Project # G1042114-A1	
Lab Work Order # E405001 / EE40101	
Sample Intact: [x] Yes [ ] No [ ] See Notes Below	
Receipt Gauge ID:	Temp:
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials:	

Additional Instructions to Laboratory:
- [ ] Check if Project Analyte List is Attached

** Preferred VOC units (please choose one):*
- [ ] µg/L [x] µg/m³ [ ] ppbv [ ] ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List [ ] 8260SV [ ] TO-15	VOCs Short List / Project List [ ] 8260SV [x] TO-15	Oxygenates [ ] 8260SV [ ] TO-15	Naphthalene [ ] 8260SV [ ] TO-15 [ ] TO-17m	TPHv as Gas [ ] 8260SVm [ ] TO-15m	TPHv as Diesel (sorbent tube) [ ] TO-17m	Aromatic/Aliphatic Fractions [ ] 8260SVm [ ] TO-15m	Leak Check Compound [x] DFA [ ] IPA [ ] He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 [ ] CO2 [ ] O2 [ ] N2			
SA1A-SB/ SAMPLE NAME																				
SG20-35	P578cc	05/01/14	0818	SV	Glass syringe	42			X						X					
SG40-5	P816cc		1043	SV		85			X						X					
SG40-15	P913cc		1104	SV		86			X						X					
SG40-25	P530cc		1125	SV		121			X						X					
SG40-35	P578cc		1152	SV		42			X						X					
SG40-35 Rep	P628cc		1223	SV		99			X						X					
SG41-5	P816cc		1327	SV		42			X						X					
SG41-15	P913cc		1355	SV		99			X						X					
SG41-25	P530cc		1417	SV		85			X						X					
SG41-35	P578cc	↓	1454	SV	↓	121			X						X					

	Company:	Date:	Time:		Company:	Date:	Time:
Approved/Relinquished by:	Gilbane	5/1/14	1616	Received by:	H&P	5/1/14	1616
Approved/Relinquished by:				Received by:			
Approved/Relinquished by:				Received by:			

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VAPOR / AIR Chain of Custody

DATE: 5/1/2014

Lab Client and Project Information

Lab Client/Consultant: Gilbane Company	Project Name / #: 4804-07163.0064 South Gate
Lab Client Project Manager: Don Gruber	Project Location: 5211 Southern Ave, South Gate, CA
Lab Client Address: 2434 Gold Pan Ct Ste 12	Report E-Mail(s): dgruber@gilbaneco.com
Lab Client City, State, Zip: Rancho Cordova, CA. 95670	egillera@gilbaneco.com
Phone Number: 916 853 1839	

Reporting Requirements

- [x] Standard Report [ ] Level III [ ] Level IV
- [x] Excel EDD [ ] Other EDD:
- [ ] CA Geotracker Global ID:

Turnaround TIme

- [ ] 5-7 day Stnd [ ] 24-Hr Rush
- [ ] 3-day Rush [x] Mobile Lab
- [ ] 48-Hr Rush [ ] Other:

Sampler Information

Sampler(s): Andrew Wagner
Signature:
Date: 5/1/14

Sample Receipt (Lab Use Only)

Date Rec'd: 5-1-2014	Control #: 140290.00/.01
H&P Project #: GIL042114-A1	
Lab Work Order #: E405001 / EE40101	

Sample Intact: [x] Yes [ ] No [ ] See Notes Below

Receipt Gauge ID: Temp:

Outside Lab:

Receipt Notes/Tracking #:

Lab PM Initials:

Additional Instructions to Laboratory:

- [ ] Check if Project Analyte List is Attached

** Preferred VOC units (please choose one):*

- [ ] µg/L [x] µg/m³ [ ] ppbv [ ] ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☐ 8260SV ☐ TO-15	VOCs Short List / Project List ☐ 8260SV ☒ TO-15	Oxygenates ☐ 8260SV ☐ TO-15	Naphthalene ☐ 8260SV ☐ TO-15 ☐ TO-17m	TPHv as Gas ☐ 8260SVm ☐ TO-15m	TPHv as Diesel (sorbent tube) ☐ TO-17m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound ☒ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2			
SG43-5	P816cc	05/01/14	1600	SV	Glass Syringe	42			X						X					

Approved/Relinquished by:	Company: Gilbane	Date: 5/1/14	Time: 1616	Received by:	Company: H&P	Date: 5/1/14	Time: 1625
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

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VAPOR / AIR Chain of Custody

DATE: 5/2/14
Page 1 of 1

Lab Client and Project Information

Lab Client/Consultant: Gilbane Company	Project Name / #: 9804-07103.0064 South Gate
Lab Client Project Manager: Don Gruber	Project Location: 5211 Southern Ave, South Gate, CA
Lab Client Address: 2934 Gold Pan Ct, Ste 12	Report E-Mail(s): dgruber@gilbaneco.com esillera@gilbaneco.com
Lab Client City, State, Zip: Rancho Cordova, CA 95670	
Phone Number: 916-853-1839	

Reporting Requirements
- [x] Standard Report [ ] Level III [ ] Level IV
- [x] Excel EDD [ ] Other EDD:
- [ ] CA Geotracker Global ID:

Turnaround Time
- [ ] 5-7 day Stnd [ ] 24-Hr Rush
- [ ] 3-day Rush [x] Mobile Lab
- [ ] 48-Hr Rush [ ] Other:

Sampler Information
Sampler(s): Andrew Wagner
Signature:
Date: 5/2/14

Sample Receipt (Lab Use Only)

Date Rec'd: 5/2/2014 Control #: 140290.001.01
H&P Project #: GJL042114-A1
Lab Work Order #: E405007/EE40201
Sample Intact: [x] Yes [ ] No [ ] See Notes Below
Receipt Gauge ID: Temp:
Outside Lab:
Receipt Notes/Tracking #:
Lab PM Initials:

Additional Instructions to Laboratory:
- [ ] Check if Project Analyte List is Attached
- ** Preferred VOC units (please choose one):*
- [ ] µg/L [x] µg/m³ [ ] ppbv [ ] ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List [ ] 8260SV [ ] TO-15	VOCs Short List / Project List [ ] 8260SV [x] TO-15	Oxygenates [ ] 8260SV [ ] TO-15	Naphthalene [ ] 8260SV [ ] TO-15 [ ] TO-17m	TPHv as Gas [ ] 8260SVm [ ] TO-15m	TPHv as Diesel (sorbent tube) [ ] TO-17m	Aromatic/Aliphatic Fractions [ ] 8260SVm [ ] TO-15m	Leak Check Compound [x] DFA [ ] IPA [ ] He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 [ ] CO2 [ ] O2 [ ] N2			
SG43-15	P913cc	05/2/14	0809	SV	Glass Syringe	86			X						X					
SG43-25	P530cc		0832	SV		121			X						X					
SG43-35	P578cc		0853	SV		99			X						X					
SG43-35 Rep	P628cc		0917	SV		42			X						X					
SG42-5	P816cc		1003	SV		56			X						X					
SG42-15	P913cc		1026	SV		99			X						X					
SG42-25	P530cc		1048	SV		42			X						X					
SG42-35	P578cc	↓	1114	SV	↓	121			X						X					
~~SG42-35~~																				

	Company	Date	Time
Approved/Relinquished by:	Gilbane	5-2-14	1145
Approved/Relinquished by:			
Approved/Relinquished by:			

	Company	Date	Time
Received by:	H&P	5/2/14	11:46
Received by:			
Received by:			

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Rev 12/31/2013

H&P Mobile Geochemistry, Inc.
2470 Impala Drive, Carlsbad, CA 92010
Field Office in Signal Hill, CA (Los Angeles)
Ph: 800-834-9888 www.handpmg.com

H&P Method TO-15m (Modified EPA TO-15)
ITSI South Gate April 2014

Compound - Halogenated 2012 ASGI	*CAS #*	*Mobile RL Vapor (µg/m³)*	*Mobile RL Vapor (ppbv)*
Dichlorodifluoromethane (F12)	75-71-8	25	5
Vinyl chloride	75-01-4	13	5
Bromomethane	74-83-9	39	10
Chloroethane	75-00-3	27	10
Trichlorofluoromethane (F11)	75-69-4	28	5
1,1-Dichloroethene	75-35-4	20	5
Methylene chloride (Dichloromethane)	75-09-2	18	5
1,1,2-Trichlorotrifluoroethane (F113)	76-13-1	39	5
trans-1,2-Dichloroethene	156-60-5	40	10
1,1-Dichloroethane	75-34-3	41	10
cis-1,2-Dichloroethene	156-59-2	40	10
Chloroform	67-66-3	25	5
1,2-Dichloroethane (EDC)	107-06-2	21	5
1,1,1-Trichloroethane	71-55-6	28	5
Carbon tetrachloride	56-23-5	13	2
Bromodichloromethane	75-27-4	34	5
Trichloroethene	79-01-6	27	5
1,1,2-Trichloroethane	79-00-5	28	5
Tetrachloroethene	127-18-4	34	5
1,1,1,2-Tetrachloroethane	630-20-6	35	5
1,1,2,2-Tetrachloroethane	79-34-5	35	5
Compound - Aromatics 2012 ASGI			
Benzene	71-43-2	16	5
Toluene	108-88-3	19	5
Ethylbenzene	100-41-4	22	5
m,p-Xylene	179601-23-1	44	10
o-Xylene	95-47-6	22	5
Isopropylbenzene (Cumene)	98-82-8	25	5
n-Propylbenzene	103-65-1	25	5
1,3,5-Trimethylbenzene	108-67-8	25	5
1,2,4-Trimethylbenzene	95-63-6	25	5
tert-Butylbenzene	98-06-6	28	5
1,4-Dichlorobenzene	106-46-7	30	5
sec-Butylbenzene	135-98-8	28	5
p-Isopropyltoluene	99-87-6	28	5
n-Butylbenzene	104-51-8	28	5
1,2,4-Trichlorobenzene	120-82-1	38	5
Naphthalene	91-20-3	27	5
Additional Compounds			
1,4-Dioxane	123-91-1	37	10
Chloromethane	74-87-3	21	10
Leak Check Compound			
1,1-Difluoroethane (LCC)	75-37-6	27	10

H&P Mobile Geochemistry Inc.

H&P Project # GIL042114-A1

On the first day of the project, 4/21/14, a purge volume test was completed at each of the soil vapor probe depths (5', 15', 25' and 35'). These were all done properly and it was determined that at the shallower probes, 5' and 15', a purge volume of 3 would be used for the remainder of the locations. At the deeper probes, 25' and 35', a purge volume of 1 would be used.

On the fifth day of sampling, 4/25/14, it was discovered that because of a miscalculation in the pump run times, the shallower probes were not being purged the full 3 purge volumes, but were instead being purged of 2 purge volumes before sample collection.

The client was informed of the error and they concluded that because the purge volume test showed minor variation in the concentrations between the 1 PV and the 3 PV, that the 2 PV was acceptable and advised us to continue with these same purge volumes for the remainder of the project to maintain consistency in the sampling.

The sample log sheets were amended to reflect the proper purge volumes used.

The following changes were made to the log sheet purge volumes:

At the 5' sample depths: 1299 cc changed to 816 cc
At the 15' sample depths: 1444 cc changed to 913 cc

Dave Balkenbush
Field Operations Manager

2470 Impala Drive, Carlsbad, CA 92010 & Field Office - Signal Hill, CA
P 1.800.834.9888 | 760.804.9678 F 760.804.9159 W handpmg.com

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: GIL042114-A1
Site Address: 5211 Southern Ave. South Gate, CA
Consultant: GILBANE COMPANY
Field Rep(s): Ed Gilbane
H&P Rep(s): M. Montemayor, E. Corson

Date: 4/21/2014
Arrival Time: 8:00
Departure Time: 16:30
Overtime:
Approved By:

Office Use Only:
Reviewed: DB
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes: Pump Run
1	SG23-5 1PV	SV0099	04/21/14	0918	5'	6.5'	1/4"	2"	12"	2"	6"	433	✓	<200	∅	2m 10s / 1-way valve
2	SG23-5 3PV	SV0086	04/21/14	1001	"	"	"	"	"	"	"	1299	✓	"	∅	4m 5s
3	SG23-5 10PV	SV0042	04/21/14	1043	"	"	"	"	"	"	"	4330	✓	"	∅	14m 54s
4	SG23-15 1PV	SV0021	04/21/14	1115	15'	16.5	"	"	"	"	"	481	✓	"	∅	2m 25s / 1-way valve
5	SG23-15 3PV	SV0085	04/21/14	1139	"	"	"	"	"	"	"	1444	✓	"	∅	4m 34s
6	SG23-15 10PV	SV0086	04/21/14	1248	"	"	"	"	"	"	"	4814	✓	"	∅	16m 36s
7	SG23-25 1PV	SV0099	04/21/14	1316	25	26.5	"	"	"	"	"	530	✓	<100cc	10	2m 39s / * / 1-way valve
8	SG23-35 1PV	SV0086	04/21/14	1347	35	36.5	"	"	"	"	"	578	✓	<200	∅	2m 53s
9	SG23-25 3PV	SV0021	04/21/14	1414	25	26.5	"	"	"	"	"	1589	✓	<100	10	5m 6s / * / 1-way valve
10	SG23-25 10PV	SV0042	04/21/14	1523	25	26.5	"	"	"	"	"	5298	✓	<100cc	10	26m 26s / *
11	SG23-35 3PV	SV0021	04/21/14	1447	35	36.5	"	"	"	"	"	1734	✓	<200	∅	5m 32s
12	SG23-35 10PV	SV0086	04/21/14	1546	35	36.5	"	"	"	"	"	5782	✓	<200	∅	19m 59s

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG23-5					
Tubing:	Length:	6.5'	Diameter	1/4"	1 Volume:	31
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV = 433		3PV = 1299		10PV = 4330	
PV Amount Selected:	*Selected by:*					

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.
* high vacuum, reduced pump flow rate to <100cc

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: GIL042114-A1
Site Address: 5211 Southern Ave. South Gate, CA
Consultant: GILBANE COMPANY
Field Rep(s): Ed Gilbane
H&P Rep(s): M. Montemayor, E. Corson

Date: 4/22/2014
Arrival Time: 8:07
Departure Time: 16:30
Overtime:
Approved By:

Office Use Only:
Reviewed: DR
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes: Pump Time
1	SG39-5	SV00186	04/22/14	1014	5'	6.5	1/4"	2"	12"	2"	6"	~~1294~~	✓816	<200	0	4m 5sec
2	SG39-15	SV00121	04/22/14	1050	15'	16.5						~~1444~~	✓913		0	4m 34sec *
3	SG39-25	SV00186	04/22/14	1118	25'	26.5						530	✓		1	2m 39sec
4	SG39-35	SV00199	04/22/14	1140	35'	36.5						578	✓		0	2m 53sec
5	SG39-35R	SV00186	04/22/14	1229	35'	36.5						628	✓		0	resample
6	SG38-5	SV00121	04/22/14	1300	5'	6.5						~~1299~~	✓816		0	4m 5sec
7	SG38-15	SV00199	04/22/14	1322	15'	16.5						~~1444~~	✓913		0	4m 34sec
8	SG38-15 Rep	SV00142	04/22/14	1346	15'	16.5						~~1494~~	✓963		0	Rep
9	SG38-25	SV00185	04/22/14	1408	25	26.5						530	✓		0	2m 39sec
10	SG38-35	SV00186	04/22/14	1430	35	36.5						578	✓		0	2m 53sec
11	SG37-5	SV00142	04/22/14	1533	5'	6.5						~~1299~~	✓816		01	4m 5sec
12	SG38-35R	SV00121	04/22/14	1501	35	36.5						628	✓		0	Resample

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG23-5					
Tubing:	Length:	6.5'	Diameter	1/4"	1 Volume:	31
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV =	433	3PV =	1299	10PV =	4330
PV Amount Selected:	3PV 5'+15"	1PV 25',35'	*Selected by:*	Ed Gilbane		

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.
summa collected from tedlar by Ed

* See attached memo for change of PVs (DR)

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: GIL042114-A1
Site Address: 5211 Southern Ave. South Gate, CA
Consultant: GILBANE COMPANY
Field Rep(s): Ed Gilbane
H&P Rep(s): M. Montemayor, E. Corson

Date: 4/22/2014
Arrival Time: 8:07
Departure Time: 16:30
Overtime:
Approved By:

Office Use Only:
Reviewed: DB
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes:
13	SG37-15	SV00944	04/22/14	1555	15'	16.5	1/4"	2"	12"	2"	6"	~~1444~~	✓913	<200	1	Pump Run 4m 34s
14		SV00														
15		SV00														
16		SV00														
17		SV00														
18		SV00														
19		SV00														
20		SV00														
21		SV00														
22		SV00														
23		SV00														
24		SV00														

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG23-5					
Tubing:	Length:	6.5'	Diameter	1/4"	1 Volume:	31
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV =	433	3PV =	1299	10PV =	4330
PV Amount Selected:	3PV 5'+15"		1PV 25',35'	*Selected by:*	Ed Gilbane	

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

*See attached memo for change in PV. (DB)

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: GIL042114-A1
Site Address: 5211 Southern Ave. South Gate, CA
Consultant: GILBANE COMPANY
Field Rep(s): Ed Gilbane
H&P Rep(s): M. Montemayor, A. Wagner

Date: 4/23/2014
Arrival Time: 7:50
Departure Time: 16:30
Overtime:
Approved By:

Office Use Only:
Reviewed: DB
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc) *	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes: Pump Run Time
1	SG-36-5	SV00~~86~~	04/23/14	~~0842~~ AW	5	7	1/4"	2"	12"	2"	6"	~~1299~~	✓~~816~~	<200	0	4min 5sec
2	SG-36-15	SV00~~99~~	04/23/14	0908	15	17	1/4	2	12	2	6	~~1444~~	✓913	200	0	4min 34sec
3	SG-36-25	SV00~~85~~	04/23/14	0929	25	27	1/4	2	12	2	6	530	✓	200	0	2min 39sec
4	SG-36-35	SV00~~42~~	04/23/14	1003	35	37	1/4	2	12	2	6	578	✓	200	0	2min 53sec / sampled from tedlar bag.
5	SG-24-5	SV00~~99~~	04/23/14	1107	5	7	1/4	2	12	2	6	~~1299~~	✓816	200	0	4min 5sec
6	SG-24-15	SV00~~86~~	04/23/14	1125	15	17	1/4	2	12	2	6	~~1444~~	✓913	200	0	4min 34sec
7	SG-24-15 R	SV00~~99~~	04/23/14	1209	15	17	1/4	2	12	2	6	~~1494~~	✓963	200	0	Resample
8	SG-24-25	SV00~~86~~	04/23/14	1241	25	27	1/4	2	12	2	6	530	✓	200	50	2min 39sec
9	SG-24-35	SV00~~42~~	04/23/14	1305	35	37	1/4	2	12	2	6	578	✓	200	0	2min 53sec / sampled from tedlar
10	SG-24-35 R	SV00~~85~~	04/23/14	1343	35	37	1/4	2	12	2	6	1628	✓	200	0	Resample
11	SG-26-5	SV00~~99~~	04/23/14	1425	5	7	1/4	2	12	2	6	~~1299~~	✓816	200	0	4min 5 sec
12	SG-26-5 REP	SV00~~86~~	04/23/14	1449	5	7	1/4	2	12	2	6	~~1349~~	✓866	200	0	Replicate

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG23-5 on 4/21/2014					
Tubing:	Length:	6.5'	Diameter	1/4"	1 Volume:	31
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV = 433		3PV = 1299		10PV = 4330	
PV Amount Selected:	3PV 5'+15"	1PV 25',35'	*Selected by:*	Ed Gilbane		

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

* See attached memo for change of PVs (DB)

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: GIL042114-A1
Site Address: 5211 Southern Ave. South Gate, CA
Consultant: GILBANE COMPANY
Field Rep(s): Ed Gilbane
H&P Rep(s): M. Montemayor, A. Wagner

Date: 4/23/2014
Arrival Time: 7:50
Departure Time: 16:30
Overtime:
Approved By:

Office Use Only:
Reviewed: DB
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc) *	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes:
13	SG-26-5 R	SV00942	04/23/14	1509	5	7	1/4"	2"	12"	2"	6"	1399	✓916	<200	0	Resample
14	SG-26-15	SV00986		1543	15	17	1/4	2	12	2	6	1444	✓913	200	0	4min 34sec
15	SG-26-15 R	SV00999		1607	15	17	1/4	2	12	2	6	1494	✓963	200	0	Resample
16		SV00														
17		SV00														
18		SV00														
19		SV00														
20		SV00														
21		SV00														
22		SV00														
23		SV00														
24		SV00														

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG23-5 on 4/21/2014					
Tubing:	Length:	6.5'	Diameter	1/4"	1 Volume:	31
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV =	433	3PV =	1299	10PV =	4330
PV Amount Selected:	3PV 5'+15"	1PV 25',35'	*Selected by:*	Ed Gilbane		

Leak Check Information

Leak Check Compound: ~~☒~~1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

* See attached memo for change of PV's (DB)

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: GIL042114-A1
Site Address: 5211 Southern Ave. South Gate, CA
Consultant: GILBANE COMPANY
Field Rep(s): Ed Gilbane
H&P Rep(s): M. Montemayor, A. Wagner

Date: 4/24/2014
Arrival Time: 7:50
Departure Time: 16:30
Overtime:
Approved By:

Office Use Only:
Reviewed: DB
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc) *	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes: Pump Run Time
1	SG-26-25	SV00999	04/24/14	0825	25	27	1/4"	2"	12"	2"	6"	530	✓	<200	100	2min 39sec
2	SG-29-5	SV00886	04/24/14	0945	5	7	1/4	2	12	2	6	1299 → 816	✓	200	0	4min 5sec / sample from tedlar
3	SG-26-25R	SV00121	04/24/14	0859	25	27	1/4	2	12	2	6	580	✓	200	100	Resample
4	SG-26-25 R	SV00942	04/24/14	0923	25	27	1/4	2	12	2	6	630	✓	200	100	Resample
5	SG-29-15	SV00965	04/24/14	1005	15	17	1/4	2	12	2	6	1444 → 913	✓	200	0	4min34sec
6	SG-29-25	SV00999	04/24/14	1030	25	27	1/4	2	12	2	6	530	✓	200	85	2min39sec
7	SG-29-35	SV00121	04/24/14	1051	35	37	1/4	2	12	2	6	578	✓	200	0	2min 53sec
8	SG-28-5	SV00886	04/24/14	1117	5	7	1/4	2	12	2	6	1299 → 816	✓	200	0	4min 5sec
9	SG-28-15	SV00942	04/24/14	1144	15	17	1/4	2	12	2	6	1444 → 913	✓	200	0	4min 34sec
10	SG-28-15 Rep	SV00886	04/24/14	1206	15	17	1/4	2	12	2	6	1494 → 963	✓	200	0	Replicant
11	SG-28-25	SV00	04/24/14		25	27	1/4	2	12	2	6	530	✓	200	100	2min 39sec / Not sampled high vacuum
12	SG-28-35	SV00999	04/24/14	1240	35	37	1/4	2	12	2	6	578	✓	200	0	2min 53 sec

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG23-5 on 4/21/2014					
Tubing:	Length:	6.5'	Diameter	1/4"	1 Volume:	31
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV = **433**	3PV = **1299**	10PV = **4330**			
PV Amount Selected:	3PV 5'+15"	1PV 25',35'	*Selected by:*	Ed Gilbane		

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

* See memo for change of PV's (DB)

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: GIL042114-A1
Site Address: 5211 Southern Ave. South Gate, CA
Consultant: GILBANE COMPANY
Field Rep(s): Ed Gilbane
H&P Rep(s): M. Montemayor, A. Wagner

Date: 4/24/2014
Arrival Time: 7:50
Departure Time: 16:30
Overtime:
Approved By:

Office Use Only:
Reviewed: DB
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes: Pump Run Time
13	SG-28-35R	SV00~~86~~	04/24/14	1305	35	37	1/4"	2"	12"	2"	6"	628	✓	<200	0	Resample
14	SG-31-5	SV00~~42~~		1336	5	7	1/4	2	12	2	6	~~1299~~	✓816	200	0	4min 5sec
15	SG-31-15	SV00~~86~~		1406	15	17	1/4	2	12	2	6	~~1444~~	✓913	200	0	4min 34sec
16	SG-~~3~~35-25	SV00~~121~~		1430	25	27	1/4	2	12	2	6	530	✓	200	50	2min 39sec
17	SG-31-35	SV00~~99~~		1454	35	37	1/4	2	12	2	6	578	✓	200	0	2min 53sec
18	SG-30-5	SV00~~85~~		1527	5	7	1/4	2	12	2	6	~~1299~~	✓816	200	0	4min 5sec
19	SG-30-15	SV00~~86~~	↓	1555	15	17	1/4	2	12	2	6	~~1444~~	✓913	200	0	4min 34sec
20		SV00														
21		SV00														
22		SV00														
23		SV00														
24		SV00														

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG23-5 on 4/21/2014					
Tubing:	Length:	6.5'	Diameter	1/4"	1 Volume:	31
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV =	433	3PV =	1299	10PV =	4330
PV Amount Selected:	3PV 5'+15"		1PV 25',35'	*Selected by:*		Ed Gilbane

Leak Check Information

Leak Check Compound: ~~X~~1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

* See attached memo for change of PVs (DB)

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: GIL042114-A1
Site Address: 5211 Southern Ave. South Gate, CA
Consultant: GILBANE COMPANY
Field Rep(s): Ed Gilbane
H&P Rep(s): M. Montemayor, K. Schindler

Date: 4/25/2014
Arrival Time: 7:50
Departure Time: 15:30
Overtime:
Approved By:

Office Use Only:
Reviewed: DB
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure [redacted] H_2O	Field Notes:
1	SG-30-25	SV00 85	04/25/14	0904	25'	26.5'	1/4"	2"	12"	2"	6"	530	✓	<200	-10	2m 39sec *
2	SG-30-35	SV00 86	04/25/14	0927	35'	36.5'	1/4"	2"	12"	2"	6"	578	✓	<200	-5	2m 53sec
3	SG-32-5	SV00 121	04/25/14	0948	5'	6.5'	1/4"	2"	12"	2"	6"	816	✓	<200	-5	4m 5sec
4	SG-32-15	SV00 42	04/25/14	1013	15'	16.5'	1/4"	2"	12"	2"	6"	913	✓	<200	-5	4m 34sec *
5	SG-32-25	SV00 99	04/25/14	1035	25'	26.5'	1/4"	2"	12"	2"	6"	530	✓	<200	-60	2m 39sec
6	SG-32-35	SV00 121	04/25/14	1055	35'	36.5'	1/4"	2"	12"	2"	6"	578	✓	<200	-5	2m 53sec
7	SG-33-5	SV00 85	04/25/14	1122	5'	6.5'	1/4"	2"	12"	2"	6"	816	✓	<200	-4	4m 5sec
8	SG-33-5 Rep	SV00 42	04/25/14	1144	5	6.5	1/4	2	12	2	6	866	✓	<200	0	Replicant
9	SG-33-15	SV00 99	04/25/14	1212	15	16.5'	1/4"	2"	12"	2"	6"	913	✓	<200	-3	4m 34sec
10	SG-33-25	SV00 121	04/25/14	1248	25	26.5	1/4"	2"	12"	2"	6"	530	✓	<200	-80	2m 39sec High ** Vac
11	SG-33-35	SV00 86	04/25/14	1319	35	36.5	1/4"	2"	12"	2"	6"	578	✓	<200	-5	2m 53sec *
12	SG-34-5	SV00 42	04/25/14	1349	5'	6.5'	1/4"	2"	12"	2"	6"	816	✓	<200	-5	4m 5sec

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG23-5 on 4/21/2014					
Tubing:	Length:	6.5'	Diameter	1/4"	1 Volume:	31
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV =	433	3PV =	1299	10PV =	4330
PV Amount Selected:	3PV 5'+15"		1PV 25',35'	*Selected by:*	Ed Gilbane	

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

* split sample taken
** high vac purged ~1.5 minutes, shut off pump, let equilibrate ~5min
Finished up purge and collected sample

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: GIL042114-A1
Site Address: 5211 Southern Ave. South Gate, CA
Consultant: GILBANE COMPANY
Field Rep(s): Ed Gilbane
H&P Rep(s): M. Montemayor, K. Schindler

Date: 4/25/2014
Arrival Time: 7:50
Departure Time: 15:30
Overtime:
Approved By:

Office Use Only:
Reviewed: DB
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ~~("Hg)~~ H_2O	Field Notes:
13	SG-34-15	SV00~~85~~	04/25/14	1413	15'	16.5'	1/4"	2"	12"	2"	6"	913	✓	<200	-6	4m 34sec
14	SG-34-25	SV00 99	4/25/14	1434	25	26.5'	1/4"	2"	12"	2"	6"	530	✓	<200	-50	2m 39sec
15	SG-34-35	SV00~~86~~	4/25/14	1451	35	36.5	1/4"	2"	12"	2"	6"	578	✓	<200	-5	2m 53sec
16	[redacted]	SV00														
17		SV00														
18		SV00														
19		SV00														
20		SV00														
21		SV00														
22		SV00														
23		SV00														
24		SV00														

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG23-5 on 4/21/2014					
Tubing:	Length:	6.5'	Diameter	1/4"	1 Volume:	31
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV =	433	3PV =	1299	10PV =	4330
PV Amount Selected:	3PV 5'+15"		1PV 25',35'	*Selected by:*		Ed Gilbane

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: GIL042114-A1
Site Address: 5211 Southern Ave. South Gate, CA
Consultant: GILBANE COMPANY
Field Rep(s): Ed Gilbane
H&P Rep(s): M. Montemayor, A. Wagner

Date: 4/28/2014
Arrival Time: 8:08
Departure Time: 16:30
Overtime:
Approved By:

Office Use Only:
Reviewed: DB
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes: Pump Run Time
1	SG-35-5	SV00 86	04/28/14	0843	5	7	1/4"	2"	12"	2"	6"	816	✓	<200	0	4min 5sec
2	SG-35-15	SV00 99	04/28/14	0917	15	17	1/4	2	12	2	6	913	✓	200	0	4min 34sec
3	SG-35-25	SV00 85	04/28/14	0942	25	27	1/4	2	12	2	6	530	✓	200	0	2min 39sec / sample pulled from tedlar
4	SG-35-35	SV00 121	04/28/14	1007	35	37	1/4	2	12	2	6	578	✓	200	0	2min 53sec
5	SG-25-5	SV00 86	04/28/14	1040	5	7	1/4	2	12	2	6	816	✓	200	0	4min 5 sec
6	SG-25-15	SV00 85	04/28/14	1104	15	17	1/4	2	12	2	6	913	✓	200	0	4min 34sec
7	SG-25-15 Rep	SV00 99	04/28/14	1129	15	17	1/4	2	12	2	6	963	✓	200	0	Replicant
8	SG-25-25	SV00 85	04/28/14	1306	25	25	1/4	2	12	2	6	530	✓	200	0	2min 39sec
9	SG-25-35	SV00 42	04/28/14	1204	35	37	1/4	2	12	2	6	578	✓	200	0	2min53sec
10	SG-25-35 R	SV00 121	04/28/14	1246	35	37	1/4	2	12	2	6	628	✓	200	0	Resample
11	SG-27-5	SV00 42	04/28/14	1342	5	7	1/4	2	12	2	6	816	✓	200	0	4min 5sec / sample from tedlar
12	SG-27-5 R	SV00 121	04/28/14	1425	5	7	1/4	2	12	2	6	1866	✓	200	0	Resample

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG23-5 on 4/21/2014					
Tubing:	Length: 6.5'	Diameter 1/4"	1 Volume: 31			
Sand Pack (if included in purge volume calculation):	Height: 12"	Diameter 2"	1 Volume: 247			
Dry Bentonite (if included in purge volume calculation):	Height: 6"	Diameter 2"	1 Volume: 154			
PVT Increments:	1PV = 433	3PV = 1299	10PV = 4330			
PV Amount Selected:	3PV 5'+15"	1PV 25',35'	*Selected by:*	Ed Gilbane		

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: GIL042114-A1
Site Address: 5211 Southern Ave. South Gate, CA
Consultant: GILBANE COMPANY
Field Rep(s): Ed Gilbane
H&P Rep(s): M. Montemayor, A. Wagner

Date: 4/28/2014
Arrival Time: 8:08
Departure Time: 16:30
Overtime:
Approved By:

Office Use Only:
Reviewed: DB
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes: Pump on Time
13	SG-27-15	SV0086	04/28/14	1450	15	17	1/4"	2"	12"	2"	6"	913	✓	<200	0	4min 34sec
14	SG-27-15R	SV0085	↓	1515	15	17	1/4	2	12	2	6	963	✓	200	0	Resample
15	SG-27-25	SV0099		1540	25	27	1/4	2	12	2	6	530	✓	200	50	2min 39sec
16	SG-27-25R	SV0086		1602	25	27	1/4	2	12	2	6	580	✓	200	50	Resample
17		SV00														
18		SV00														
19		SV00														
20		SV00														
21		SV00														
22		SV00														
23		SV00														
24		SV00														

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG23-5 on 4/21/2014					
Tubing:	Length:	6.5'	Diameter	1/4"	1 Volume:	31
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV =	433	3PV =	1299	10PV =	4330
PV Amount Selected:	3PV 5'+15"	1PV 25',35'	*Selected by:*	Ed Gilbane		

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: GIL042114-A1
Site Address: 5211 Southern Ave. South Gate, CA
Consultant: GILBANE COMPANY
Field Rep(s): Ed Gilbane
H&P Rep(s): M. Montemayor, A. Wagner

Date: 4/29/2014
Arrival Time: 7:55
Departure Time: 16:30
Overtime:
Approved By:

Office Use Only:
Reviewed: DB
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes: Pump Run Time
1	SG-27-35	SV00199	04/29/14	0805	35	37	1/4"	2"	12"	2"	6"	578	✓	<200	0	2min 53sec
2	SG-27-35R	SV00186	04/29/14	0847	35	37	1/4	2	12	2	6	628	✓	200	0	Resample
3	SG-27-35R	SV00121	04/29/14	0910	35	37	1/4	2	12	2	6	678	✓	200	0	Resample
4	SG-19-5	SV00142	04/29/14	0945	5	7	1/4	2	12	2	6	816	✓	200	0	4min 5 sec
5	SG-19-5R	SV00185	04/29/14	1012	5	7	1/4	2	12	2	6	866	✓	200	0	Resample
6	SG-19-25	SV00121	04/29/14	1040	25	27	1/4	2	12	2	6	530	✓	200	30	2min 39sec
7	SG-19-25R	SV00186	04/29/14	1130	25	27	1/4	2	12	2	6	580	✓	200	30	Resample
8	SG-19-15	SV00142	04/29/14	1237	15	17	1/4	2	12	2	6	913	✓	200	100	4min 34sec
9	SG-19-15R	SV00185	04/29/14	1300	15	17	1/4	2	12	2	6	963	✓	200	100	Resample
10	SG-19-15R	SV00186	04/29/14	1320	15	17	1/4	2	12	2	6	1013	✓	200	100	Resample
11	SG-19-35	SV00199	04/29/14	1351	35	37	1/4	2	12	2	6	578	✓	200	100	2min 53sec
12	SG-19-35R	SV00121	04/29/14	1412	35	37	1/4	2	12	2	6	628	✓	200	100	Resample

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG23-5 on 4/21/2014					
Tubing:	Length:	6.5'	Diameter	1/4"	1 Volume:	31
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV = 433		3PV = 1299		10PV = 4330	
PV Amount Selected:	3PV 5'+15"	1PV 25',35'	*Selected by:*	Ed Gilbane		

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.
Client says SG-19 will be hottest locations.

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: GIL042114-A1
Site Address: 5211 Southern Ave. South Gate, CA
Consultant: GILBANE COMPANY
Field Rep(s): Ed Gilbane
H&P Rep(s): M. Montemayor, A. Wagner

Date: 4/29/2014
Arrival Time: 7:55
Departure Time: 16:30
Overtime:
Approved By:

Office Use Only:
Reviewed: DB
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes:
13	SG-22-5	SV00142	04/29/14	1443	5	7	1/4"	2"	12"	2"	6"	816	✓	<200	0	4min 5 sec
14	SG-22-5REP	SV00185		1502	5	7	1/4	2	12	2	6	866	✓	200	0	Replicate
15	SG-22-15	SV00186		1532	15	17	1/4	2	12	2	6	913	✓	200	0	4min 34sec
16	SG-22-25	SV00121	↓	1558	25	27	1/4	2	12	2	6	530	✓	200	50	2min 39sec / sampler from tedlar
17		SV00														
18		SV00														
19		SV00														
20		SV00														
21		SV00														
22		SV00														
23		SV00														
24		SV00														

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG23-5 on 4/21/2014						
Tubing:	Length:	6.5'	Diameter	1/4"	1 Volume:	31	
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247	
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154	
PVT Increments:	1PV =	433	3PV =	1299	10PV =	4330	
PV Amount Selected:	3PV 5'+15"	1PV 25',35'	*Selected by:*	Ed Gilbane			

Leak Check Information

Leak Check Compound: ☒ 1,1-DFA ☐ 1,1,1,2-TFA ☐ IPA ☐ Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: GIL042114-A1
Site Address: 5211 Southern Ave. South Gate, CA
Consultant: GILBANE COMPANY
Field Rep(s): Ed Gilbane
H&P Rep(s): M. Montemayor, A. Wagner

Date: 4/30/2014
Arrival Time: 7:55
Departure Time: 16:30
Overtime:
Approved By:

Office Use Only:
Reviewed: DB
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes: PumpRunTime
1	SG-22-~~15~~ AW 35	SV00 86	04/30/14	0805	35	37	1/4"	2"	12"	2"	6"	578	✓	<200	0	2min 53sec
2	SG-22-35REP	SV00 121	04/30/14	0828	35	37	1/4	2	12	2	6	628	✓	200	0	Replicate
3	SG-21-5	SV00 99	04/30/14	0850	5	7	1/4	2	12	2	6	816	✓	200	0	4min 5sec
4	SG-21-15	SV00 42	04/30/14	0914	15	17	1/4	2	12	2	6	913	✓	200	0	4min 34sec
5	SG-21-15R	SV00 86	04/30/14	0958	15	17	1/4	2	12	2	6	963	✓	200	0	Resample
6	SG-21-25	SV00 99	04/30/14	1013	25	27	1/4	2	12	2	6	530	✓	200	60	2min 39sec
7	SG-21-25R	SV00 121	04/30/14	1040	25	27	1/4	2	12	2	6	580	✓	200	60	Resample
8	SG-21-35	SV00 86	04/30/14	1104	35	37	1/4	2	12	2	6	578	✓	200	0	2min 53sec
9	SG-21-35R	SV00 85	04/30/14	1130	35	37	1/4	2	12	2	6	628	✓	200	0	Resample
10	SG-20-5	SV00 99	04/30/14	1154	5	7	1/4	2	12	2	6	816	✓	200	0	4min 5sec
11	SG-20-5R	SV00 42	04/30/14	1255	5	7	1/4	2	12	2	6	866	✓	200	0	Resample
12	SG-20-15	SV00 86	04/30/14	1319	15	17	1/4	2	12	2	6	913	✓	200	0	4min 34sec

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG23-5 on 4/21/2014					
Tubing:	Length: 6.5'	Diameter 1/4"	1 Volume: 31			
Sand Pack (if included in purge volume calculation):	Height: 12"	Diameter 2"	1 Volume: 247			
Dry Bentonite (if included in purge volume calculation):	Height: 6"	Diameter 2"	1 Volume: 154			
PVT Increments:	1PV = 433	3PV = 1299	10PV = 4330			
PV Amount Selected:	3PV 5'+15"	1PV 25'-35'	*Selected by:*	Ed Gilbane		

Leak Check Information

Leak Check Compound: X 1,1-DFA ☐ 1,1,1,2-TFA ☐ IPA ☐ Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: GIL042114-A1
Site Address: 5211 Southern Ave. South Gate, CA
Consultant: GILBANE COMPANY
Field Rep(s): Ed Gilbane
H&P Rep(s): M. Montemayor, A. Wagner

Date: 4/30/2014
Arrival Time: 7:55
Departure Time: 10:30
Overtime:
Approved By:

Office Use Only:
Reviewed: DB
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes: PumpRunTime
13	SG-20-15R	SV00 85	04/30/14	1405	15	17	1/4"	2"	12"	2"	6"	963	✓	<200	0	Resample
14	SG-20-25	SV00 99		1458	25	27	1/4	2	12	2	6	530	✓	200	0	2min 39sec
15	SG-20-25R	SV00 121		1550	25	27	1/4	2	12	2	6	580	✓	200	0	Resample
16		SV00														
17		SV00														
18		SV00														
19		SV00														
20		SV00														
21		SV00														
22		SV00														
23		SV00														
24		SV00														

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG23-5 on 4/21/2014					
Tubing:	Length: 6.5'	Diameter 1/4"	1 Volume: 31			
Sand Pack (if included in purge volume calculation):	Height: 12"	Diameter 2"	1 Volume: 247			
Dry Bentonite (if included in purge volume calculation):	Height: 6"	Diameter 2"	1 Volume: 154			
PVT Increments:	1PV = 433	3PV = 1299	10PV = 4330			
PV Amount Selected:	3PV 5'-15"	1PV 25',35'	*Selected by:*	Ed Gilbane		

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: GIL042114-A1
Site Address: 5211 Southern Ave. South Gate, CA
Consultant: GILBANE COMPANY
Field Rep(s): Ed Gillera
H&P Rep(s): M. Montemayor, A. Wagner

Date: 5/1/2014
Arrival Time: 7:55
Departure Time: 10:30
Overtime:
Approved By:

Office Use Only:
Reviewed: DB
Scanned:

Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes: PumpRunTime
1	SG-20-35	SV00142	05/01/14	0818	35	37	1/4"	2"	12"	2"	6"	578	✓	<200	0	2min53sec / sample pulled from tedlar
2	SG-20-35R	SV00199	05/01/14	0907	35	37	1/4	2	12	2	6	1628	✓	200	0	Resample
3	SG-40-5	SV00185	05/01/14	1043	5	7	1/4	2	12	2	6	816	✓	200	0	4min 5sec
4	SG-40-15	SV00186	05/01/14	1104	15	17	1/4	2	12	2	6	913	✓	200	0	4min 34sec
5	SG-40-25	SV00121	05/01/14	1125	25	27	1/4	2	12	2	6	530	✓	200	0	2min 39sec
6	SG-40-35	SV00142	05/01/14	1152	35	37	1/4	2	12	2	6	578	✓	200	0	2min 53sec
7	SG-40-35 Rep	SV00199	05/01/14	1223	35	37	1/4	2	12	2	6	628	✓	200	0	Replicant
8	SG-40-35REPR	SV00186	05/01/14	1243	35	37	1/4	2	12	2	6	678	✓	200	0	Resample
9	SG-41-5	SV00142	05/01/14	1327	5	7	1/4	2	12	2	6	816	✓	200	0	4min5sec / sample pulled from tedlar
10	SG-41-15	SV00199	05/01/14	1355	15	17	1/4	2	12	2	6	913	✓	200	0	4min 34sec
11	SG-41-25	SV00185	05/01/14	1417	25	27	1/4	2	12	2	6	530	✓	200	0	2min 39sec
12	SG-41-25R	SV00186	05/01/14	1436	25	27	1/4	2	12	2	6	580	✓	200	0	Resample

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG23-5 on 4/21/2014					
Tubing:	Length:	6.5'	Diameter	1/4"	1 Volume:	31
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV =	433	3PV =	1299	10PV =	4330
PV Amount Selected:	3PV 5'+15'	1PV 25',35'	*Selected by:*	Ed Gillera		

Leak Check Information

Leak Check Compound: ☒1,1-DFA ☐1,1,1,2-TFA ☐IPA ☐Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: GIL042114-A1
Site Address: 5211 Southern Ave. South Gate, CA
Consultant: GILBANE COMPANY
Field Rep(s): Ed Gillera
H&P Rep(s): M. Montemayor, A. Wagner

Date: 5/1/2014
Arrival Time: 7:55
Departure Time: 16:30
Overtime:
Approved By:

Office Use Only:
Reviewed: DB
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes: PumpRunTime
13	SG-41-35	SV00121	05/01/14	1454	35	37	1/4"	2"	12"	2"	6"	516	✓	<200	0	2min53sec
14	SG-41-5R	SV00165		1516	5	7	1/4	2	12	2	6	1866	✓	200	0	Resample
15	SG-43-5	SV00142		1600	5	7	1/4	2	12	2	6	816	✓	200	0	4min5sec
16		SV00														
17		SV00														
18		SV00														
19		SV00														
20		SV00														
21		SV00														
22		SV00														
23		SV00														
24		SV00														

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG23-5 on 4/21/2014					
Tubing:	Length:	6.5'	Diameter	1/4"	1 Volume:	31
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV =	433	3PV =	1299	10PV =	4330
PV Amount Selected:	3PV 5'-15'	1PV 25'-35'	*Selected by:*	Ed Gillera		

Leak Check Information

Leak Check Compound: X 1,1-DFA ☐ 1,1,1,2-TFA ☐ IPA ☐ Other

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

Vapor Sampling with Mobile Lab (Syringe*)

H&P Mobile Geochemistry Inc.

H&P Project #: **GIL042114-A1**
Site Address: **5211 Southern Ave. South Gate, CA**
Consultant: **GILBANE COMPANY**
Field Rep(s): Ed Gillera
H&P Rep(s): M. Montemayor, A. Wagner

Date: 5/2/2014
Arrival Time: 7:55
Departure Time: 11:55
Overtime:
Approved By:

Office Use Only:
Reviewed: DB
Scanned:

	Sampling Information				Probe Specs							Collection Data				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Dia (in.)	Sand Pack Ht (in.)	Dry Bent. Dia (in.)	Dry Bent. Ht (in.)	Purge Vol. (cc)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Pressure ("Hg)	Field Notes: Pump Run Time
1	SG-43-15	SV00186	05/02/14	0809	15	17	1/4"	2"	12"	2"	6"	913	✓	<200	0	4min 34sec
2	SG-43-25	SV00121	05/02/14	0832	25	27	1/4	2	12	2	6	530	✓	200	0	2min 39sec
3	SG-43-35	SV00099	05/02/14	0853	35	37	1/4	2	12	2	6	578	✓	200	0	2min 53sec
4	SG-43-35REP	SV00142	05/02/14	0917	35	37	1/4	2	12	2	6	628	✓	200	0	Replicate
5	SG-43-35RER	SV00185	05/02/14	0941	35	37	1/4	2	12	2	6	678	✓	200	0	Resample
6	SG-42-5	SV00186	05/02/14	1003	5	7	1/4	2	12	2	6	816	✓	200	0	4min 5sec
7	SG-42-15	SV00099	05/02/14	1026	15	17	1/4	2	12	2	6	913	✓	200	0	4min 34sec
8	SG-42-25	SV00142	05/02/14	1048	25	27	1/4	2	12	2	6	530	✓	200	0	2min 39sec
9	SG-42-35	SV00121	05/02/14	1114	35	37	1/4	2	12	2	6	578	✓	200	0	2min 53sec
10		SV00	05/02/14													
11		SV00	05/02/14													
12		SV00	05/02/14													

Purge Volume Calculation

Probe ID for PVT, if applicable:	SG23-5 on 4/21/2014					
Tubing:	Length:	6.5'	Diameter	1/4"	1 Volume:	31
Sand Pack (if included in purge volume calculation):	Height:	12"	Diameter	2"	1 Volume:	247
Dry Bentonite (if included in purge volume calculation):	Height:	6"	Diameter	2"	1 Volume:	154
PVT Increments:	1PV =	**433**	3PV =	**1299**	10PV =	**4330**
PV Amount Selected:	3PV 5'+15"		1PV 25',35'	*Selected by:*		Ed Gillera

Leak Check Information

Leak Check Compound: ☒**1,1-DFA** ☐**1,1,1,2-TFA** ☐**IPA** ☐**Other**

Procedure: Used gaseous LCC as checked above

Other Notes: * 50cc vapor collected unless otherwise specified.

Electronic Comprehensive Validation Package (eCVP)

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COMPREHENSIVE VALIDATION PACKAGE

Passive S.E. RAD130/SKC

INVENTORY SHEET

Work Order #: 1504459R1

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Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	7/15/15
(Signature)	(Print Name & Title)	(Date)

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WORK ORDER #: 1504459R1

Work Order Summary

CLIENT:	Mr. Thomas Beer Gilbane Company 2730 Shadelands Drive Suite 100 Walnut Creek, CA 94598	**BILL TO:**	Mr. Thomas Beer Gilbane Company 2730 Shadelands Drive Suite 100 Walnut Creek, CA 94598
PHONE:	925-946-3100	**P.O. #**	J163006400-002
FAX:	925-256-8998	**PROJECT #**	
DATE RECEIVED:	04/25/2015	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	05/08/2015		
DATE REISSUED:	07/13/2015		

FRACTION #	NAME	TEST
01A	765NP	Passive S.E. RAD130/SKC
02A	764NP	Passive S.E. RAD130/SKC
03A	915NP	Passive S.E. RAD130/SKC
04A	913NP	Passive S.E. RAD130/SKC
05A	914NP	Passive S.E. RAD130/SKC
06A	Lab Blank	Passive S.E. RAD130/SKC
07A	LCS	Passive S.E. RAD130/SKC
07AA	LCSD	Passive S.E. RAD130/SKC

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 07/13/15

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

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LABORATORY NARRATIVE
Passive SE GC/MS
Gilbane Company
Workorder# 1504459R1

Five Radiello 130 (Solvent) samples were received on April 25, 2015. The laboratory extracted the charcoal sorbent bed of the passive sampler using carbon disulfide. An aliquot of the extract was injected into a GC/MS for identification and quantification of volatile organic compounds (VOCs).

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value. Results are not corrected for desorption efficiency.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The uptake rates were corrected based on average field temperatures if provided. In the absence of field temperatures, the uptake rates determined at 25 deg C were used.

If validated uptake rates were not available, rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. Chemicals that are poorly retained by the sorbent over the sampling duration may exhibit a low bias. All concentrations calculated using estimated rates are qualified with a "C" flag.

To calculate ug/m3 concentrations in the Lab Blank, a sampling duration of 10095 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

As per project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

The workorder was reissued on July 13, 2015 to correct the baseline for 1,2-Dichloroethane in samples 765NP, 764NP, 915NP, 914NP ; for Trichloroethene in samples 765NP, 764NP, 913NP, 914NP and for Tetrachloroethene in samples 765NP, 915NP, 914NP. The manual integration resulted in a change in the reported values.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.
C - Estimated concentration due to calculated sampling rate

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
765NP	1504459R1-01A	4/16/2015	4/25/2015	4/27/2015	11	4/27/2015	0	Good
764NP	1504459R1-02A	4/16/2015	4/25/2015	4/27/2015	11	4/27/2015	0	Good
915NP	1504459R1-03A	4/17/2015	4/25/2015	4/27/2015	10	4/27/2015	0	Good
913NP	1504459R1-04A	4/17/2015	4/25/2015	4/27/2015	10	4/27/2015	0	Good
914NP	1504459R1-05A	4/17/2015	4/25/2015	4/27/2015	10	4/27/2015	0	Good
Lab Blank	1504459R1-06A	NA	NA	4/27/2015	NA	4/27/2015	0	Good
LCS	1504459R1-07A	NA	NA	4/27/2015	NA	4/27/2015	0	Good
LCSD	1504459R1-07A	NA	NA	4/27/2015	NA	4/27/2015	0	Good

Sample Results and Raw Data

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Client Sample ID: 765NP

Lab ID#: 1504459R1-01A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**10042726simr1**	**Date of Collection: 4/16/15 11:03:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/27/15 05:49 PM**
		Date of Extraction: 4/27/15

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Benzene	0.40	0.50	0.53	0.66
1,2-Dichloroethane	0.10	0.13	0.076 J	0.099 J
Trichloroethene	0.10	0.14	0.041 J	0.059 J
Toluene	0.10	0.14	2.6	3.6
Tetrachloroethene	0.10	0.17	0.050 J	0.084 J
Ethyl Benzene	0.10	0.15	0.21	0.31
m,p-Xylene	0.10	0.14	0.65	0.92
o-Xylene	0.10	0.15	0.22	0.34
Naphthalene	0.10	0.40	0.0084 J	0.034 J
1,1-Dichloroethane	0.10	0.16	Not Detected C	Not Detected C
1,1-Dichloroethene	0.40	0.53	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.16	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.33	Not Detected C	Not Detected C
1,1,2-Trichloroethane	0.10	0.15	Not Detected C	Not Detected C
1,2,4-Trimethylbenzene	0.10	0.20	0.27	0.54
1,3,5-Trimethylbenzene	0.10	0.19	0.083 CJ	0.16 CJ
Vinyl Chloride	0.40	0.44	Not Detected C	Not Detected C

J = Estimated value.
C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F , duration time = 9998 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130

Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msd10.i/27Apr2015.b/10042726simr1.d
Lab Smp Id: 1504459R1-01A
Inj Date : 27-APR-2015 17:49
Operator : gm Inst ID: msd10.i
Smp Info : ;1504459R1-01A;
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Meth Date : 08-May-2015 15:50 gmash Quant Type: ISTD
Cal Date : 27-APR-2015 11:01 Cal File: 10042709sim.d
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Gilbane.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
2	Vinyl Chloride	62	Compound Not Detected.					
4	1,1-Dichloroethene-CCC	96	Compound Not Detected.					
8	trans-1,2-Dichloroethene	96	Compound Not Detected.					
11	1,1-Dichloroethane-SPCC	63	Compound Not Detected.					
14	cis-1,2-Dichloroethene	96	Compound Not Detected.					
17	1,1,1-Trichloroethane	97	Compound Not Detected.					
19	Benzene	78	7.938	7.938	(0.782)	10912	0.26321	0.526411
20	1,2-Dichloroethane	62	7.999	7.999	(0.788)	673	0.03798	0.0759691(aM)
22	Trichloroethene	130	8.562	8.562	(0.843)	266	0.02041	0.0408144(aM)
$ 26	Toluene-d8	98	9.839	9.839	(0.969)	232250	5.01870	10.0374
28	Toluene-CCC	92	9.912	9.912	(0.976)	51688	1.31800	2.63600
* 29	2-Fluorotoluene	109	10.153	10.153	(1.000)	256104	5.00000	
30	1,1,2-Trichloroethane	97	Compound Not Detected.					
31	Tetrachloroethene	164	10.466	10.466	(1.031)	310	0.02493	0.0498577(aM)
33	Ethylbenzene-CCC	106	11.510	11.510	(1.134)	2850	0.10592	0.211832
34	m,p-Xylene	106	11.613	11.613	(1.144)	9117	0.32388	0.647770

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug)
36 o-Xylene	106	12.061	12.062	(1.188)	3079	0.11173	0.223460
41 1,3,5-Trimethylbenzene	105	12.913	12.913	(1.272)	3682	0.04132	0.0826458(a)
42 1,2,4-Trimethylbenzene	105	13.253	13.253	(1.305)	10006	0.13459	0.269177
49 Naphthalene	128	15.905	15.905	(1.567)	494	0.00421	0.00842602(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd10.i
Lab File ID: 10042726simr1.d
Lab Smp Id: 1504459R1-01A
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

Calibration Date: 27-APR-2015
Calibration Time: 11:01
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	216118	108059	432236	256104	18.50

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 13-Jul-2015 12:28

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 27Apr2015
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 1504459R1-01A
Level: MED Operator: gm
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS-CM.spk Quant Type: ISTD
Sublist File: Gilbane.sub
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 26 Toluene-d8	10.0000	10.0374	100.37	70-130

Data File: /chem/msd10.i/27Apr2015.b/10042726simr1.d

Date : 27-APR-2015 17:49

Client ID:

Instrument: msd10.i

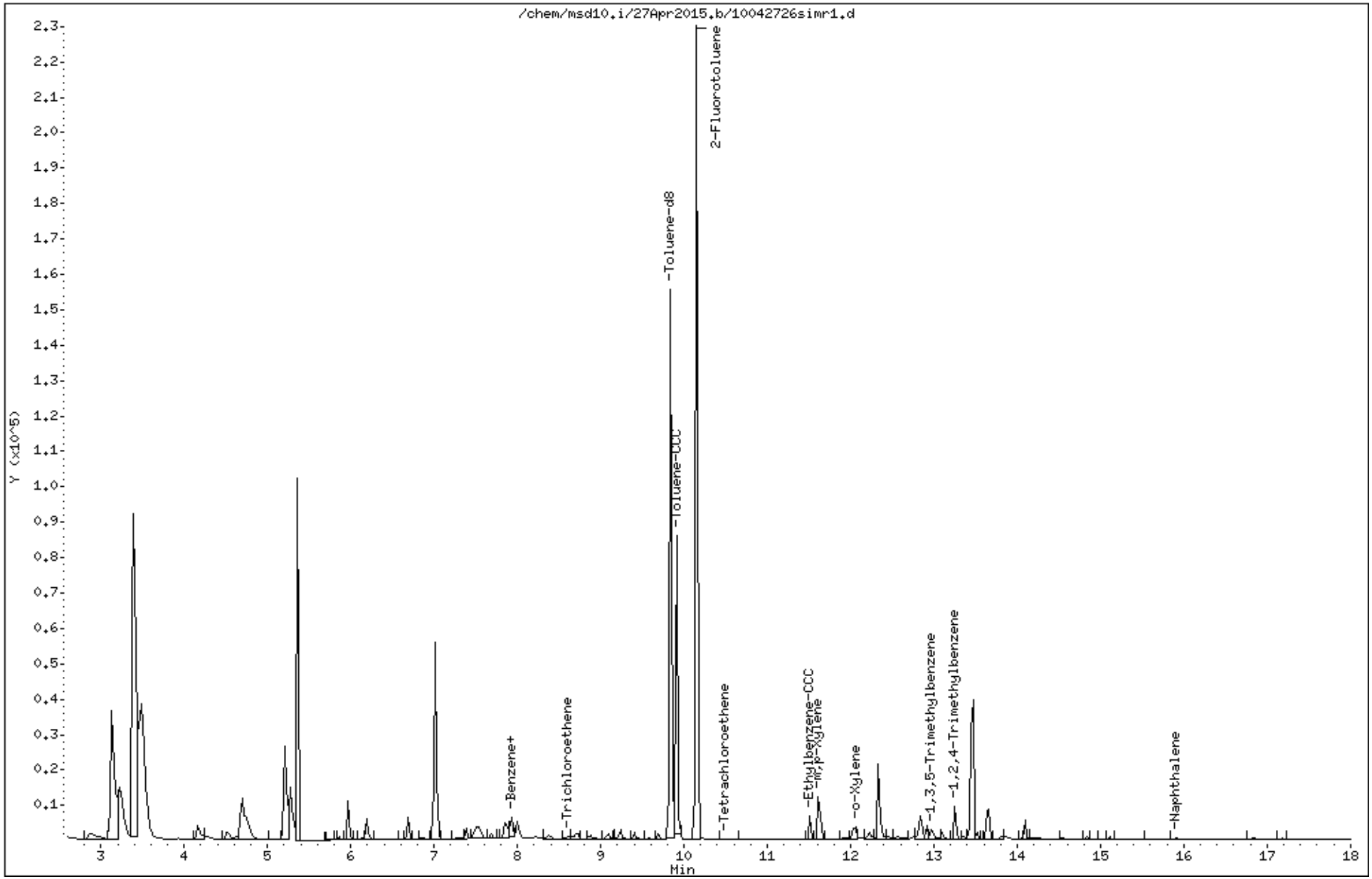
Sample Info: ;1504459R1-01A;

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msd10.i/27Apr2015.b/10042726simr1.d

Date : 27-APR-2015 17:49

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-01A;

Volume Injected (uL): 1.0

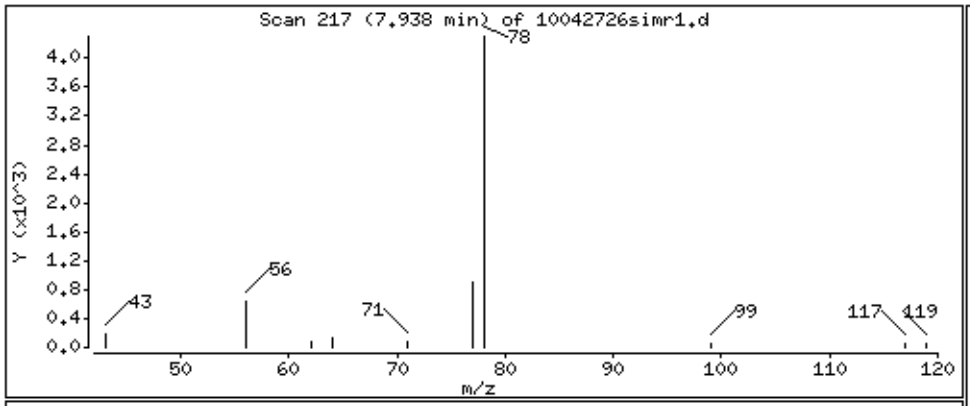
Operator: gm

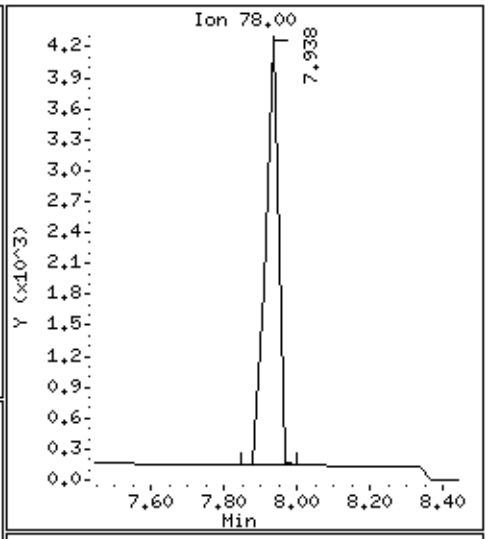
Column phase: DB-5.625

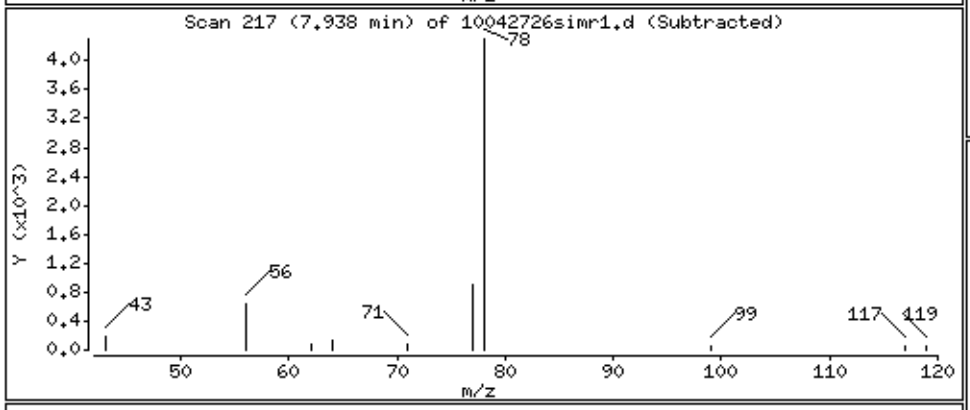
Column diameter: 0.25

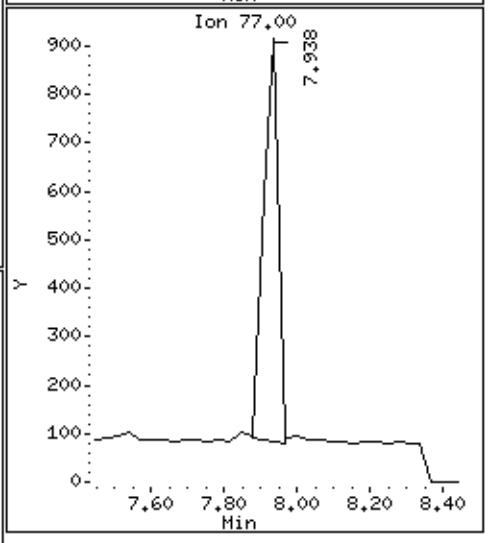
19 Benzene

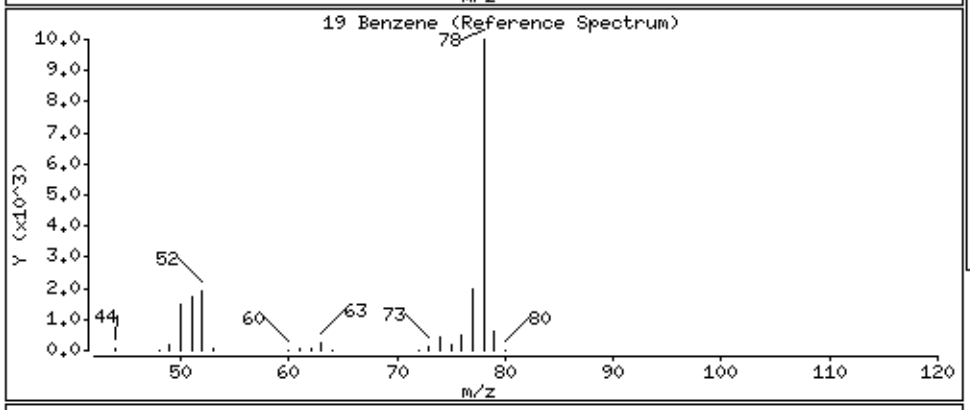
Concentration: 0.526411 ug

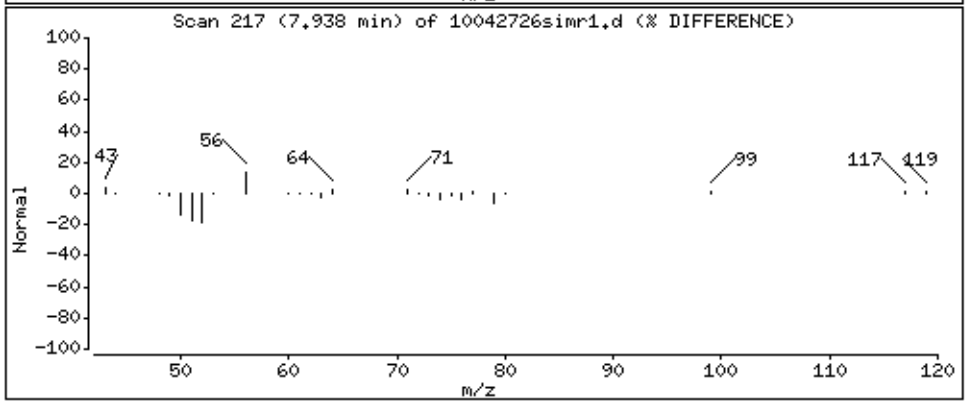












Data File: /chem/msd10.i/27Apr2015.b/10042726simr1.d

Date : 27-APR-2015 17:49

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-01A;

Volume Injected (uL): 1.0

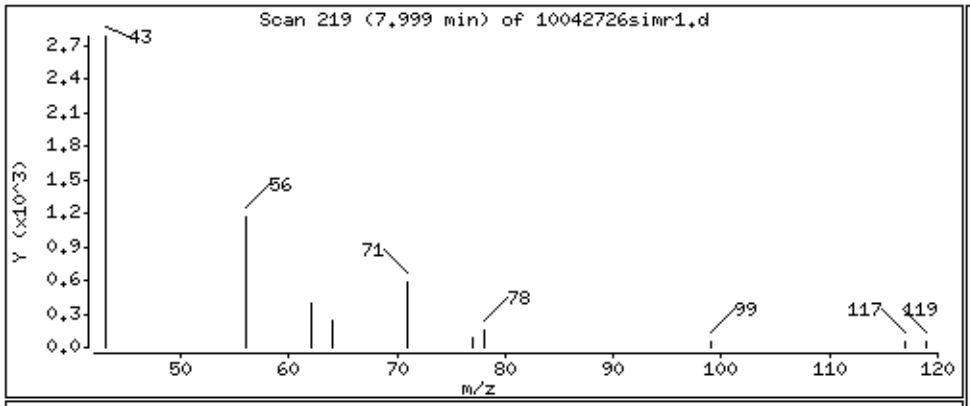
Operator: gm

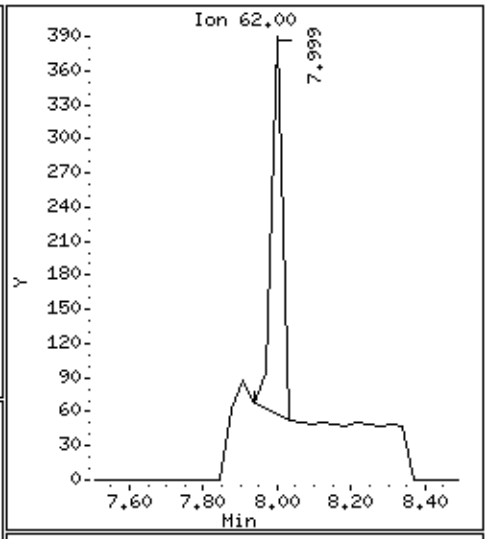
Column phase: DB-5.625

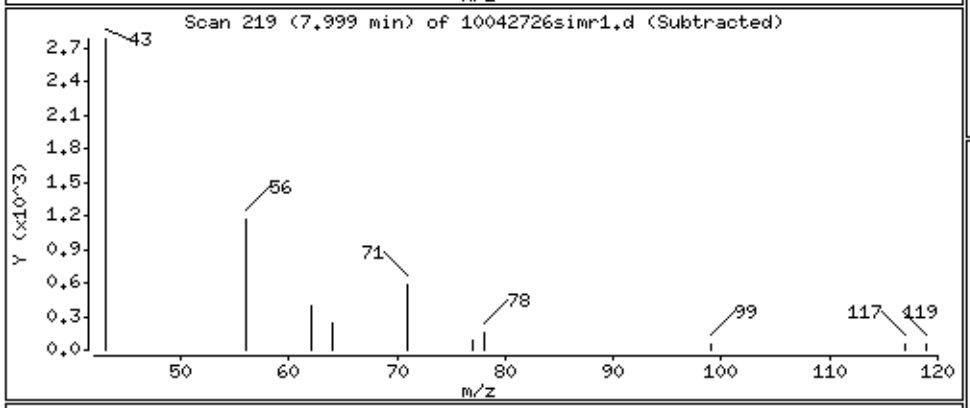
Column diameter: 0.25

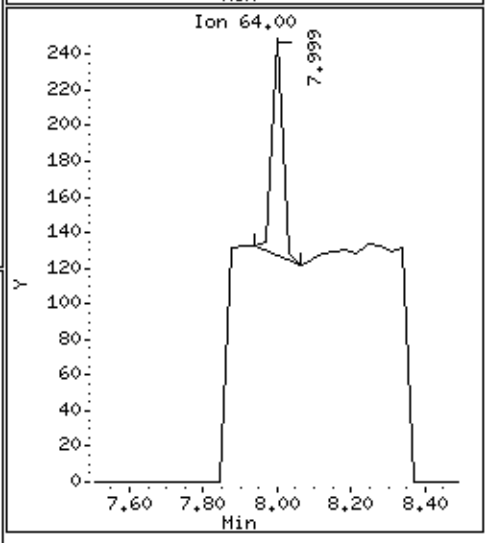
20 1,2-Dichloroethane

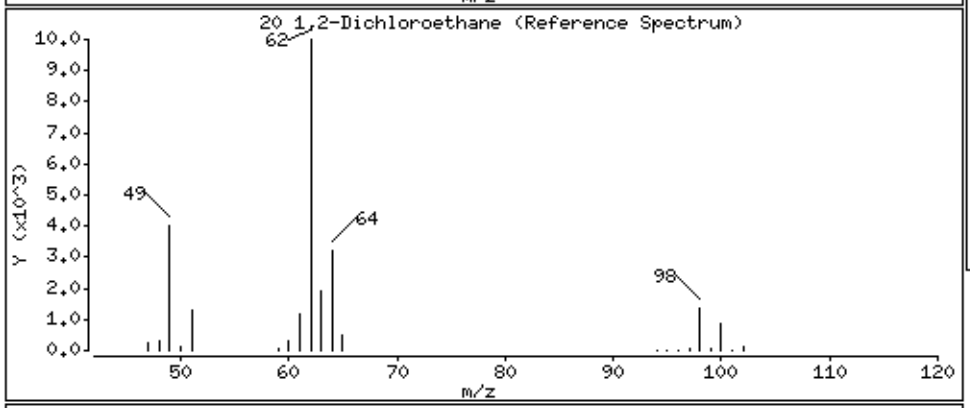
Concentration: 0.0759691 ug

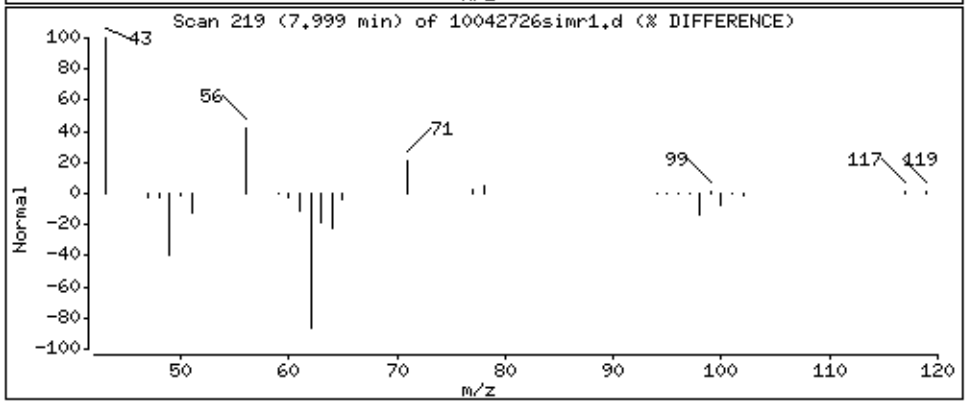












Data File: /chem/msd10.i/27Apr2015.b/10042726simr1.d

Date : 27-APR-2015 17:49

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-01A;

Volume Injected (uL): 1.0

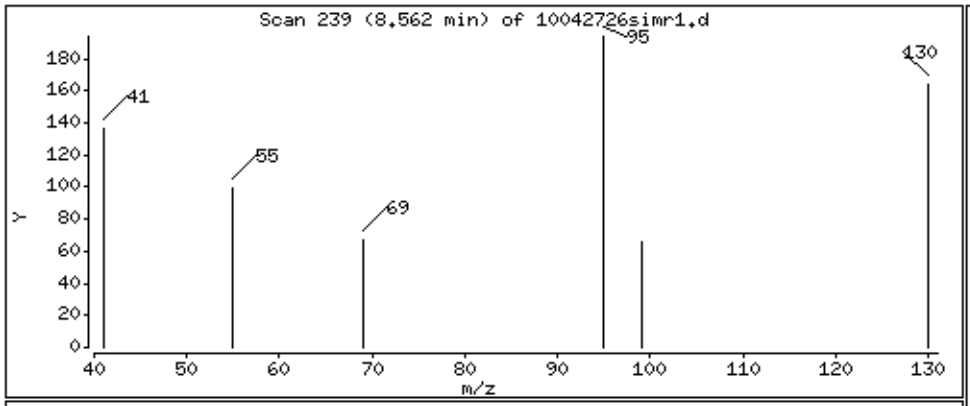
Operator: gm

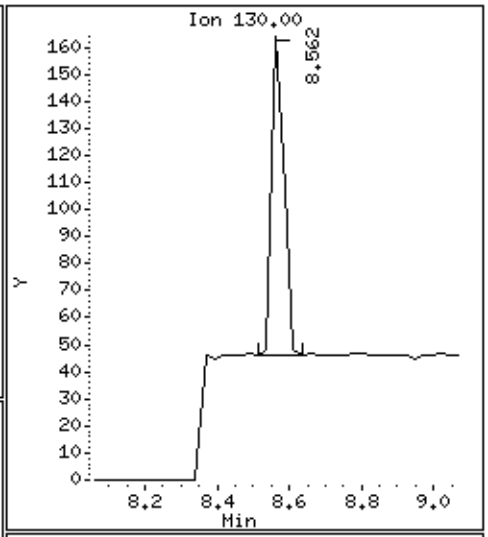
Column phase: DB-5.625

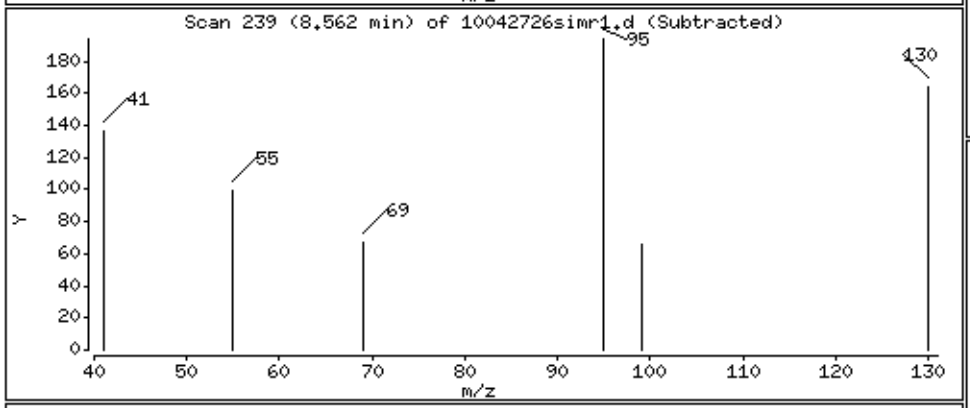
Column diameter: 0.25

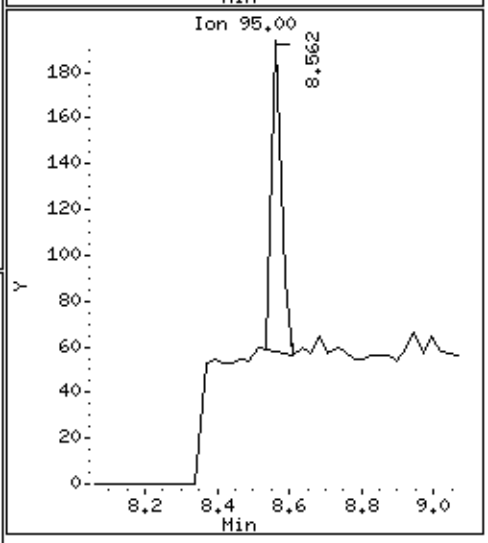
22 Trichloroethene

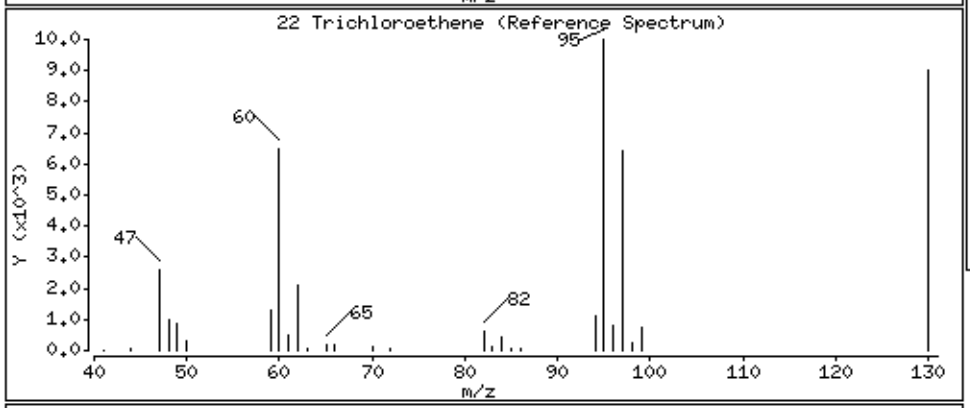
Concentration: 0.0408144 ug

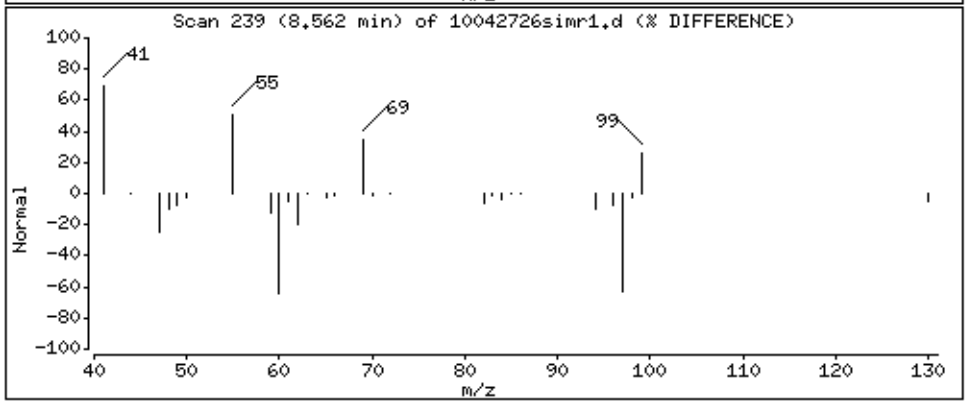












Data File: /chem/msd10.i/27Apr2015.b/10042726simr1.d

Date : 27-APR-2015 17:49

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-01A;

Volume Injected (uL): 1.0

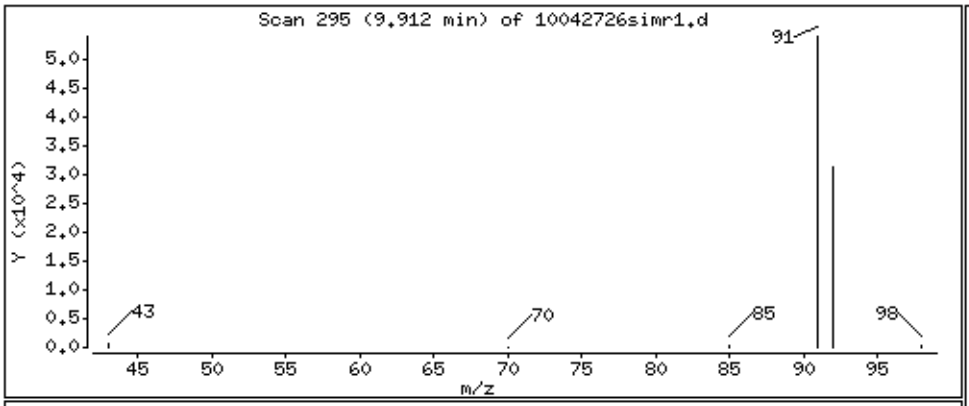
Operator: gm

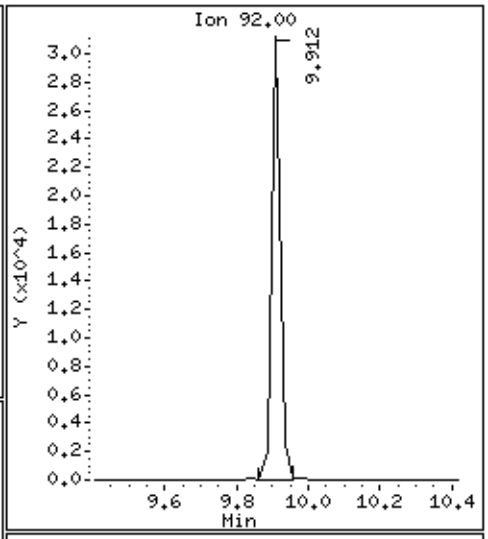
Column phase: DB-5.625

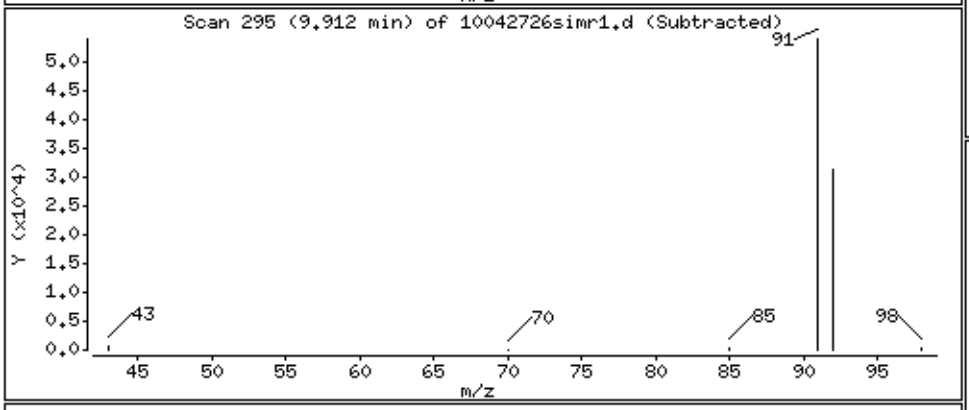
Column diameter: 0.25

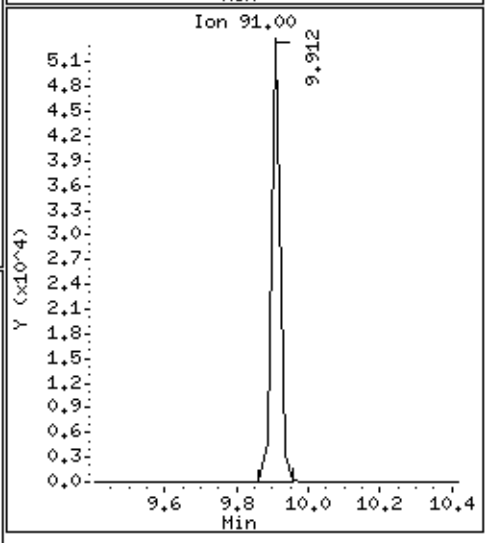
28 Toluene-CCC

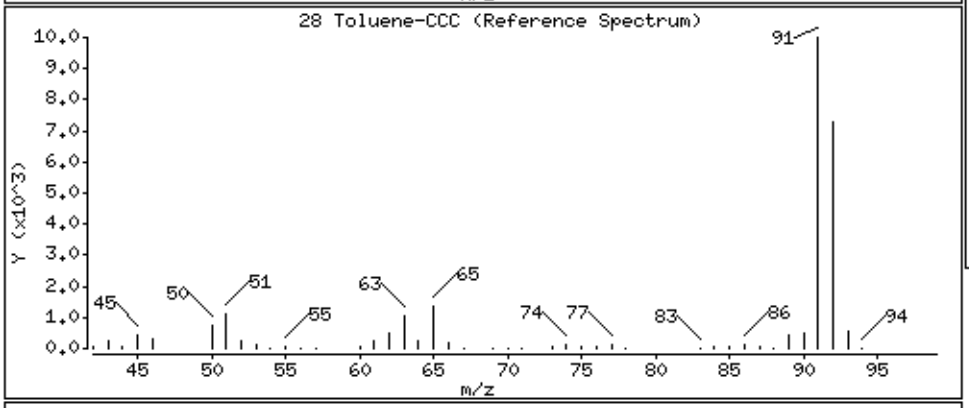
Concentration: 2.63600 ug

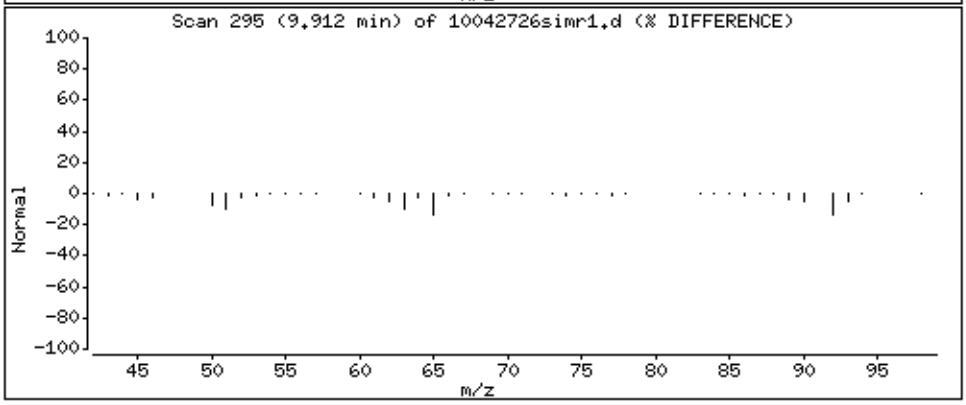












Data File: /chem/msd10.i/27Apr2015.b/10042726simr1.d

Date : 27-APR-2015 17:49

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-01A;

Volume Injected (uL): 1.0

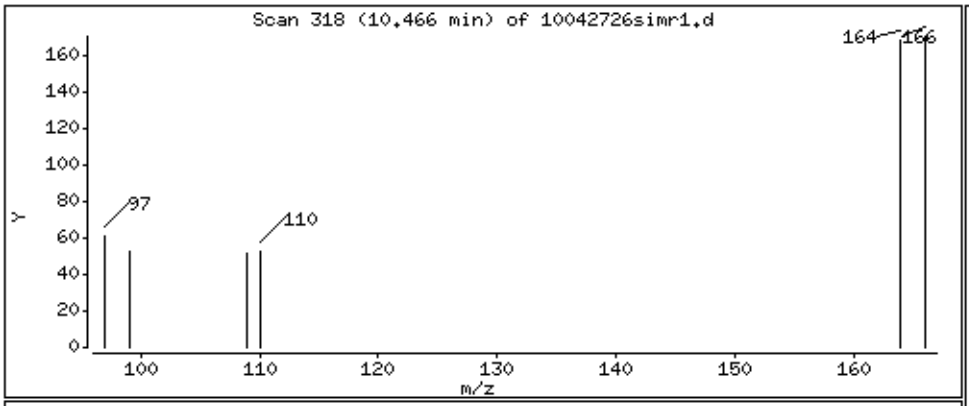
Operator: gm

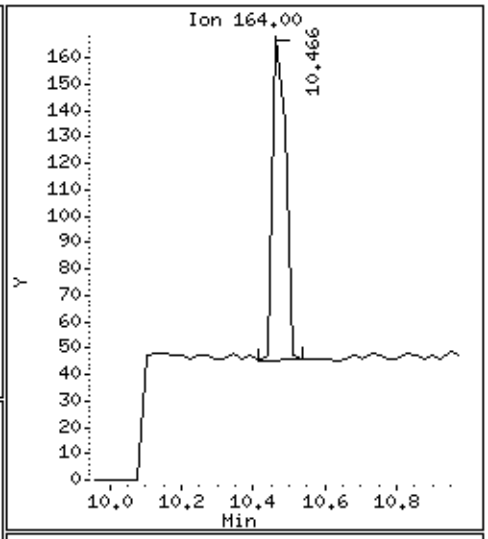
Column phase: DB-5.625

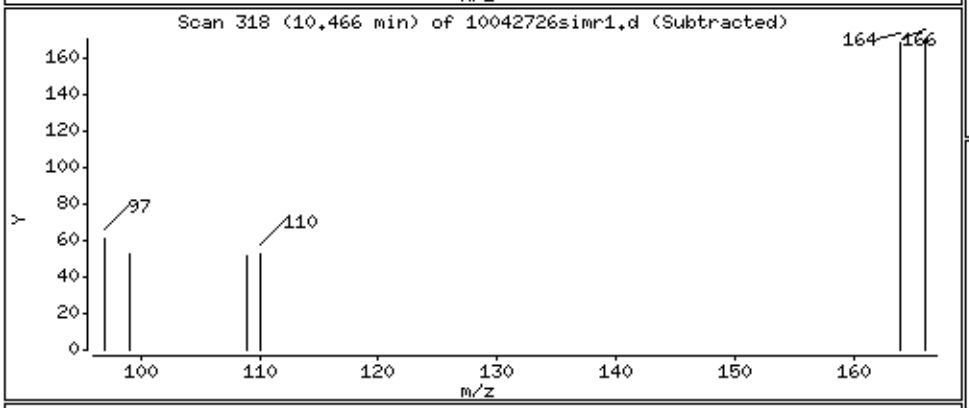
Column diameter: 0.25

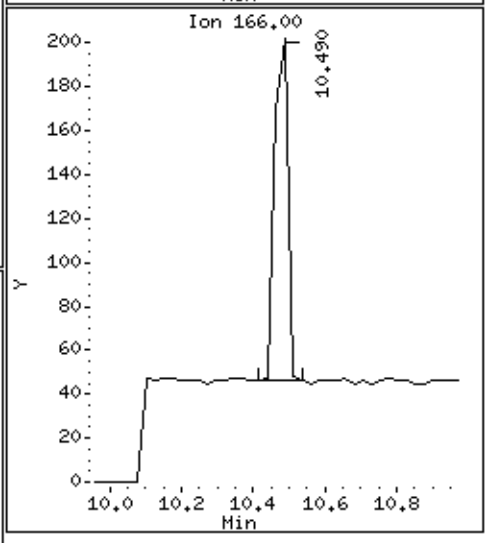
31 Tetrachloroethene

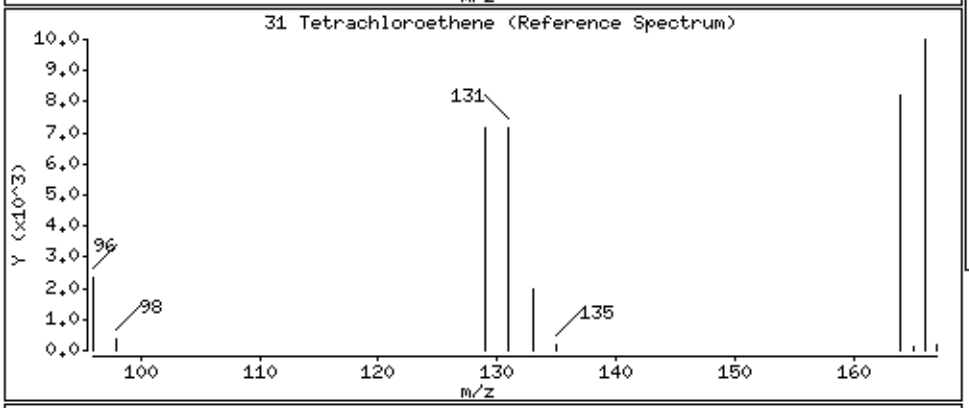
Concentration: 0.0498577 ug

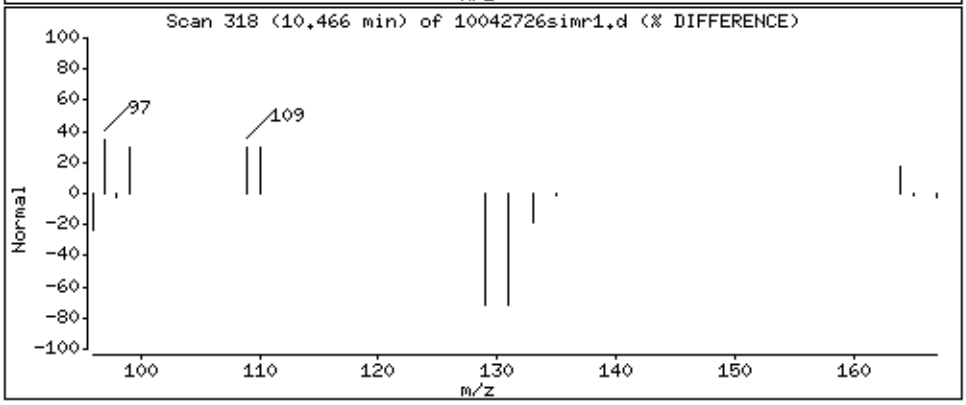












Data File: /chem/msd10.i/27Apr2015.b/10042726simr1.d

Date : 27-APR-2015 17:49

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-01A;

Volume Injected (uL): 1.0

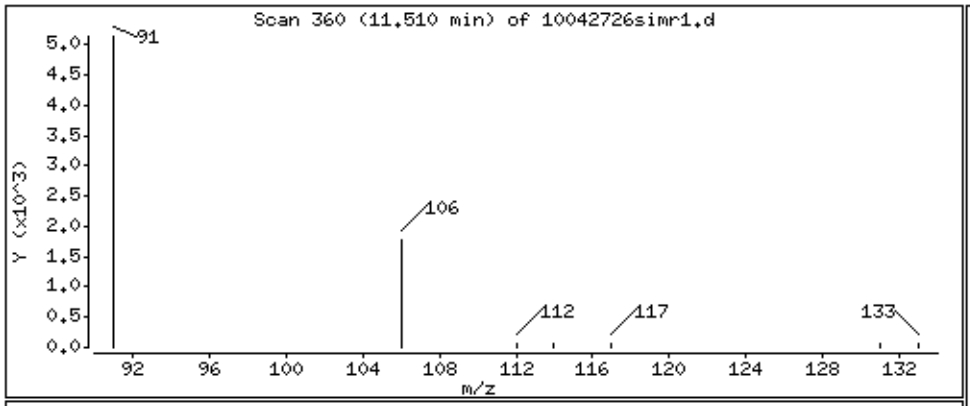
Operator: gm

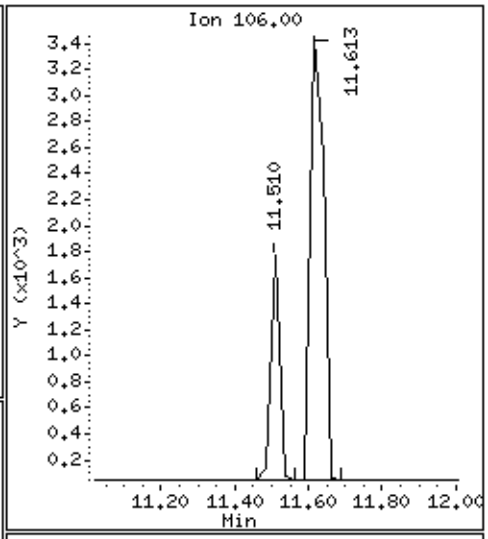
Column phase: DB-5.625

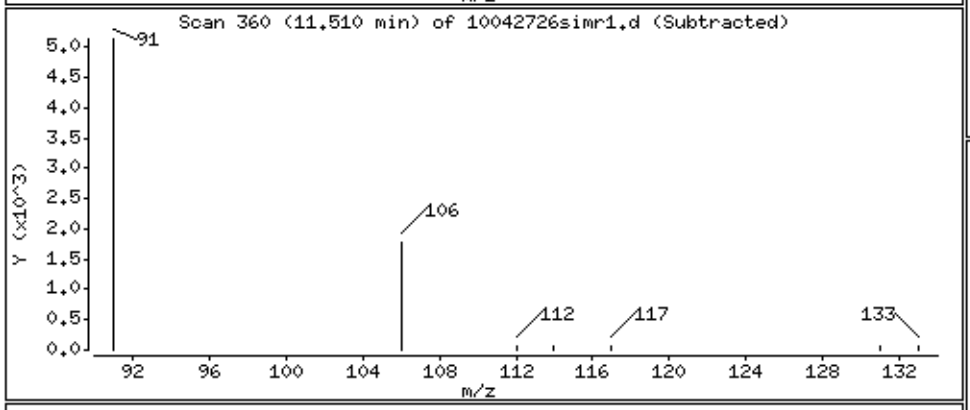
Column diameter: 0.25

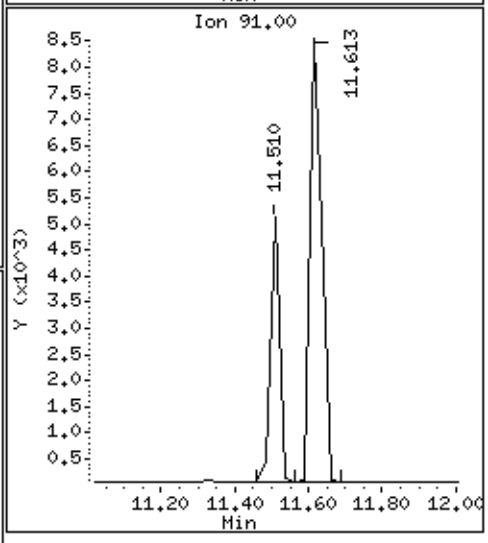
33 Ethylbenzene-CCC

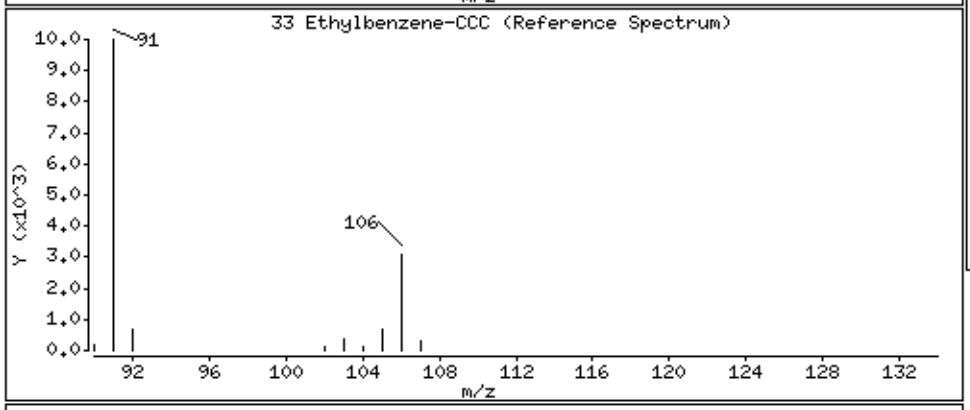
Concentration: 0.211832 ug

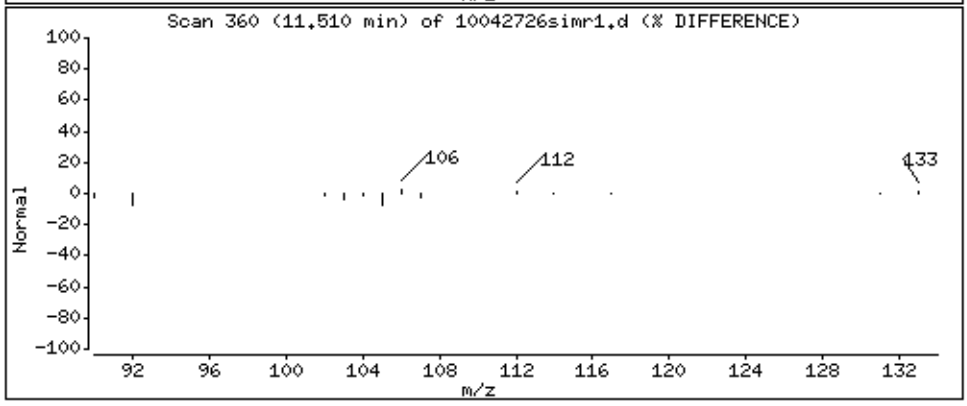












Data File: /chem/msd10.i/27Apr2015.b/10042726simr1.d

Date : 27-APR-2015 17:49

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-01A;

Volume Injected (uL): 1.0

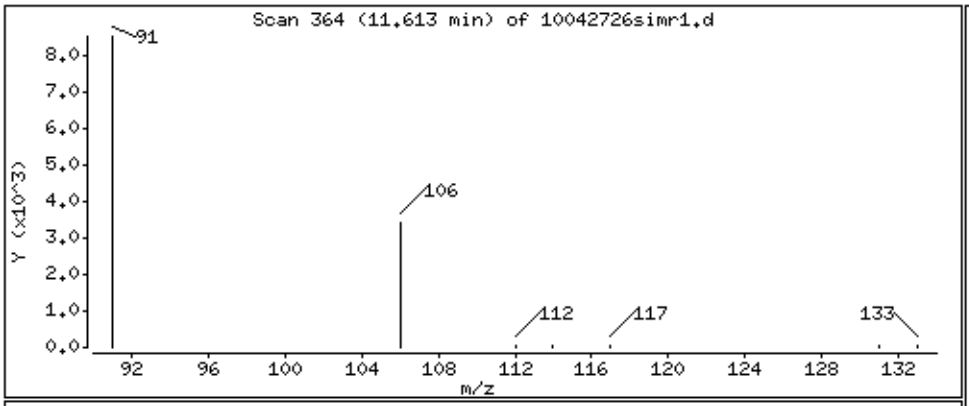
Operator: gm

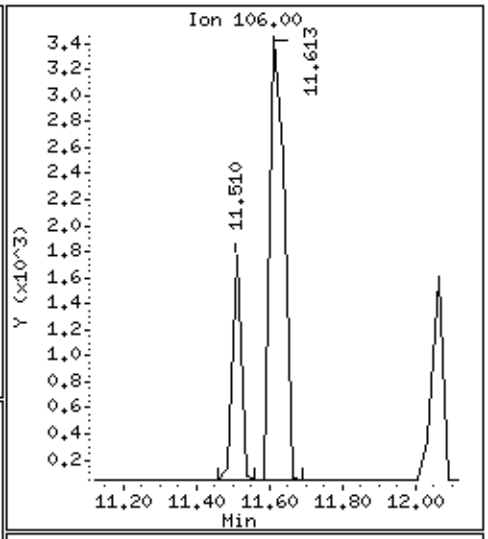
Column phase: DB-5.625

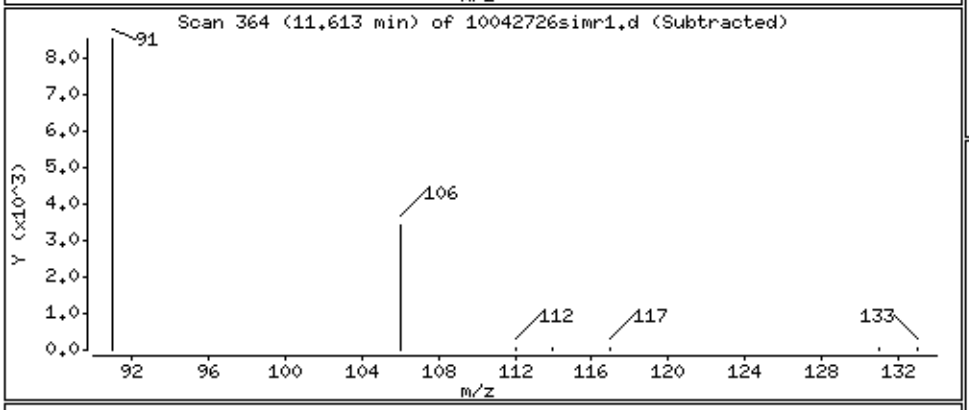
Column diameter: 0.25

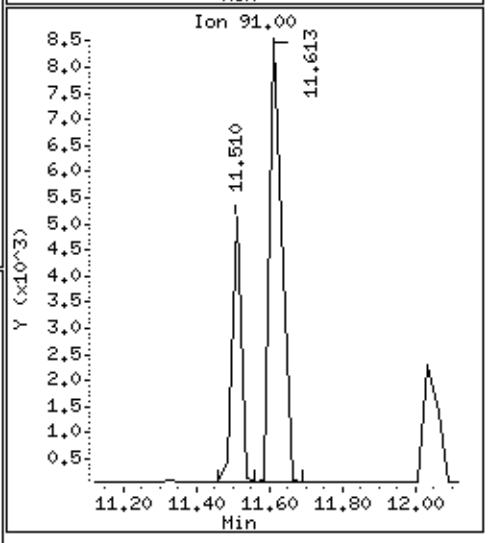
34 m,p-Xylene

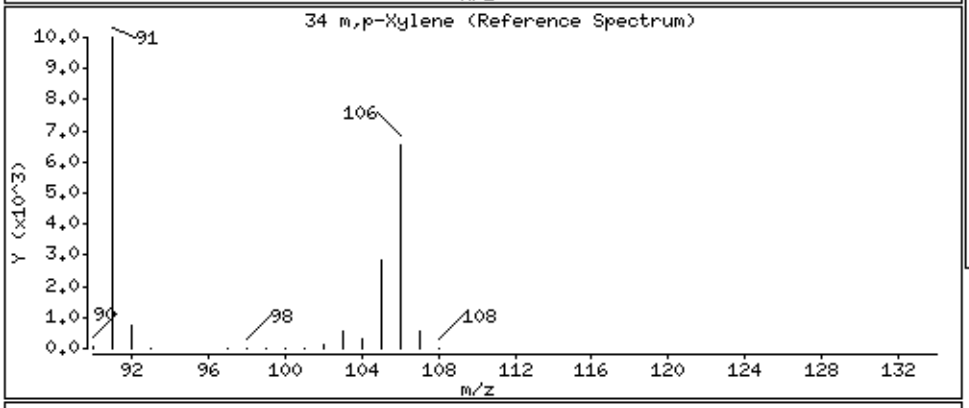
Concentration: 0.647770 ug

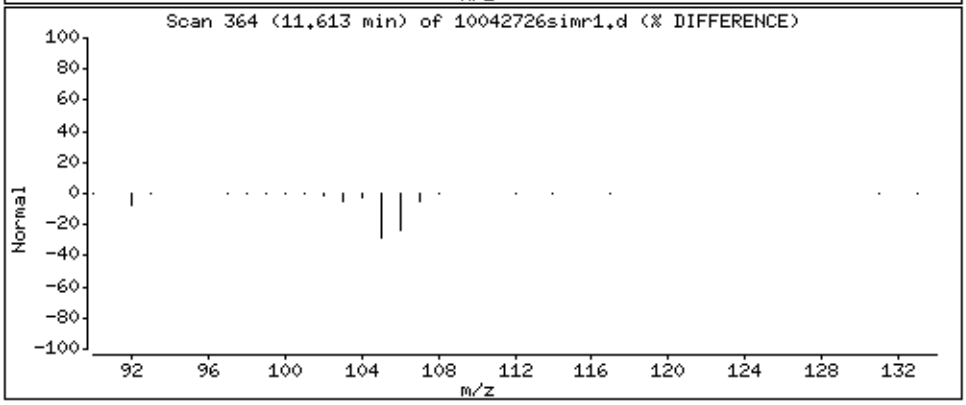












Data File: /chem/msd10.i/27Apr2015.b/10042726simr1.d

Date : 27-APR-2015 17:49

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-01A;

Volume Injected (uL): 1.0

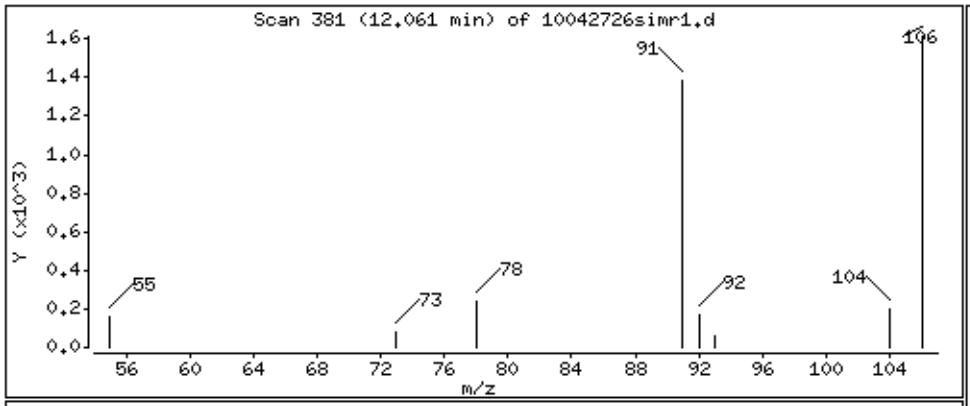
Operator: gm

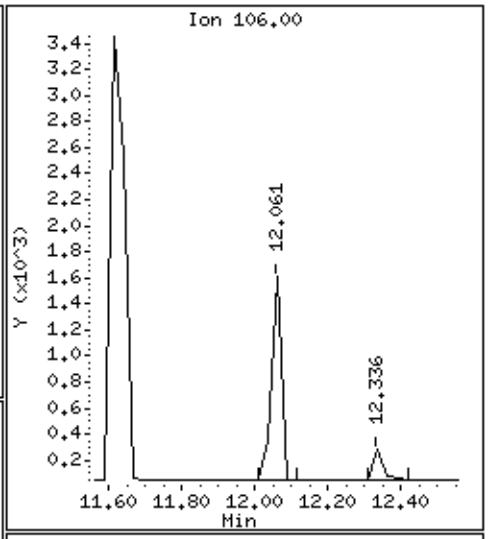
Column phase: DB-5.625

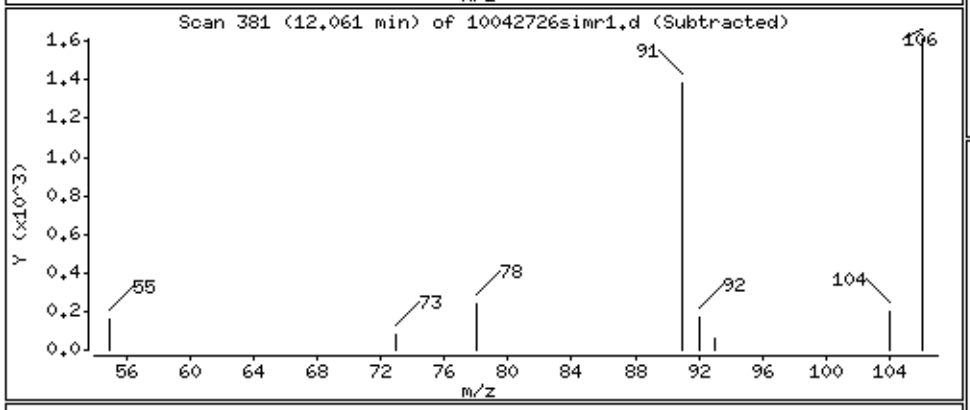
Column diameter: 0.25

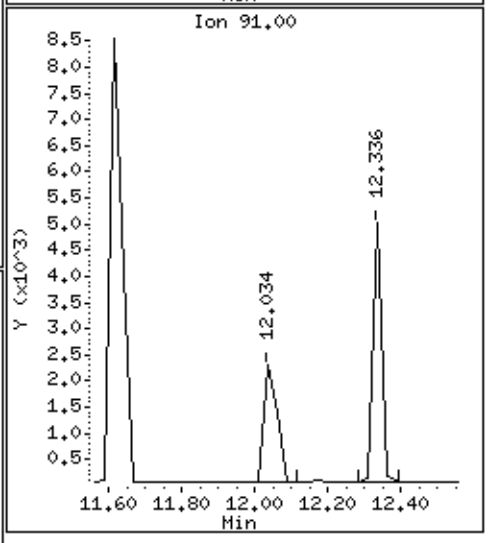
36 o-Xylene

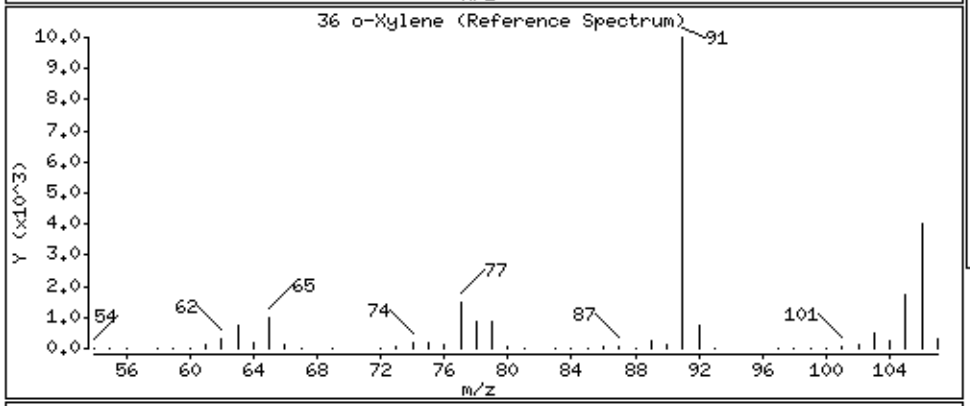
Concentration: 0.223460 ug

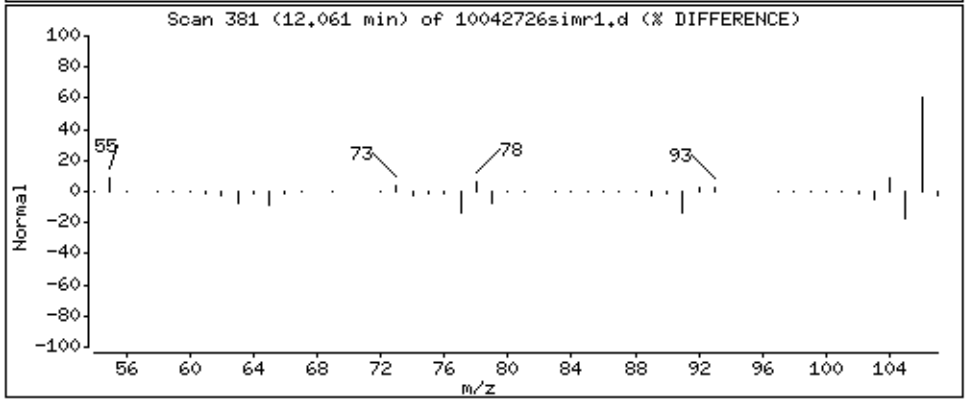












Data File: /chem/msd10.i/27Apr2015.b/10042726simr1.d

Date : 27-APR-2015 17:49

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-01A;

Volume Injected (uL): 1.0

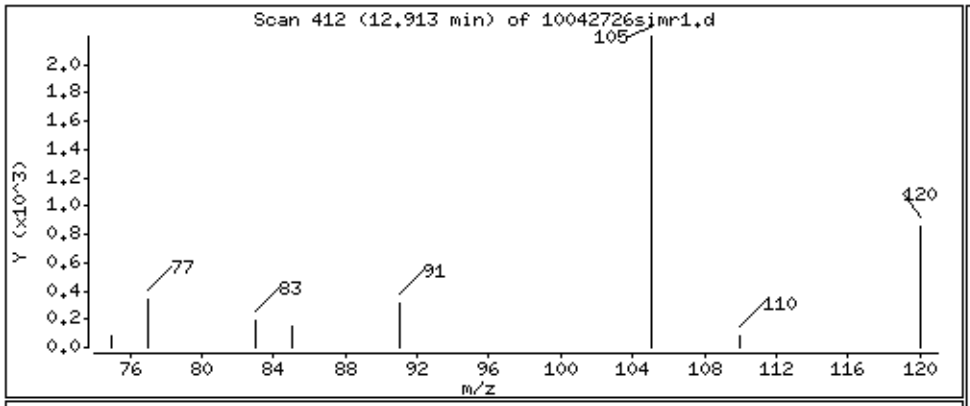
Operator: gm

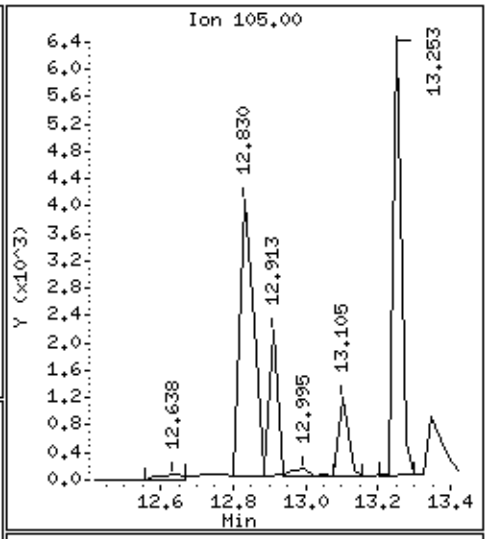
Column phase: DB-5.625

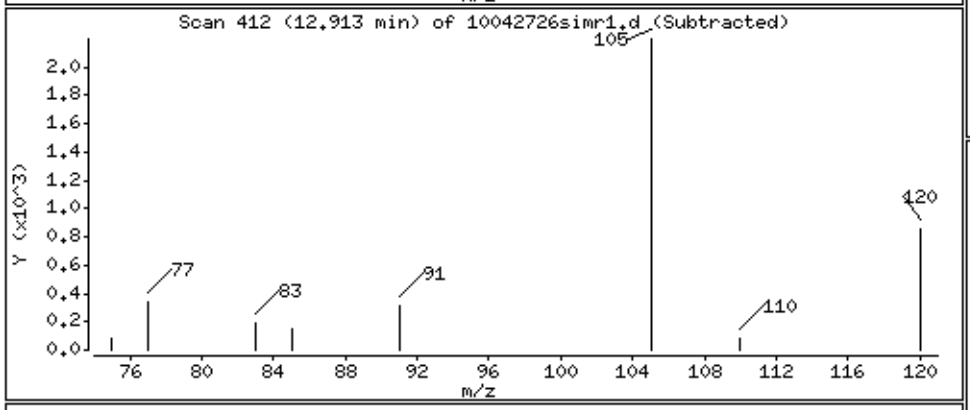
Column diameter: 0.25

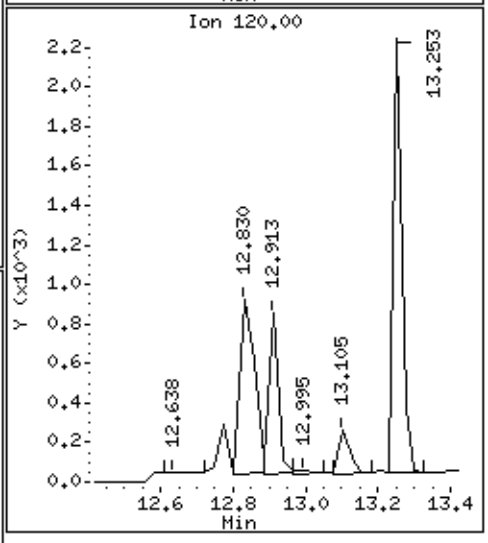
41 1,3,5-Trimethylbenzene

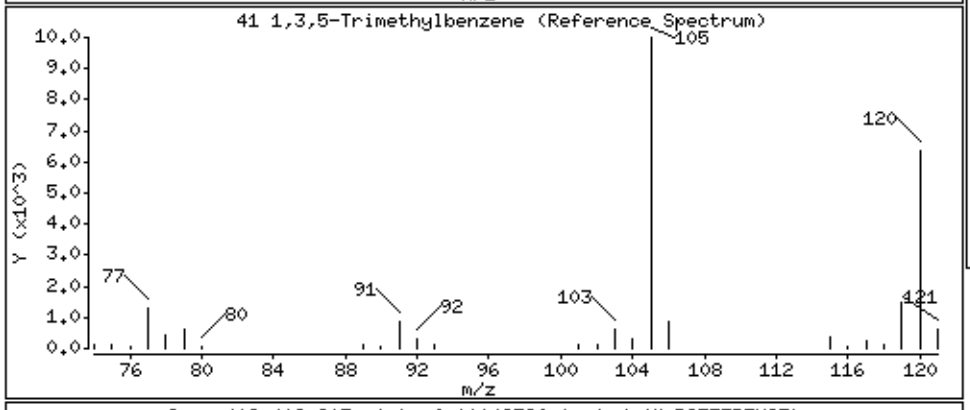
Concentration: 0.0826458 ug

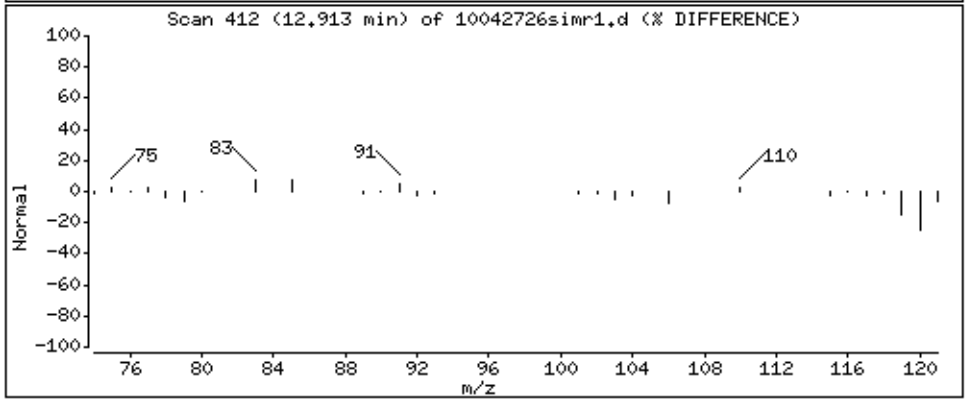












Data File: /chem/msd10.i/27Apr2015.b/10042726simr1.d

Date : 27-APR-2015 17:49

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-01A;

Volume Injected (uL): 1.0

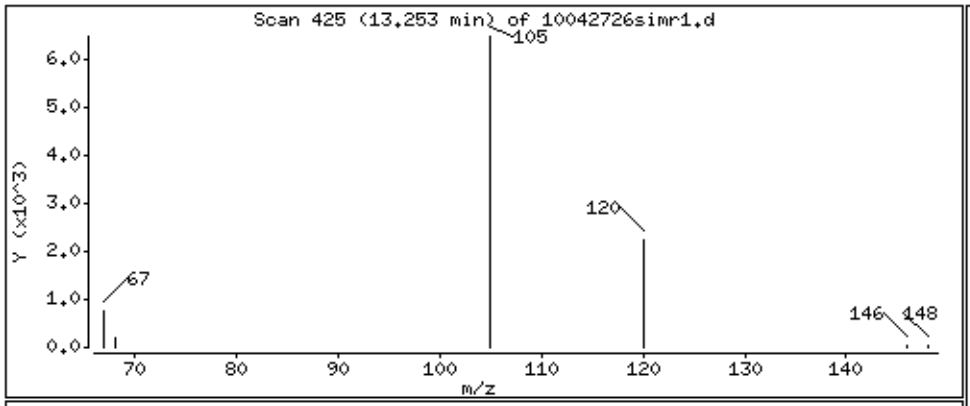
Operator: gm

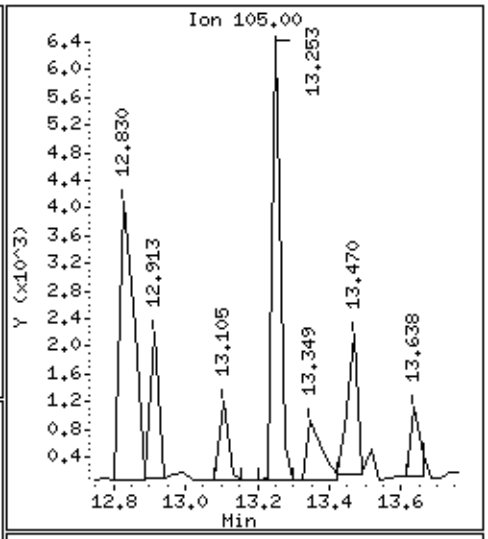
Column phase: DB-5.625

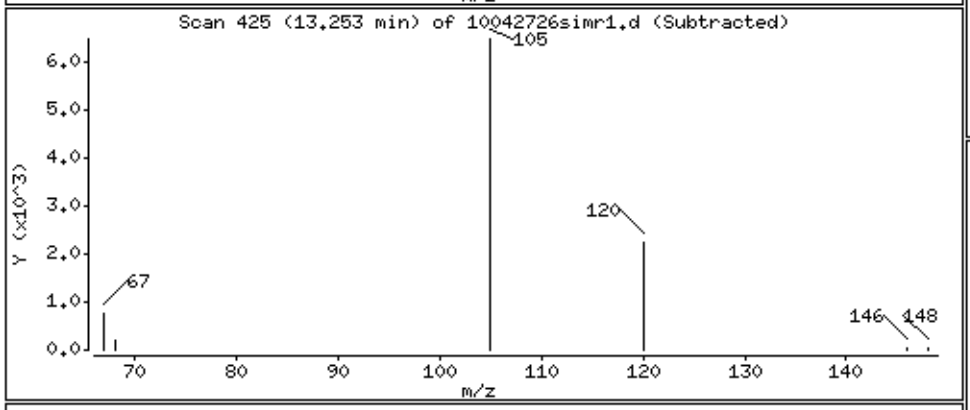
Column diameter: 0.25

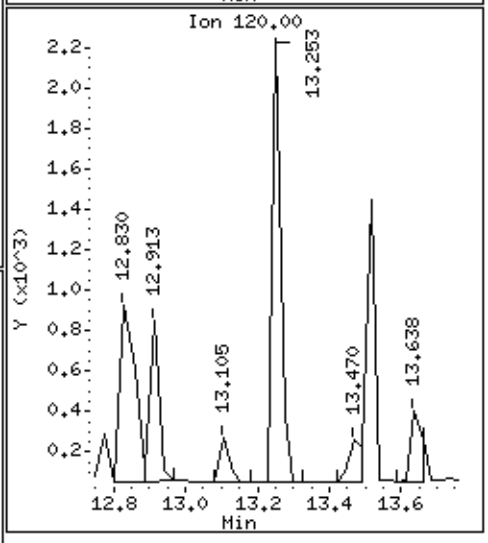
42 1,2,4-Trimethylbenzene

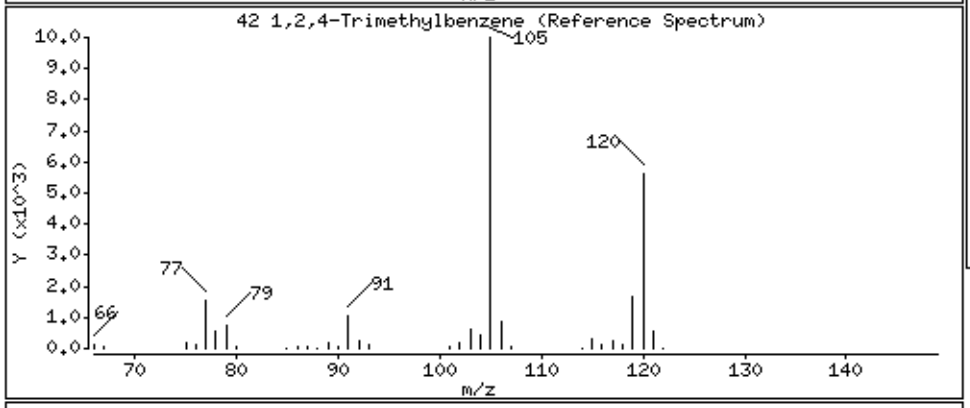
Concentration: 0.269177 ug

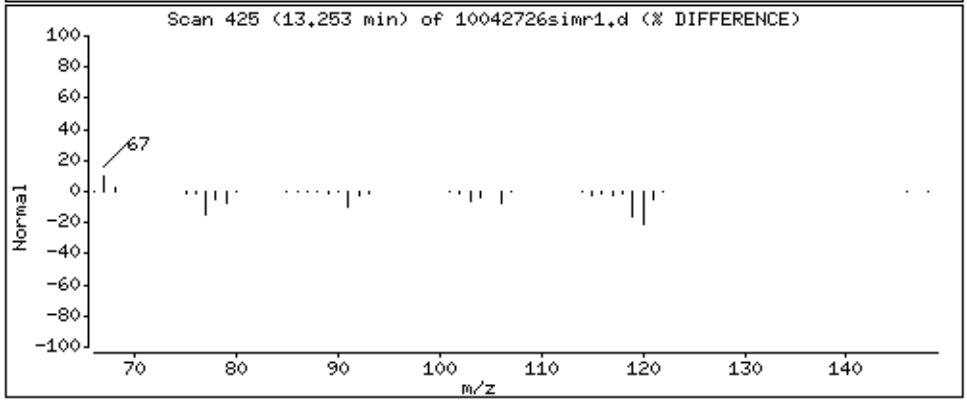












Data File: /chem/msd10.i/27Apr2015.b/10042726simr1.d

Date : 27-APR-2015 17:49

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-01A;

Volume Injected (uL): 1.0

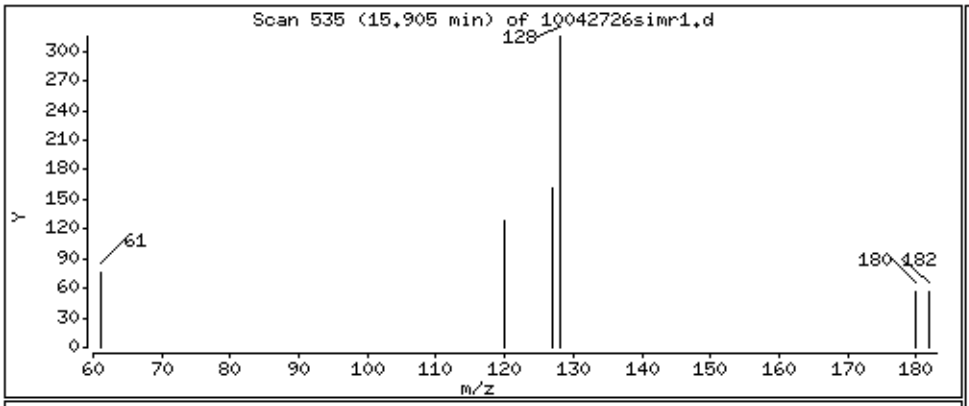
Operator: gm

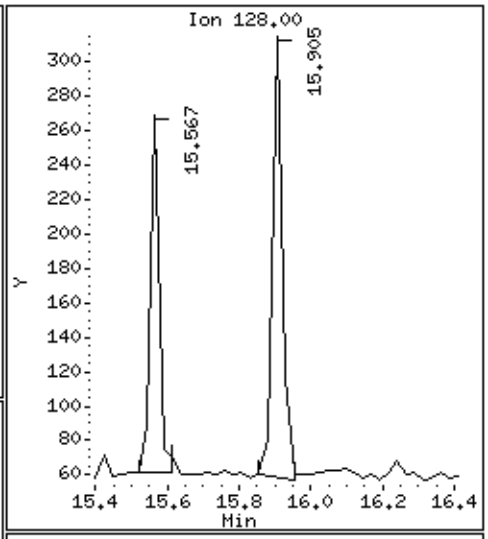
Column phase: DB-5.625

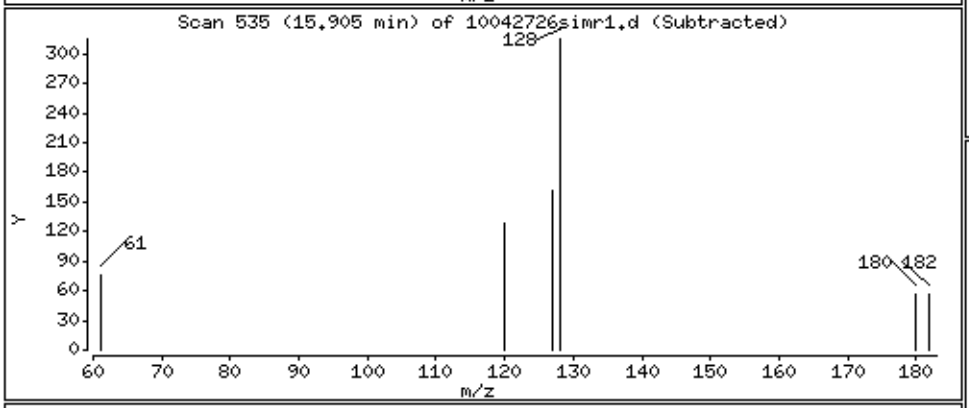
Column diameter: 0.25

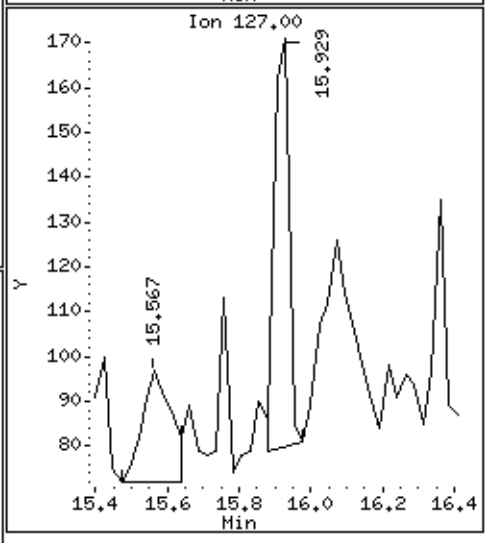
49 Naphthalene

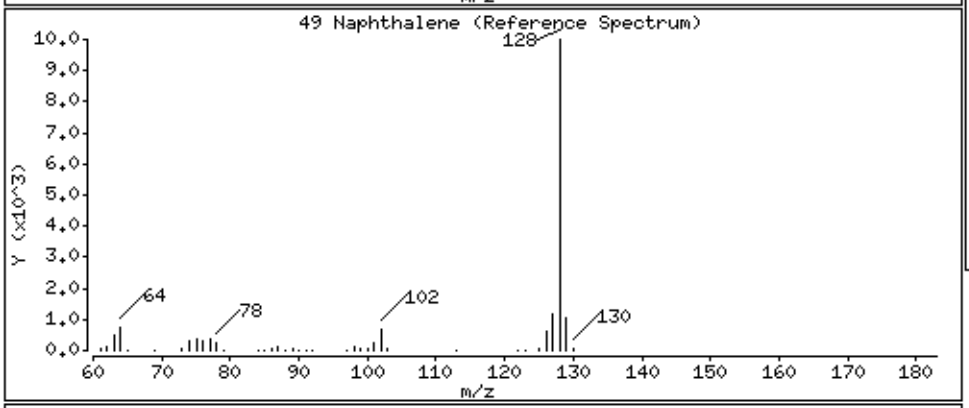
Concentration: 0.00842602 ug

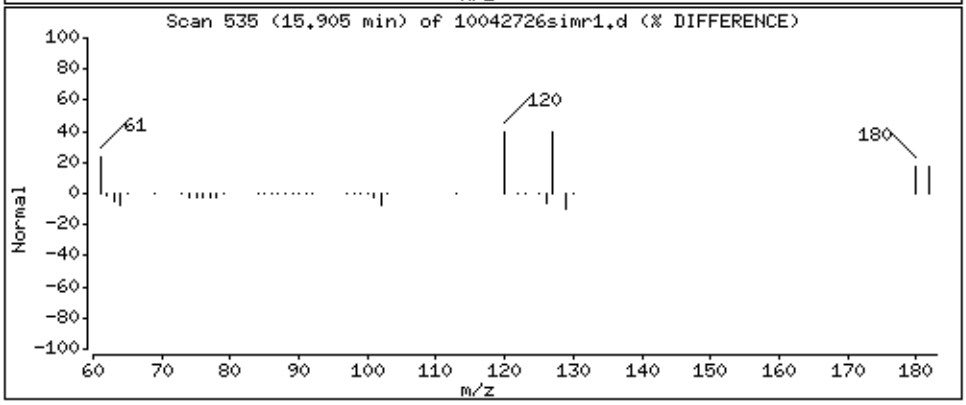












eurofins | Air Toxics

Client Sample ID: 764NP

Lab ID#: 1504459R1-02A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**10042727simr1**	**Date of Collection: 4/16/15 10:30:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/27/15 06:12 PM**
		Date of Extraction: 4/27/15

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Benzene	0.40	0.50	0.63	0.78
1,2-Dichloroethane	0.10	0.13	0.053 J	0.068 J
Trichloroethene	0.10	0.14	0.048 J	0.070 J
Toluene	0.10	0.13	1.6	2.1
Tetrachloroethene	0.10	0.17	0.081 J	0.14 J
Ethyl Benzene	0.10	0.14	0.25	0.37
m,p-Xylene	0.10	0.14	0.74	1.0
o-Xylene	0.10	0.15	0.27	0.41
Naphthalene	0.10	0.40	0.014 J	0.055 J
1,1-Dichloroethane	0.10	0.16	Not Detected C	Not Detected C
1,1-Dichloroethene	0.40	0.52	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.16	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.33	Not Detected C	Not Detected C
1,1,2-Trichloroethane	0.10	0.15	Not Detected C	Not Detected C
1,2,4-Trimethylbenzene	0.10	0.20	0.34	0.68
1,3,5-Trimethylbenzene	0.10	0.19	0.097 CJ	0.18 CJ
Vinyl Chloride	0.40	0.44	Not Detected C	Not Detected C

J = Estimated value.
C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F , duration time = 10095 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130

Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msd10.i/27Apr2015.b/10042727simr1.d
Lab Smp Id: 1504459R1-02A
Inj Date : 27-APR-2015 18:12
Operator : gm Inst ID: msd10.i
Smp Info : ;1504459R1-02A;
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Meth Date : 08-May-2015 15:50 gmash Quant Type: ISTD
Cal Date : 27-APR-2015 11:01 Cal File: 10042709sim.d
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Gilbane.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
2	Vinyl Chloride	62	Compound Not Detected.					
4	1,1-Dichloroethene-CCC	96	Compound Not Detected.					
8	trans-1,2-Dichloroethene	96	Compound Not Detected.					
11	1,1-Dichloroethane-SPCC	63	Compound Not Detected.					
14	cis-1,2-Dichloroethene	96	Compound Not Detected.					
17	1,1,1-Trichloroethane	97	Compound Not Detected.					
19	Benzene	78	7.938	7.938	(0.782)	14054	0.31567	0.631333
20	1,2-Dichloroethane	62	8.000	7.999	(0.788)	501	0.02633	0.0526620(aM)
22	Trichloroethene	130	8.562	8.562	(0.843)	339	0.02422	0.0484362(aM)
$ 26	Toluene-d8	98	9.839	9.839	(0.969)	252020	5.07117	10.1423
28	Toluene-CCC	92	9.912	9.912	(0.976)	33769	0.80183	1.60366
* 29	2-Fluorotoluene	109	10.153	10.153	(1.000)	275029	5.00000	
30	1,1,2-Trichloroethane	97	Compound Not Detected.					
31	Tetrachloroethene	164	10.466	10.466	(1.031)	543	0.04066	0.0813220(a)
33	Ethylbenzene-CCC	106	11.510	11.510	(1.134)	3662	0.12673	0.253456
34	m,p-Xylene	106	11.613	11.613	(1.144)	11147	0.36875	0.737504

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
36 o-Xylene	106	12.062	12.062	(1.188)	3996	0.13503	0.270056
41 1,3,5-Trimethylbenzene	105	12.913	12.913	(1.272)	4635	0.04844	0.0968779(a)
42 1,2,4-Trimethylbenzene	105	13.253	13.253	(1.305)	13803	0.17289	0.345771
49 Naphthalene	128	15.905	15.905	(1.567)	873	0.00693	0.0138659(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd10.i
Lab File ID: 10042727simr1.d
Lab Smp Id: 1504459R1-02A
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

Calibration Date: 27-APR-2015
Calibration Time: 11:01
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	216118	108059	432236	275029	27.26

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 13-Jul-2015 12:28

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 27Apr2015
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 1504459R1-02A
Level: MED Operator: gm
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS-CM.spk Quant Type: ISTD
Sublist File: Gilbane.sub
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 26 Toluene-d8	10.0000	10.1423	101.42	70-130

Data File: /chem/msd10.i/27Apr2015.b/10042727simr1.d

Date : 27-APR-2015 18:12

Client ID:

Instrument: msd10.i

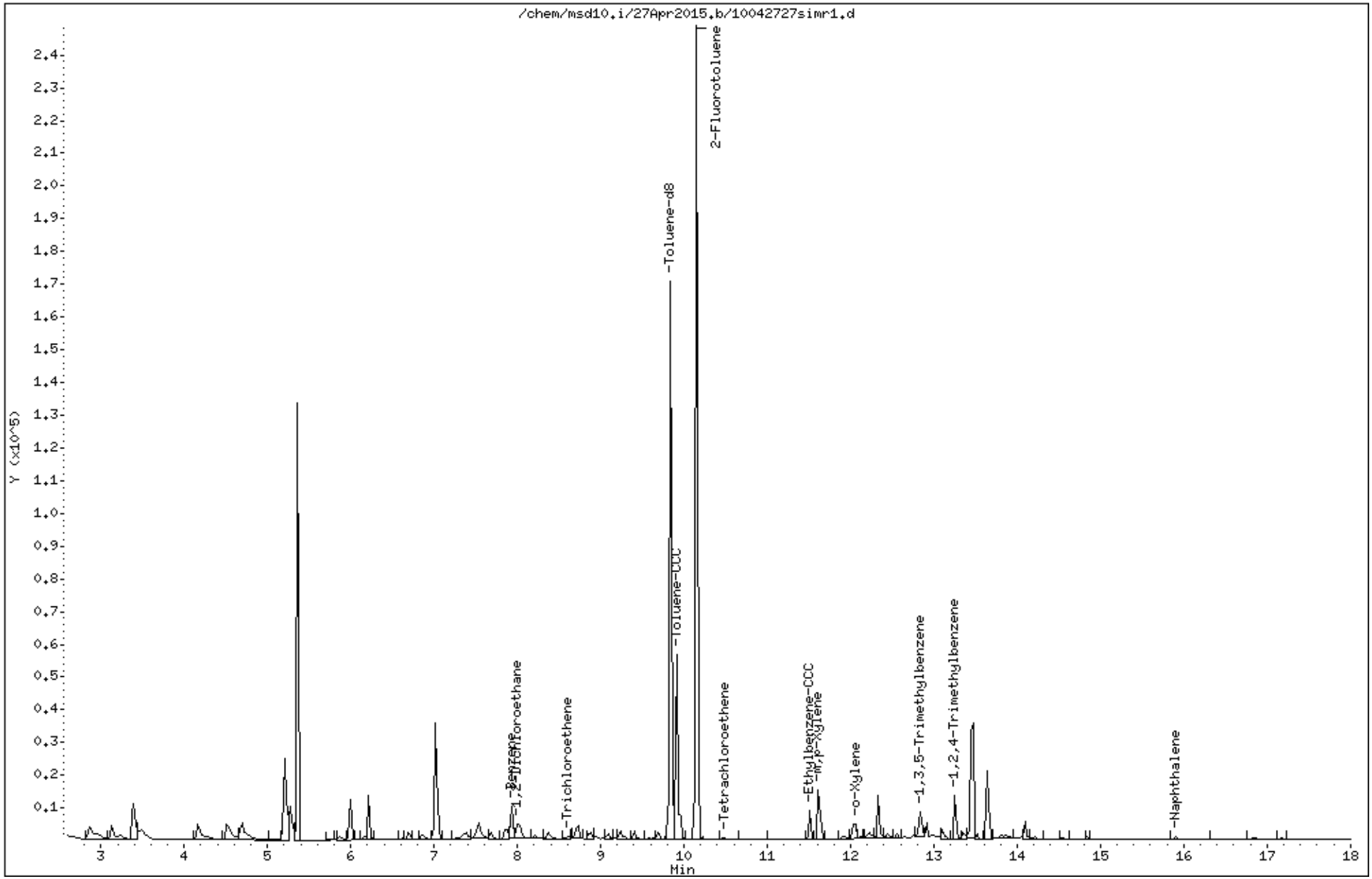
Sample Info: ;1504459R1-02A;

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msd10.i/27Apr2015.b/10042727simr1.d

Date : 27-APR-2015 18:12

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-02A;

Volume Injected (uL): 1.0

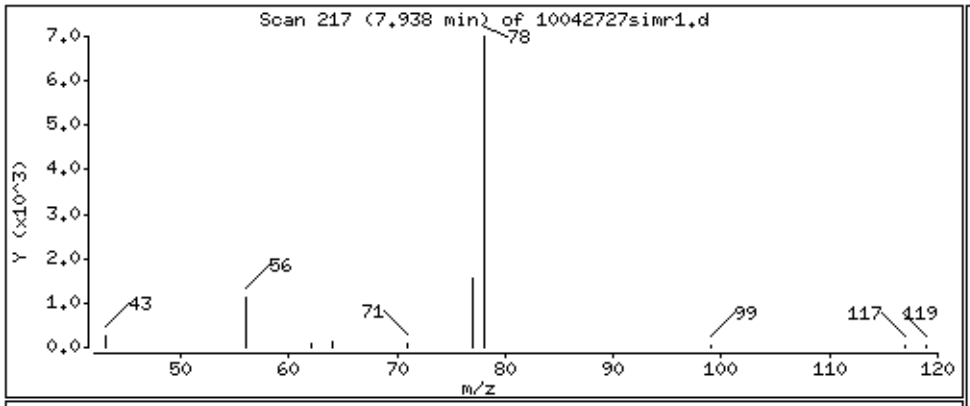
Operator: gm

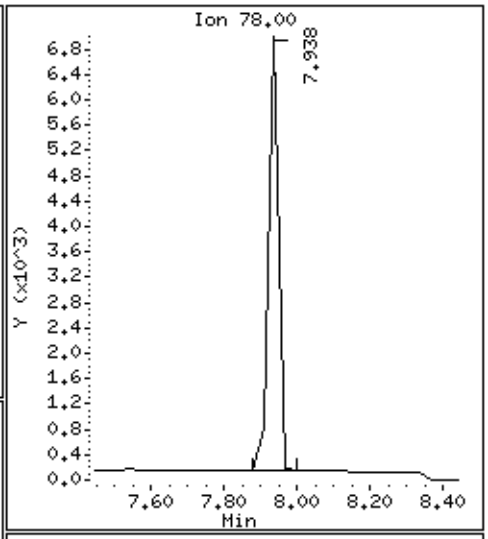
Column phase: DB-5.625

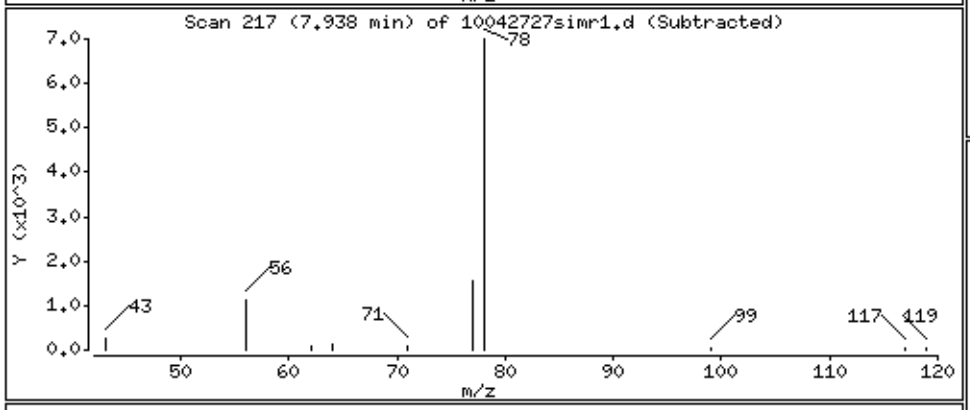
Column diameter: 0.25

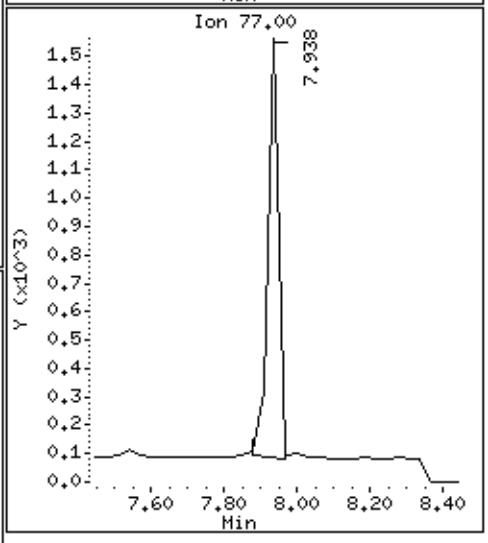
19 Benzene

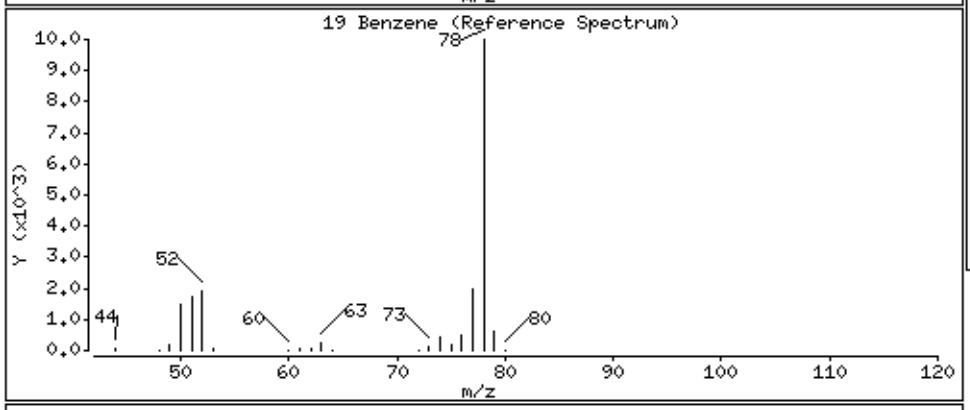
Concentration: 0.631333 ug

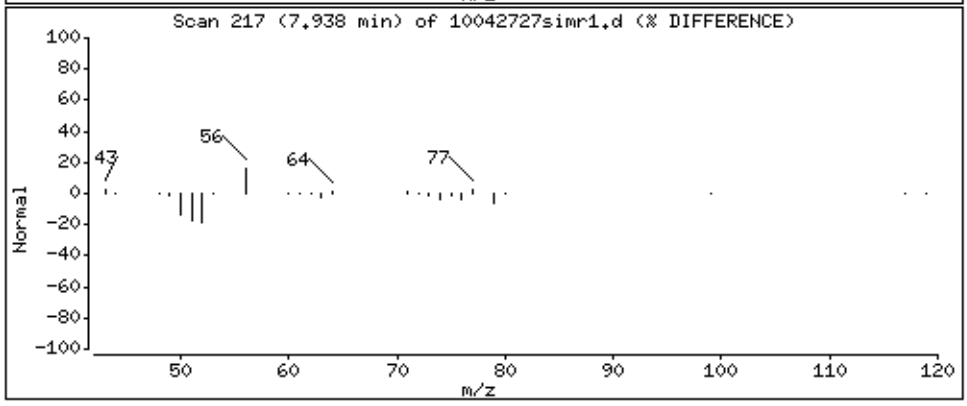












Data File: /chem/msd10.i/27Apr2015.b/10042727simr1.d

Date : 27-APR-2015 18:12

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-02A;

Volume Injected (uL): 1.0

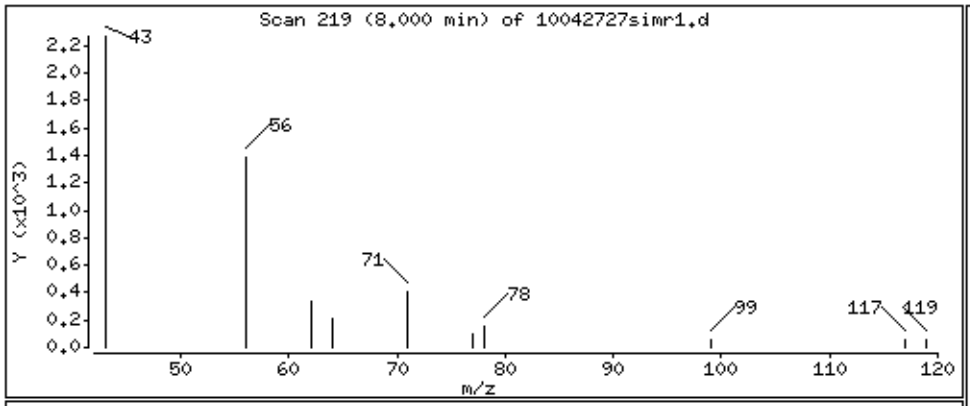
Operator: gm

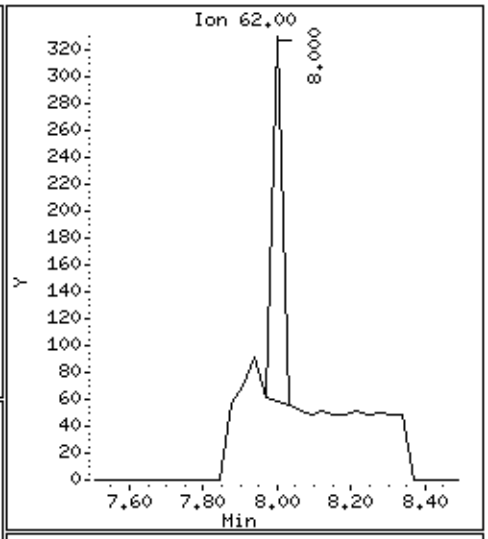
Column phase: DB-5.625

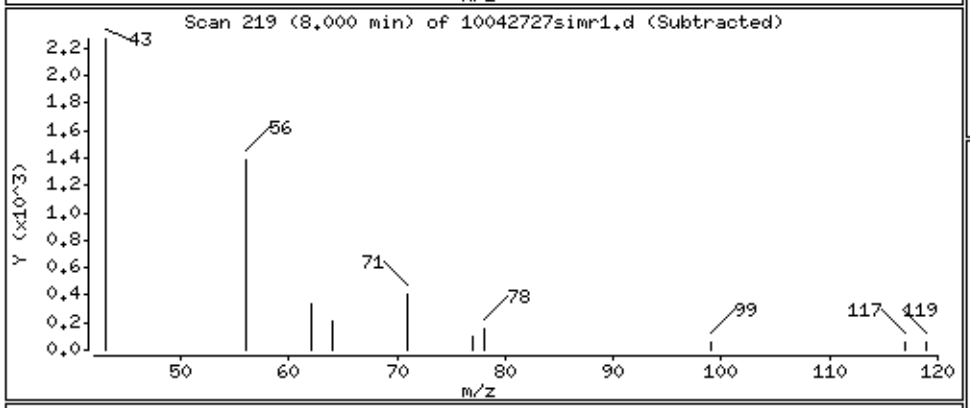
Column diameter: 0.25

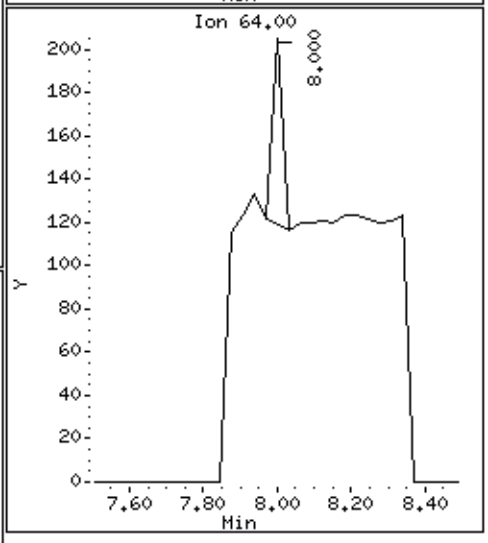
20 1,2-Dichloroethane

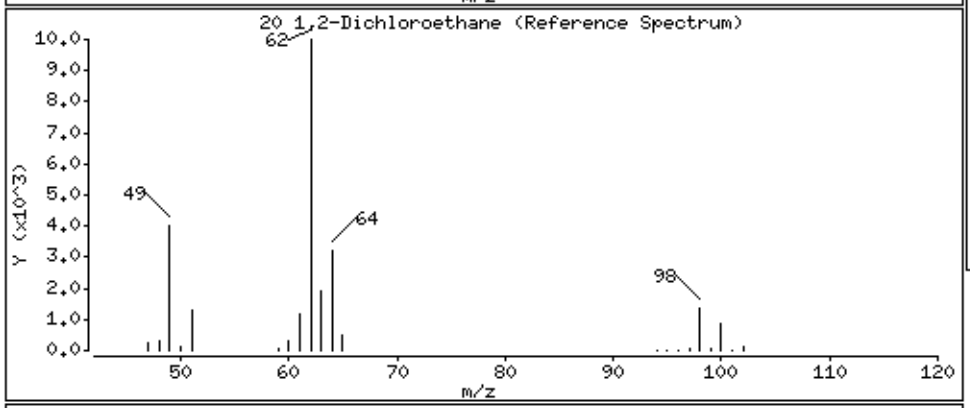
Concentration: 0.0526620 ug

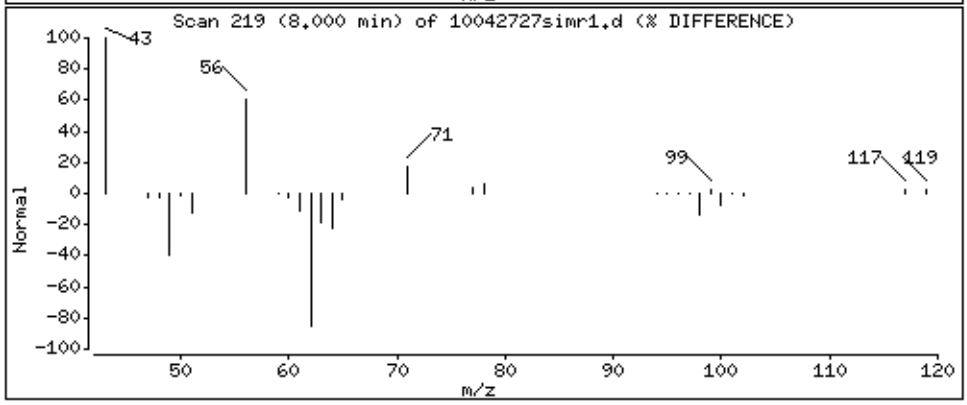












Data File: /chem/msd10.i/27Apr2015.b/10042727simr1.d

Date : 27-APR-2015 18:12

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-02A;

Volume Injected (uL): 1.0

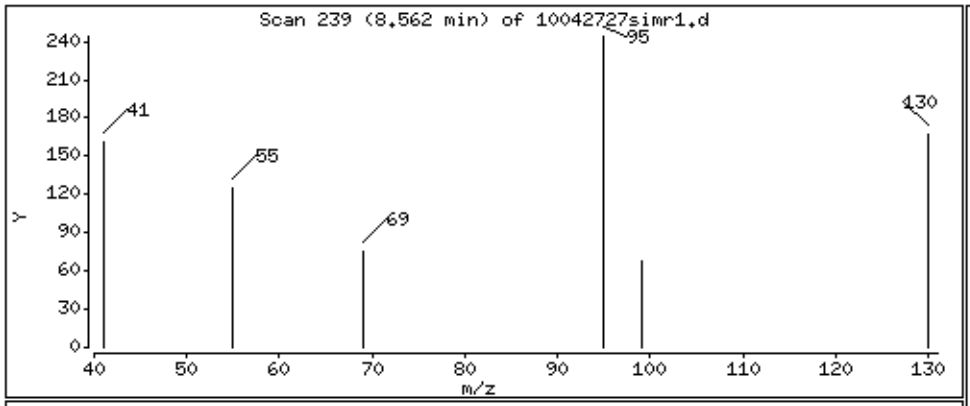
Operator: gm

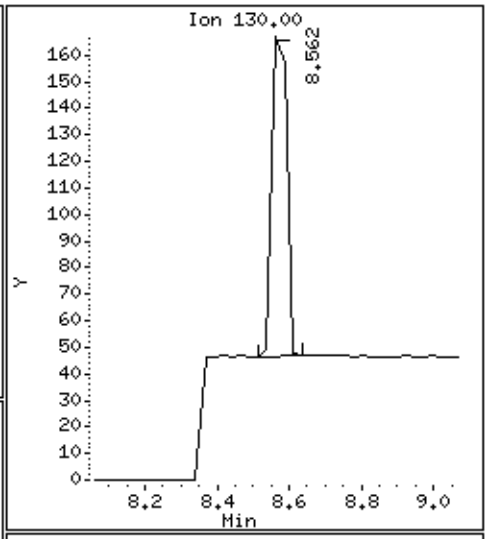
Column phase: DB-5.625

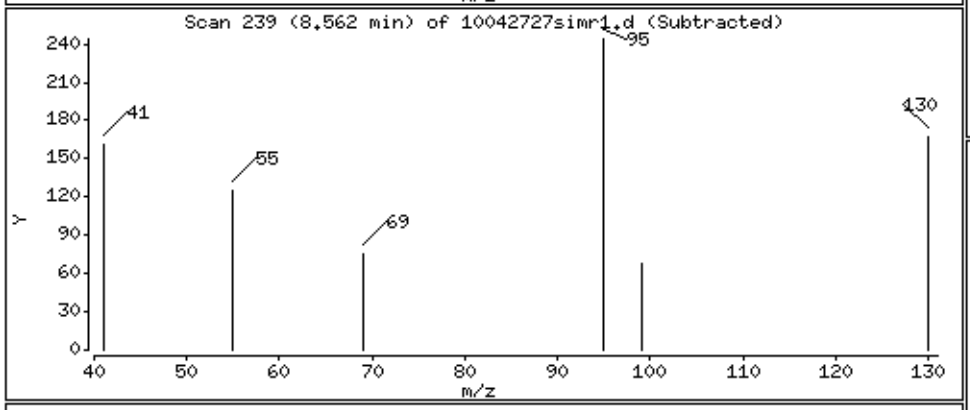
Column diameter: 0.25

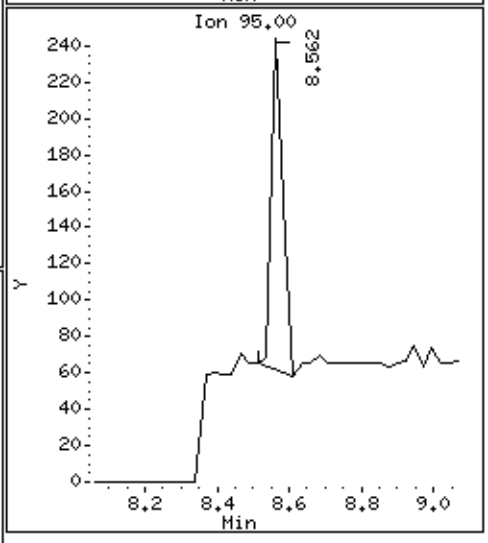
22 Trichloroethene

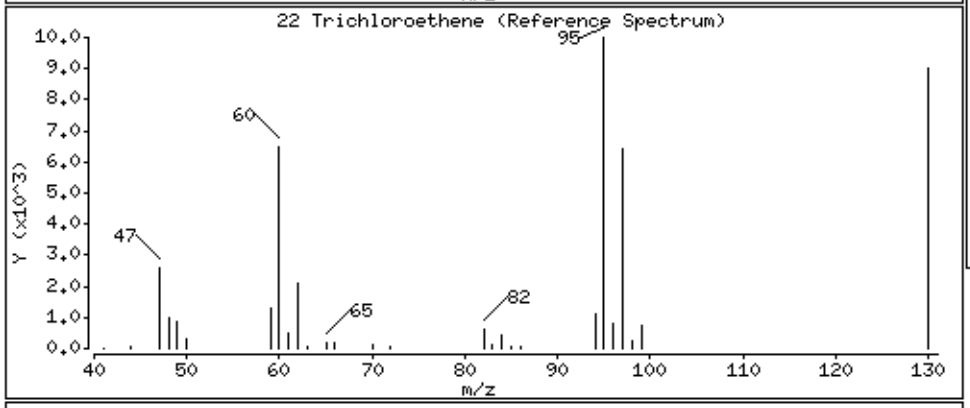
Concentration: 0.0484362 ug

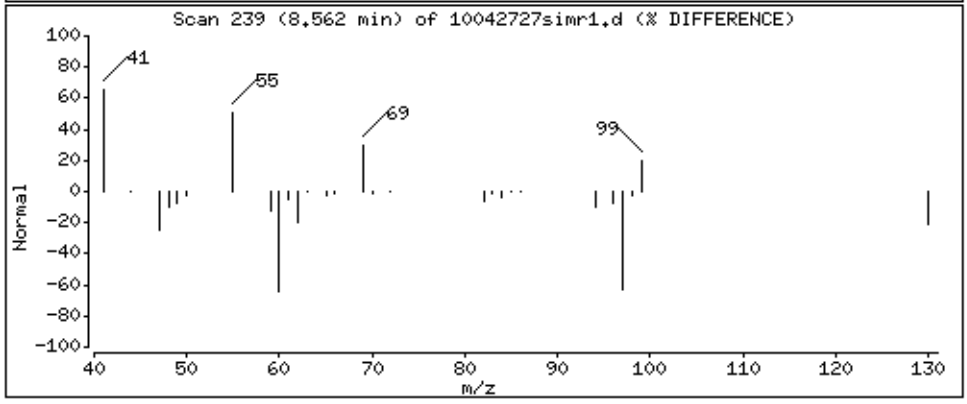












Data File: /chem/msd10.i/27Apr2015.b/10042727simr1.d

Date : 27-APR-2015 18:12

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-02A;

Volume Injected (uL): 1.0

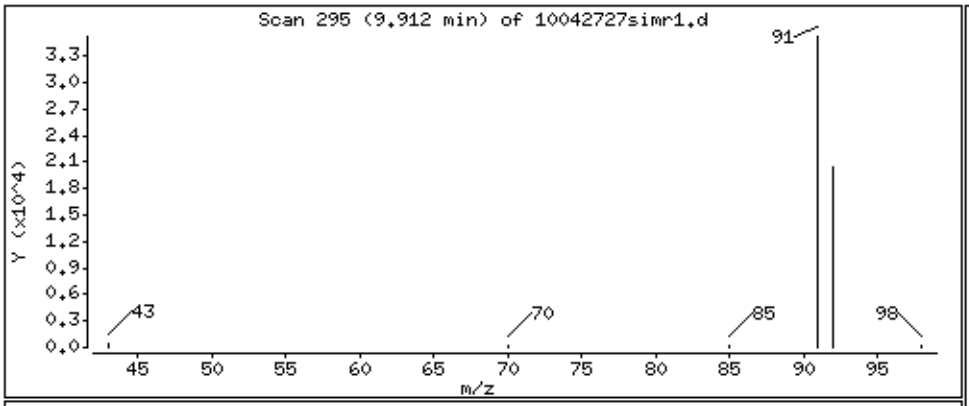
Operator: gm

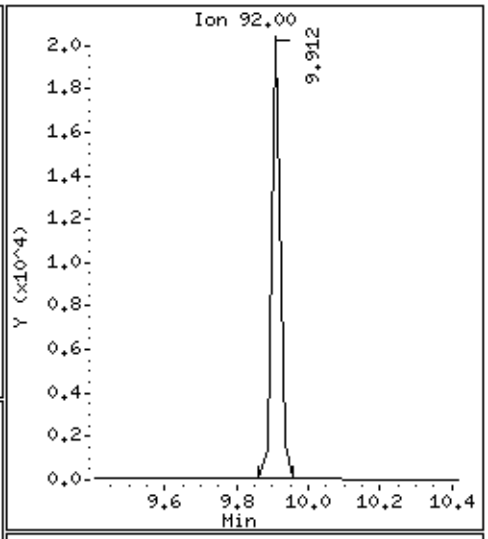
Column phase: DB-5.625

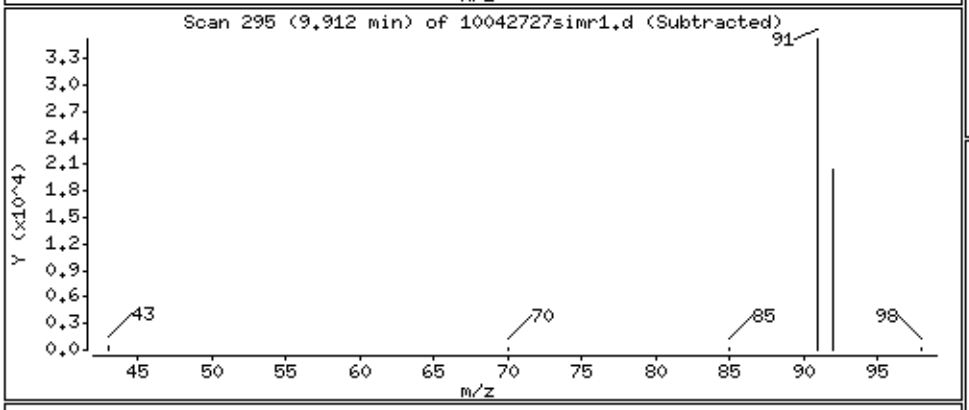
Column diameter: 0.25

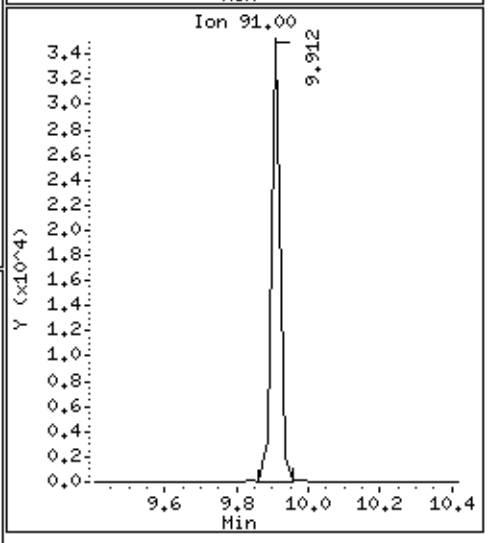
28 Toluene-CCC

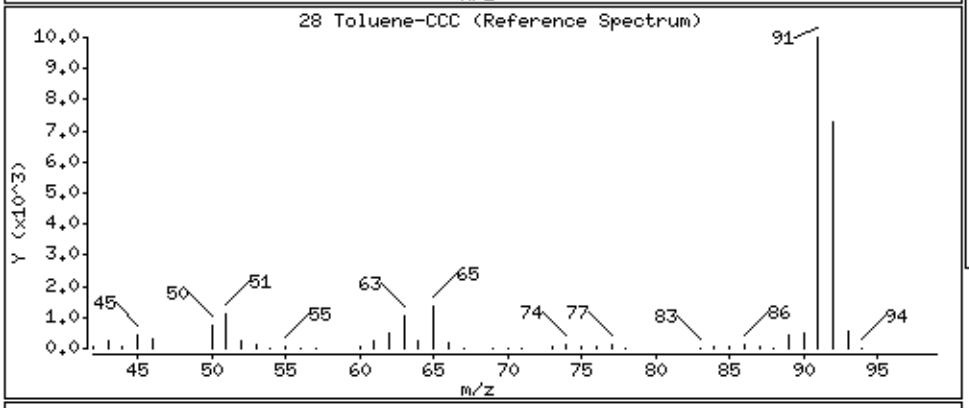
Concentration: 1.60366 ug

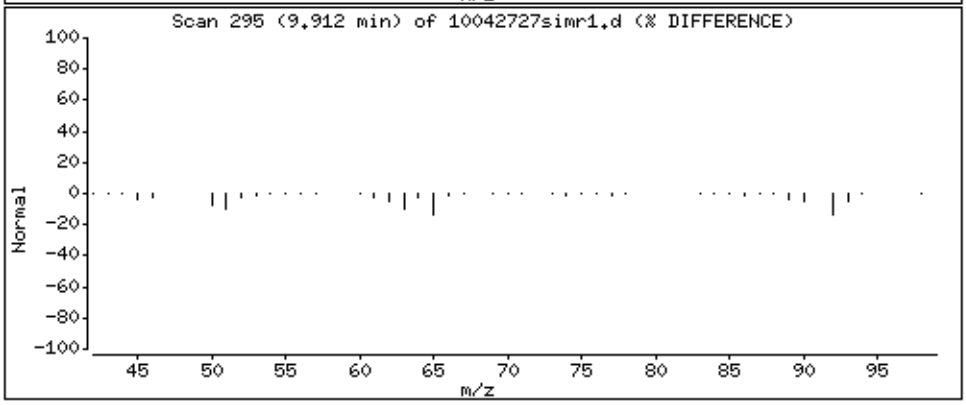












Data File: /chem/msd10.i/27Apr2015.b/10042727simr1.d

Date : 27-APR-2015 18:12

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-02A;

Volume Injected (uL): 1.0

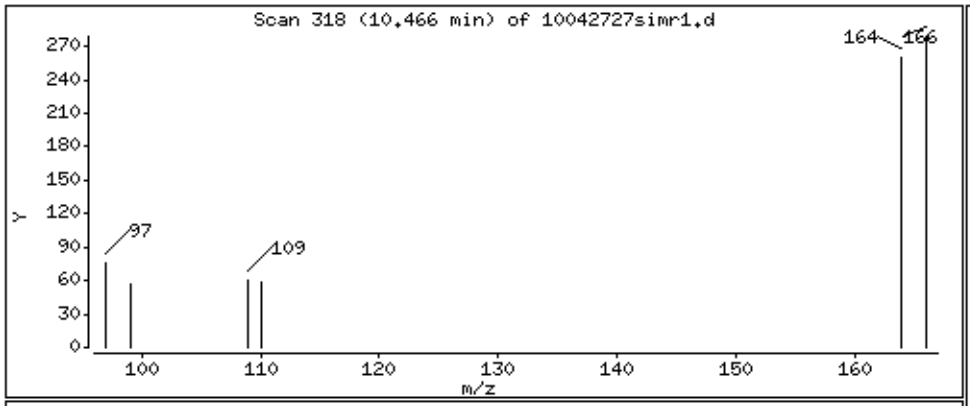
Operator: gm

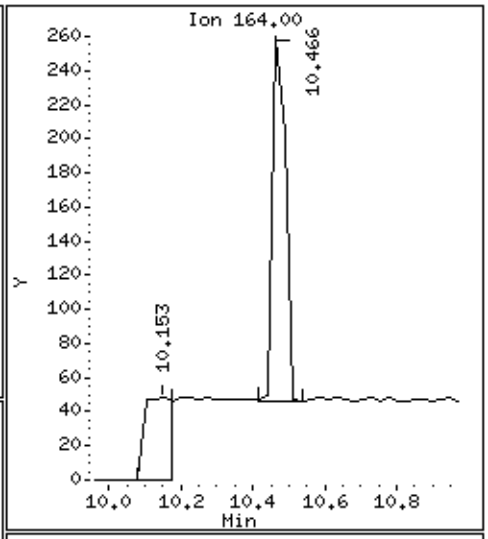
Column phase: DB-5.625

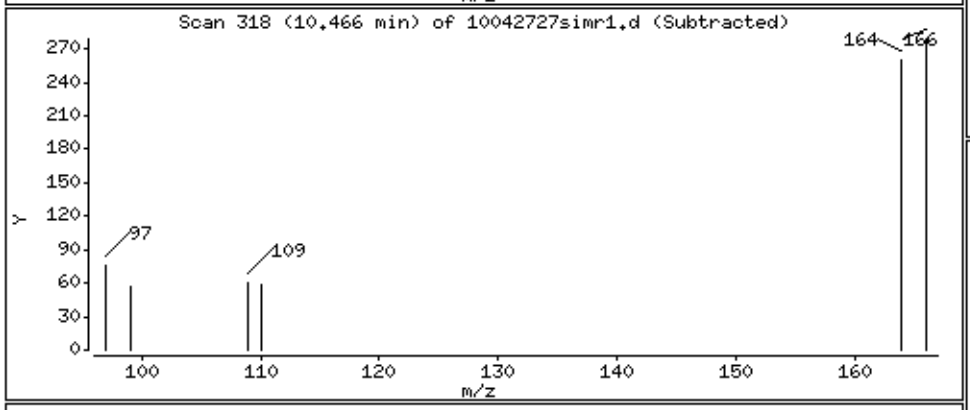
Column diameter: 0.25

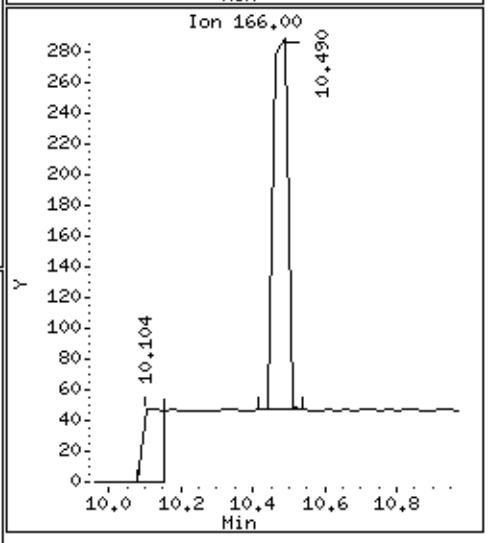
31 Tetrachloroethene

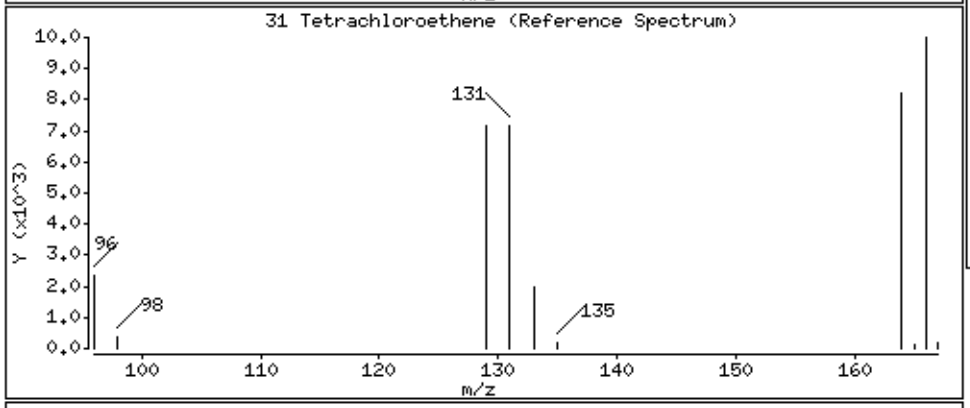
Concentration: 0.0813220 ug

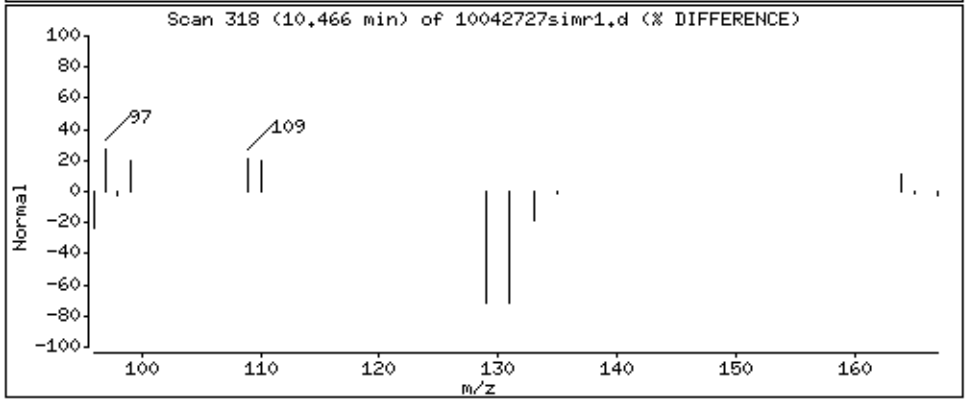












Data File: /chem/msd10.i/27Apr2015.b/10042727simr1.d

Date : 27-APR-2015 18:12

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-02A;

Volume Injected (uL): 1.0

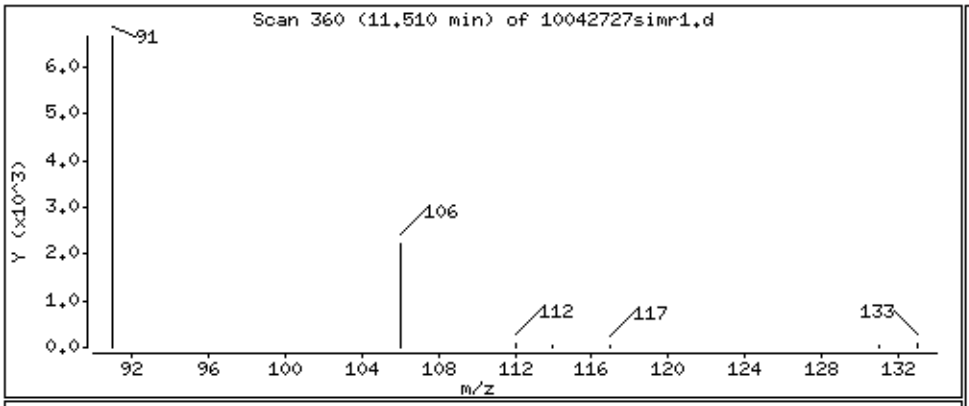
Operator: gm

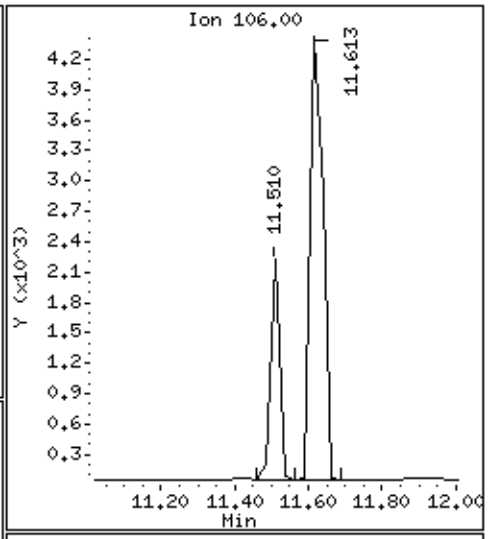
Column phase: DB-5.625

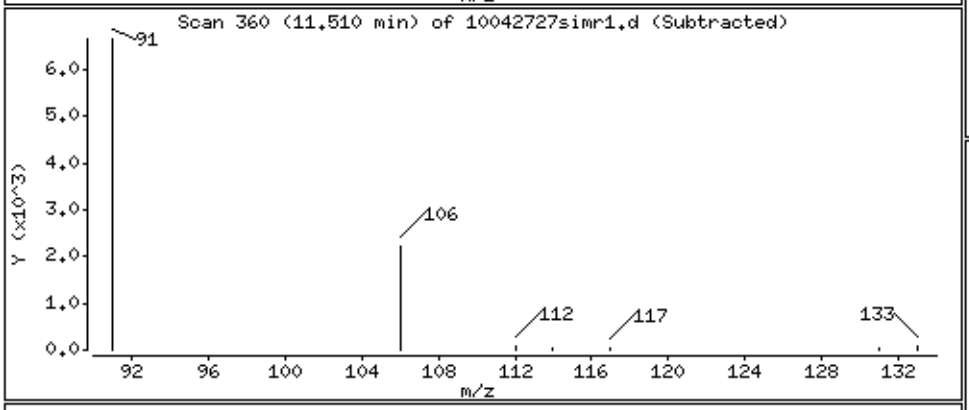
Column diameter: 0.25

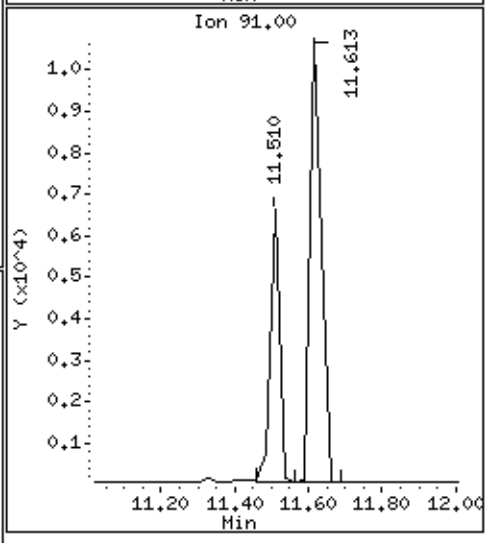
33 Ethylbenzene-CCC

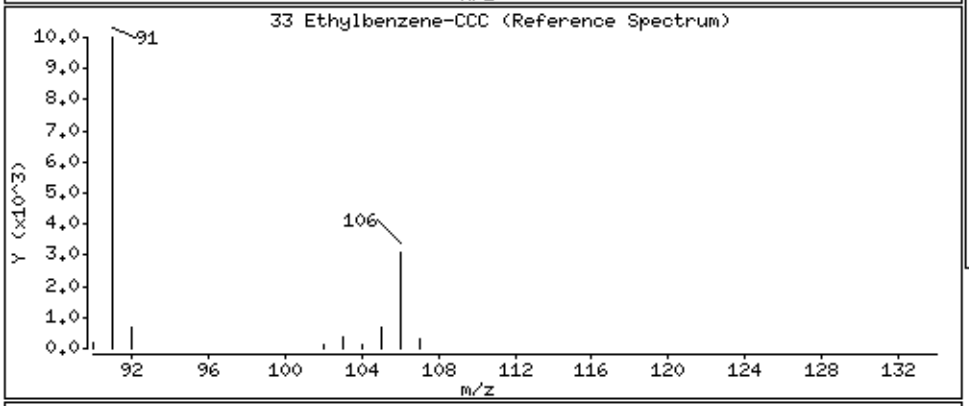
Concentration: 0.253456 ug

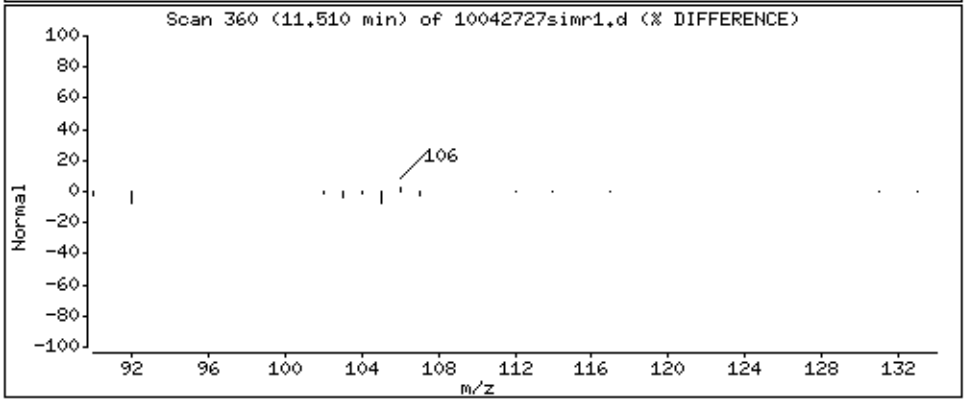












Data File: /chem/msd10.i/27Apr2015.b/10042727simr1.d

Date : 27-APR-2015 18:12

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-02A;

Volume Injected (uL): 1.0

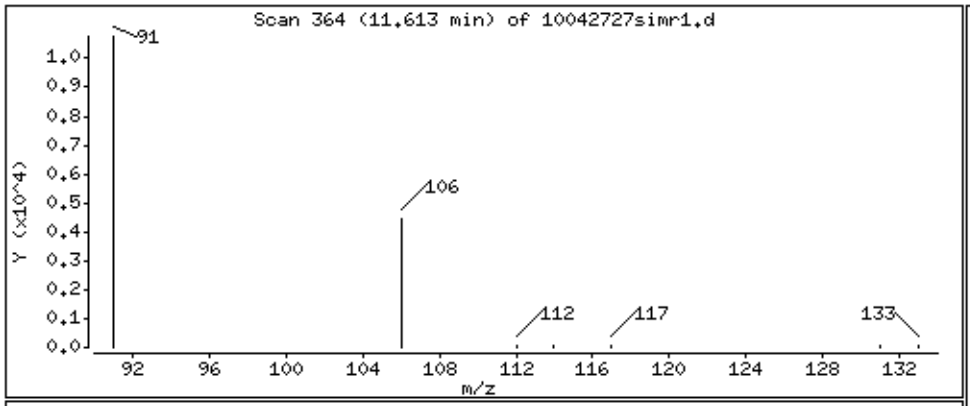
Operator: gm

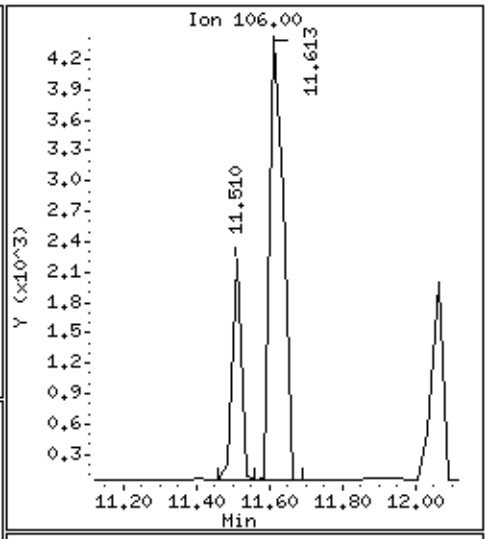
Column phase: DB-5.625

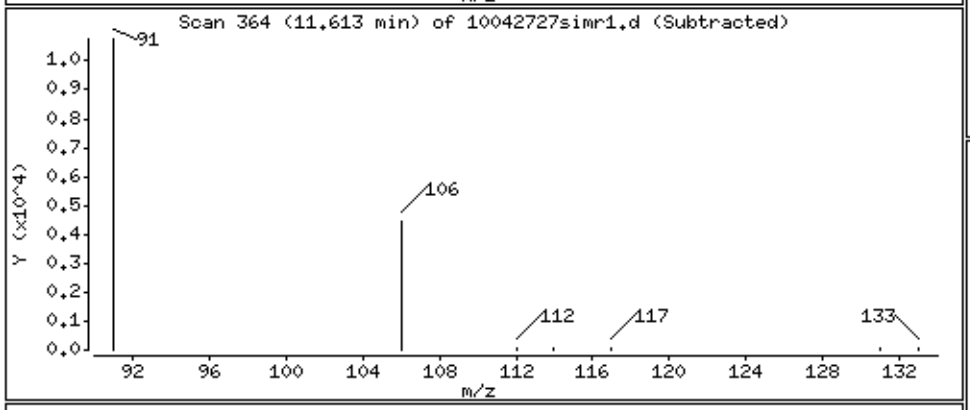
Column diameter: 0.25

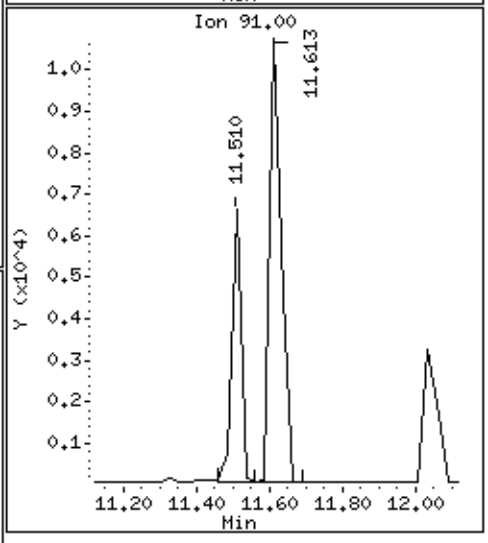
34 m,p-Xylene

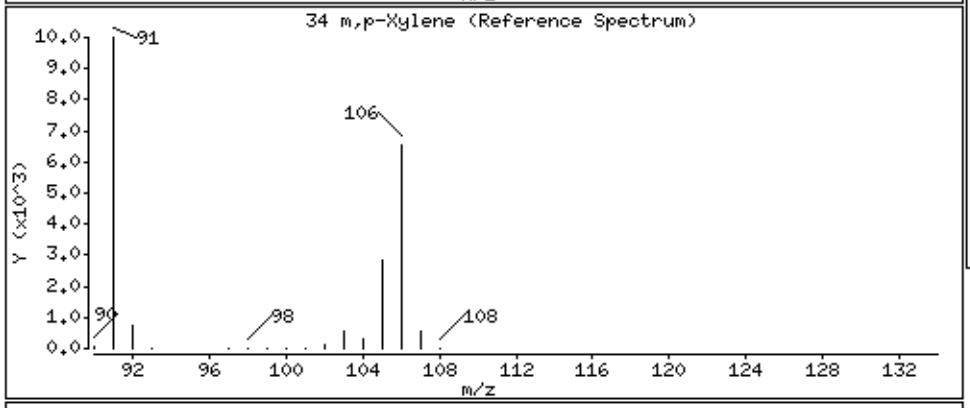
Concentration: 0.737504 ug

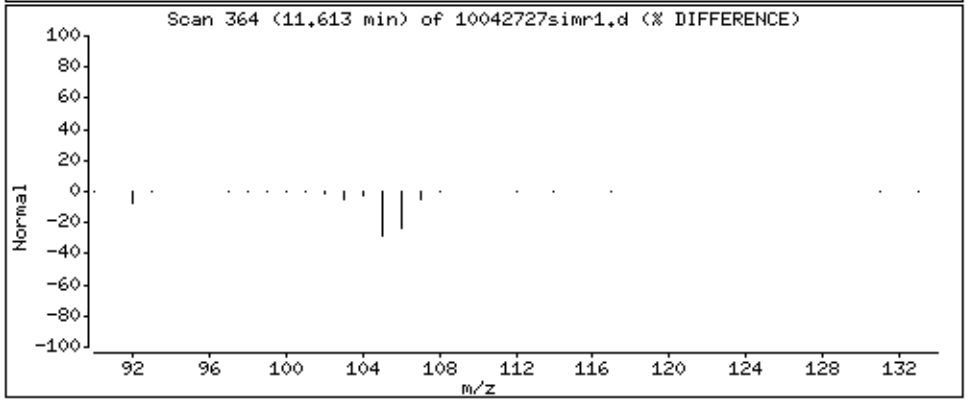












Data File: /chem/msd10.i/27Apr2015.b/10042727simr1.d

Date : 27-APR-2015 18:12

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-02A;

Volume Injected (uL): 1.0

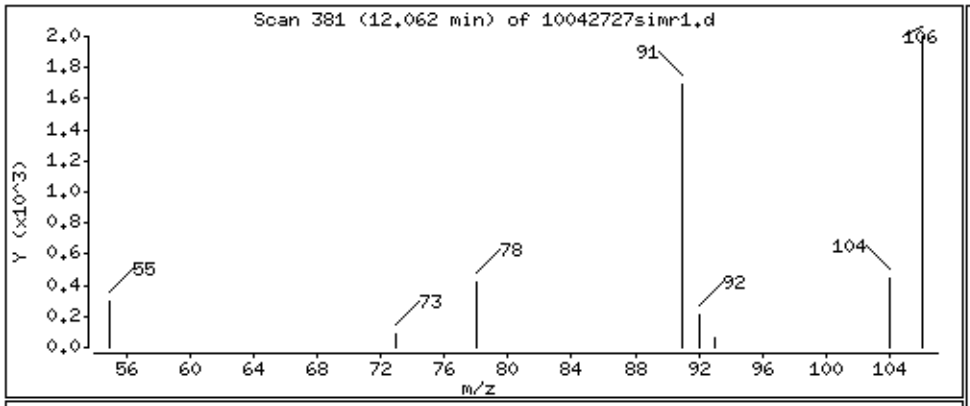
Operator: gm

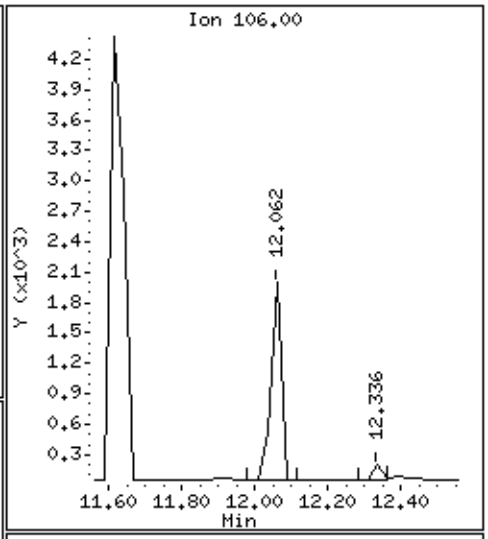
Column phase: DB-5.625

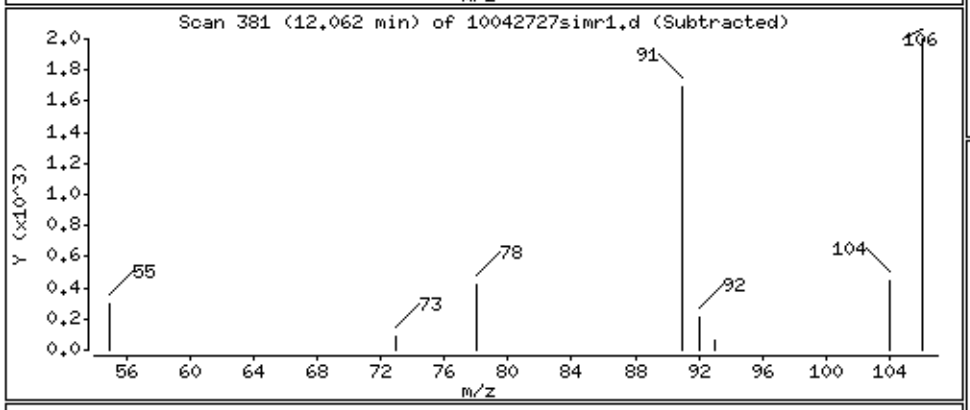
Column diameter: 0.25

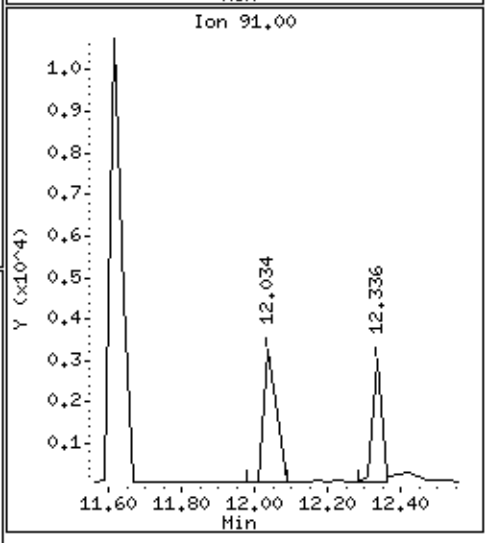
36 o-Xylene

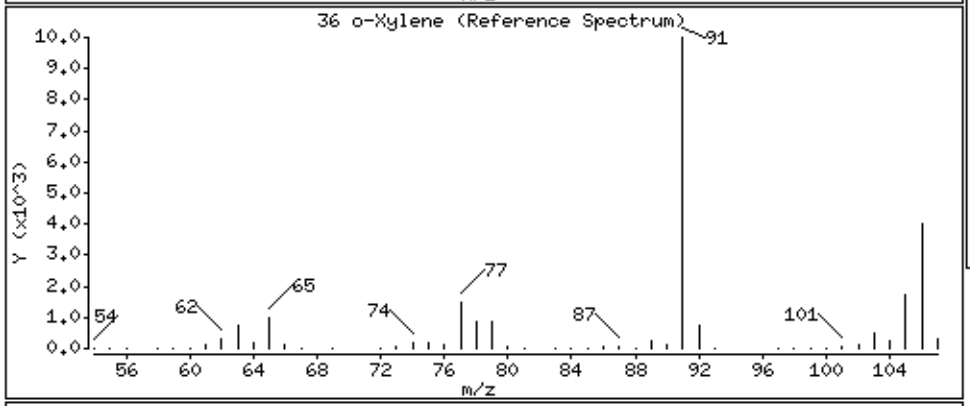
Concentration: 0.270056 ug

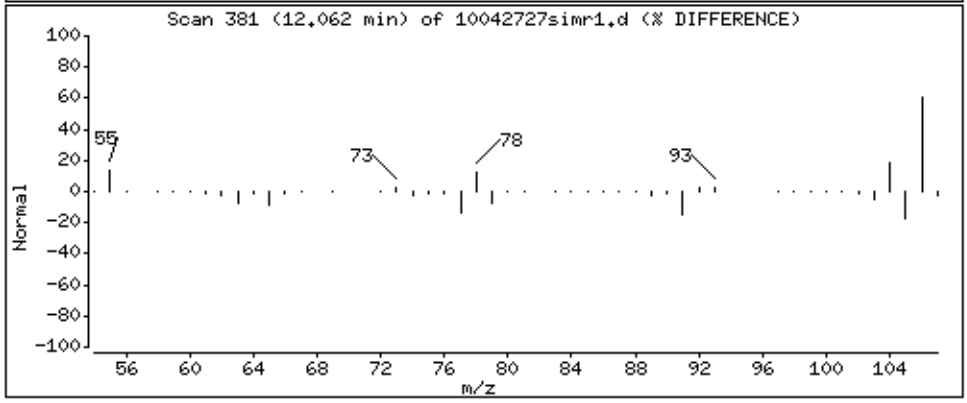












Data File: /chem/msd10.i/27Apr2015.b/10042727simr1.d

Date : 27-APR-2015 18:12

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-02A;

Volume Injected (uL): 1.0

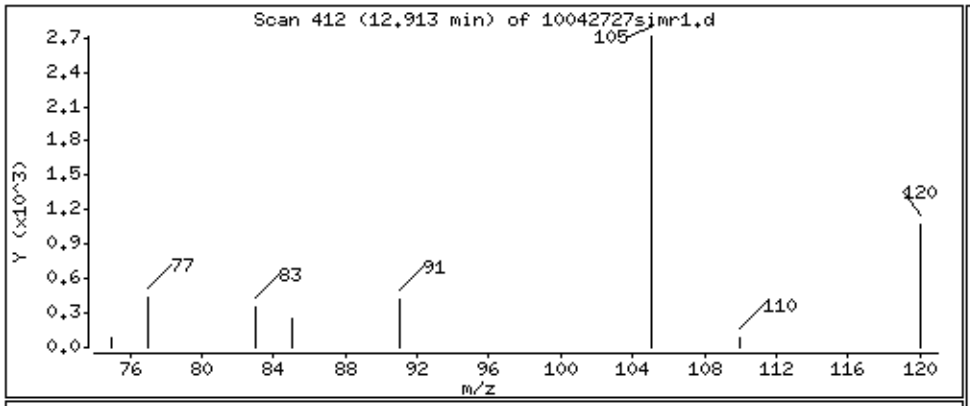
Operator: gm

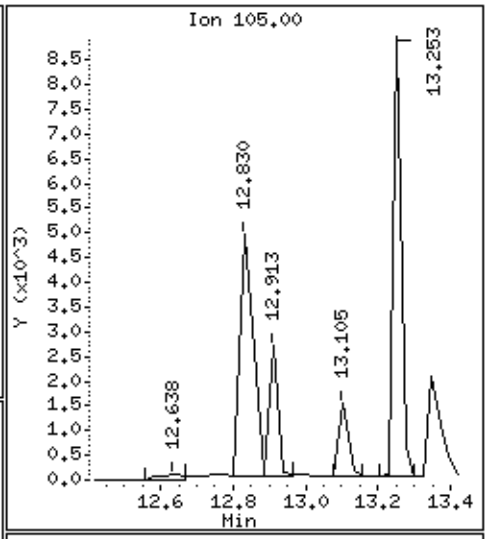
Column phase: DB-5.625

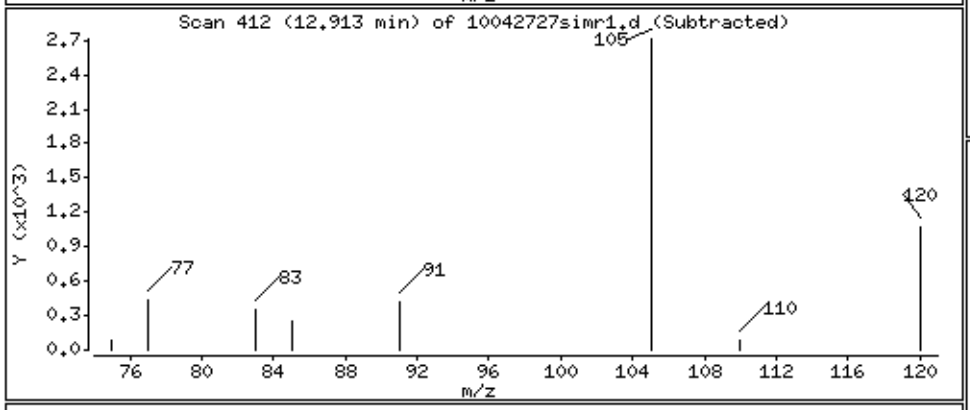
Column diameter: 0.25

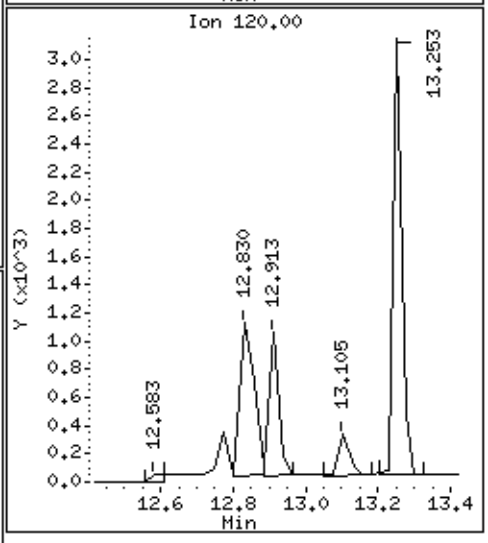
41 1,3,5-Trimethylbenzene

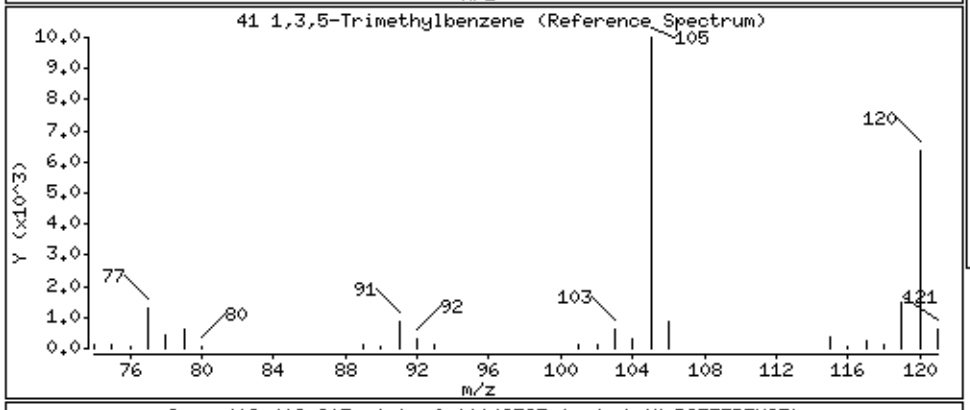
Concentration: 0.0968779 ug

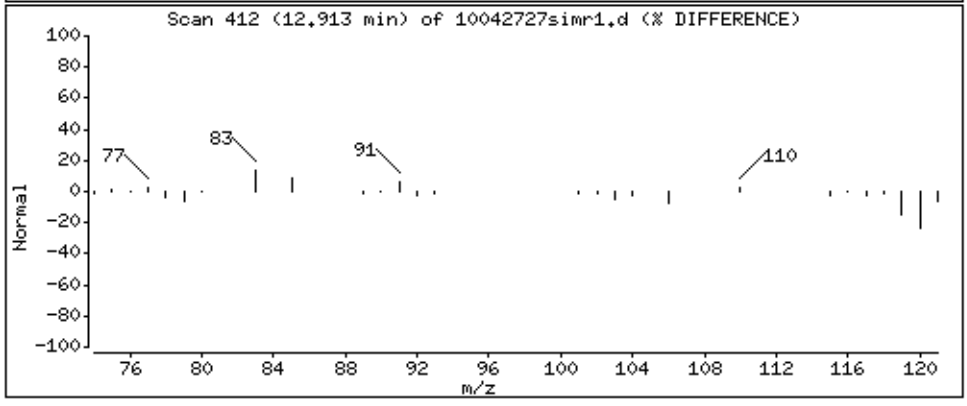












Data File: /chem/msd10.i/27Apr2015.b/10042727simr1.d

Date : 27-APR-2015 18:12

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-02A;

Volume Injected (uL): 1.0

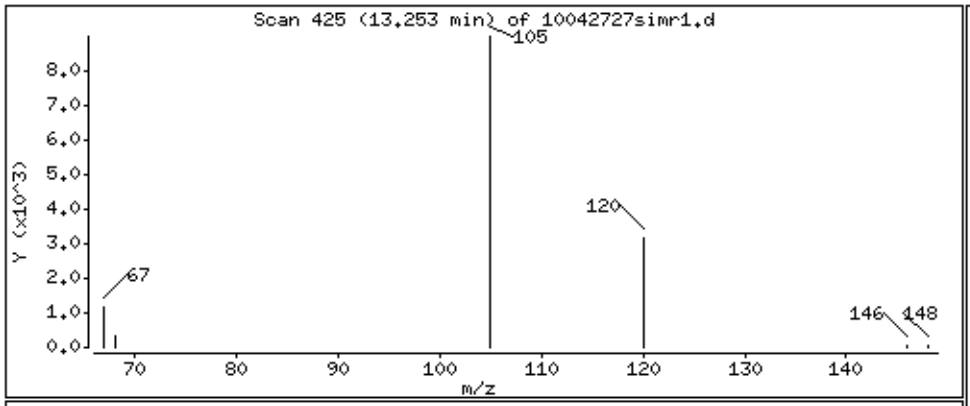
Operator: gm

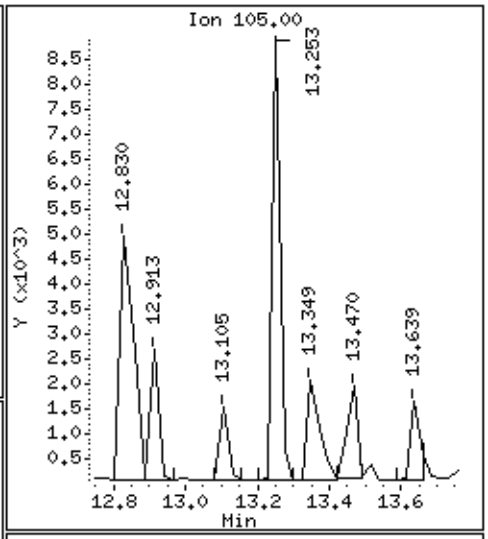
Column phase: DB-5.625

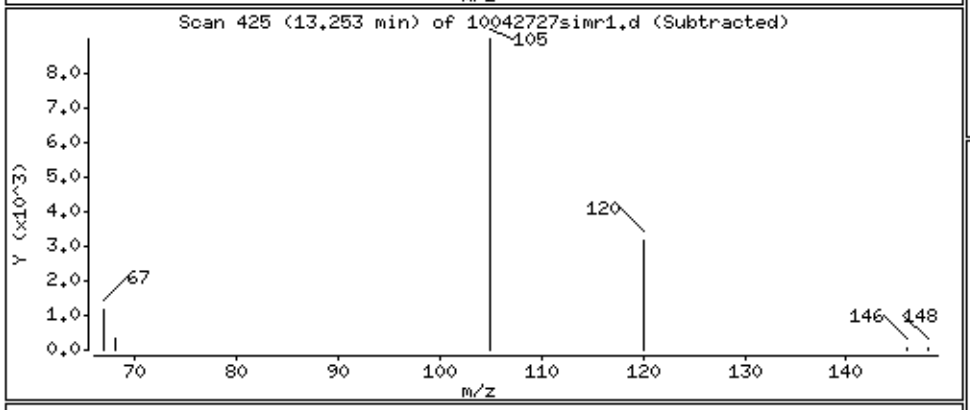
Column diameter: 0.25

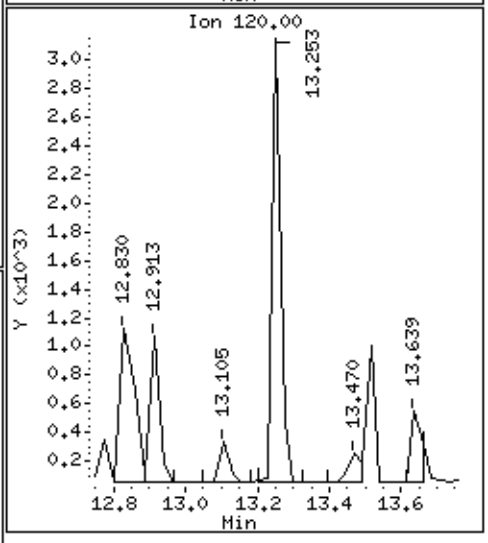
42 1,2,4-Trimethylbenzene

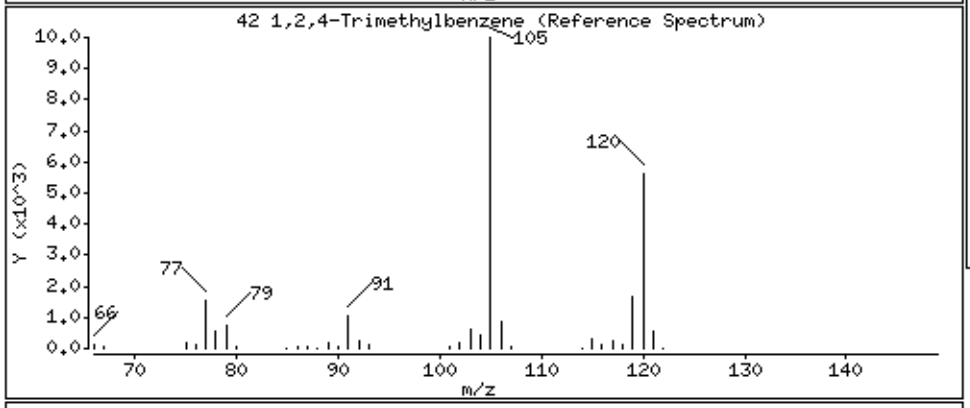
Concentration: 0.345771 ug

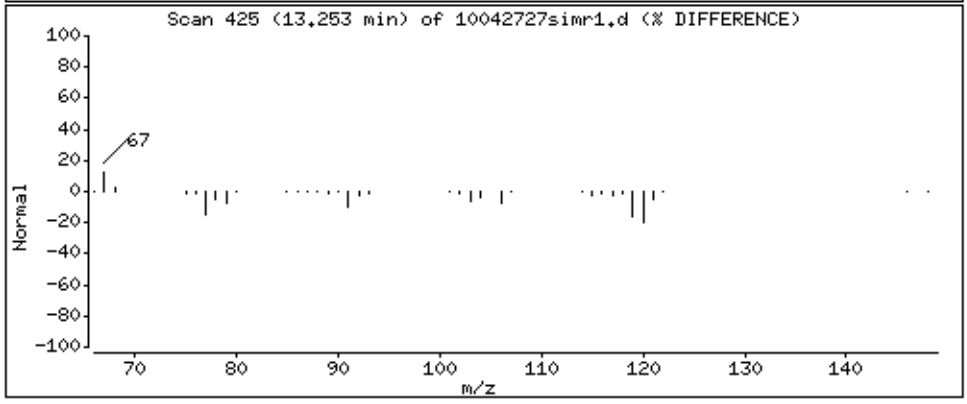












Data File: /chem/msd10.i/27Apr2015.b/10042727simr1.d

Date : 27-APR-2015 18:12

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-02A;

Volume Injected (uL): 1.0

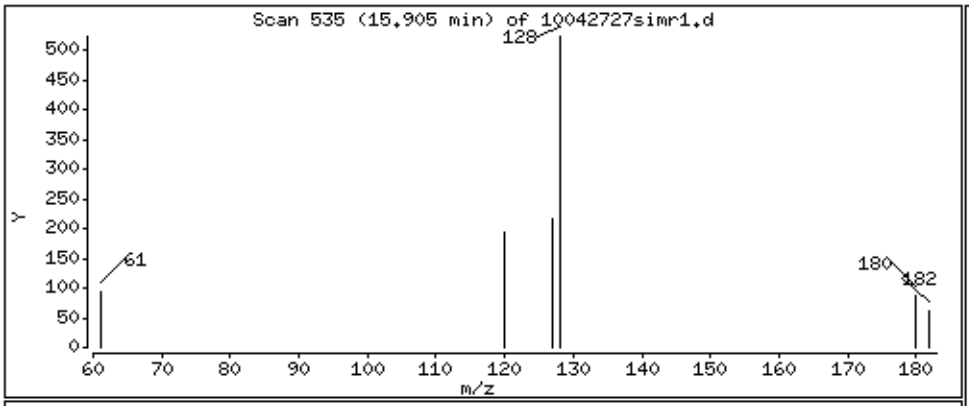
Operator: gm

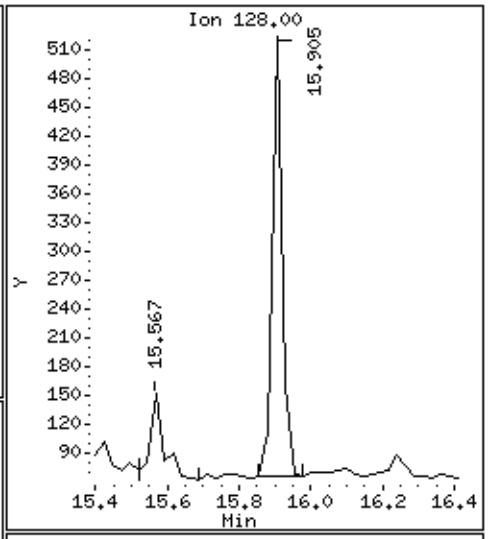
Column phase: DB-5.625

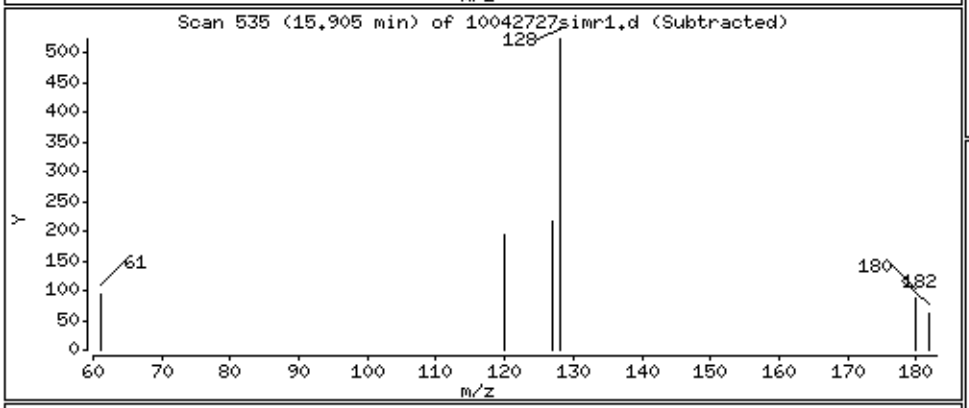
Column diameter: 0.25

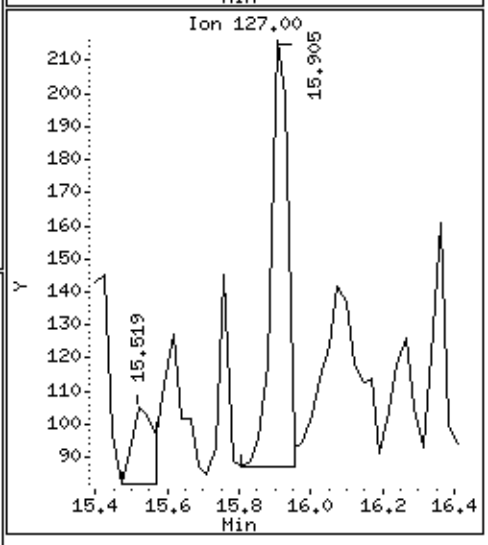
49 Naphthalene

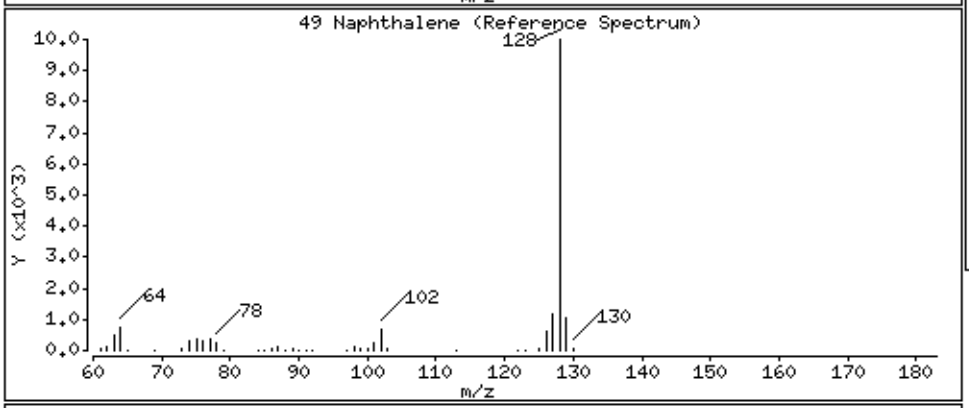
Concentration: 0.0138659 ug

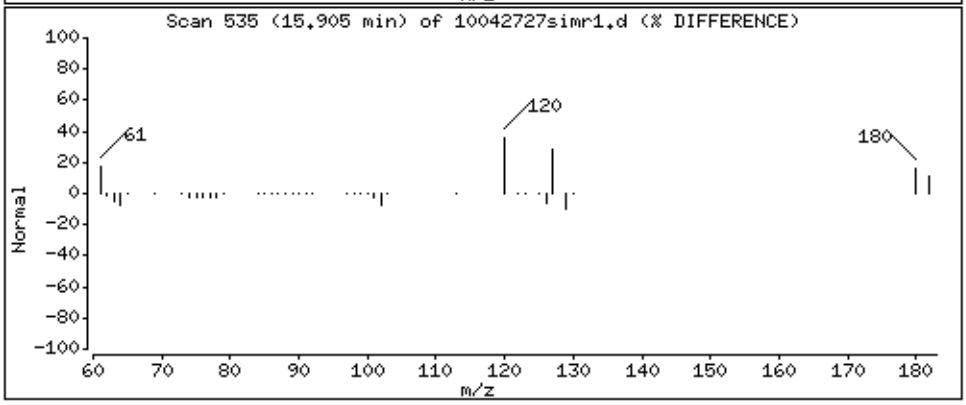












eurofins | Air Toxics

Client Sample ID: 915NP

Lab ID#: 1504459R1-03A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**10042728simr1**	**Date of Collection: 4/17/15 12:50:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/27/15 06:36 PM**
		Date of Extraction: 4/27/15

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Benzene	0.40	0.51	0.38 J	0.48 J
1,2-Dichloroethane	0.10	0.13	Not Detected	Not Detected
Trichloroethene	0.10	0.15	Not Detected	Not Detected
Toluene	0.10	0.14	0.93	1.3
Tetrachloroethene	0.10	0.17	0.046 J	0.080 J
Ethyl Benzene	0.10	0.15	0.14	0.22
m,p-Xylene	0.10	0.14	0.47	0.68
o-Xylene	0.10	0.16	0.16	0.25
Naphthalene	0.10	0.41	0.0076 J	0.031 J
1,1-Dichloroethane	0.10	0.16	Not Detected C	Not Detected C
1,1-Dichloroethene	0.40	0.54	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.16	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.34	Not Detected C	Not Detected C
1,1,2-Trichloroethane	0.10	0.15	Not Detected C	Not Detected C
1,2,4-Trimethylbenzene	0.10	0.20	0.16	0.32
1,3,5-Trimethylbenzene	0.10	0.19	0.049 CJ	0.094 CJ
Vinyl Chloride	0.40	0.45	Not Detected C	Not Detected C

J = Estimated value.
C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F , duration time = 9792 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130

Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msd10.i/27Apr2015.b/10042728simr1.d
Lab Smp Id: 1504459R1-03A
Inj Date : 27-APR-2015 18:36
Operator : gm Inst ID: msd10.i
Smp Info : ;1504459R1-03A;
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Meth Date : 08-May-2015 15:50 gmash Quant Type: ISTD
Cal Date : 27-APR-2015 11:01 Cal File: 10042709sim.d
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Gilbane.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
2	Vinyl Chloride	62	Compound Not Detected.					
4	1,1-Dichloroethene-CCC	96	Compound Not Detected.					
8	trans-1,2-Dichloroethene	96	Compound Not Detected.					
11	1,1-Dichloroethane-SPCC	63	Compound Not Detected.					
14	cis-1,2-Dichloroethene	96	Compound Not Detected.					
17	1,1,1-Trichloroethane	97	Compound Not Detected.					
19	Benzene	78	7.938	7.938	(0.782)	7762	0.18958	0.379163(a)
20	1,2-Dichloroethane	62	Compound Not Detected.					
22	Trichloroethene	130	Compound Not Detected.					
$ 26	Toluene-d8	98	9.839	9.839	(0.969)	232220	5.08120	10.1624
28	Toluene-CCC	92	9.912	9.912	(0.976)	18074	0.46667	0.933344
* 29	2-Fluorotoluene	109	10.153	10.153	(1.000)	252921	5.00000	
30	1,1,2-Trichloroethane	97	Compound Not Detected.					
31	Tetrachloroethene	164	10.466	10.466	(1.031)	285	0.02321	0.0464138(aM)
33	Ethylbenzene-CCC	106	11.510	11.510	(1.134)	1916	0.07210	0.144203
34	m,p-Xylene	106	11.613	11.613	(1.144)	6518	0.23447	0.468937

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
36 o-Xylene	106	12.062	12.062	(1.188)	2136	0.07849	0.156972
41 1,3,5-Trimethylbenzene	105	12.913	12.913	(1.272)	2143	0.02435	0.0487069(a)
42 1,2,4-Trimethylbenzene	105	13.253	13.253	(1.305)	5738	0.07815	0.156304
49 Naphthalene	128	15.905	15.905	(1.567)	442	0.00382	0.00763395(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd10.i
Lab File ID: 10042728simr1.d
Lab Smp Id: 1504459R1-03A
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

Calibration Date: 27-APR-2015
Calibration Time: 11:01
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	216118	108059	432236	252921	17.03

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 13-Jul-2015 12:28

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 27Apr2015
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 1504459R1-03A
Level: MED Operator: gm
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS-CM.spk Quant Type: ISTD
Sublist File: Gilbane.sub
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 26 Toluene-d8	10.0000	10.1624	101.62	70-130

Data File: /chem/msd10.i/27Apr2015.b/10042728simr1.d

Date : 27-APR-2015 18:36

Client ID:

Instrument: msd10.i

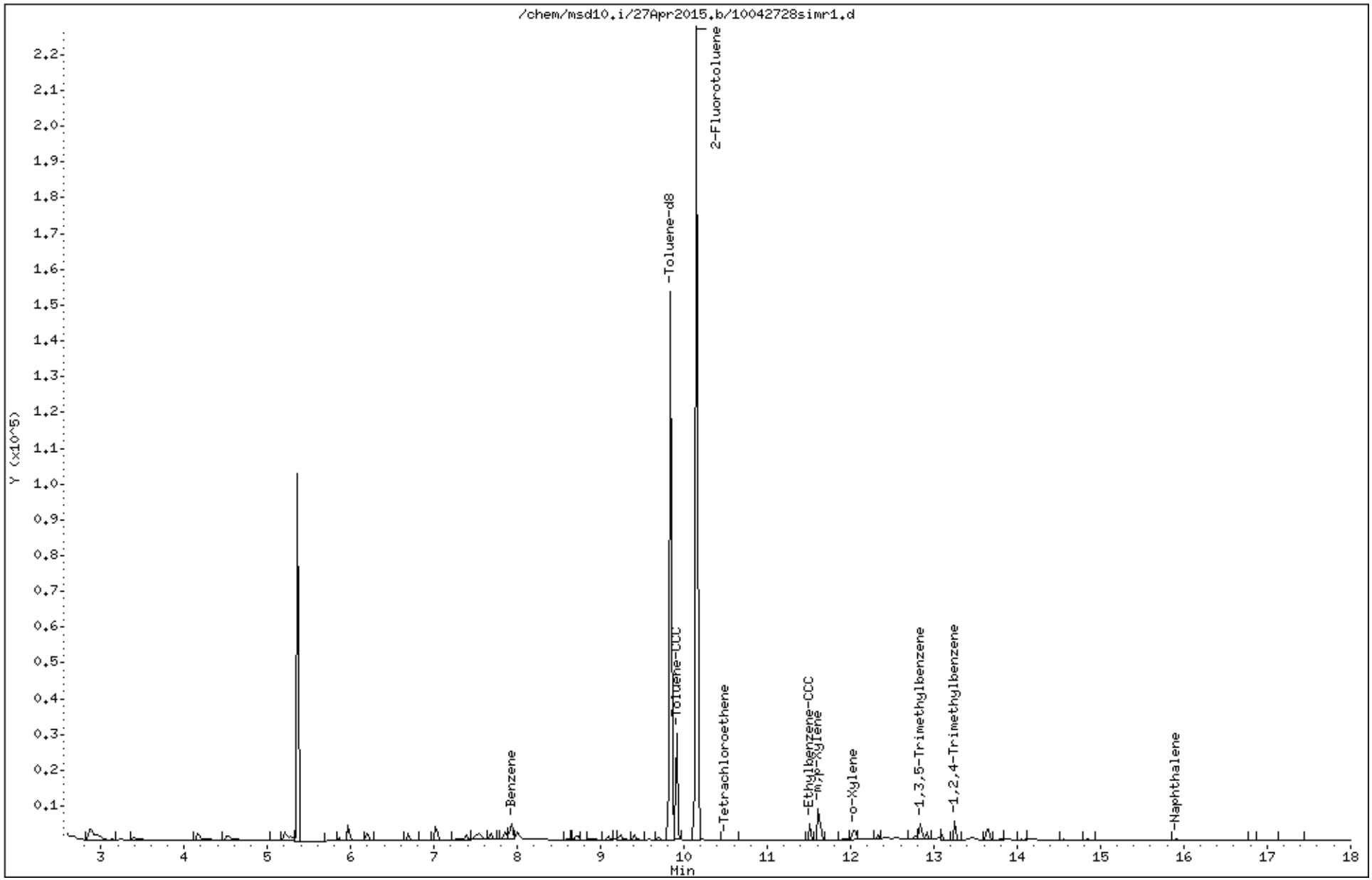
Sample Info: ;1504459R1-03A;

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msd10.i/27Apr2015.b/10042728simr1.d

Date : 27-APR-2015 18:36

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-03A;

Volume Injected (uL): 1.0

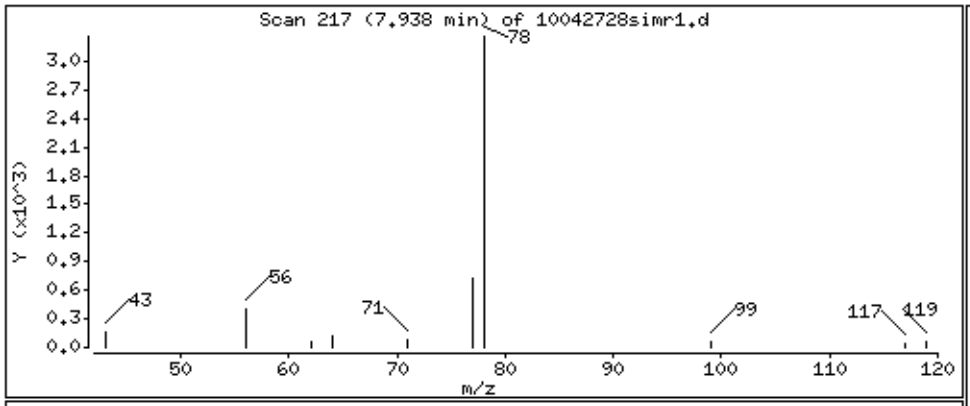
Operator: gm

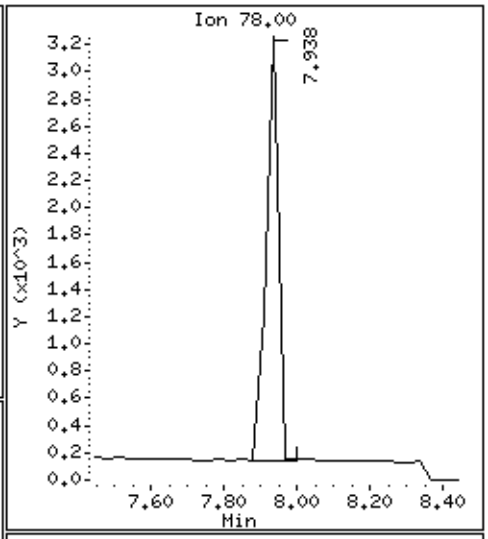
Column phase: DB-5.625

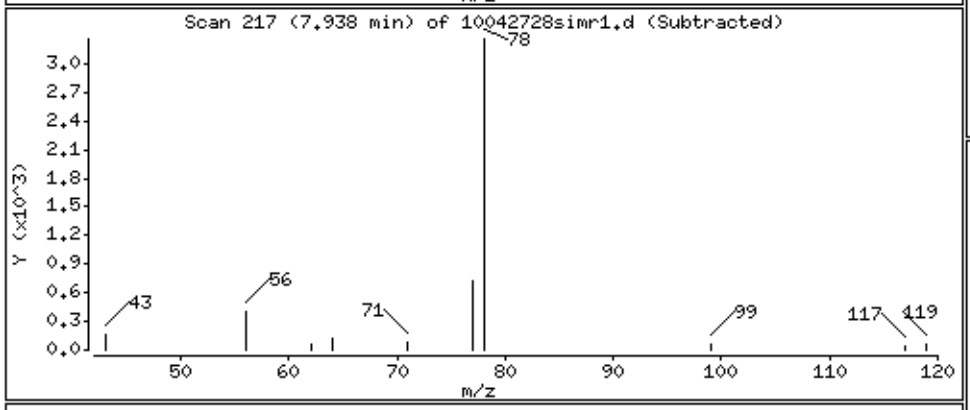
Column diameter: 0.25

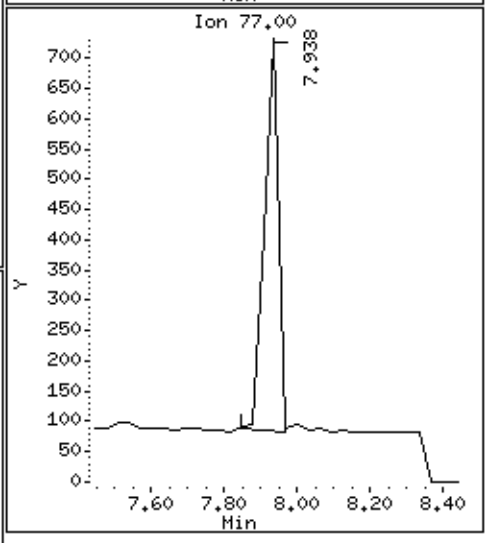
19 Benzene

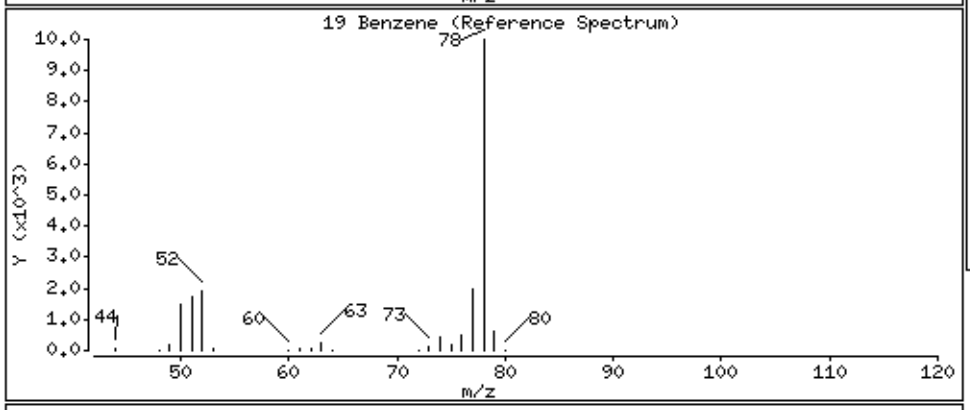
Concentration: 0.379163 ug

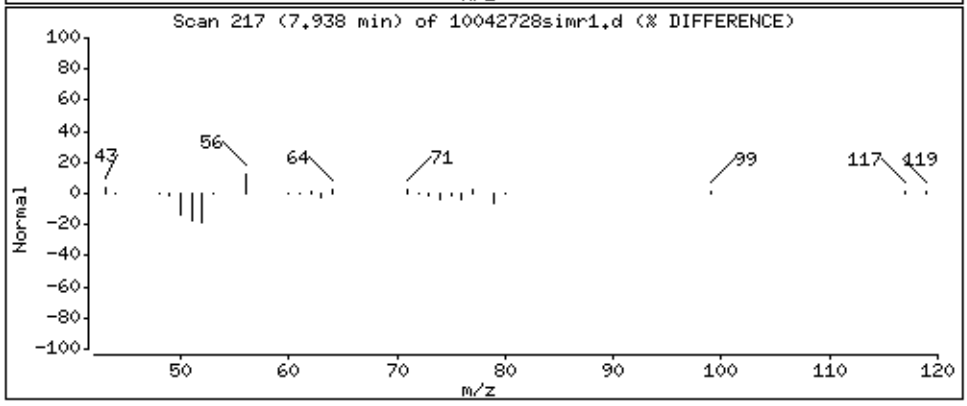












Data File: /chem/msd10.i/27Apr2015.b/10042728simr1.d

Date : 27-APR-2015 18:36

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-03A;

Volume Injected (uL): 1.0

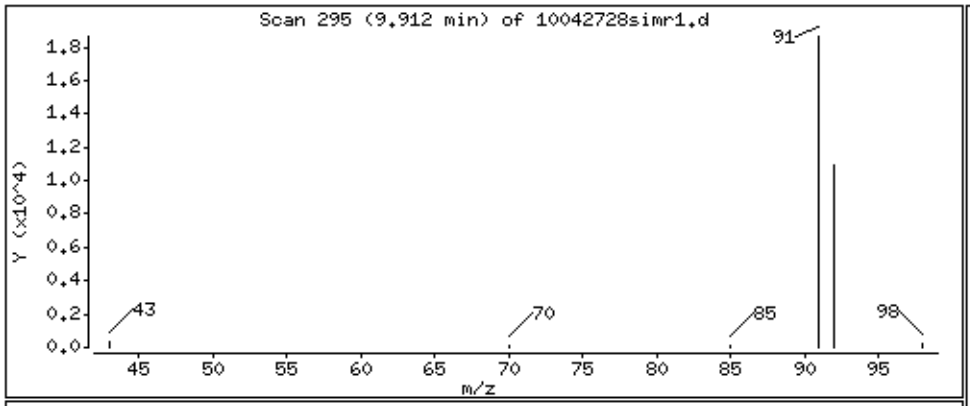
Operator: gm

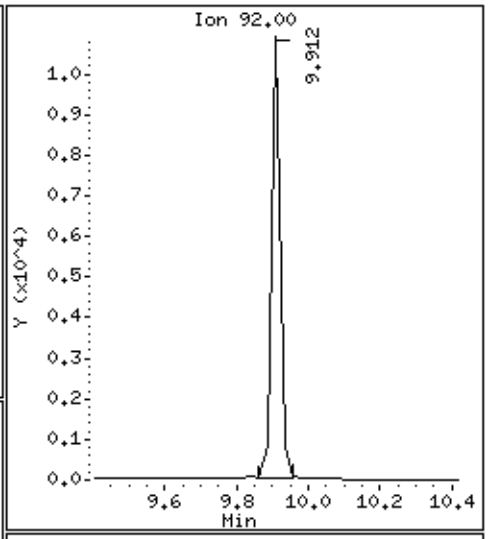
Column phase: DB-5.625

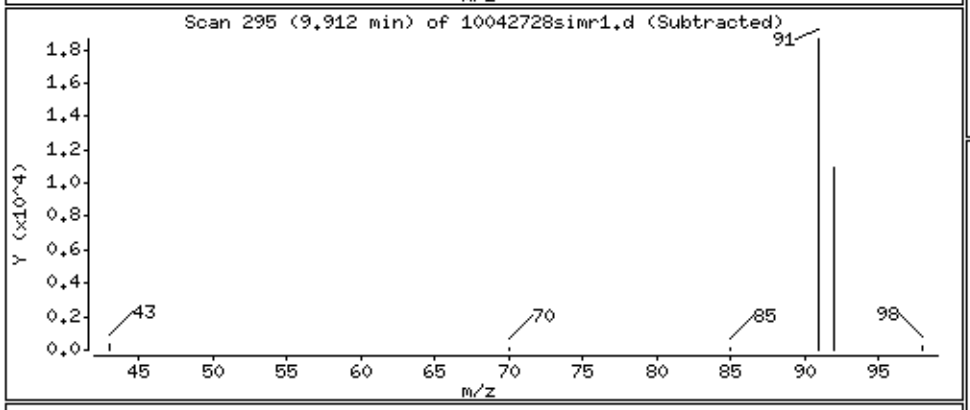
Column diameter: 0.25

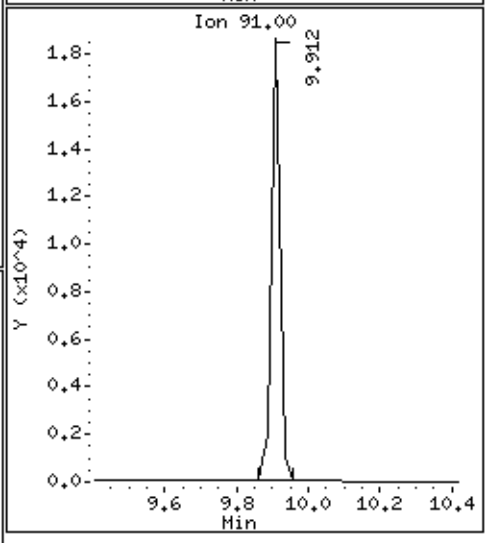
28 Toluene-CCC

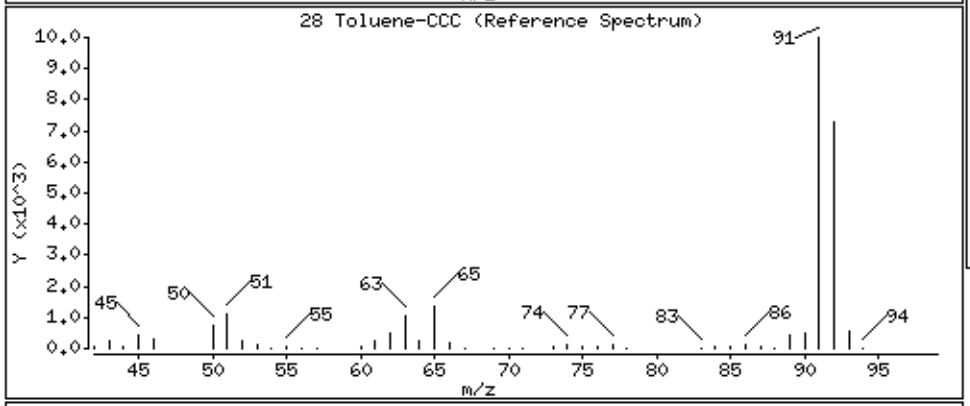
Concentration: 0.933344 ug

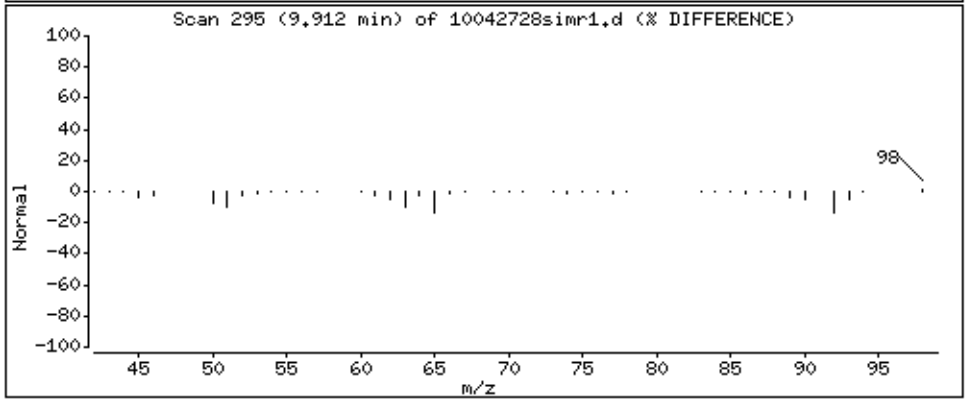












Data File: /chem/msd10.i/27Apr2015.b/10042728simr1.d

Date : 27-APR-2015 18:36

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-03A;

Volume Injected (uL): 1.0

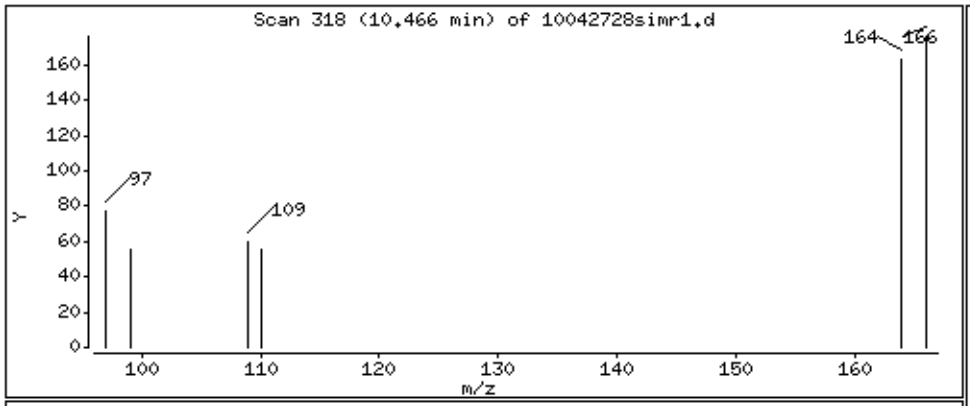
Operator: gm

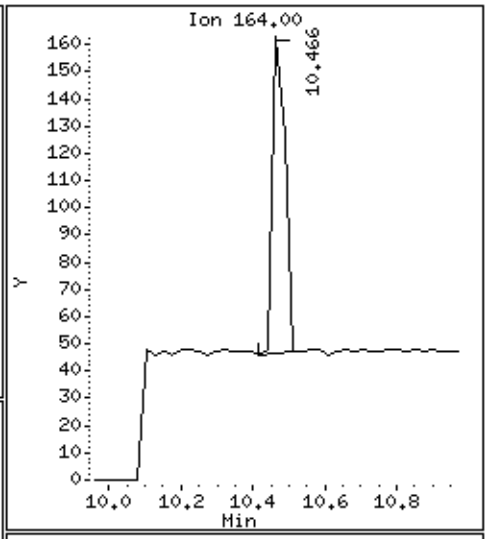
Column phase: DB-5.625

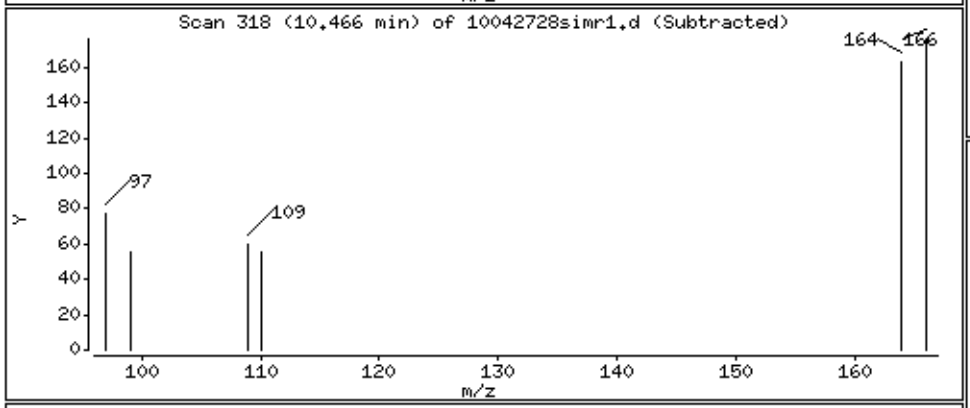
Column diameter: 0.25

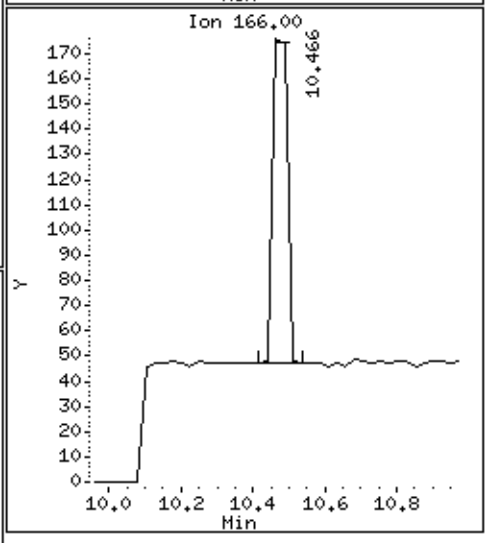
31 Tetrachloroethene

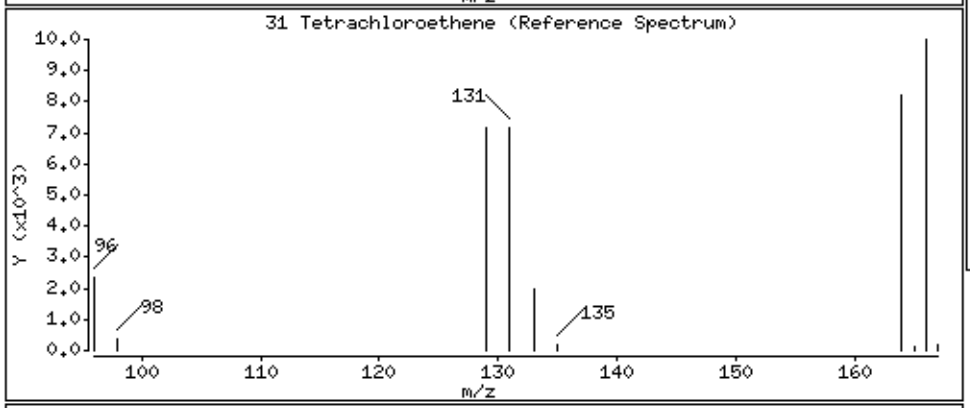
Concentration: 0.0464138 ug

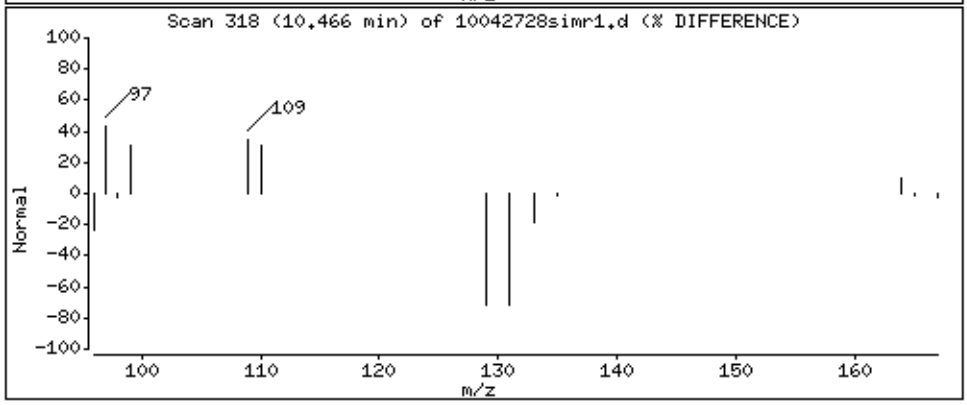












Data File: /chem/msd10.i/27Apr2015.b/10042728simr1.d

Date : 27-APR-2015 18:36

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-03A;

Volume Injected (uL): 1.0

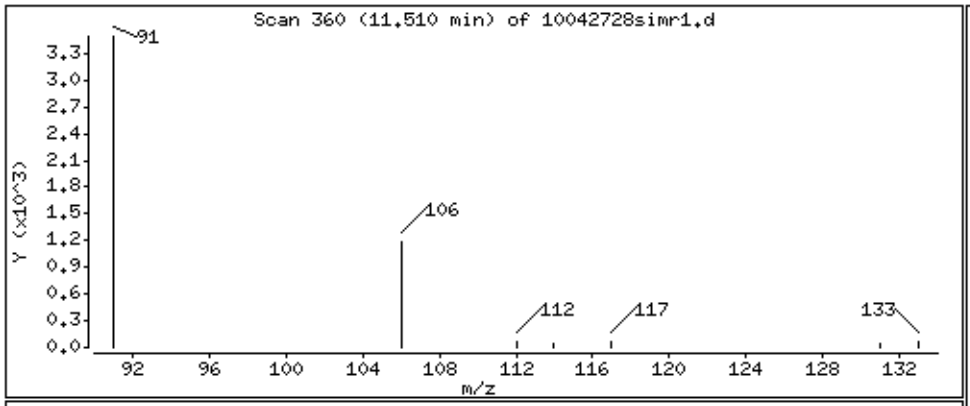
Operator: gm

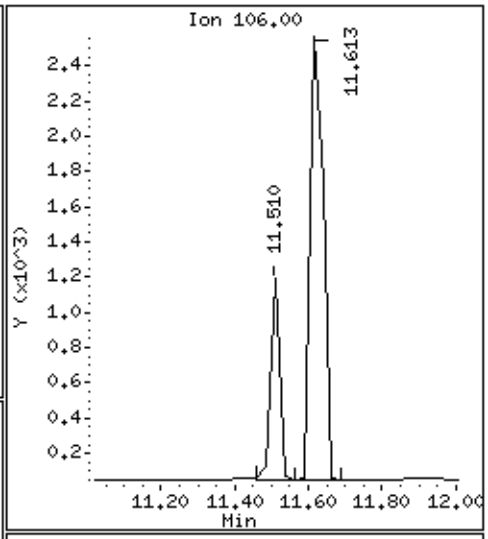
Column phase: DB-5.625

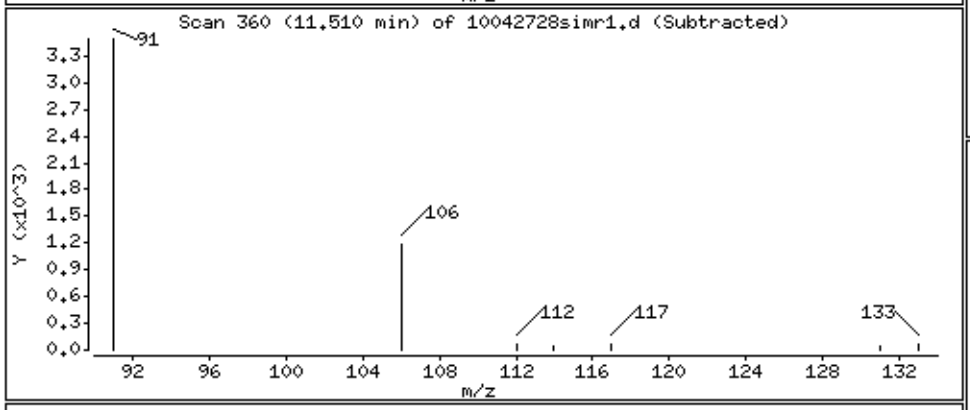
Column diameter: 0.25

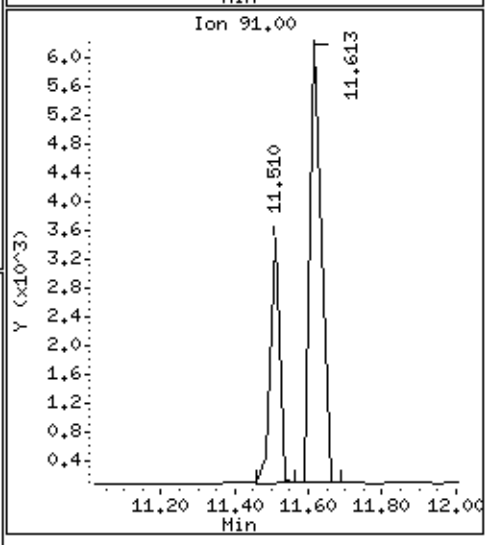
33 Ethylbenzene-CCC

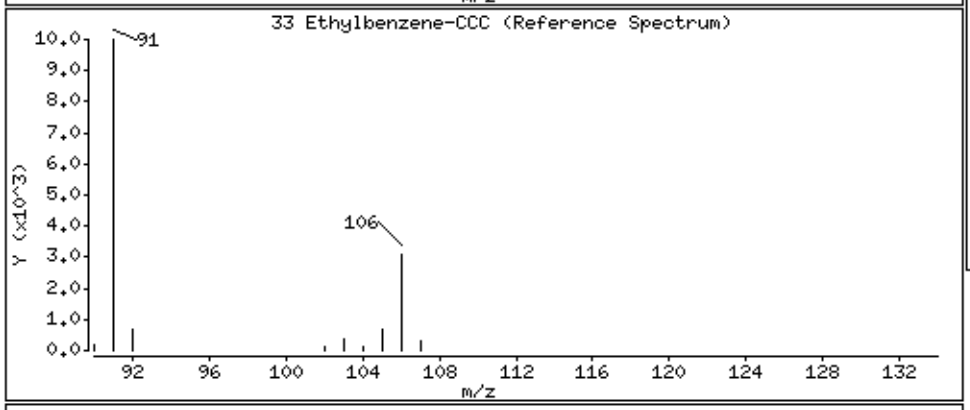
Concentration: 0.144203 ug

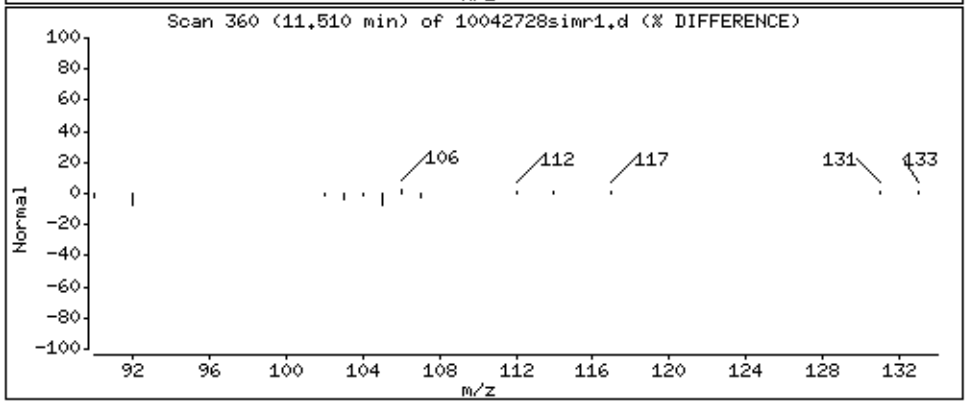












Data File: /chem/msd10.i/27Apr2015.b/10042728simr1.d

Date : 27-APR-2015 18:36

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-03A;

Volume Injected (uL): 1.0

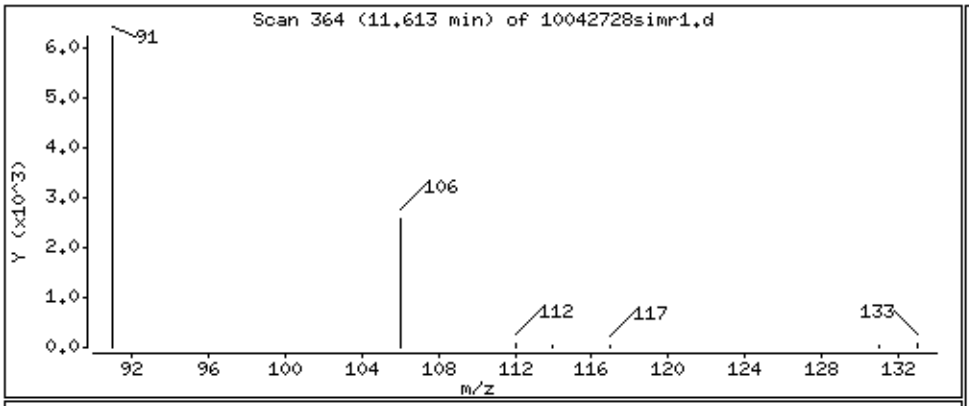
Operator: gm

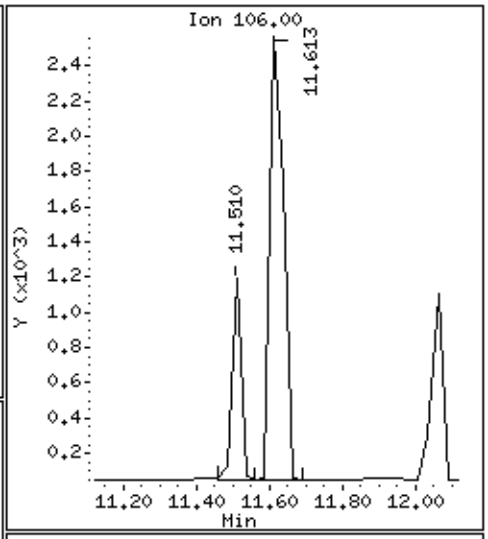
Column phase: DB-5.625

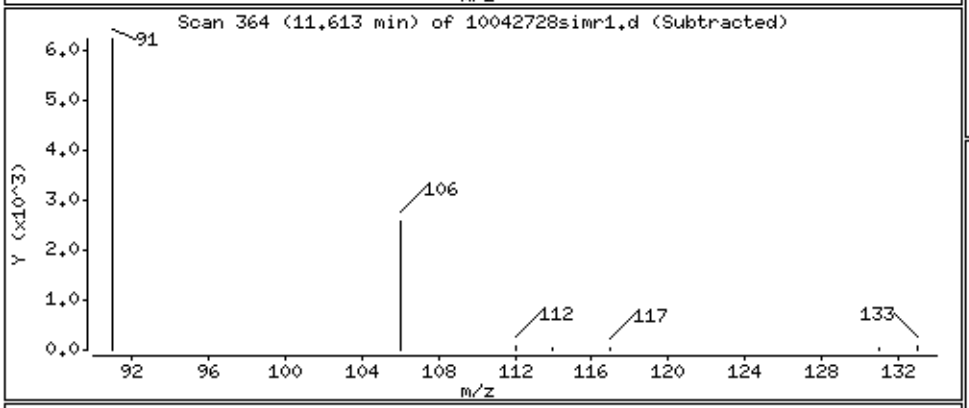
Column diameter: 0.25

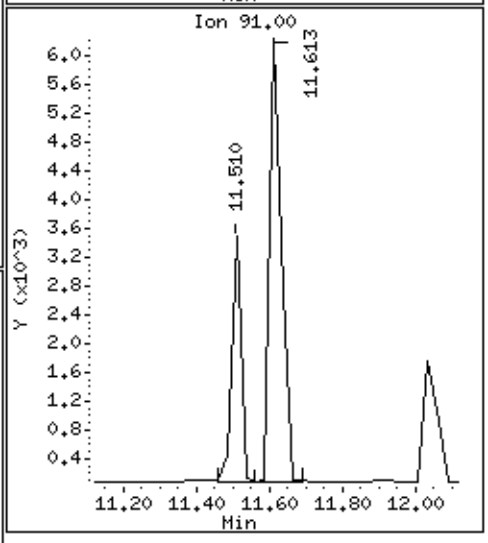
34 m,p-Xylene

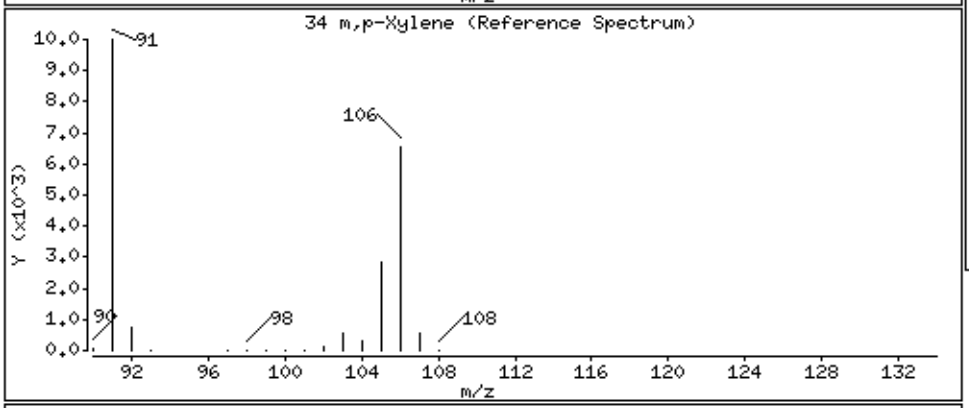
Concentration: 0.468937 ug

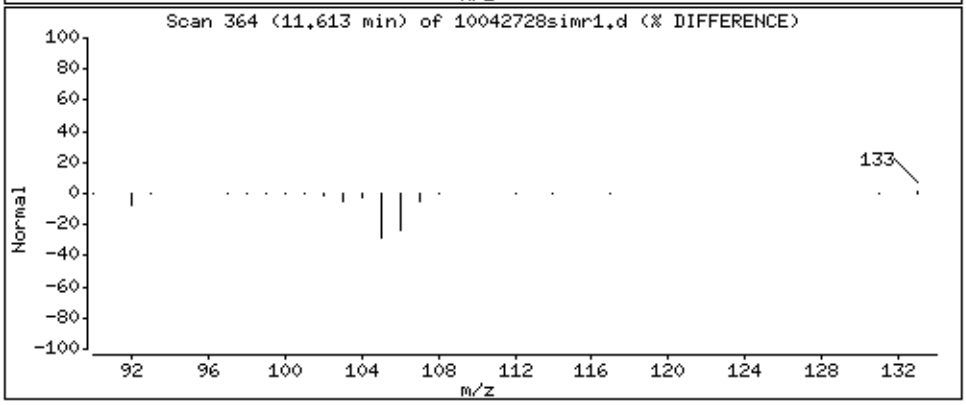












Data File: /chem/msd10.i/27Apr2015.b/10042728simr1.d

Date : 27-APR-2015 18:36

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-03A;

Volume Injected (uL): 1.0

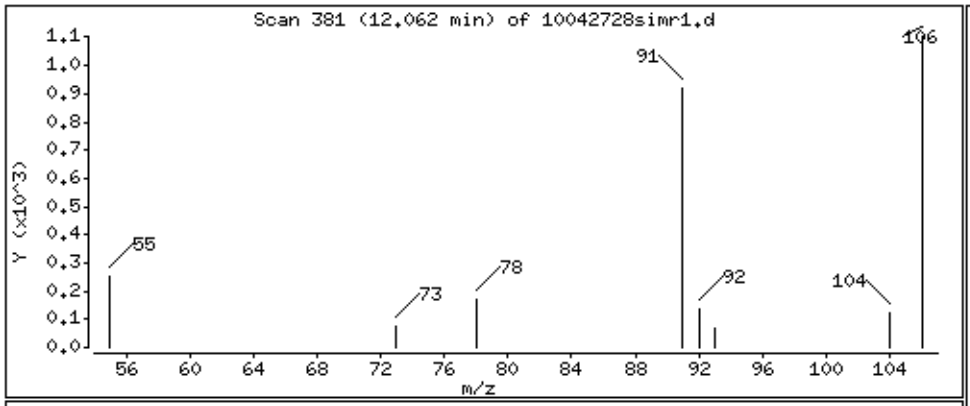
Operator: gm

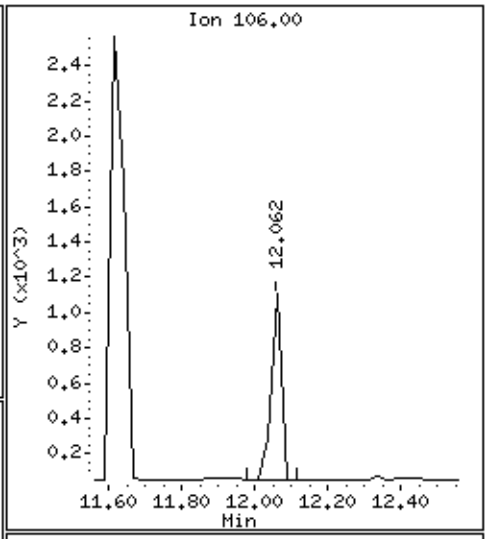
Column phase: DB-5.625

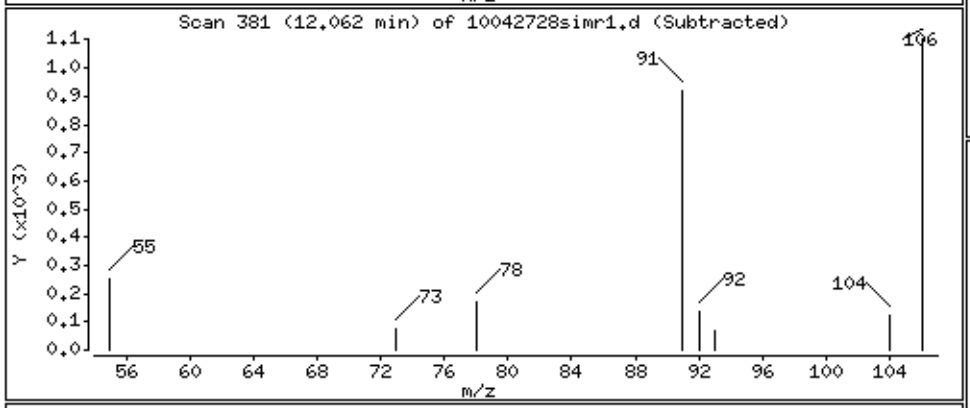
Column diameter: 0.25

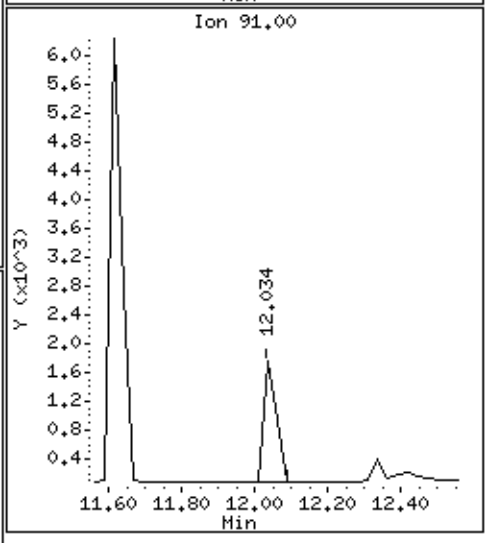
36 o-Xylene

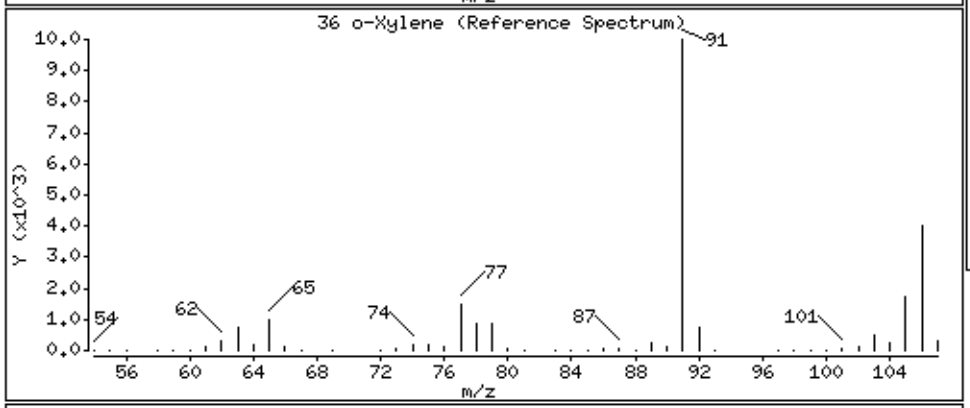
Concentration: 0.156972 ug

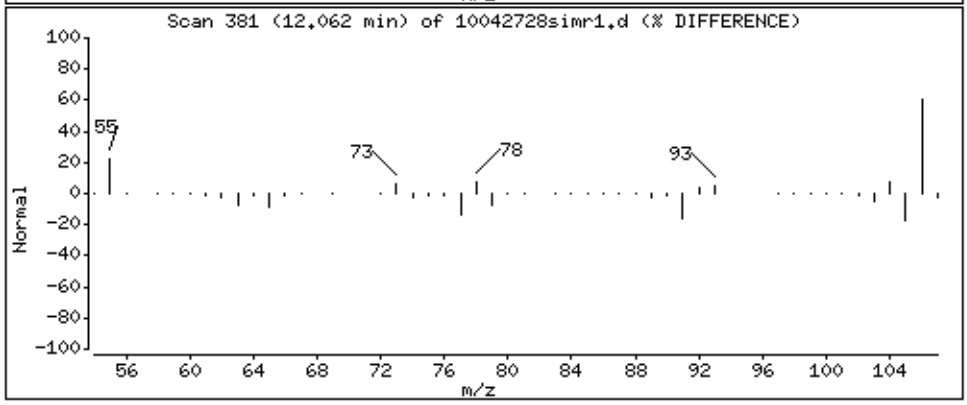












Data File: /chem/msd10.i/27Apr2015.b/10042728simr1.d

Date : 27-APR-2015 18:36

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-03A;

Volume Injected (uL): 1.0

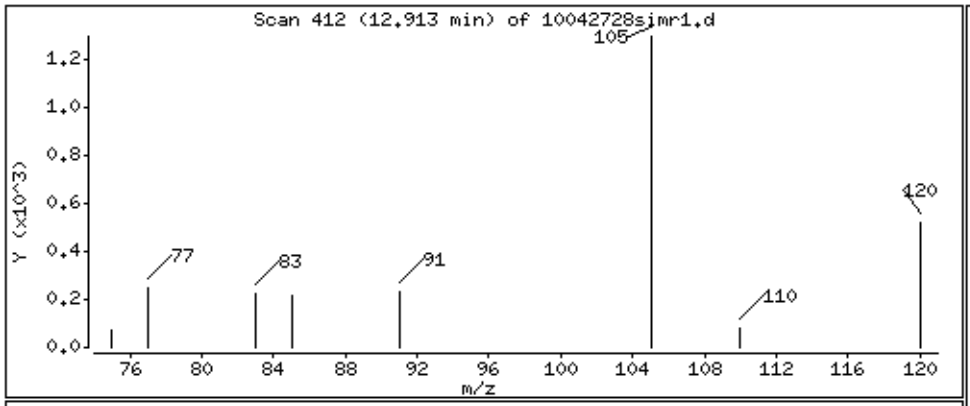
Operator: gm

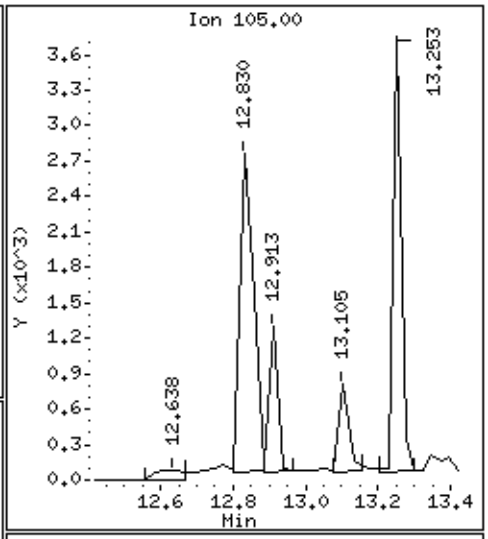
Column phase: DB-5.625

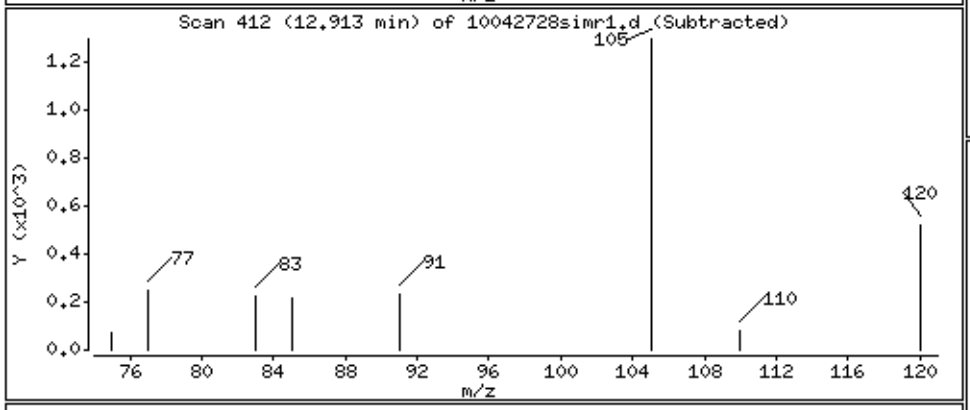
Column diameter: 0.25

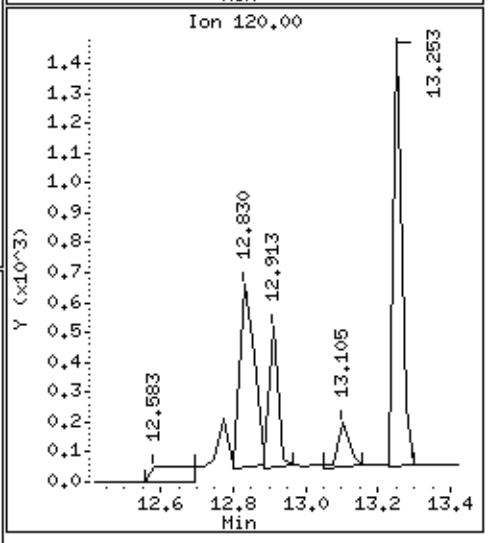
41 1,3,5-Trimethylbenzene

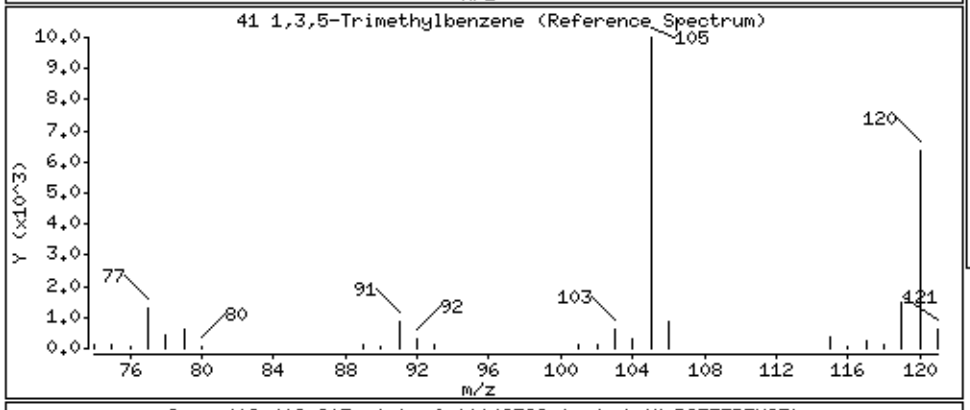
Concentration: 0.0487069 ug

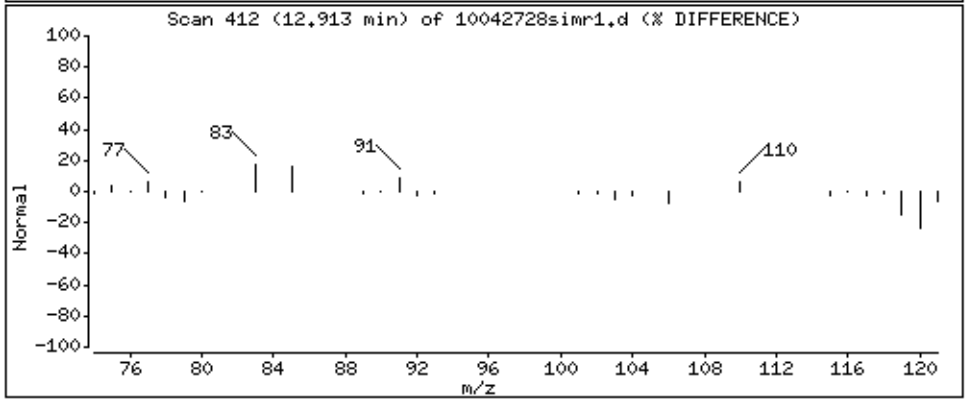












Data File: /chem/msd10.i/27Apr2015.b/10042728simr1.d

Date : 27-APR-2015 18:36

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-03A;

Volume Injected (uL): 1.0

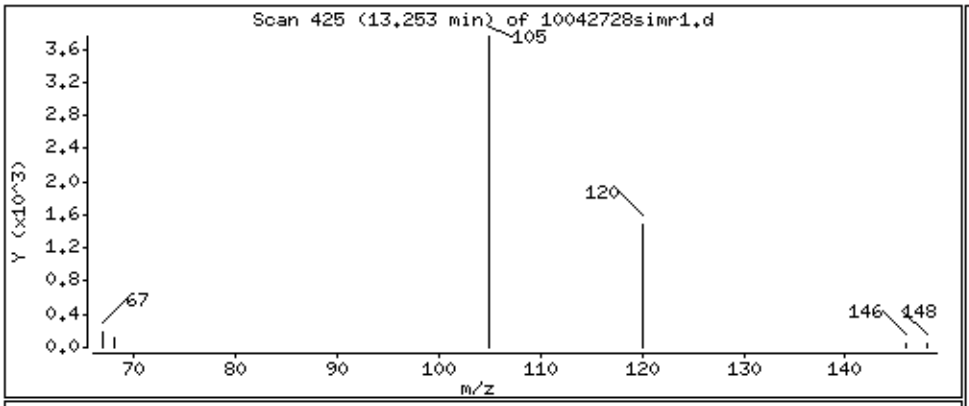
Operator: gm

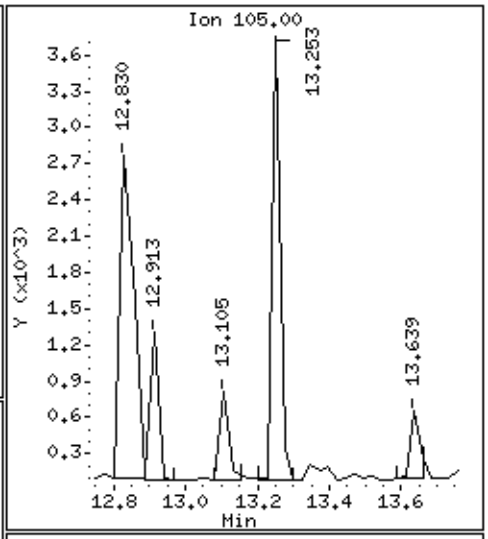
Column phase: DB-5.625

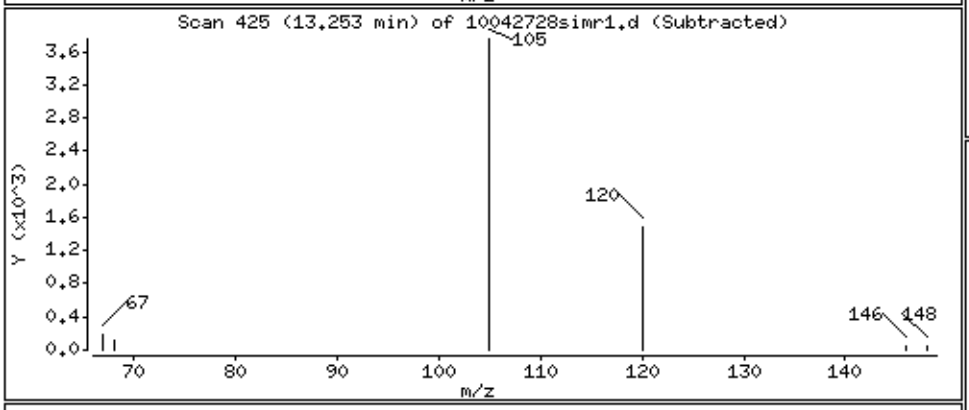
Column diameter: 0.25

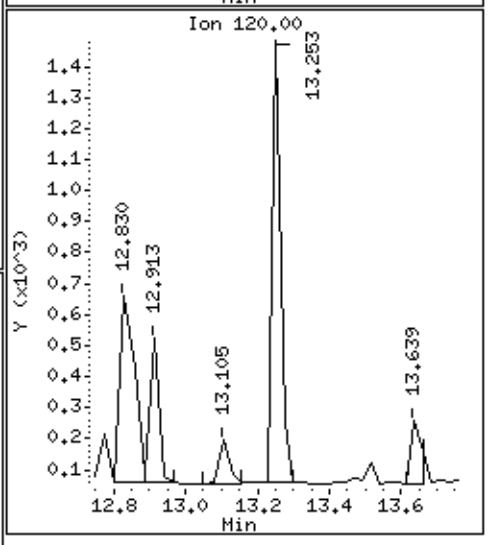
42 1,2,4-Trimethylbenzene

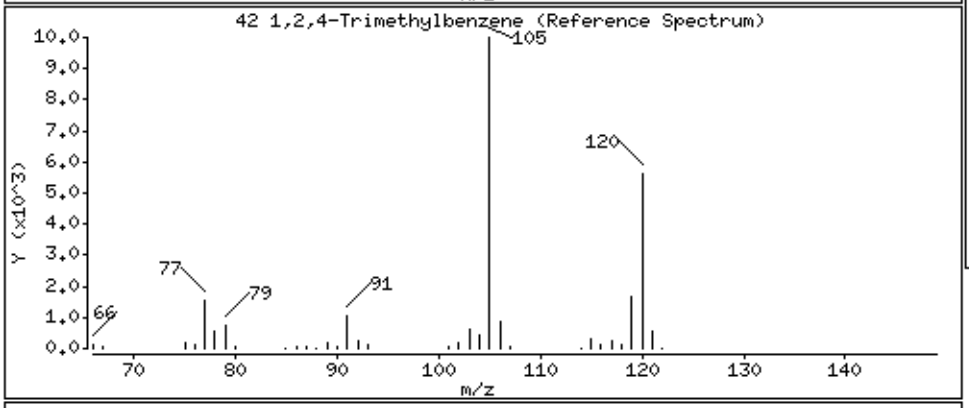
Concentration: 0.156304 ug

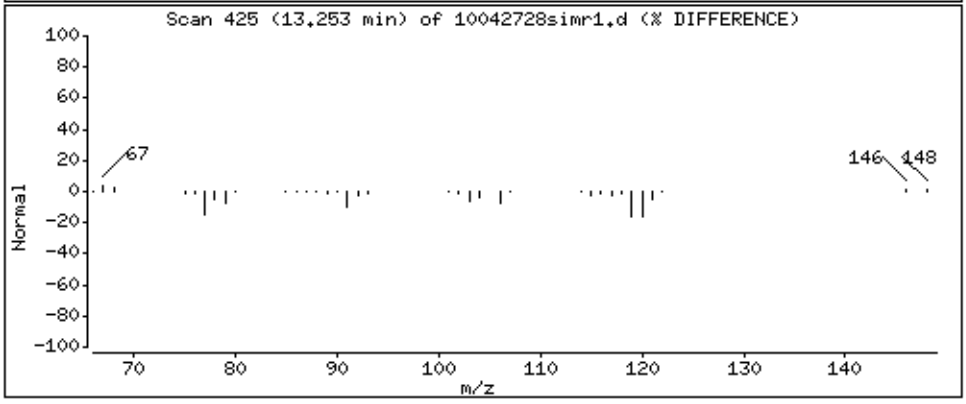












Data File: /chem/msd10.i/27Apr2015.b/10042728simr1.d

Date : 27-APR-2015 18:36

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-03A;

Volume Injected (uL): 1.0

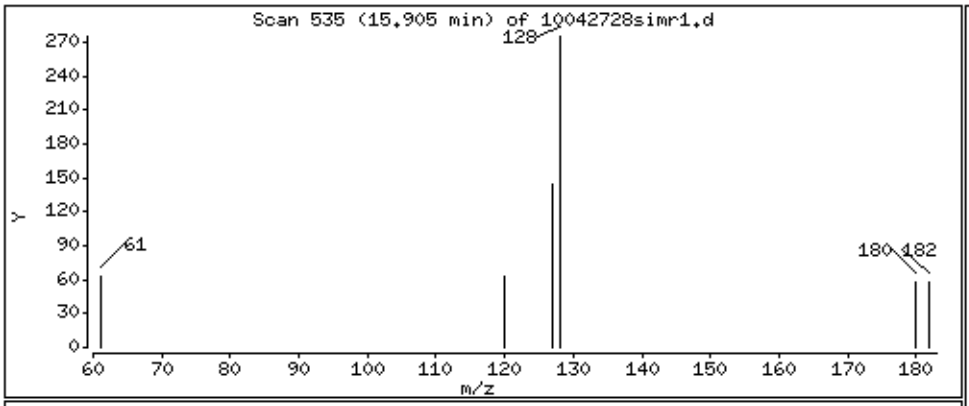
Operator: gm

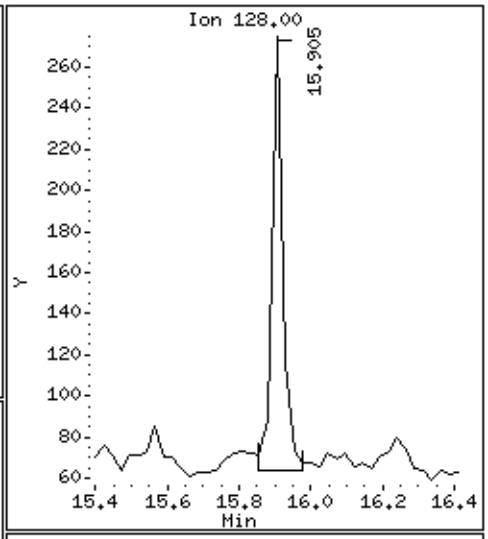
Column phase: DB-5.625

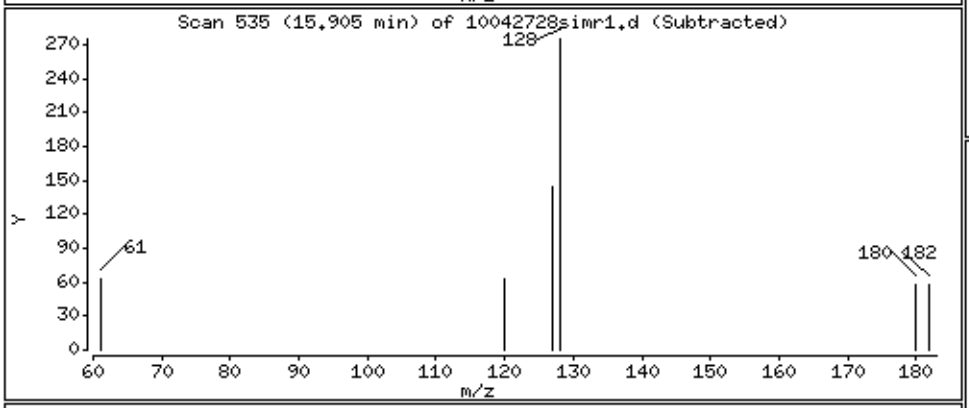
Column diameter: 0.25

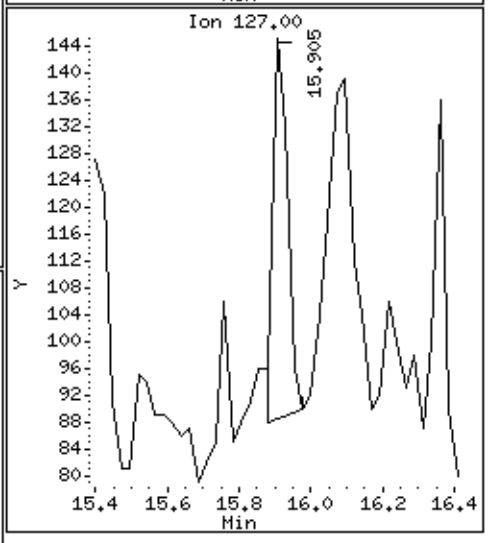
49 Naphthalene

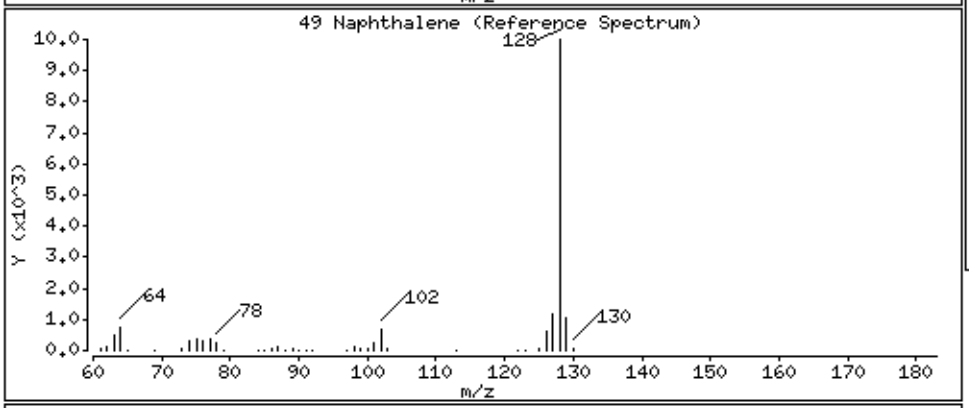
Concentration: 0.00763395 ug

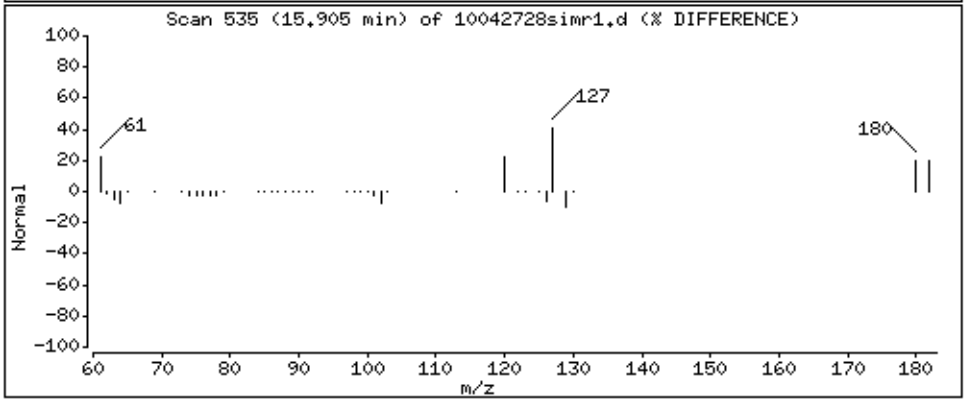












eurofins | Air Toxics

Client Sample ID: 913NP

Lab ID#: 1504459R1-04A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**10042729simr1**	**Date of Collection: 4/17/15 12:15:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/27/15 07:00 PM**
		Date of Extraction: 4/27/15

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Benzene	0.40	0.50	0.71	0.88
1,2-Dichloroethane	0.10	0.13	0.21	0.27
Trichloroethene	0.10	0.14	0.042 J	0.060 J
Toluene	0.10	0.13	1.8	2.5
Tetrachloroethene	0.10	0.17	0.055 J	0.093 J
Ethyl Benzene	0.10	0.15	0.28	0.42
m,p-Xylene	0.10	0.14	0.84	1.2
o-Xylene	0.10	0.15	0.28	0.43
Naphthalene	0.10	0.40	0.015 J	0.059 J
1,1-Dichloroethane	0.10	0.16	Not Detected C	Not Detected C
1,1-Dichloroethene	0.40	0.52	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.16	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.33	Not Detected C	Not Detected C
1,1,2-Trichloroethane	0.10	0.15	Not Detected C	Not Detected C
1,2,4-Trimethylbenzene	0.10	0.20	0.25	0.50
1,3,5-Trimethylbenzene	0.10	0.19	0.071 CJ	0.13 CJ
Vinyl Chloride	0.40	0.44	Not Detected C	Not Detected C

J = Estimated value.
C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F , duration time = 10065 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130

Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msd10.i/27Apr2015.b/10042729simr1.d
Lab Smp Id: 1504459R1-04A
Inj Date : 27-APR-2015 19:00
Operator : gm Inst ID: msd10.i
Smp Info : ;1504459R1-04A;
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Meth Date : 08-May-2015 15:50 gmash Quant Type: ISTD
Cal Date : 27-APR-2015 11:01 Cal File: 10042709sim.d
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Gilbane.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
2	Vinyl Chloride	62	Compound Not Detected.					
4	1,1-Dichloroethene-CCC	96	Compound Not Detected.					
8	trans-1,2-Dichloroethene	96	Compound Not Detected.					
11	1,1-Dichloroethane-SPCC	63	Compound Not Detected.					
14	cis-1,2-Dichloroethene	96	Compound Not Detected.					
17	1,1,1-Trichloroethane	97	Compound Not Detected.					
19	Benzene	78	7.938	7.938	(0.782)	15585	0.35537	0.710735
20	1,2-Dichloroethane	62	8.000	7.999	(0.788)	1944	0.10372	0.207443
22	Trichloroethene	130	8.562	8.562	(0.843)	288	0.02089	0.0417739(aM)
$ 26	Toluene-d8	98	9.839	9.839	(0.969)	244512	4.99477	9.98954
28	Toluene-CCC	92	9.912	9.912	(0.976)	38370	0.92491	1.84981
* 29	2-Fluorotoluene	109	10.153	10.153	(1.000)	270917	5.00000	
30	1,1,2-Trichloroethane	97	Compound Not Detected.					
31	Tetrachloroethene	164	10.466	10.466	(1.031)	365	0.02775	0.0554936(a)
33	Ethylbenzene-CCC	106	11.510	11.510	(1.134)	4054	0.14242	0.284846
34	m,p-Xylene	106	11.613	11.613	(1.144)	12462	0.41851	0.837021

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
36 o-Xylene	106	12.062	12.062	(1.188)	4094	0.14044	0.280878
41 1,3,5-Trimethylbenzene	105	12.913	12.913	(1.272)	3344	0.03548	0.0709551(a)
42 1,2,4-Trimethylbenzene	105	13.253	13.253	(1.305)	9987	0.12699	0.253976
49 Naphthalene	128	15.905	15.905	(1.567)	918	0.00740	0.0148019(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd10.i
Lab File ID: 10042729simr1.d
Lab Smp Id: 1504459R1-04A
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

Calibration Date: 27-APR-2015
Calibration Time: 11:01
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	216118	108059	432236	270917	25.36

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 13-Jul-2015 12:28

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 27Apr2015
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 1504459R1-04A
Level: MED Operator: gm
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS-CM.spk Quant Type: ISTD
Sublist File: Gilbane.sub
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 26 Toluene-d8	10.0000	9.98954	99.90	70-130

Data File: /chem/msd10.i/27Apr2015.b/10042729simr1.d

Date : 27-APR-2015 19:00

Client ID:

Instrument: msd10.i

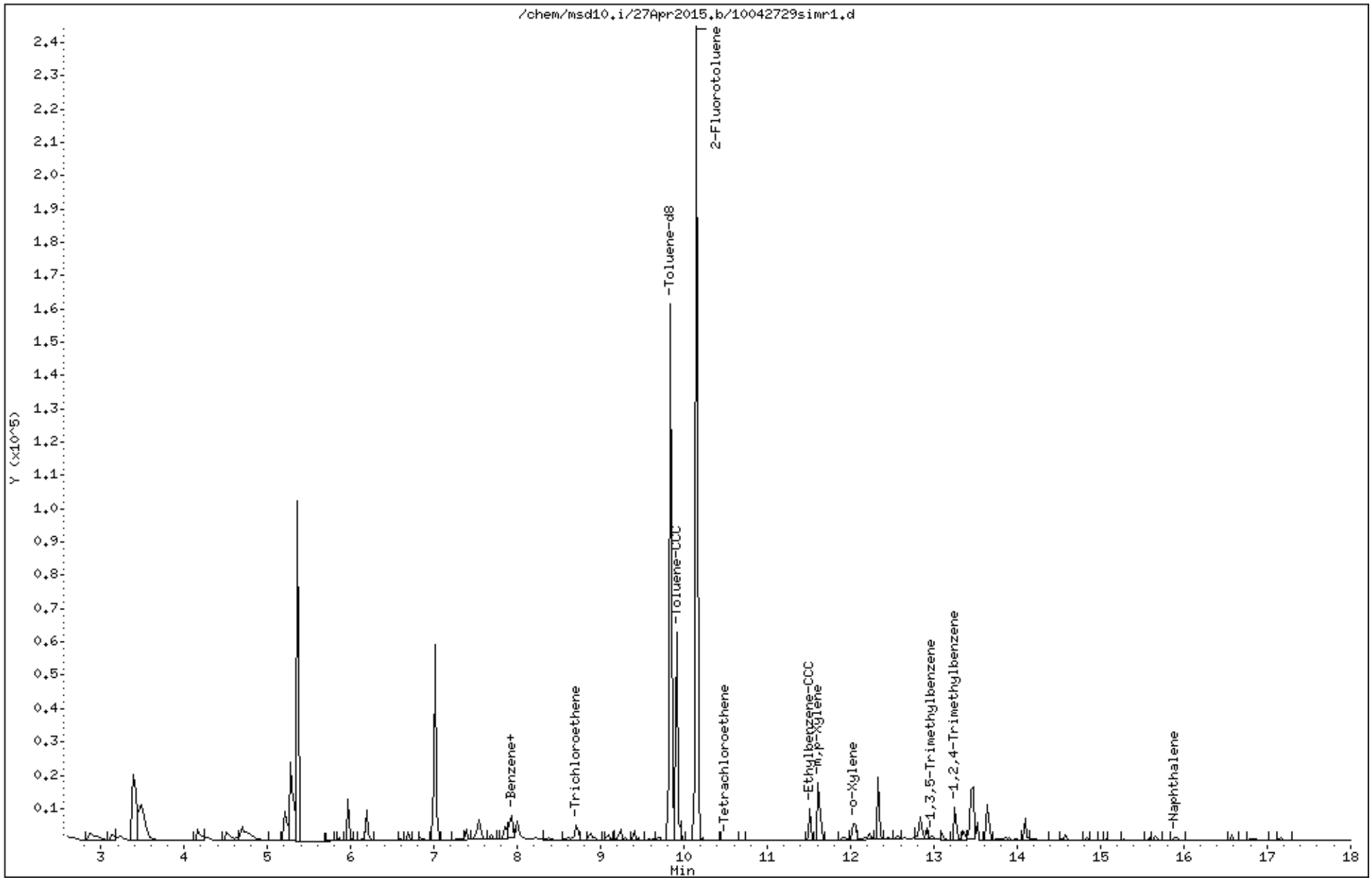
Sample Info: ;1504459R1-04A;

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msd10.i/27Apr2015.b/10042729simr1.d

Date : 27-APR-2015 19:00

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-04A;

Volume Injected (uL): 1.0

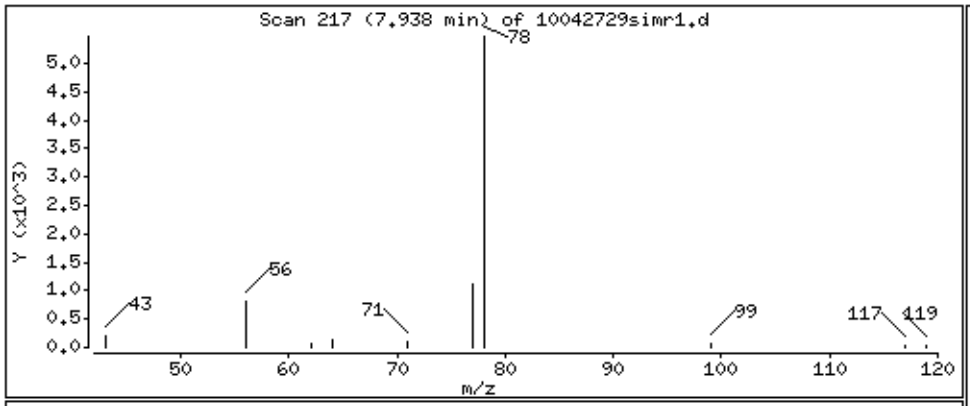
Operator: gm

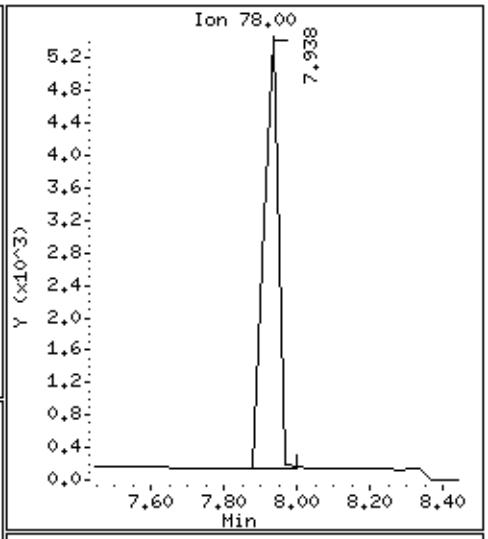
Column phase: DB-5.625

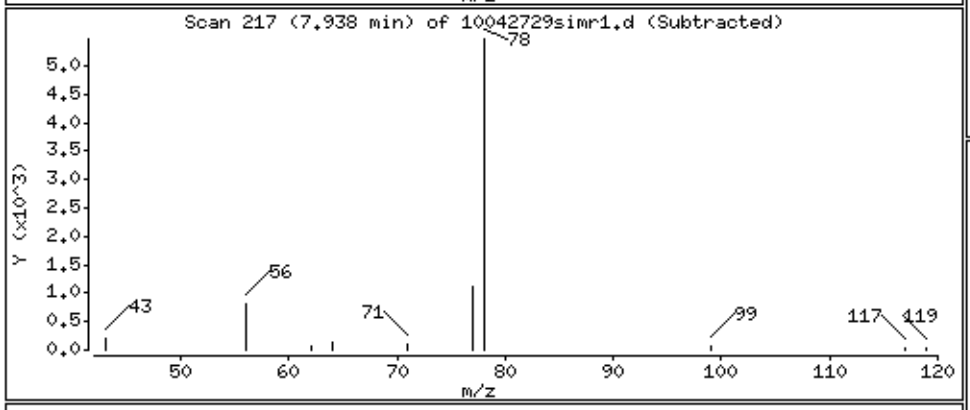
Column diameter: 0.25

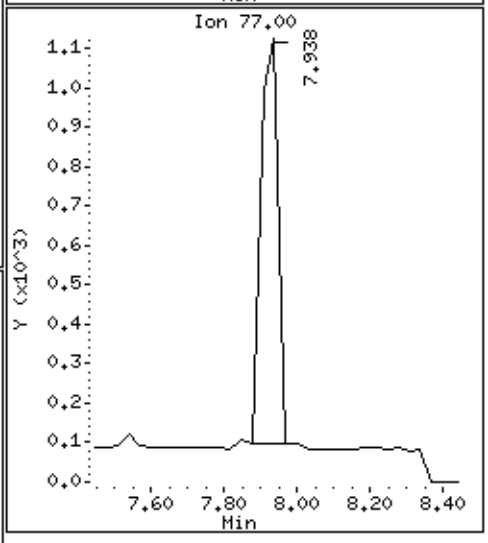
19 Benzene

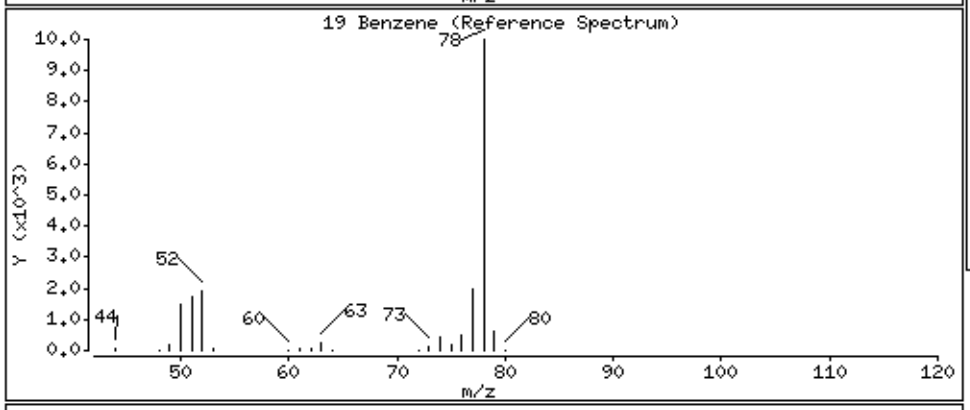
Concentration: 0.710735 ug

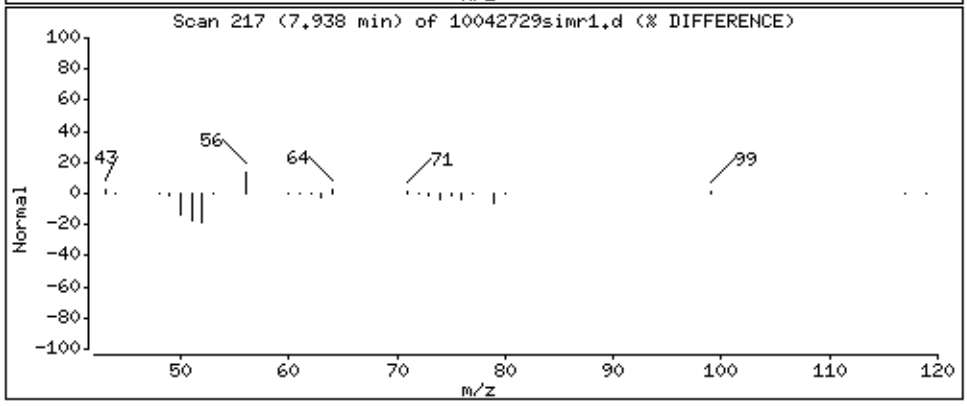












Data File: /chem/msd10.i/27Apr2015.b/10042729simr1.d

Date : 27-APR-2015 19:00

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-04A;

Volume Injected (uL): 1.0

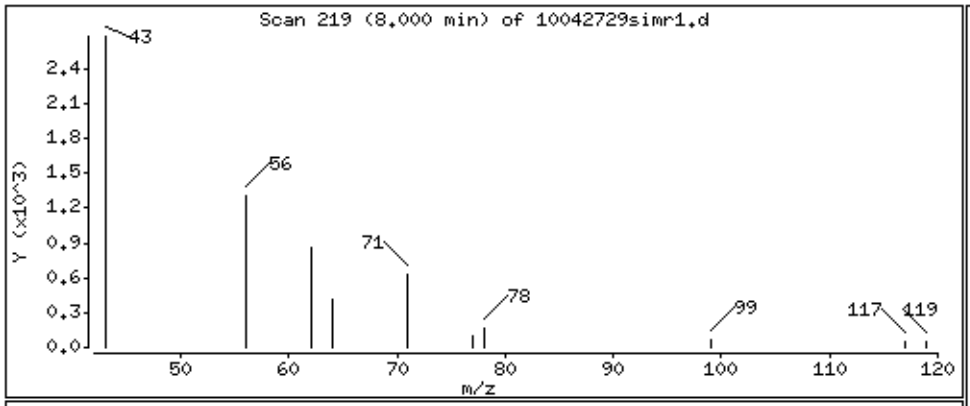
Operator: gm

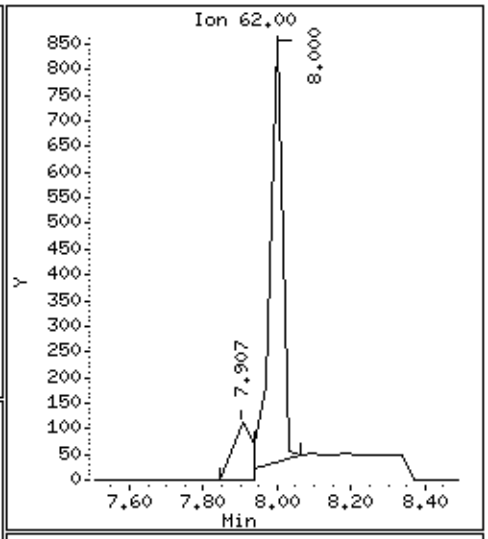
Column phase: DB-5.625

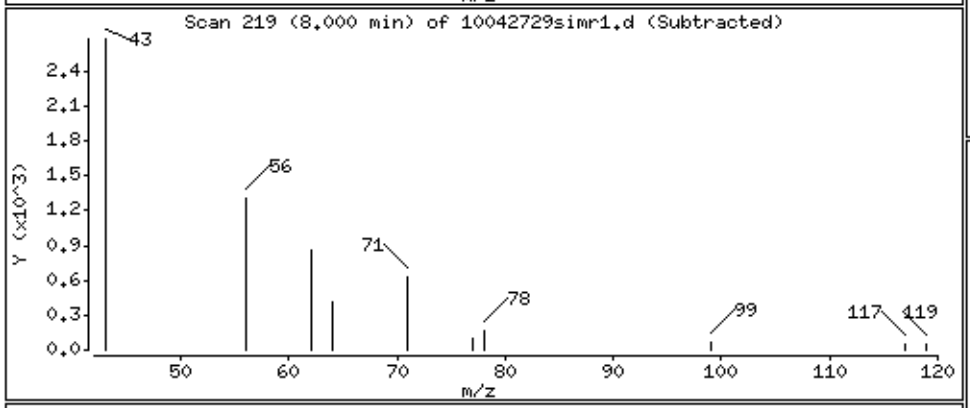
Column diameter: 0.25

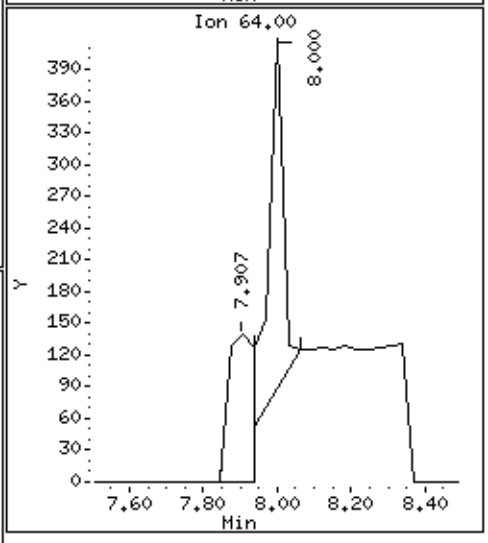
20 1,2-Dichloroethane

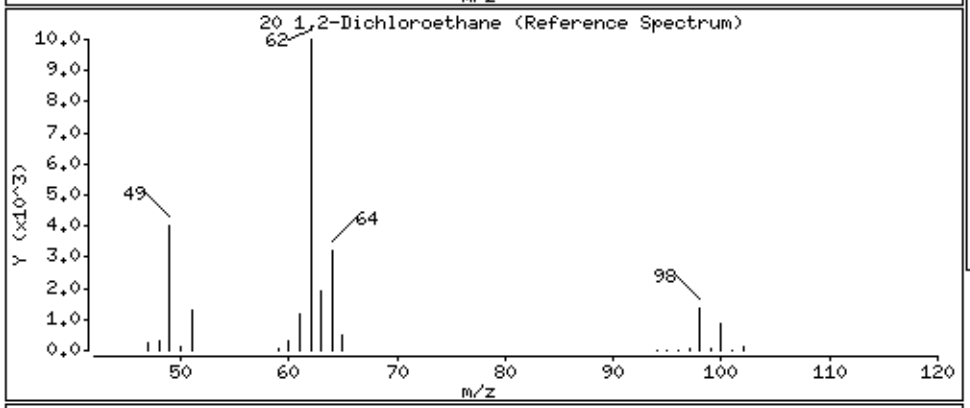
Concentration: 0.207443 ug

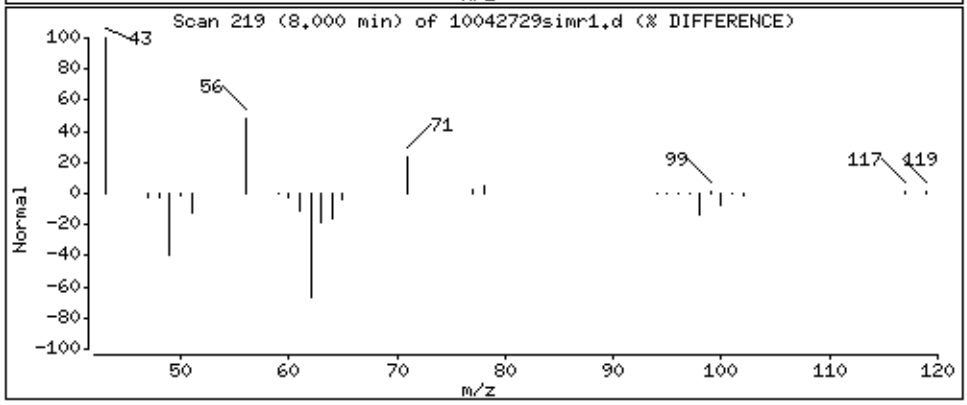












Data File: /chem/msd10.i/27Apr2015.b/10042729simr1.d

Date : 27-APR-2015 19:00

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-04A;

Volume Injected (uL): 1.0

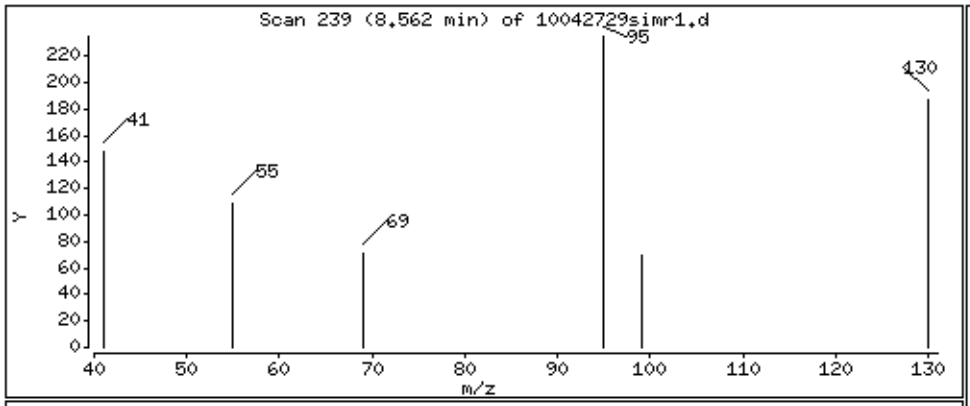
Operator: gm

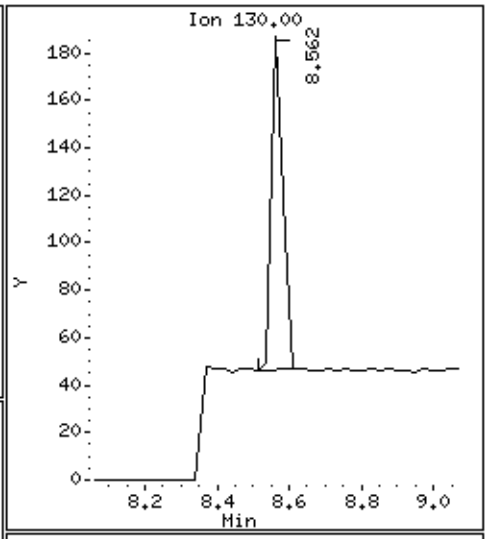
Column phase: DB-5.625

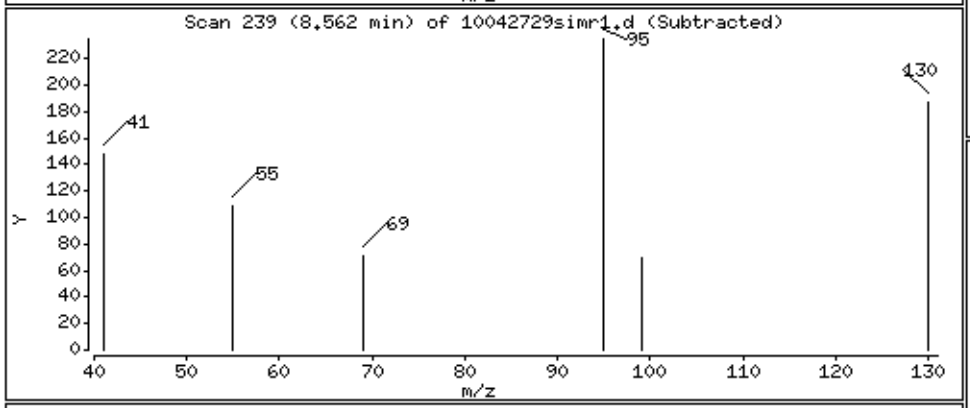
Column diameter: 0.25

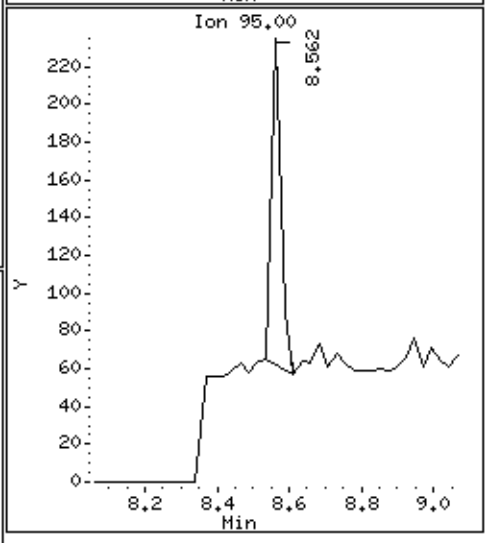
22 Trichloroethene

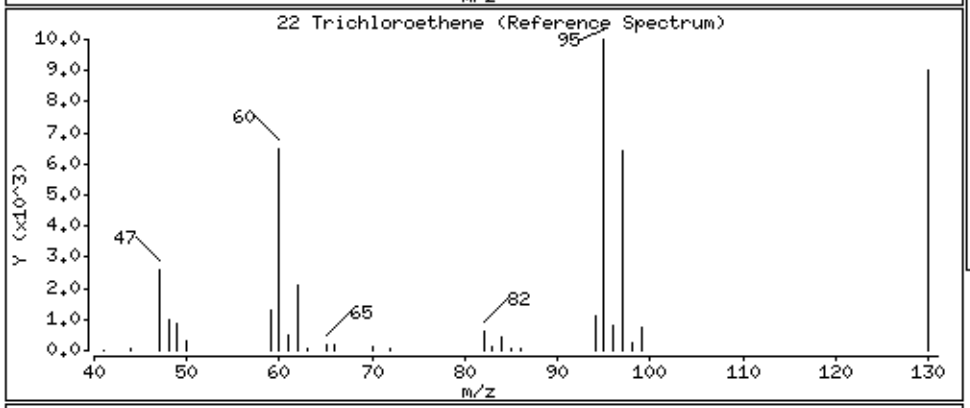
Concentration: 0.0417739 ug

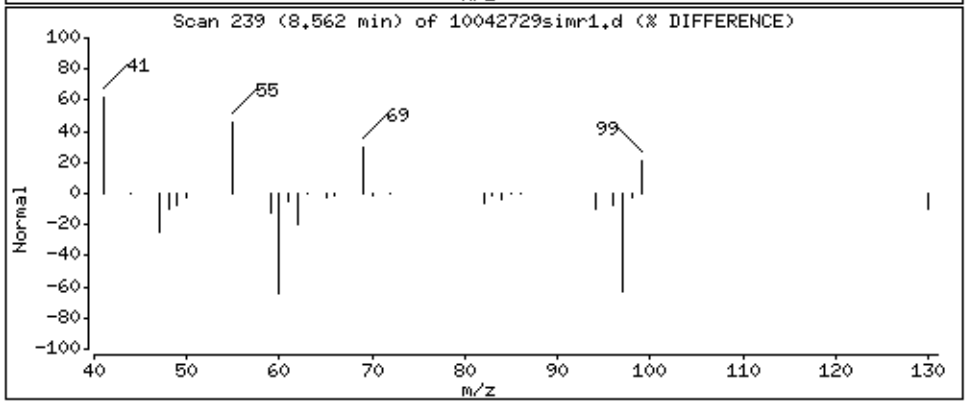












Data File: /chem/msd10.i/27Apr2015.b/10042729simr1.d

Date : 27-APR-2015 19:00

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-04A;

Volume Injected (uL): 1.0

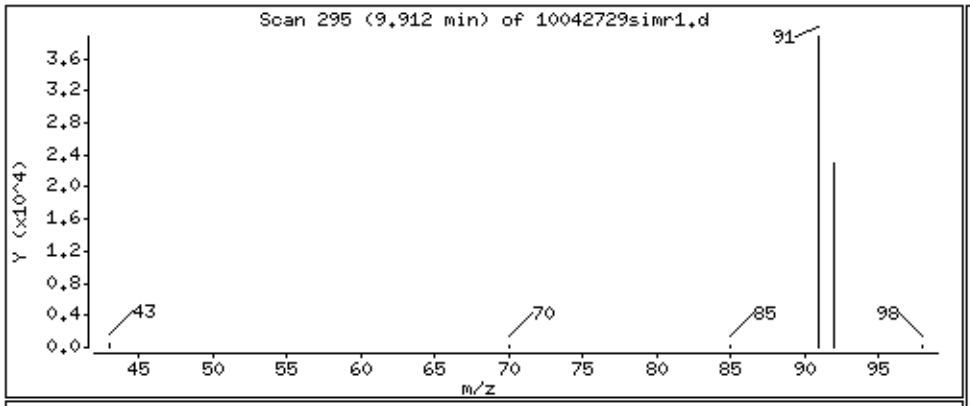
Operator: gm

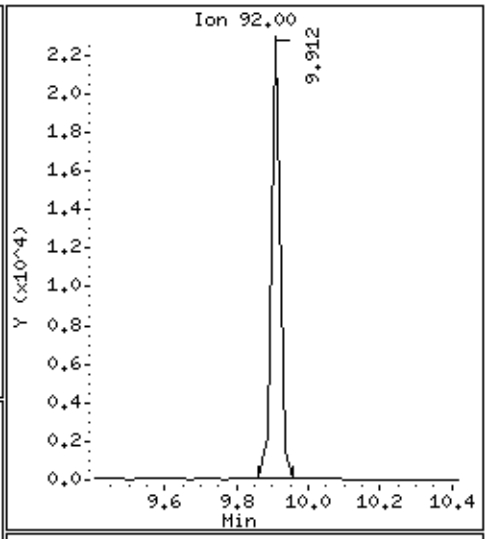
Column phase: DB-5.625

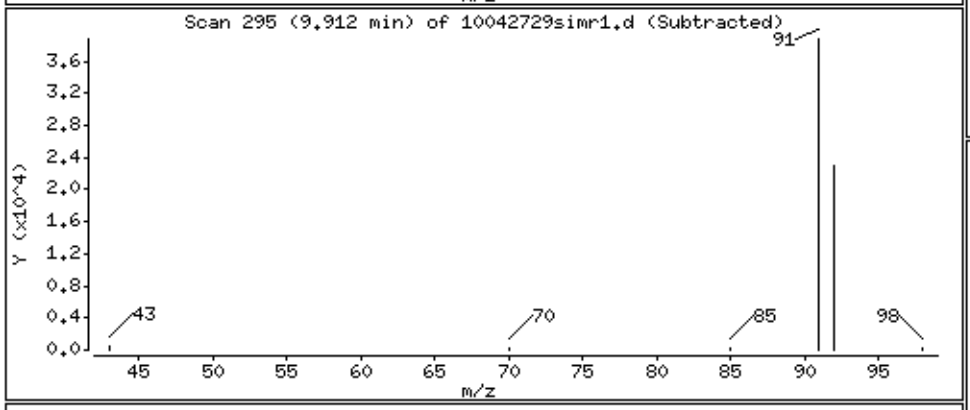
Column diameter: 0.25

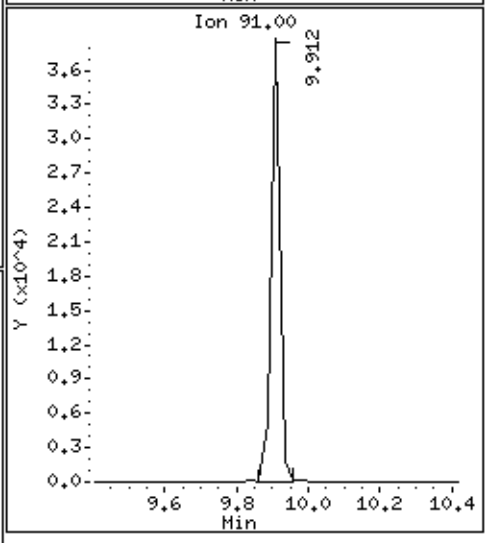
28 Toluene-CCC

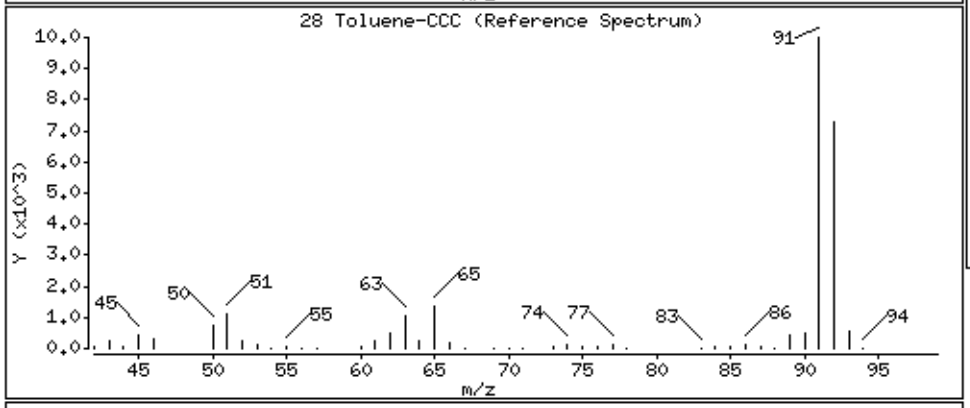
Concentration: 1.84981 ug

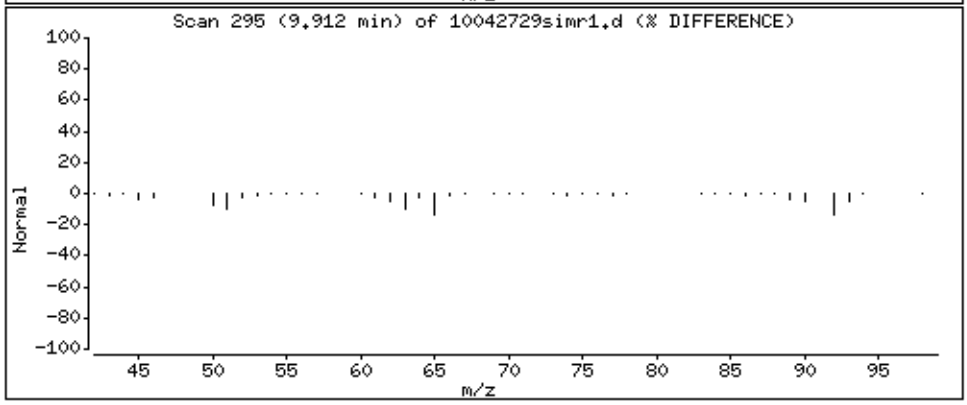












Data File: /chem/msd10.i/27Apr2015.b/10042729simr1.d

Date : 27-APR-2015 19:00

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-04A;

Volume Injected (uL): 1.0

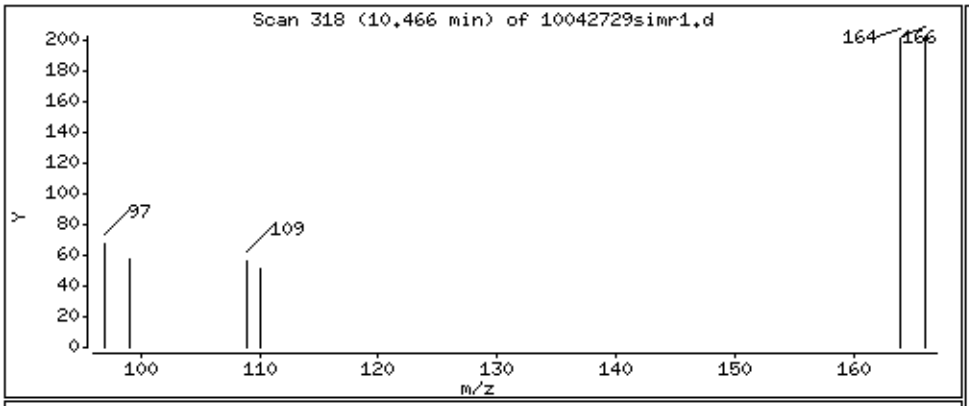
Operator: gm

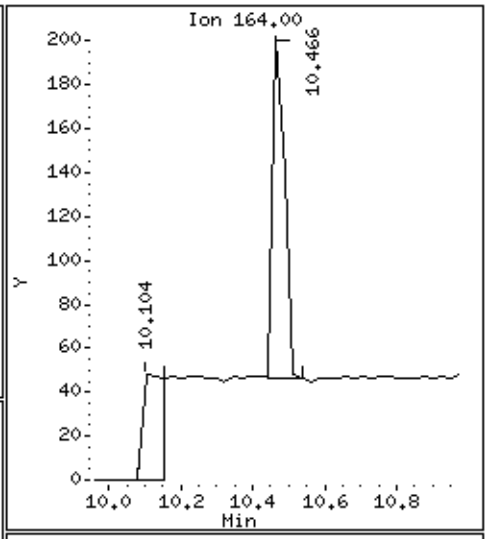
Column phase: DB-5.625

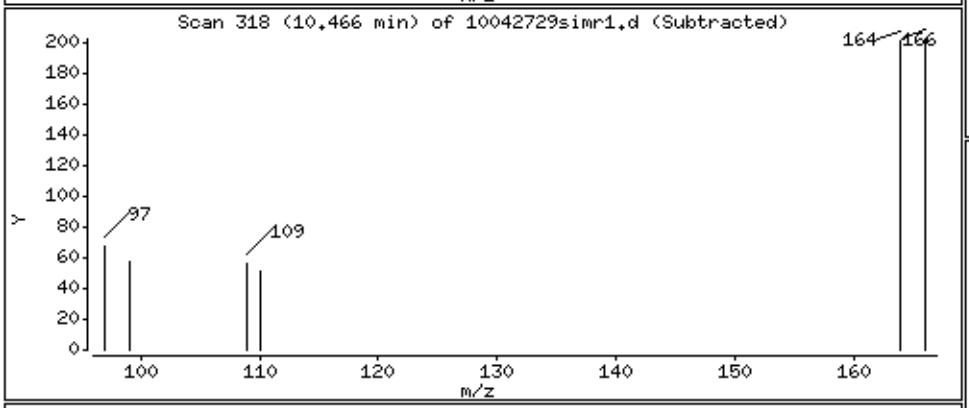
Column diameter: 0.25

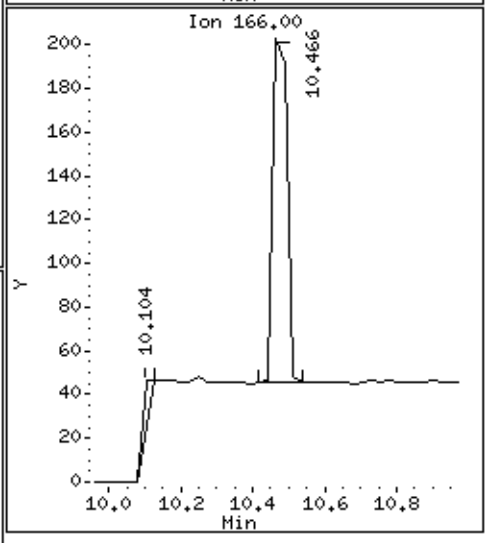
31 Tetrachloroethene

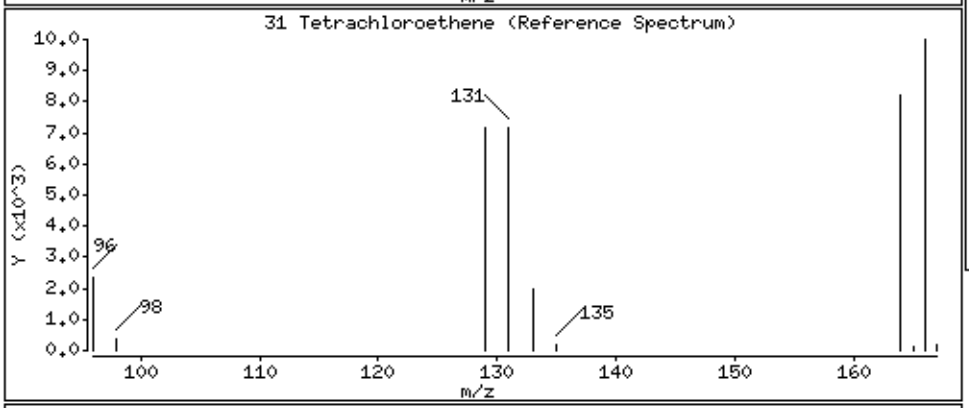
Concentration: 0.0554936 ug

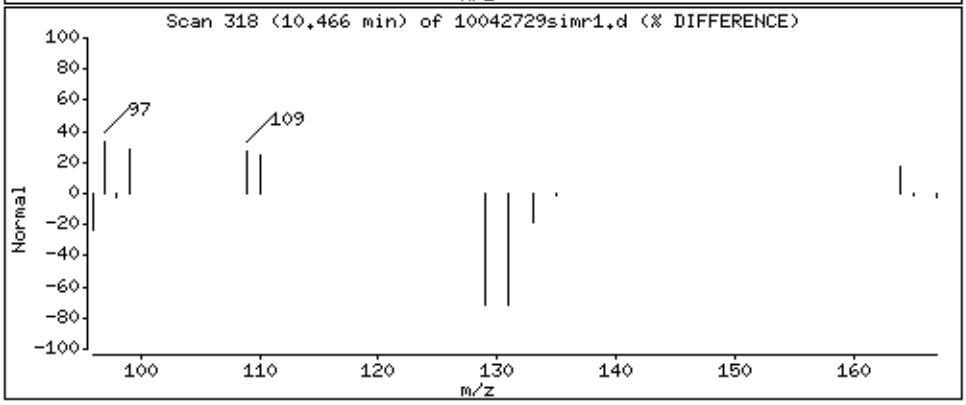












Data File: /chem/msd10.i/27Apr2015.b/10042729simr1.d

Date : 27-APR-2015 19:00

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-04A;

Volume Injected (uL): 1.0

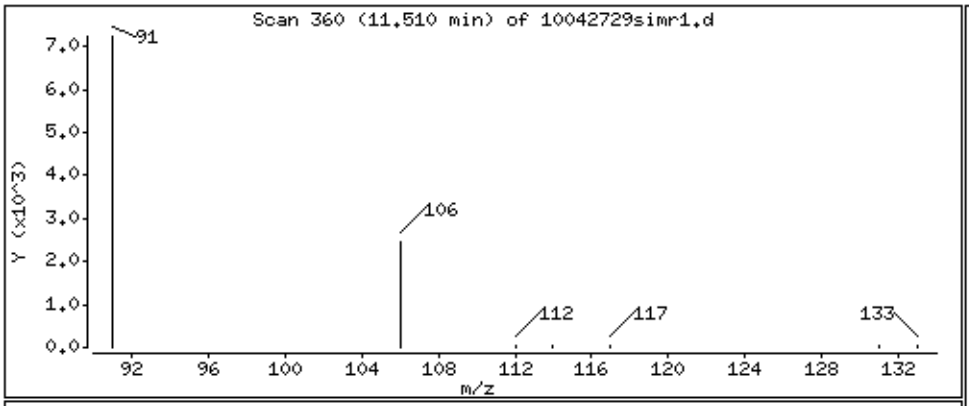
Operator: gm

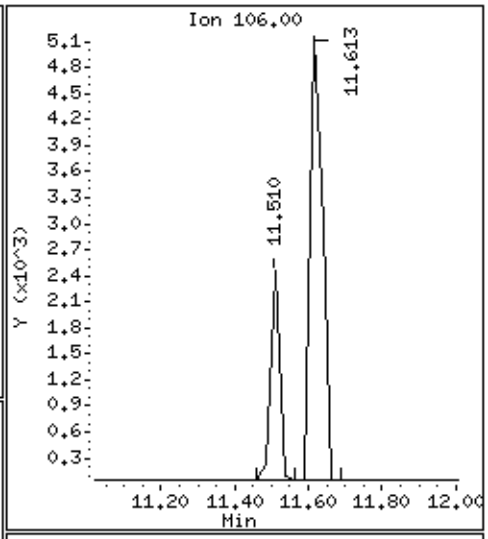
Column phase: DB-5.625

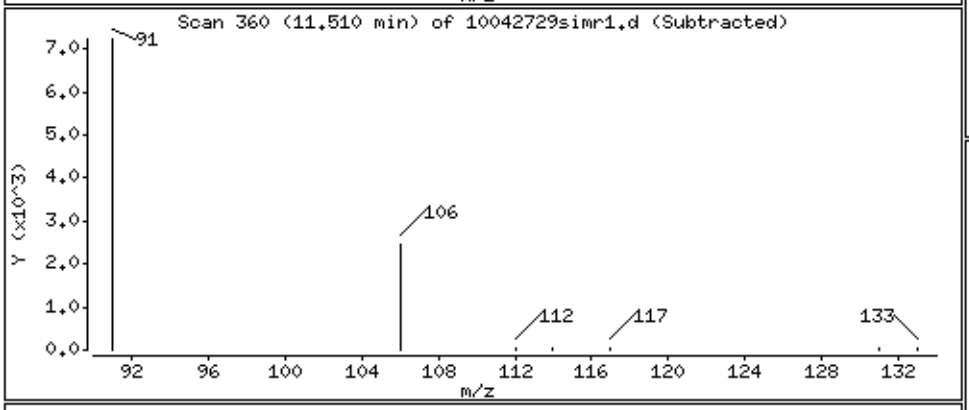
Column diameter: 0.25

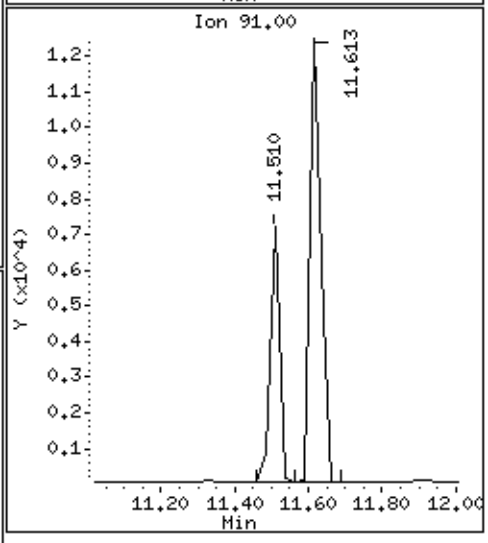
33 Ethylbenzene-CCC

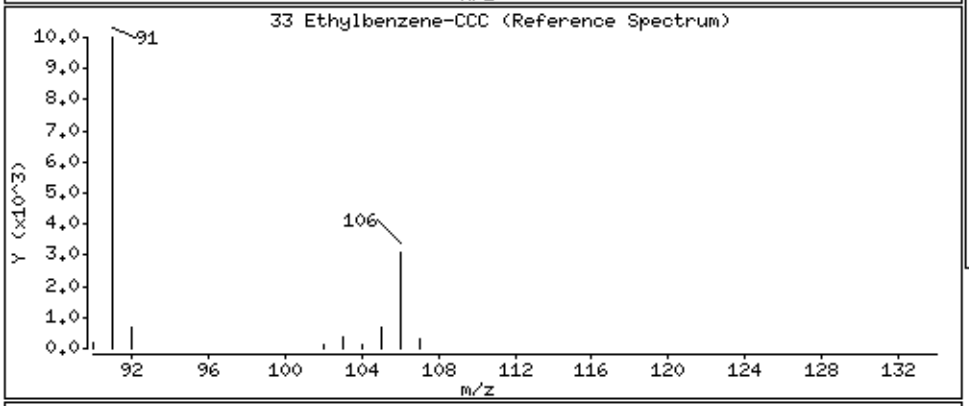
Concentration: 0.284846 ug

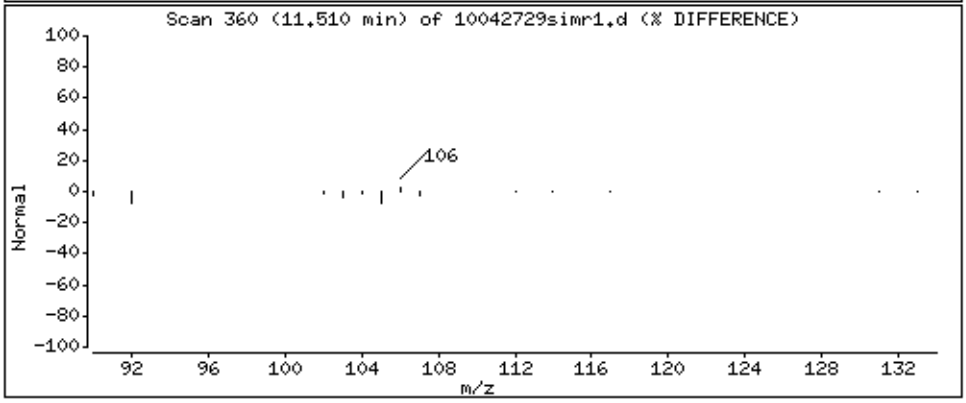












Data File: /chem/msd10.i/27Apr2015.b/10042729simr1.d

Date : 27-APR-2015 19:00

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-04A;

Volume Injected (uL): 1.0

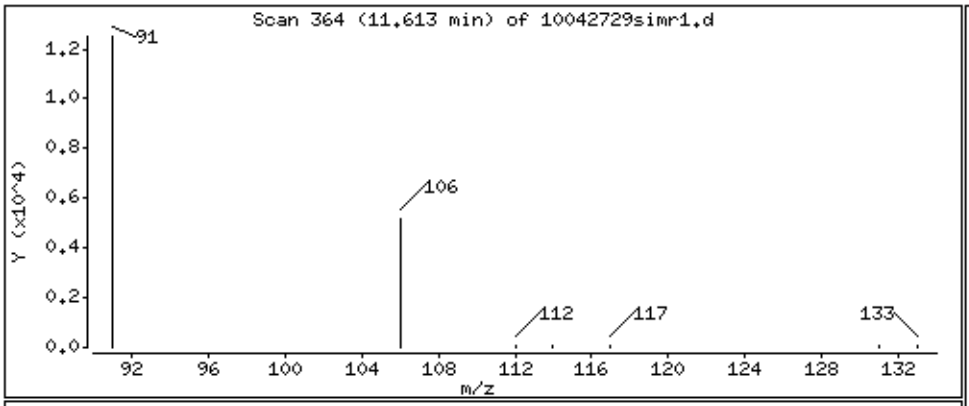
Operator: gm

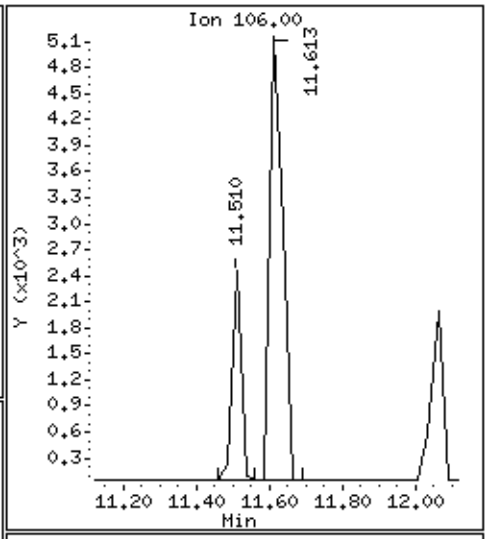
Column phase: DB-5.625

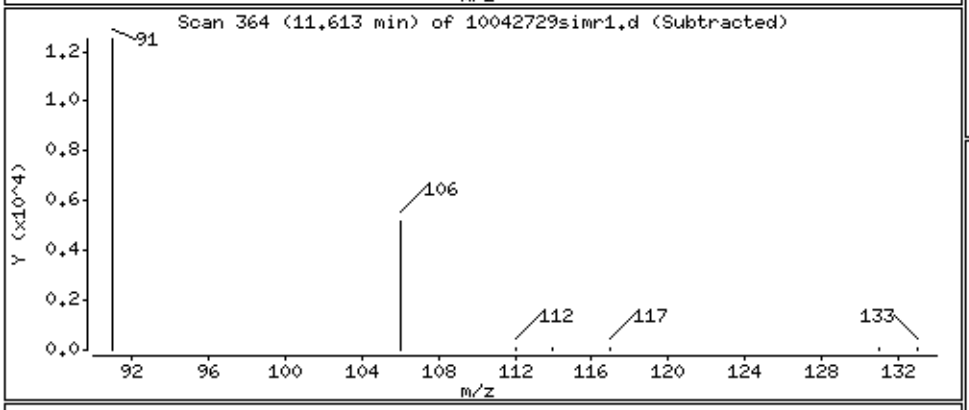
Column diameter: 0.25

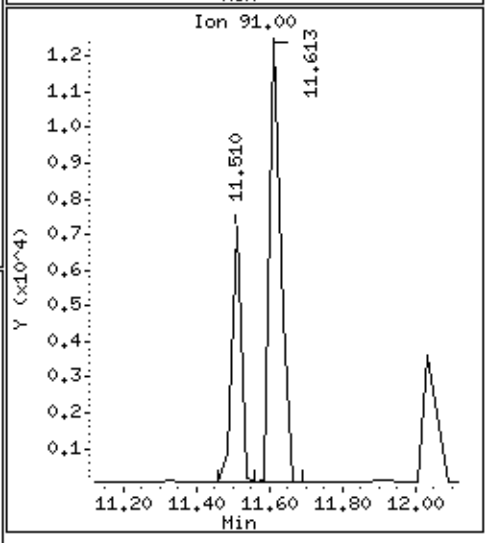
34 m,p-Xylene

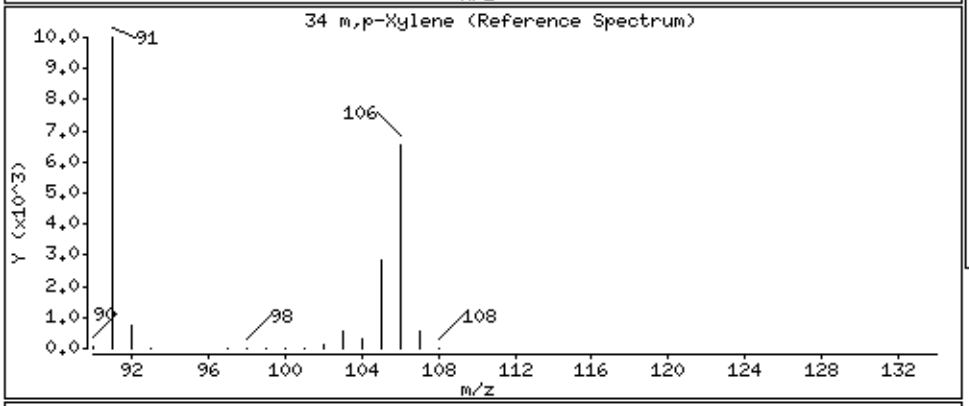
Concentration: 0.837021 ug

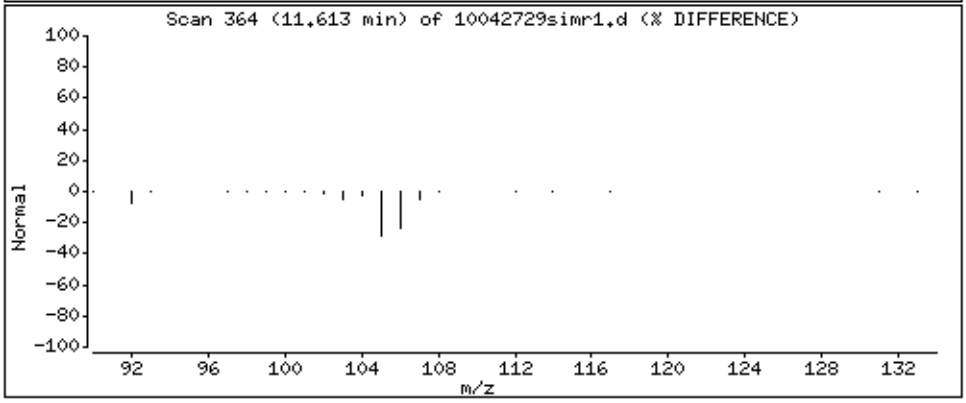












Data File: /chem/msd10.i/27Apr2015.b/10042729simr1.d

Date : 27-APR-2015 19:00

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-04A;

Volume Injected (uL): 1.0

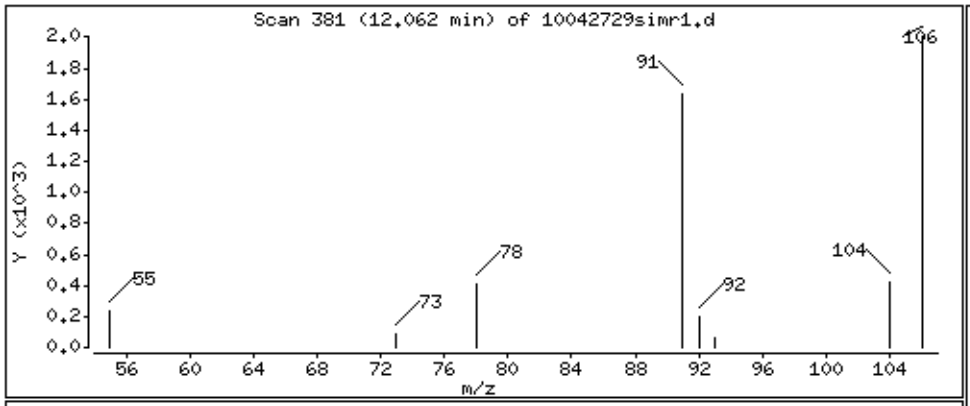
Operator: gm

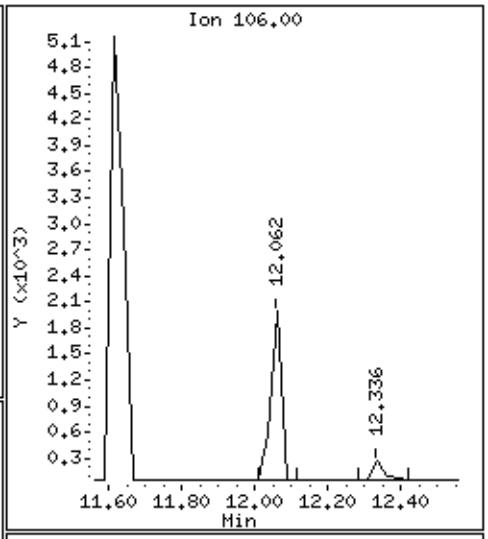
Column phase: DB-5.625

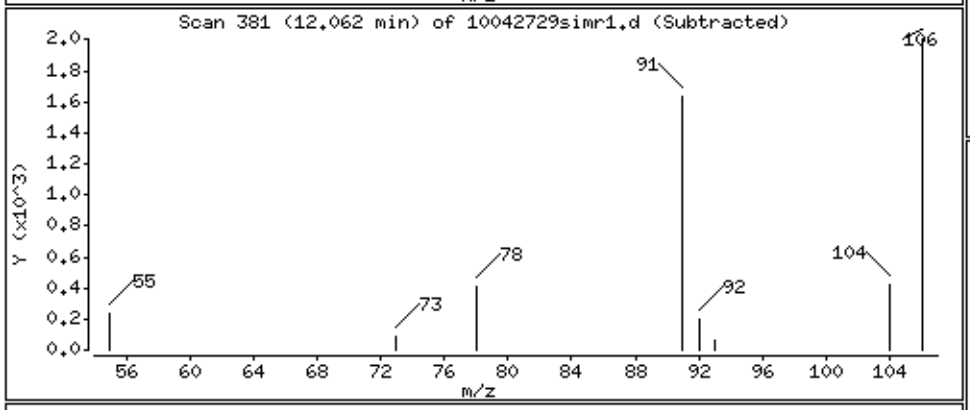
Column diameter: 0.25

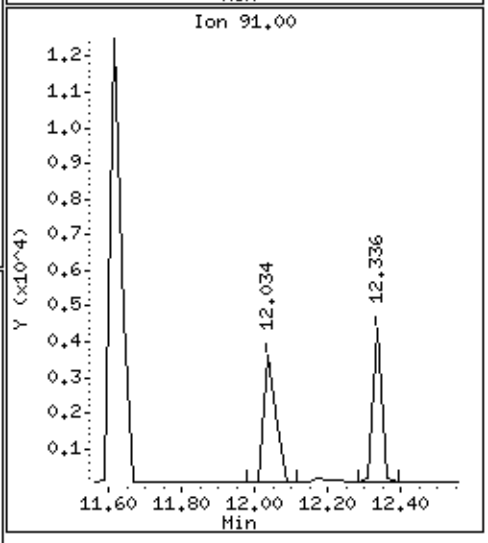
36 o-Xylene

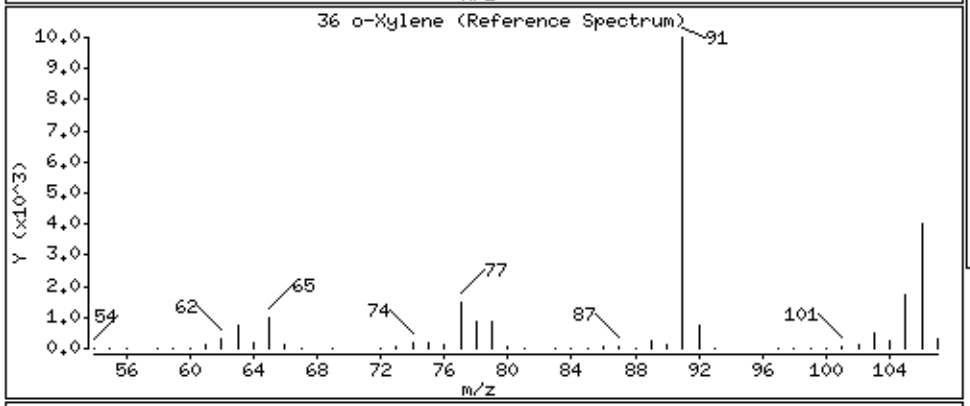
Concentration: 0.280878 ug

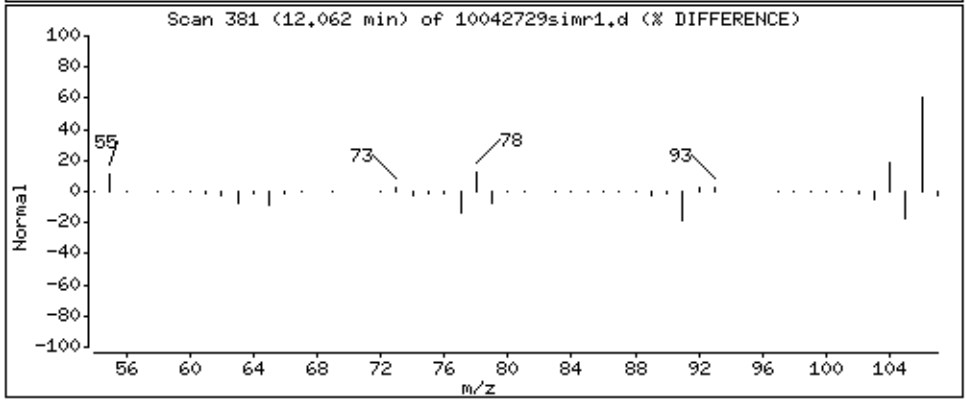












Data File: /chem/msd10.i/27Apr2015.b/10042729simr1.d

Date : 27-APR-2015 19:00

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-04A;

Volume Injected (uL): 1.0

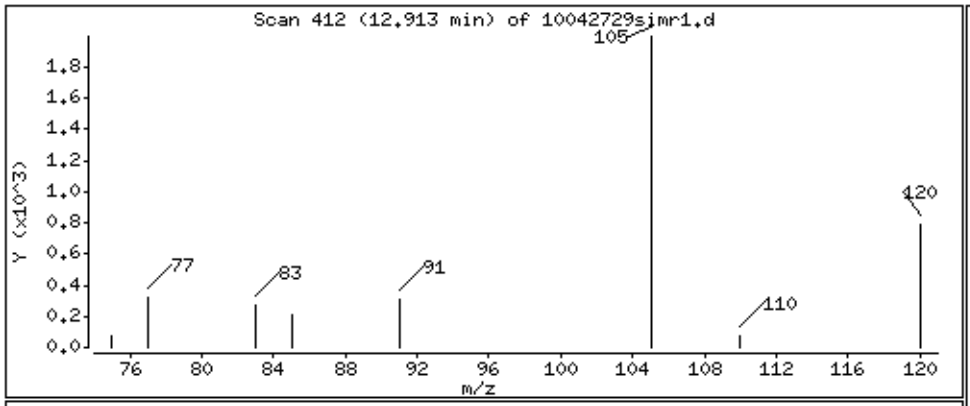
Operator: gm

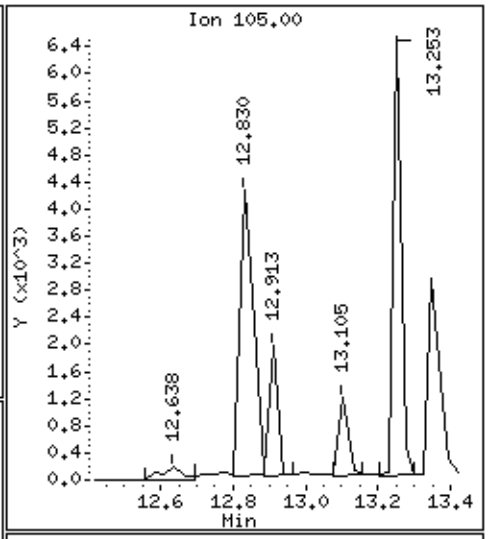
Column phase: DB-5.625

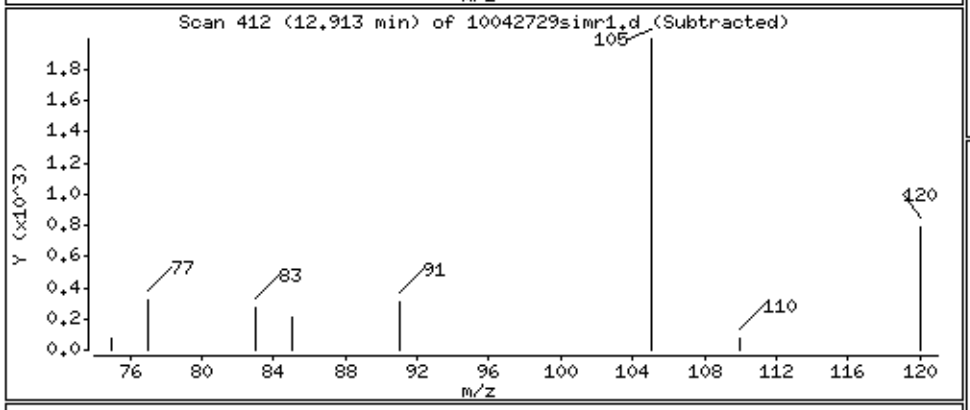
Column diameter: 0.25

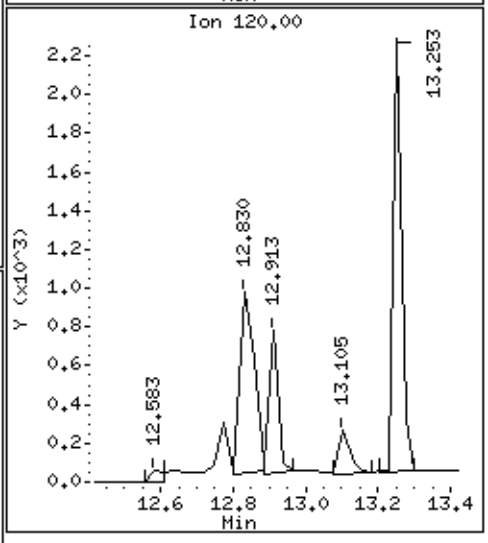
41 1,3,5-Trimethylbenzene

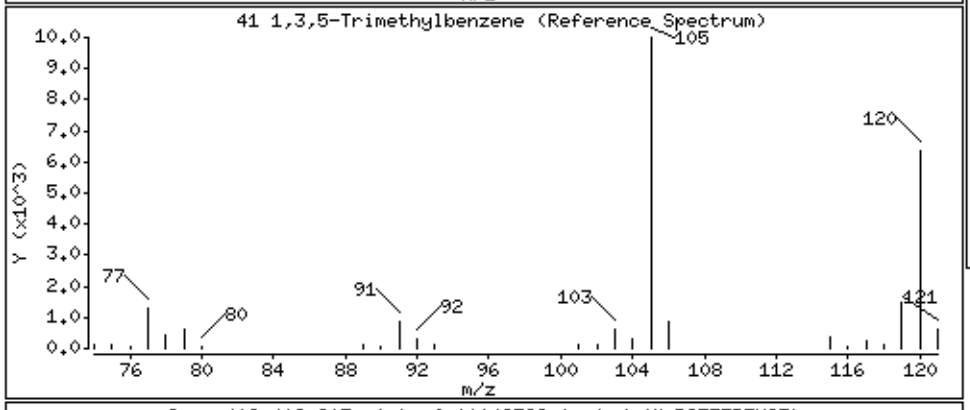
Concentration: 0.0709551 ug

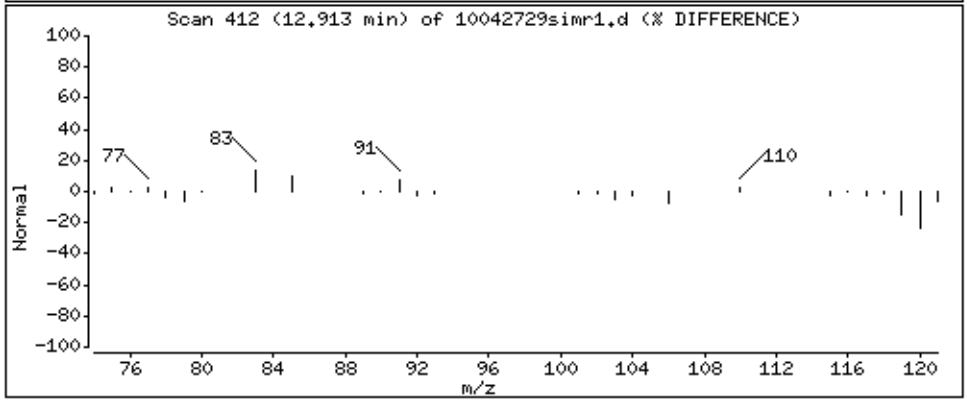












Data File: /chem/msd10.i/27Apr2015.b/10042729simr1.d

Date : 27-APR-2015 19:00

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-04A;

Volume Injected (uL): 1.0

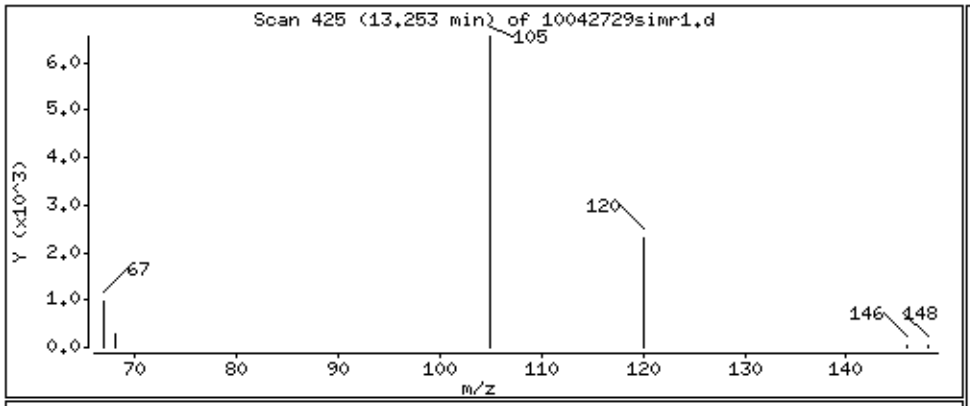
Operator: gm

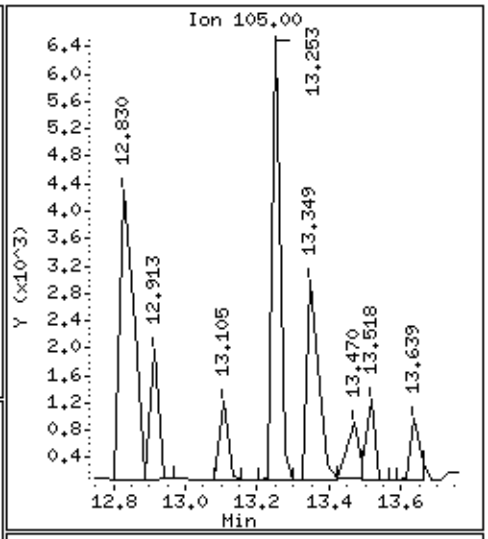
Column phase: DB-5.625

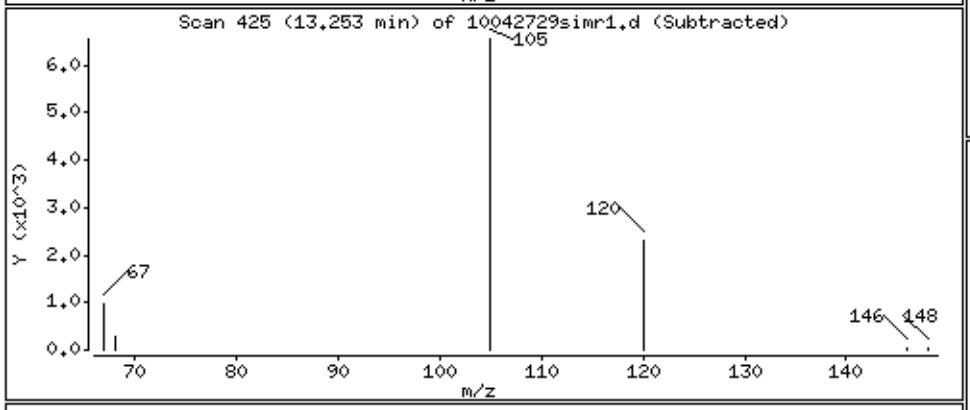
Column diameter: 0.25

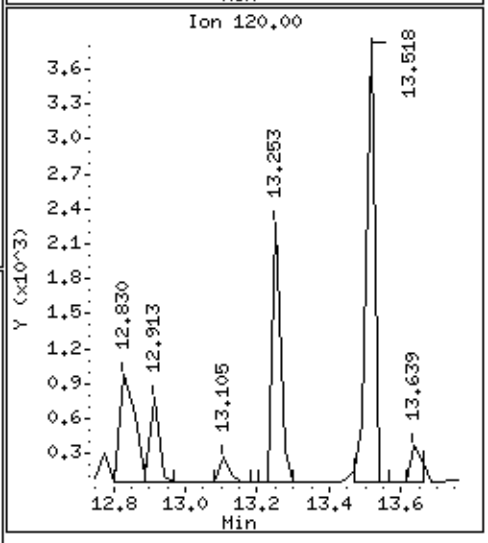
42 1,2,4-Trimethylbenzene

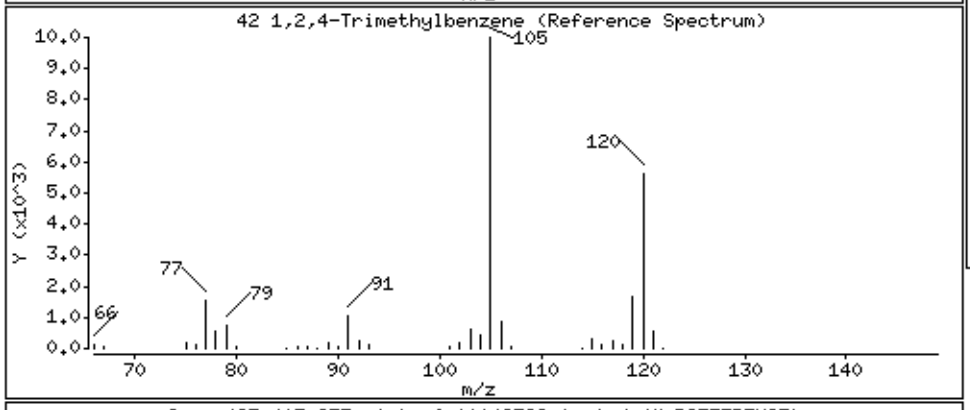
Concentration: 0.253976 ug

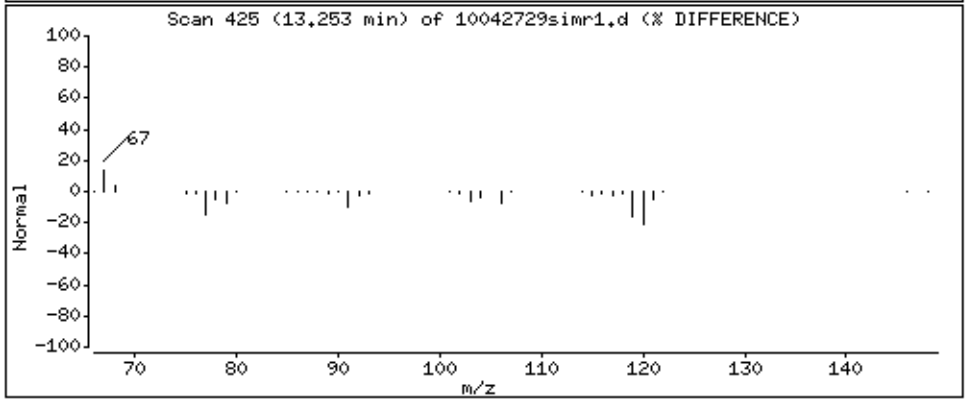












Data File: /chem/msd10.i/27Apr2015.b/10042729simr1.d

Date : 27-APR-2015 19:00

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-04A;

Volume Injected (uL): 1.0

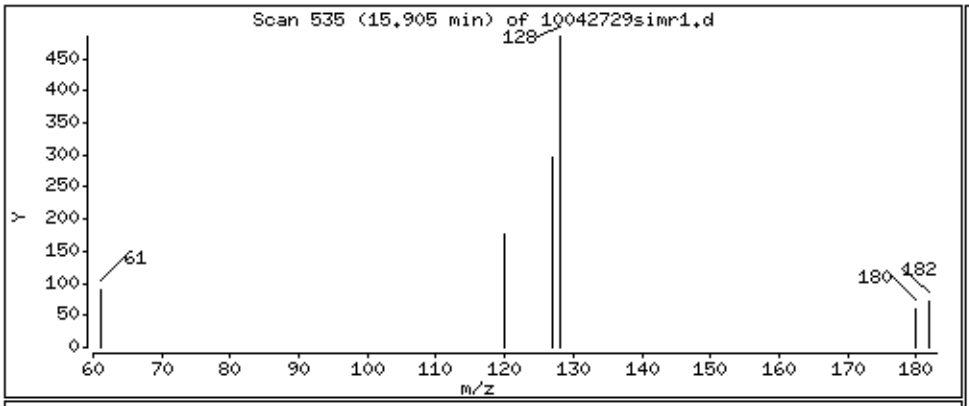
Operator: gm

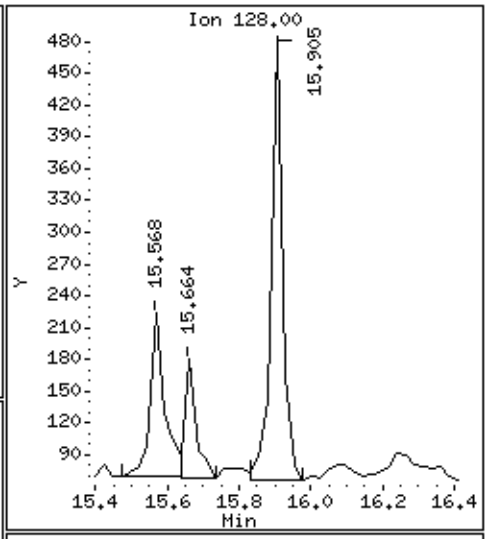
Column phase: DB-5.625

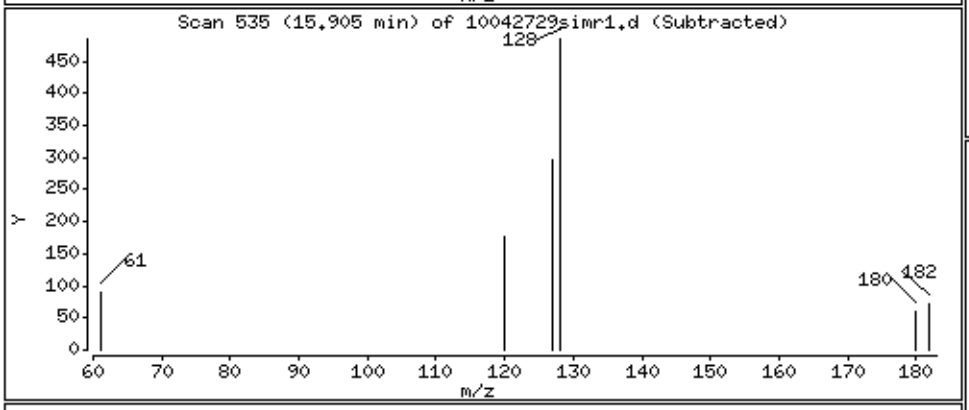
Column diameter: 0.25

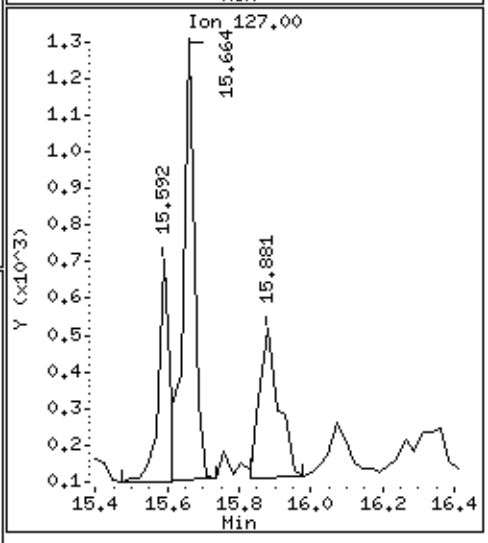
49 Naphthalene

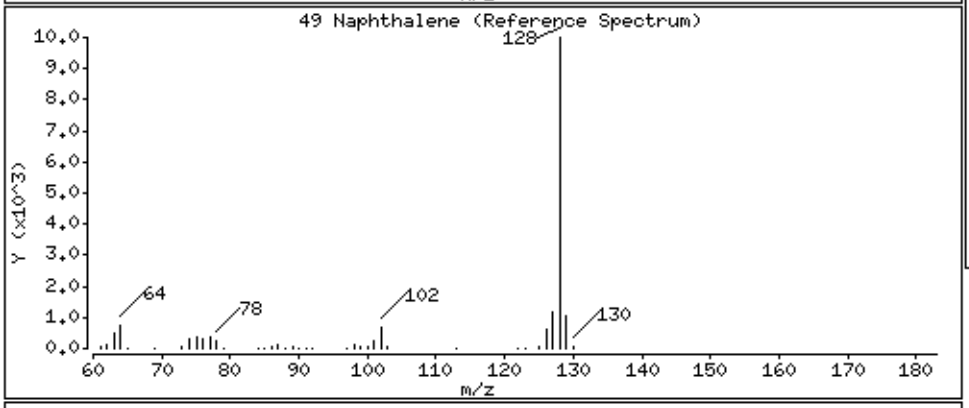
Concentration: 0.0148019 ug

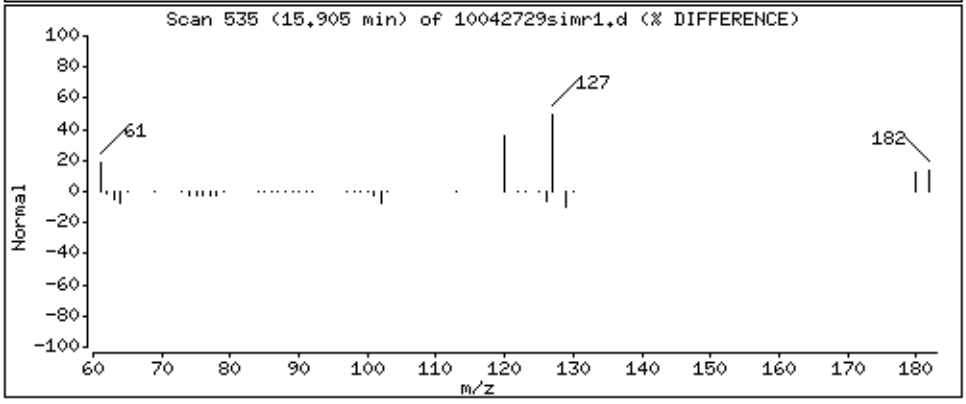












eurofins | Air Toxics

Client Sample ID: 914NP

Lab ID#: 1504459R1-05A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**10042730simr1**	**Date of Collection: 4/17/15 12:35:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 4/27/15 07:24 PM**
		Date of Extraction: 4/27/15

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Benzene	0.40	0.50	0.44	0.55
1,2-Dichloroethane	0.10	0.13	0.033 J	0.043 J
Trichloroethene	0.10	0.14	0.013 J	0.018 J
Toluene	0.10	0.13	0.99	1.3
Tetrachloroethene	0.10	0.17	0.046 J	0.078 J
Ethyl Benzene	0.10	0.15	0.14	0.21
m,p-Xylene	0.10	0.14	0.46	0.65
o-Xylene	0.10	0.15	0.15	0.23
Naphthalene	0.10	0.40	0.0083 J	0.033 J
1,1-Dichloroethane	0.10	0.16	Not Detected C	Not Detected C
1,1-Dichloroethene	0.40	0.52	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.16	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.33	Not Detected C	Not Detected C
1,1,2-Trichloroethane	0.10	0.15	Not Detected C	Not Detected C
1,2,4-Trimethylbenzene	0.10	0.20	0.19	0.37
1,3,5-Trimethylbenzene	0.10	0.19	0.050 CJ	0.094 CJ
Vinyl Chloride	0.40	0.44	Not Detected C	Not Detected C

J = Estimated value.
C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F , duration time = 10070 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130

Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msd10.i/27Apr2015.b/10042730simr1.d
Lab Smp Id: 1504459R1-05A
Inj Date : 27-APR-2015 19:24
Operator : gm Inst ID: msd10.i
Smp Info : ;1504459R1-05A;
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Meth Date : 08-May-2015 15:50 gmash Quant Type: ISTD
Cal Date : 27-APR-2015 11:01 Cal File: 10042709sim.d
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Gilbane.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
2	Vinyl Chloride	62	Compound Not Detected.					
4	1,1-Dichloroethene-CCC	96	Compound Not Detected.					
8	trans-1,2-Dichloroethene	96	Compound Not Detected.					
11	1,1-Dichloroethane-SPCC	63	Compound Not Detected.					
14	cis-1,2-Dichloroethene	96	Compound Not Detected.					
17	1,1,1-Trichloroethane	97	Compound Not Detected.					
19	Benzene	78	7.938	7.938	(0.782)	10844	0.22243	0.444854
20	1,2-Dichloroethane	62	8.000	7.999	(0.788)	347	0.01665	0.0333088(aM)
22	Trichloroethene	130	8.586	8.562	(0.846)	99	0.00646	0.0129174(aM)
$ 26	Toluene-d8	98	9.839	9.839	(0.969)	270879	4.97758	9.95516
28	Toluene-CCC	92	9.912	9.912	(0.976)	22762	0.49356	0.987129
* 29	2-Fluorotoluene	109	10.153	10.153	(1.000)	301168	5.00000	
30	1,1,2-Trichloroethane	97	Compound Not Detected.					
31	Tetrachloroethene	164	10.466	10.466	(1.031)	338	0.02311	0.0462269(a)
33	Ethylbenzene-CCC	106	11.510	11.510	(1.134)	2244	0.07092	0.141833
34	m,p-Xylene	106	11.613	11.613	(1.144)	7550	0.22808	0.456166

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
36 o-Xylene	106	12.062	12.062	(1.188)	2478	0.07647	0.152932
41 1,3,5-Trimethylbenzene	105	12.913	12.913	(1.272)	2624	0.02504	0.0500851(a)
42 1,2,4-Trimethylbenzene	105	13.253	13.253	(1.305)	8151	0.09323	0.186464
49 Naphthalene	128	15.905	15.905	(1.567)	571	0.00414	0.00828208(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd10.i
Lab File ID: 10042730simr1.d
Lab Smp Id: 1504459R1-05A
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

Calibration Date: 27-APR-2015
Calibration Time: 11:01
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	216118	108059	432236	301168	39.35

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 13-Jul-2015 12:28

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 27Apr2015
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 1504459R1-05A
Level: MED Operator: gm
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS-CM.spk Quant Type: ISTD
Sublist File: Gilbane.sub
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 26 Toluene-d8	10.0000	9.95516	99.55	70-130

Data File: /chem/msd10.i/27Apr2015.b/10042730simr1.d

Date : 27-APR-2015 19:24

Client ID:

Instrument: msd10.i

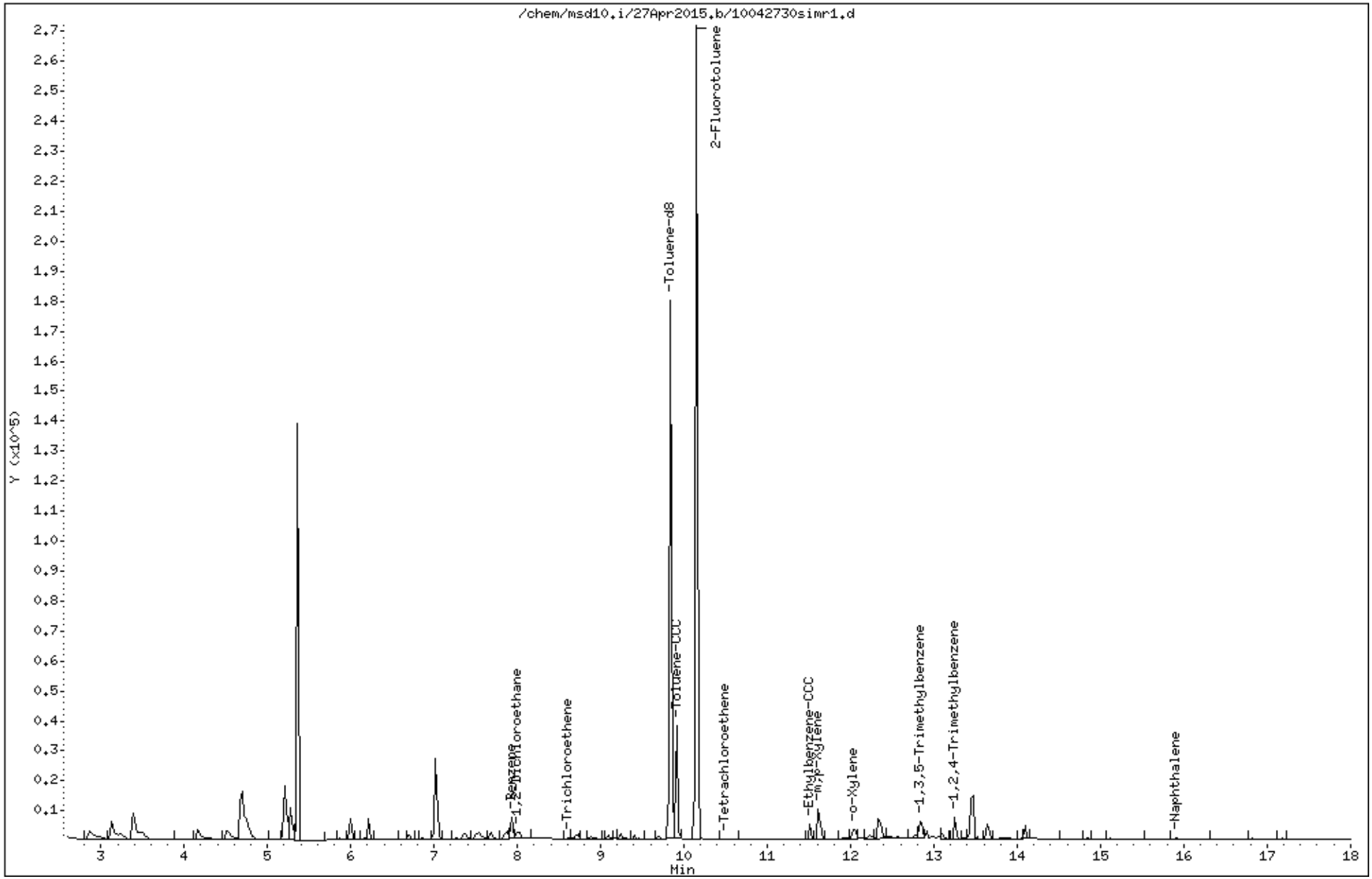
Sample Info: ;1504459R1-05A;

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msd10.i/27Apr2015.b/10042730simr1.d

Date : 27-APR-2015 19:24

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-05A;

Volume Injected (uL): 1.0

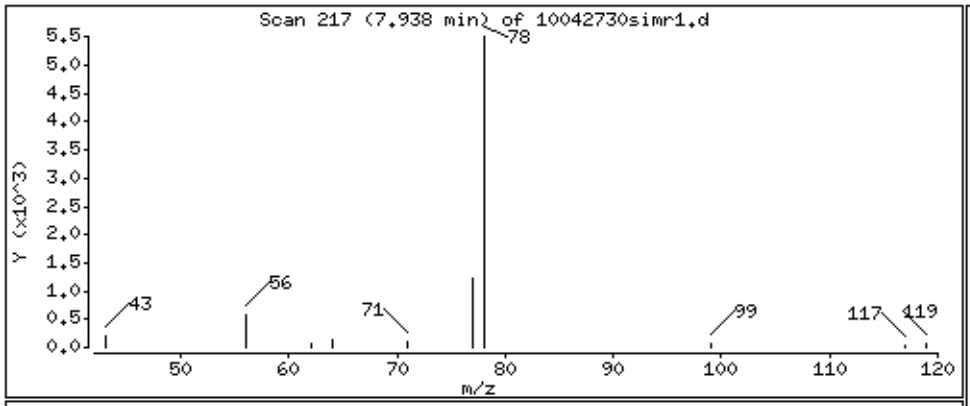
Operator: gm

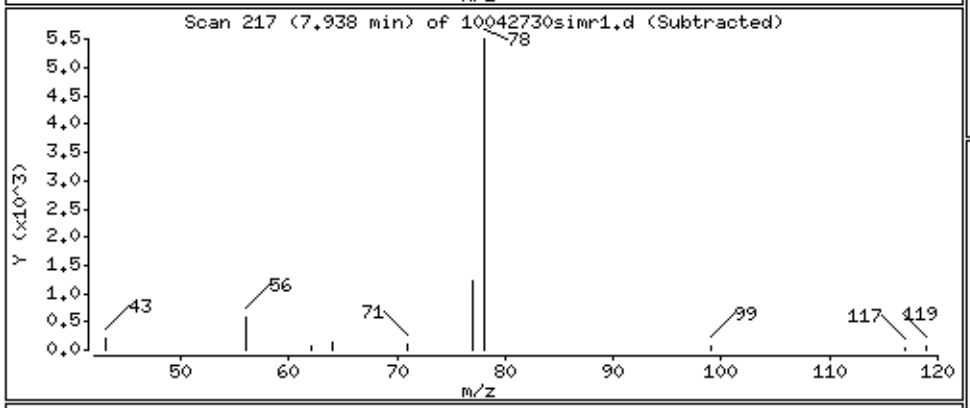
Column phase: DB-5.625

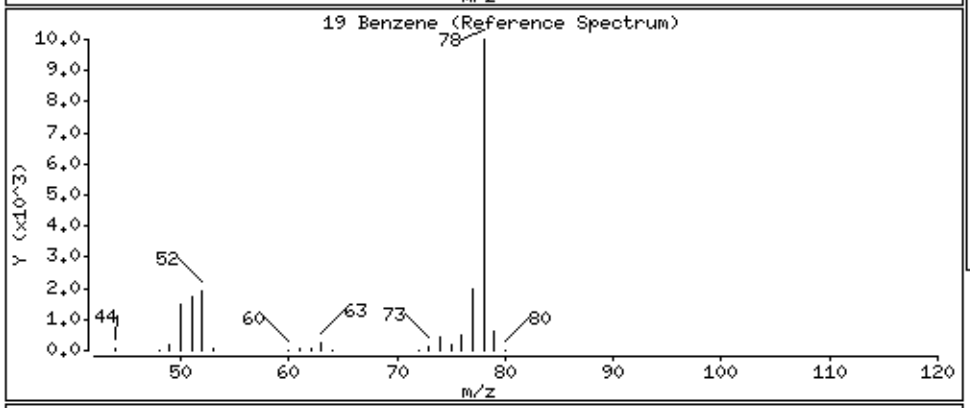
Column diameter: 0.25

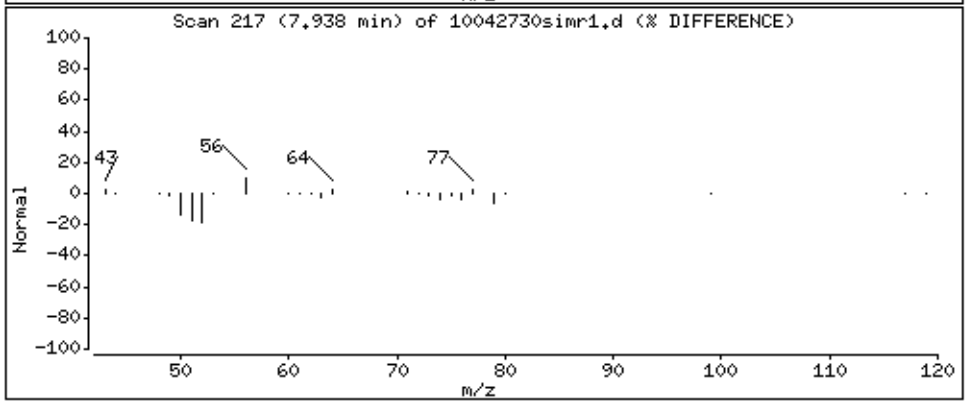
19 Benzene

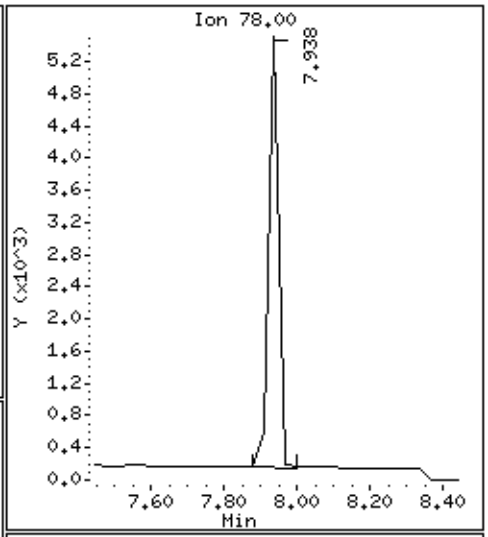
Concentration: 0.444854 ug

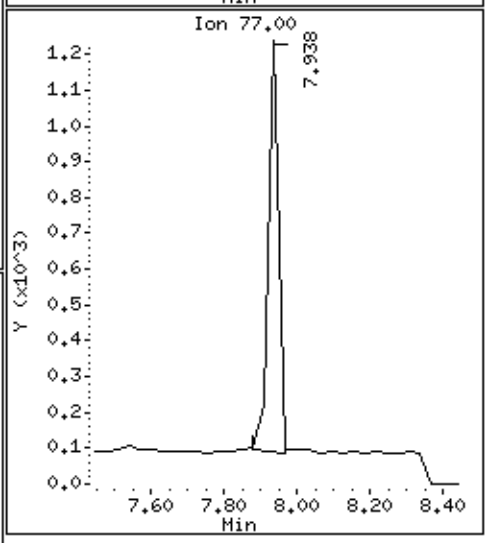












Data File: /chem/msd10.i/27Apr2015.b/10042730simr1.d

Date : 27-APR-2015 19:24

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-05A;

Volume Injected (uL): 1.0

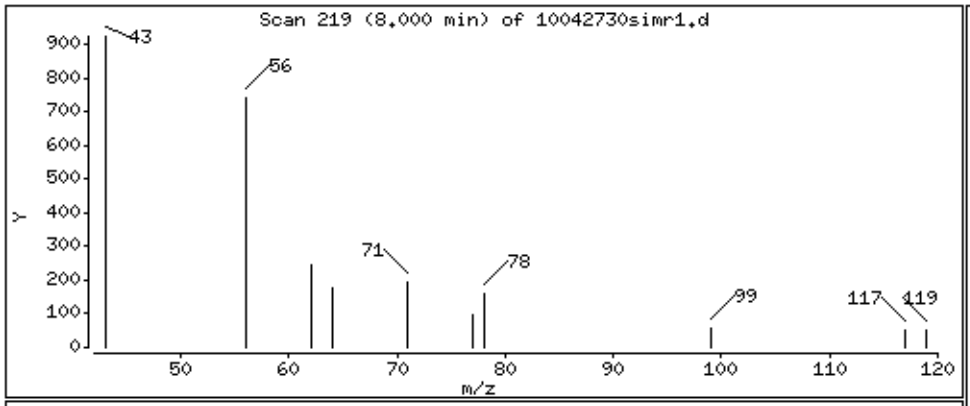
Operator: gm

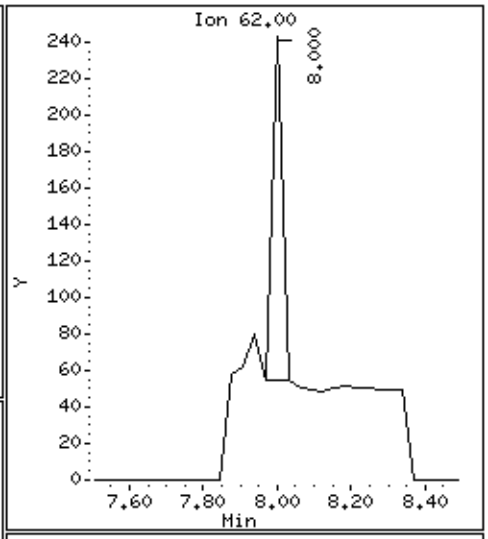
Column phase: DB-5.625

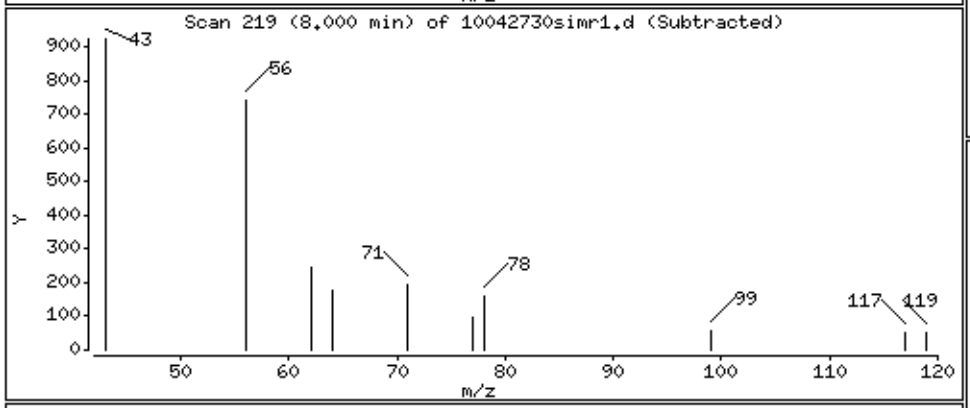
Column diameter: 0.25

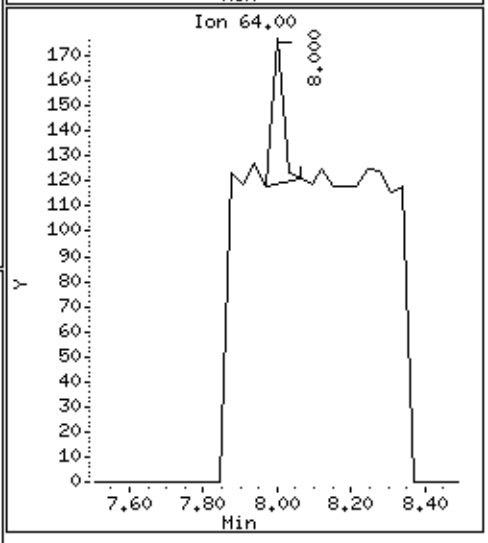
20 1,2-Dichloroethane

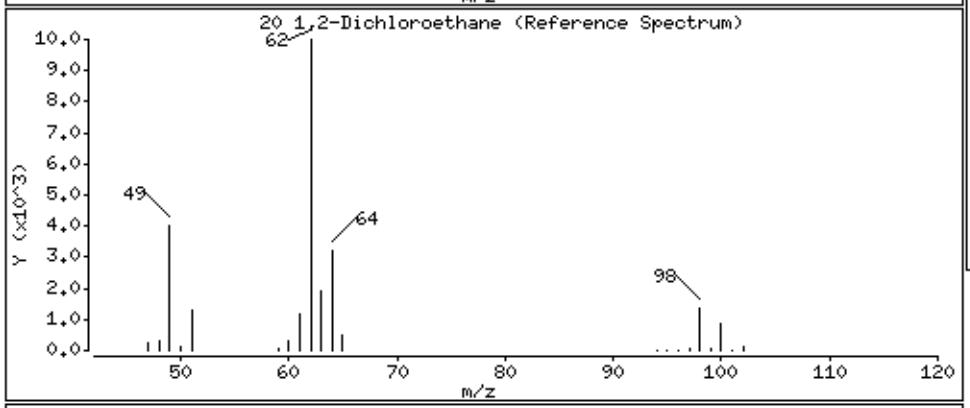
Concentration: 0.0333088 ug

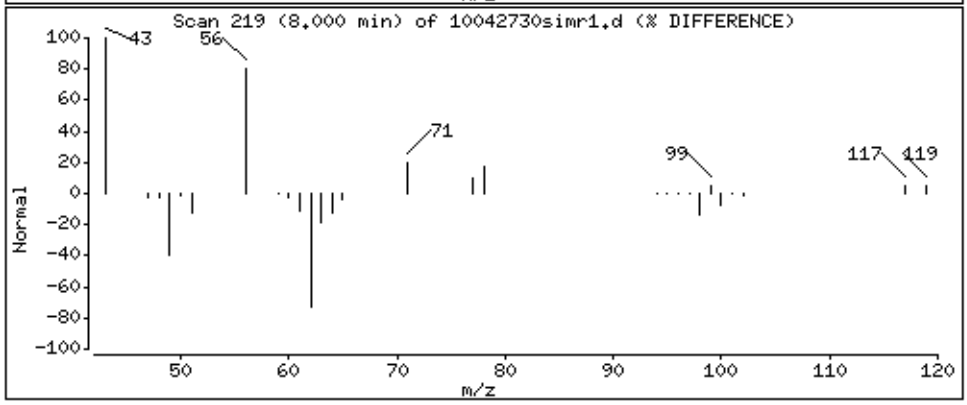












Data File: /chem/msd10.i/27Apr2015.b/10042730simr1.d

Date : 27-APR-2015 19:24

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-05A;

Volume Injected (uL): 1.0

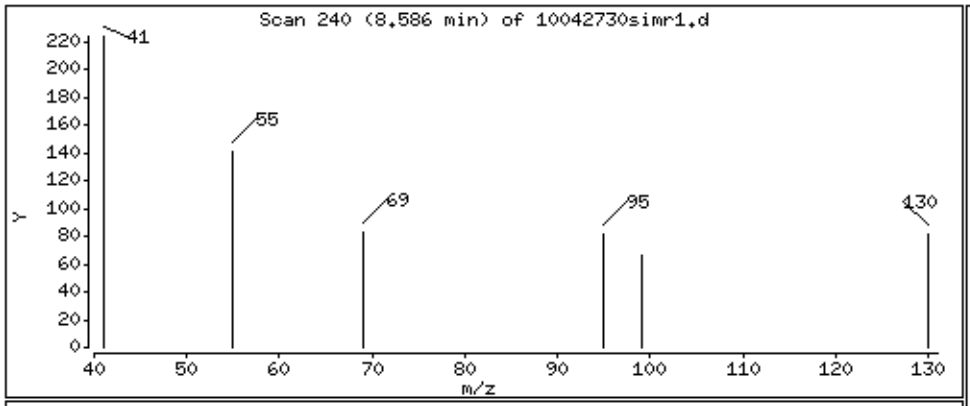
Operator: gm

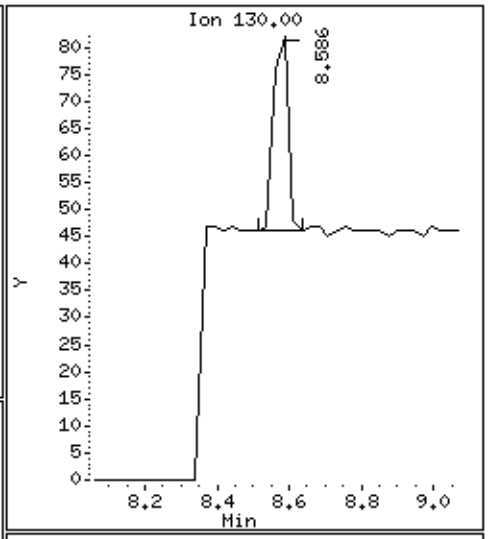
Column phase: DB-5.625

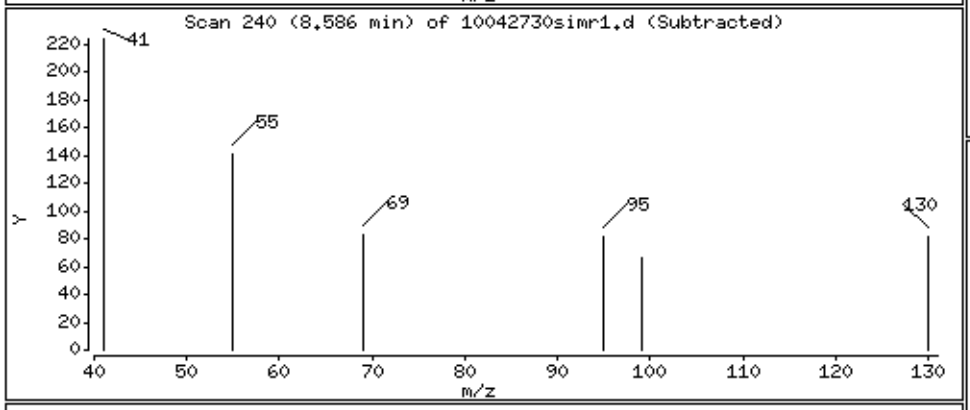
Column diameter: 0.25

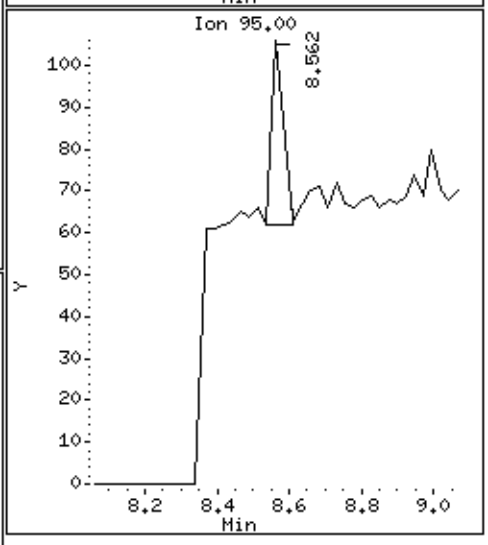
22 Trichloroethene

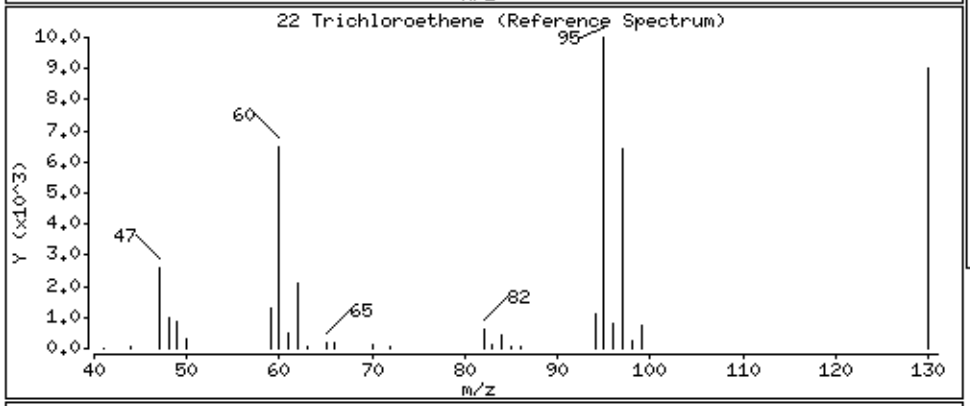
Concentration: 0.0129174 ug

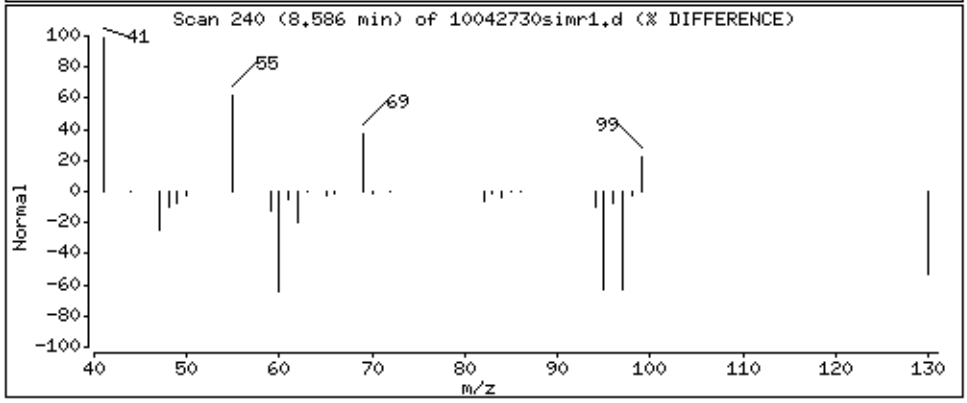












Data File: /chem/msd10.i/27Apr2015.b/10042730simr1.d

Date : 27-APR-2015 19:24

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-05A;

Volume Injected (uL): 1.0

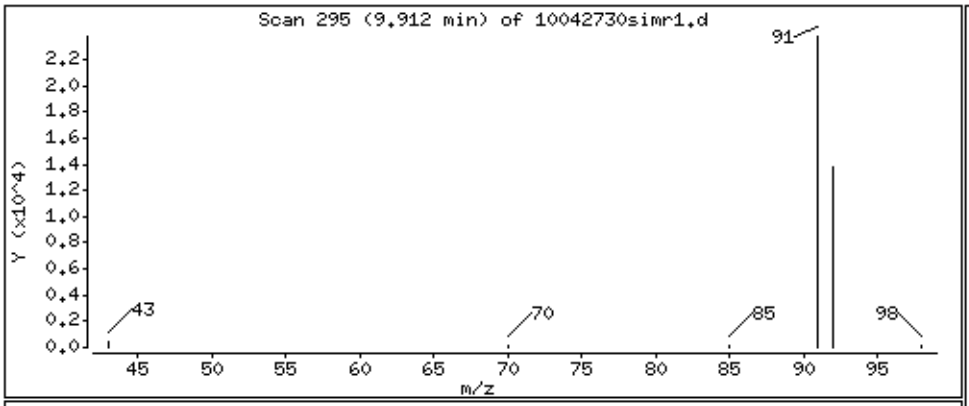
Operator: gm

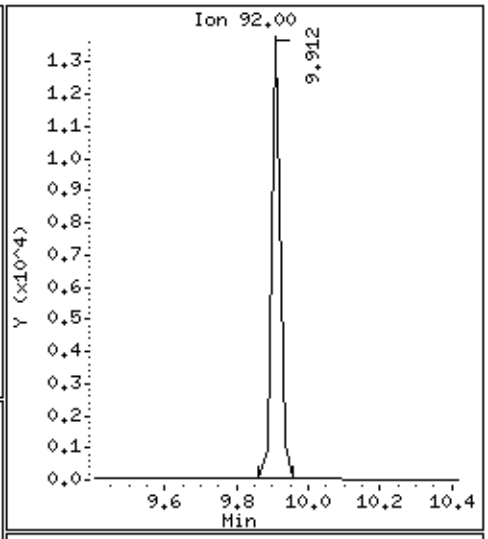
Column phase: DB-5.625

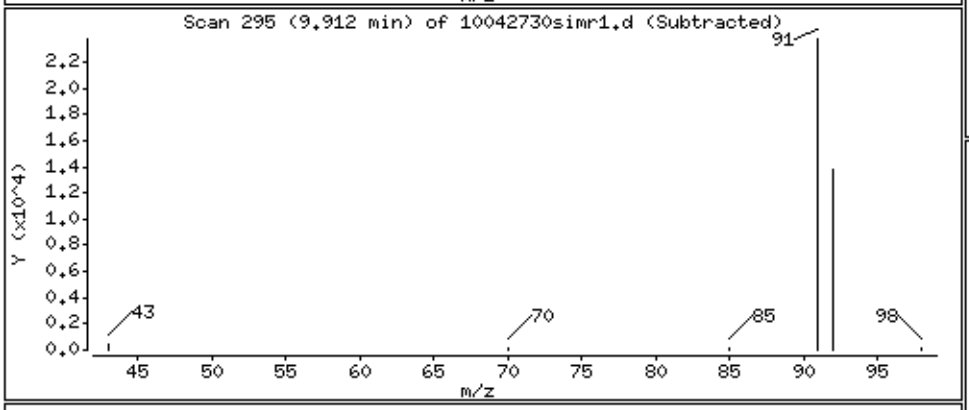
Column diameter: 0.25

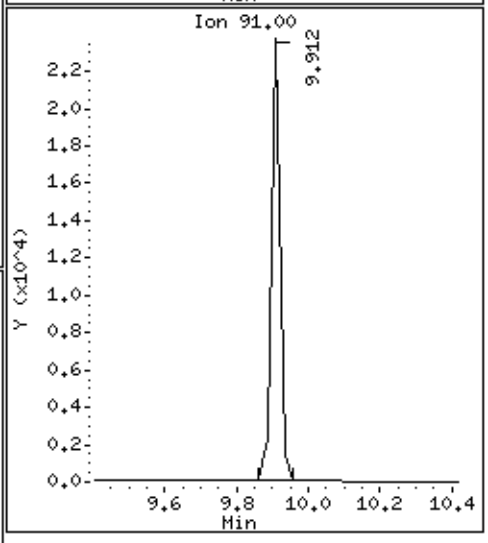
28 Toluene-CCC

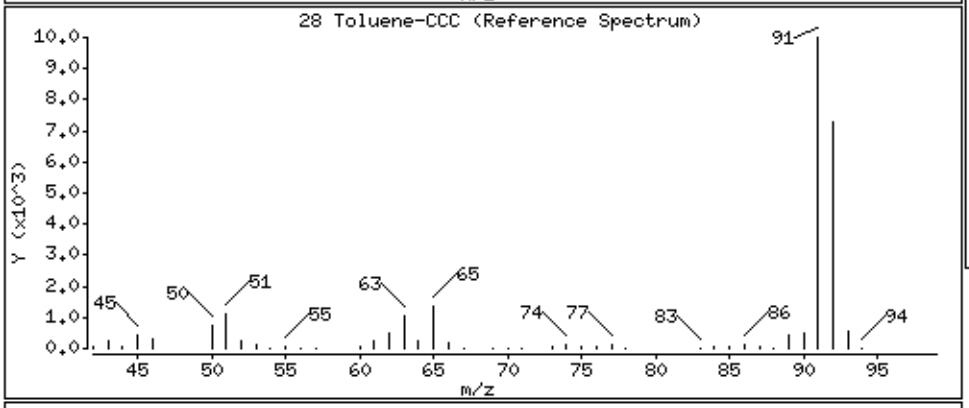
Concentration: 0.987129 ug

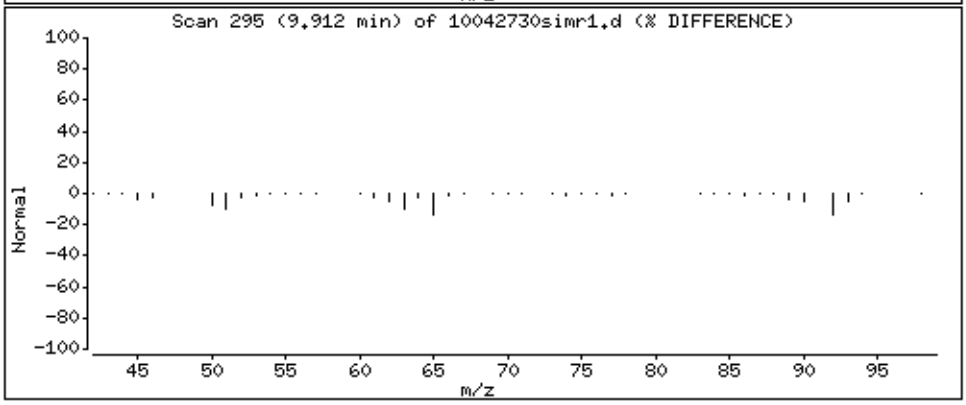












Data File: /chem/msd10.i/27Apr2015.b/10042730simr1.d

Date : 27-APR-2015 19:24

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-05A;

Volume Injected (uL): 1.0

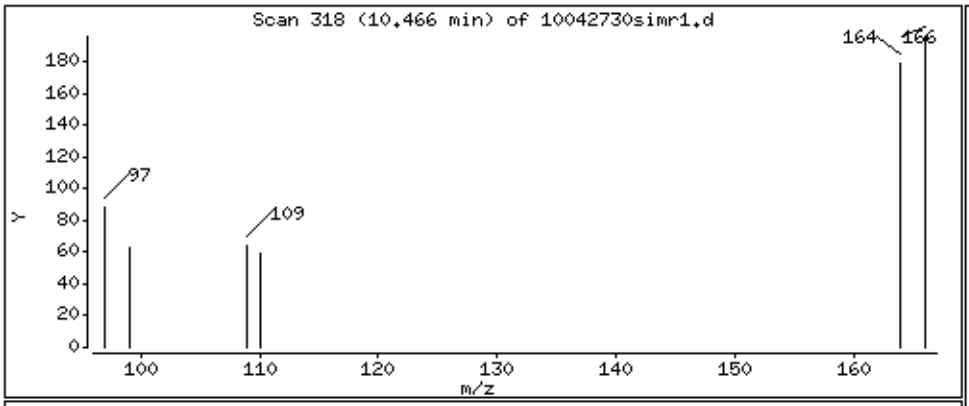
Operator: gm

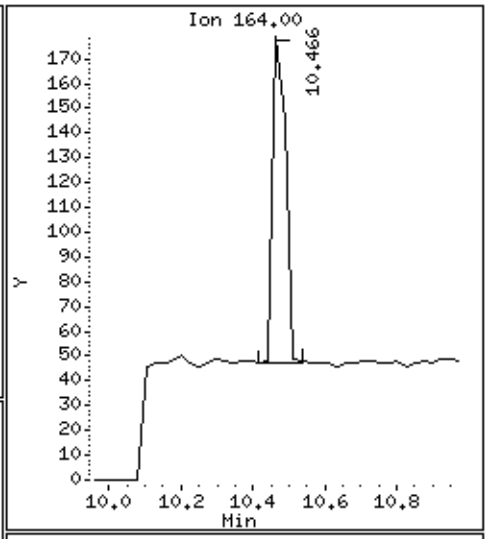
Column phase: DB-5.625

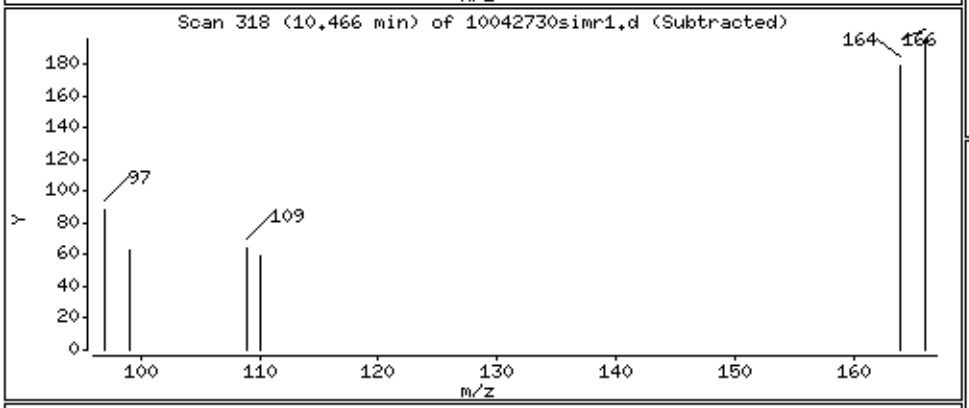
Column diameter: 0.25

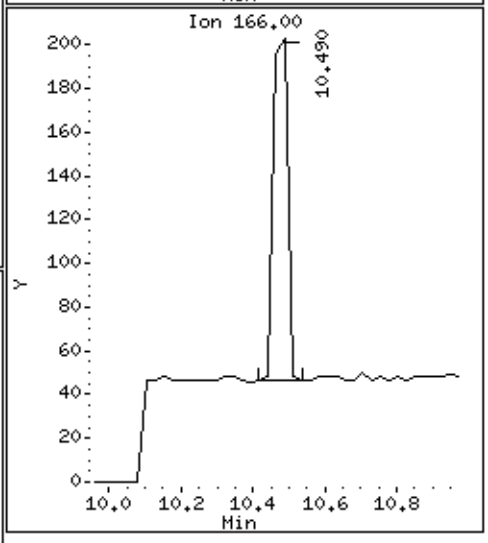
31 Tetrachloroethene

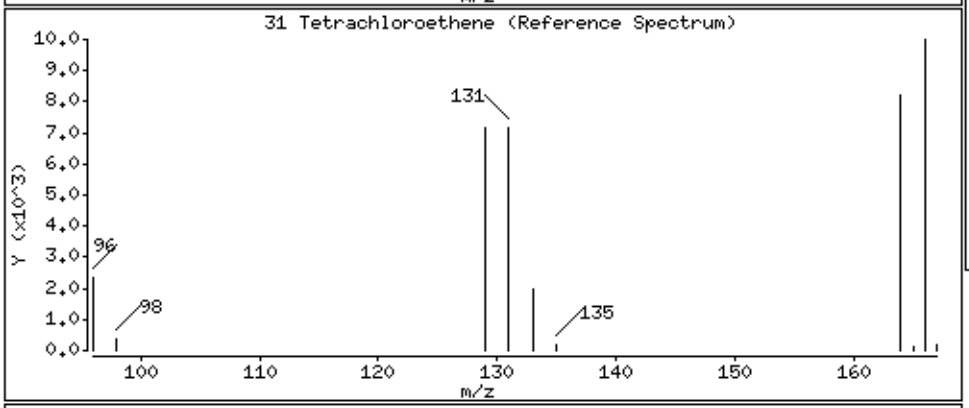
Concentration: 0.0462269 ug

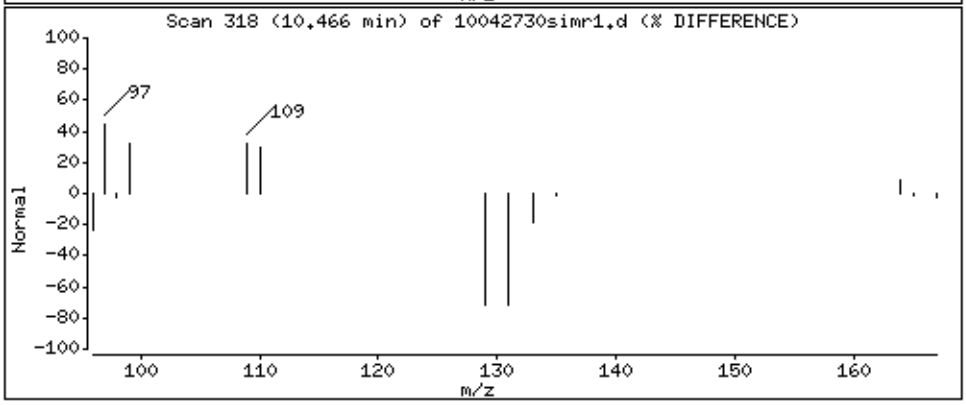












Data File: /chem/msd10.i/27Apr2015.b/10042730simr1.d

Date : 27-APR-2015 19:24

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-05A;

Volume Injected (uL): 1.0

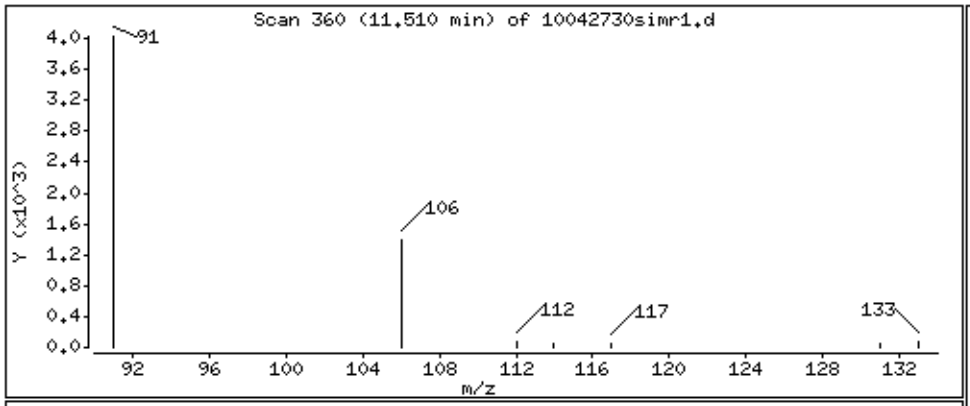
Operator: gm

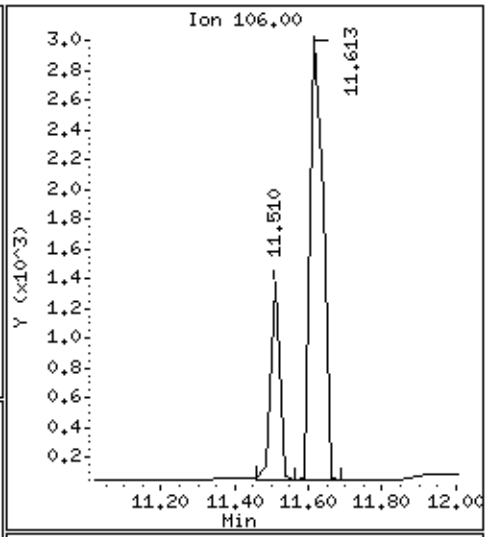
Column phase: DB-5.625

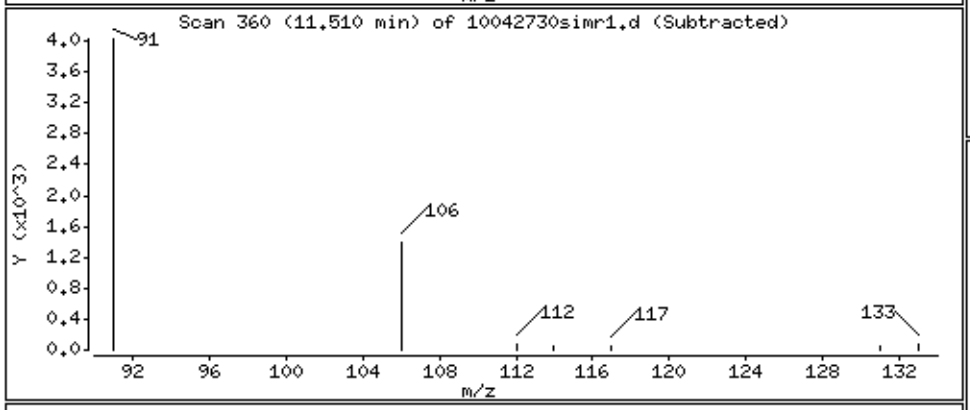
Column diameter: 0.25

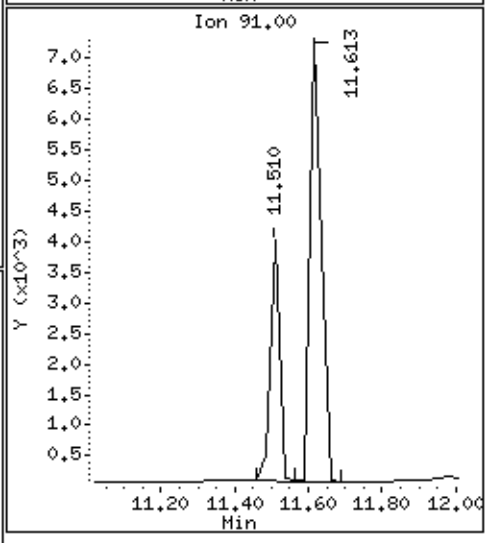
33 Ethylbenzene-CCC

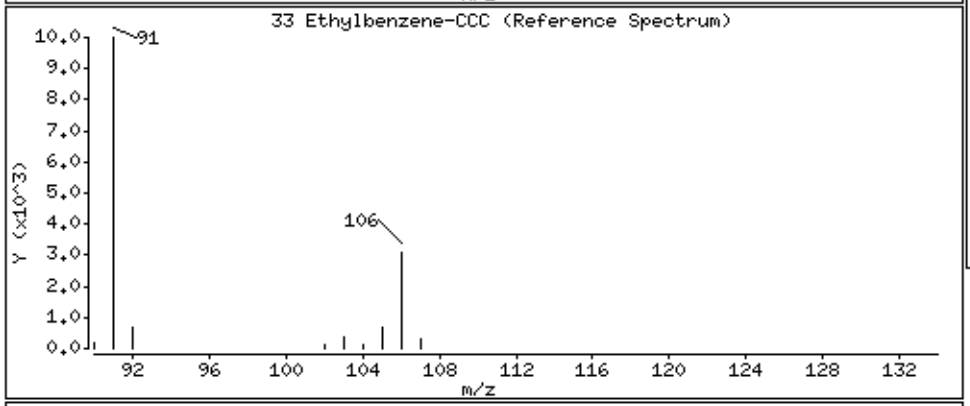
Concentration: 0.141833 ug

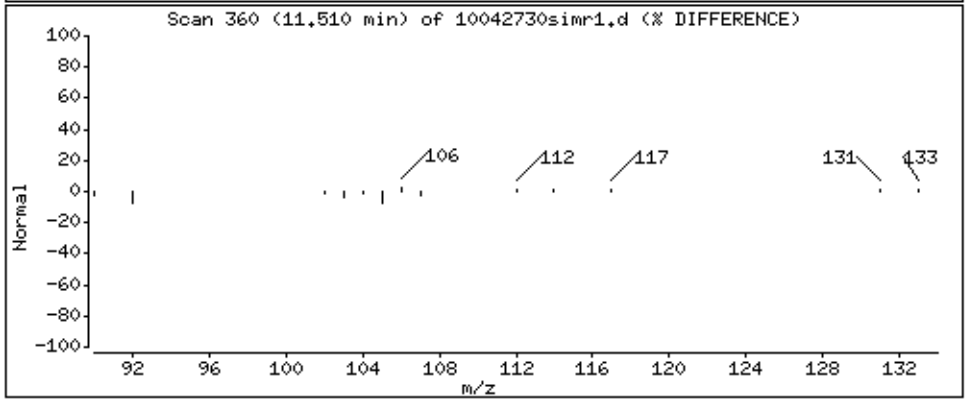












Data File: /chem/msd10.i/27Apr2015.b/10042730simr1.d

Date : 27-APR-2015 19:24

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-05A;

Volume Injected (uL): 1.0

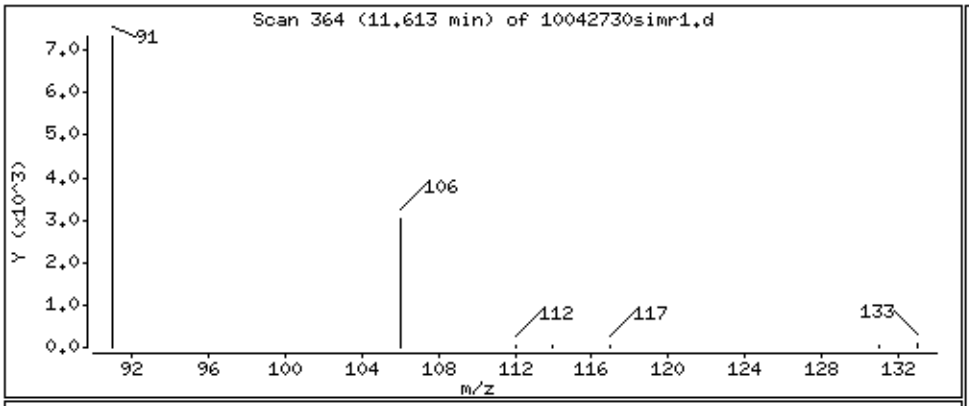
Operator: gm

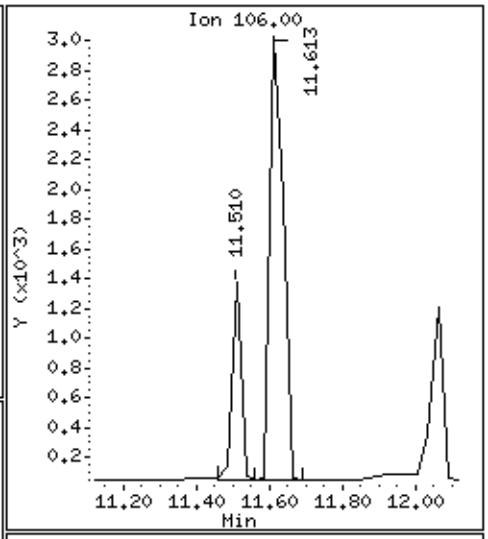
Column phase: DB-5.625

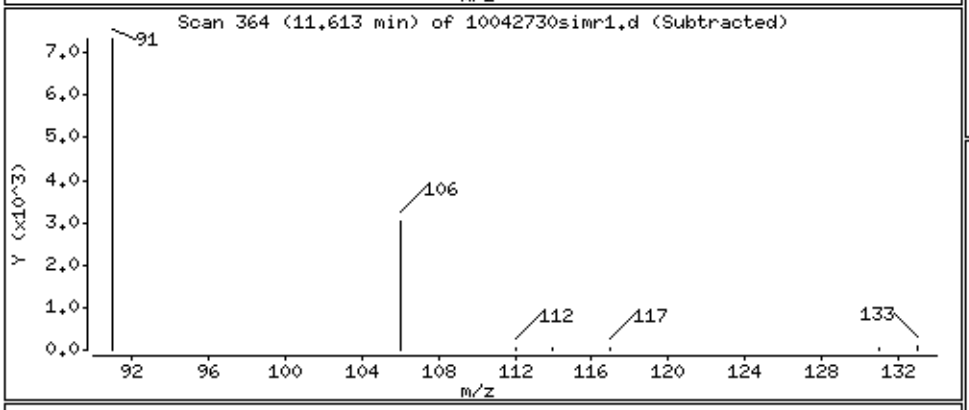
Column diameter: 0.25

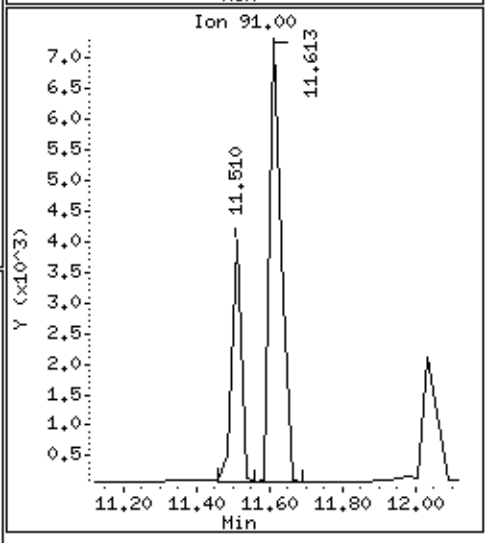
34 m,p-Xylene

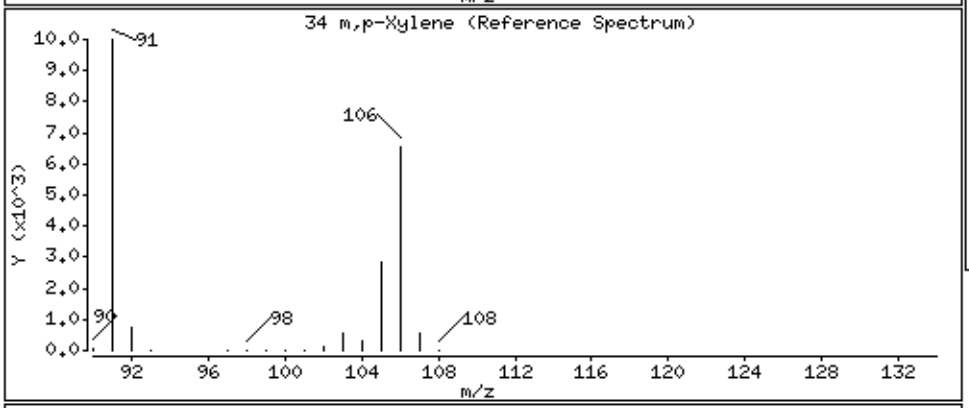
Concentration: 0.456166 ug

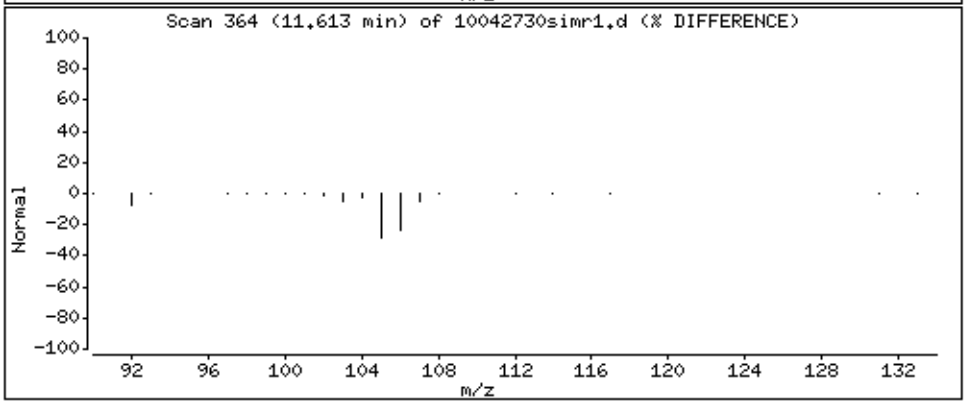












Data File: /chem/msd10.i/27Apr2015.b/10042730simr1.d

Date : 27-APR-2015 19:24

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-05A;

Volume Injected (uL): 1.0

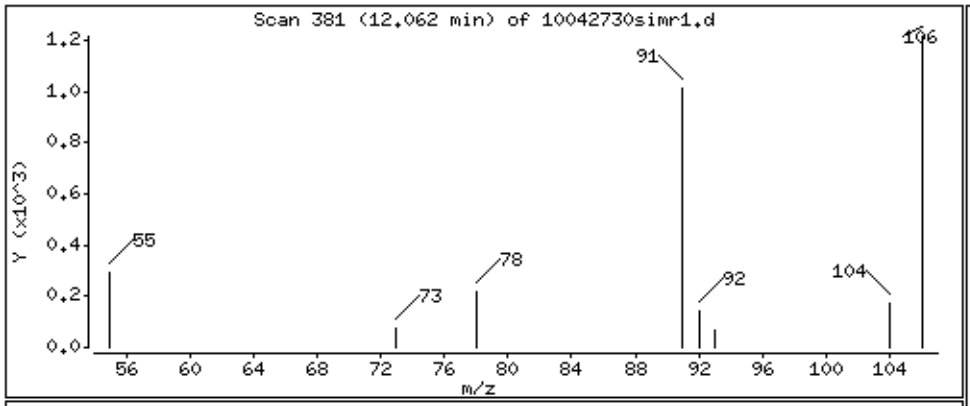
Operator: gm

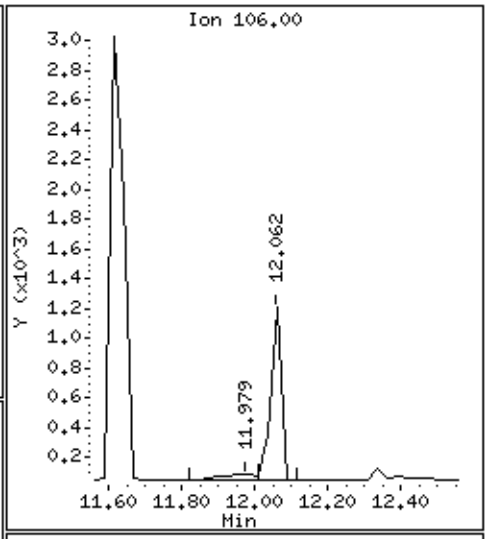
Column phase: DB-5.625

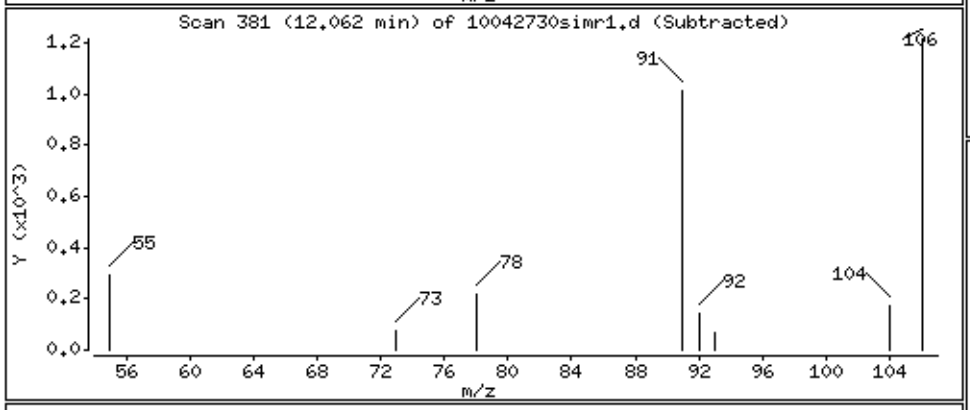
Column diameter: 0.25

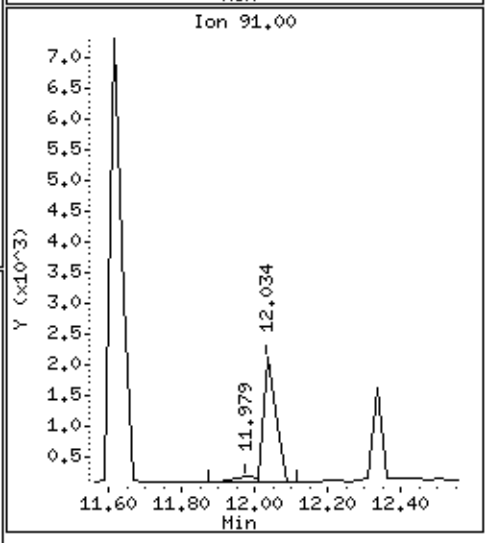
36 o-Xylene

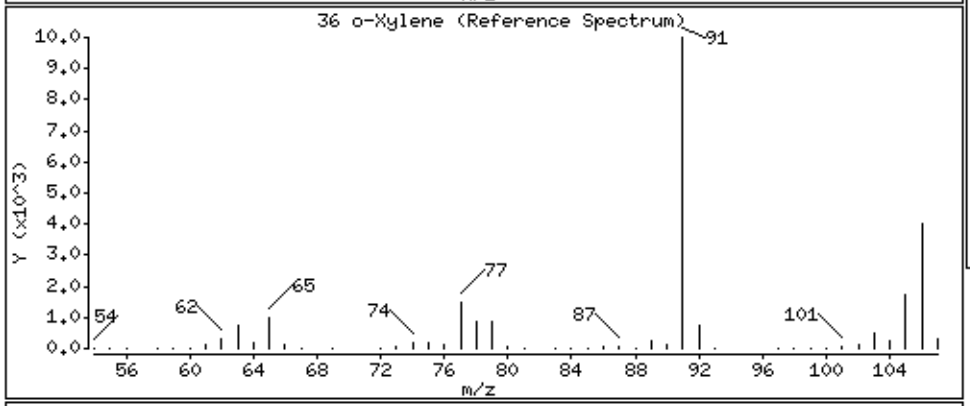
Concentration: 0.152932 ug

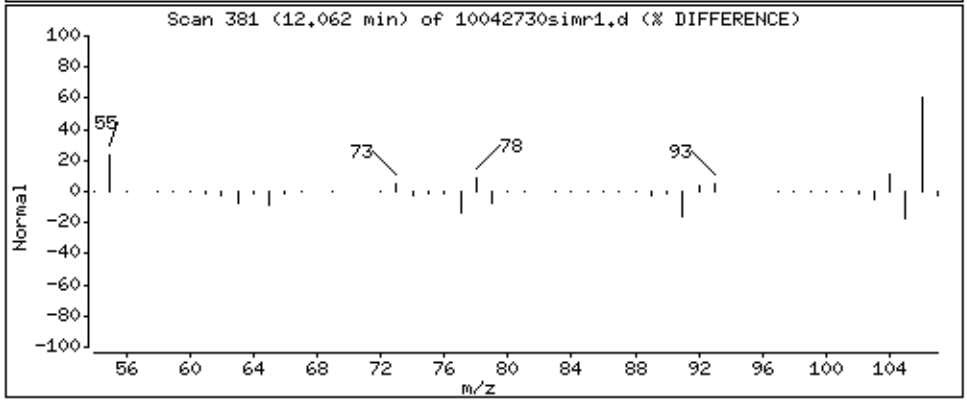












Data File: /chem/msd10.i/27Apr2015.b/10042730simr1.d

Date : 27-APR-2015 19:24

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-05A;

Volume Injected (uL): 1.0

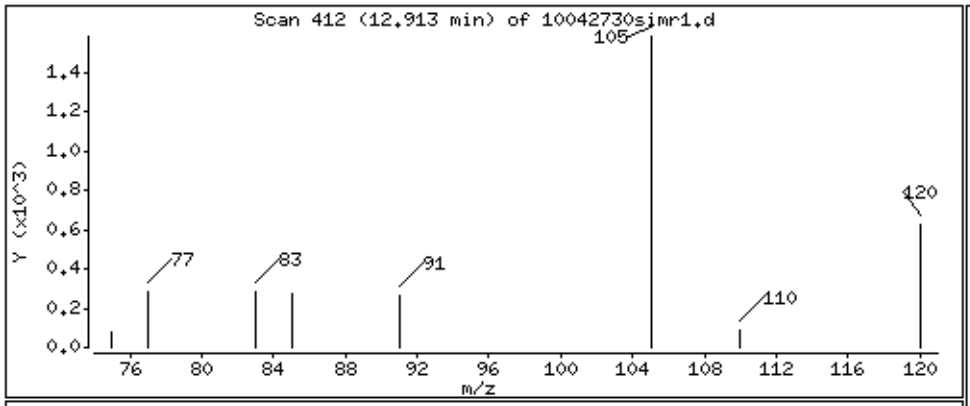
Operator: gm

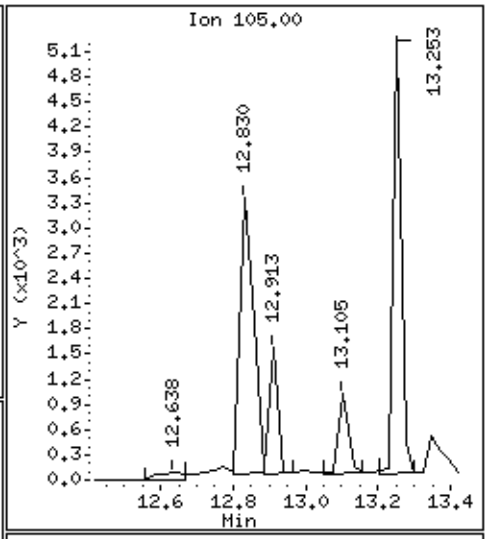
Column phase: DB-5.625

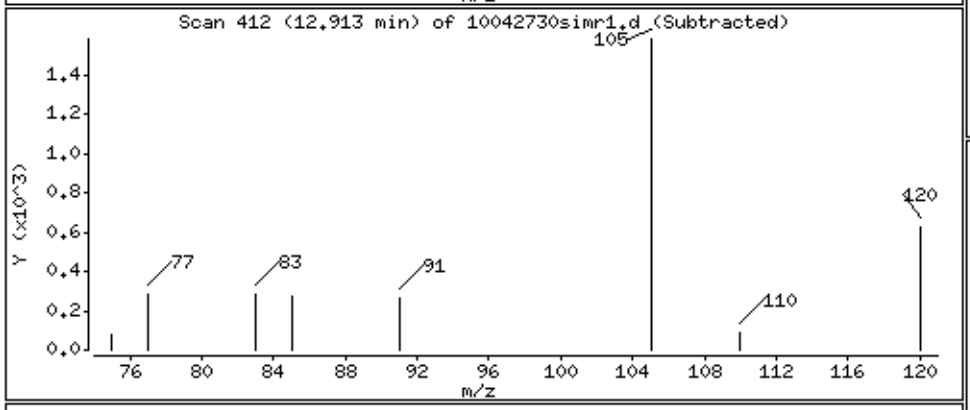
Column diameter: 0.25

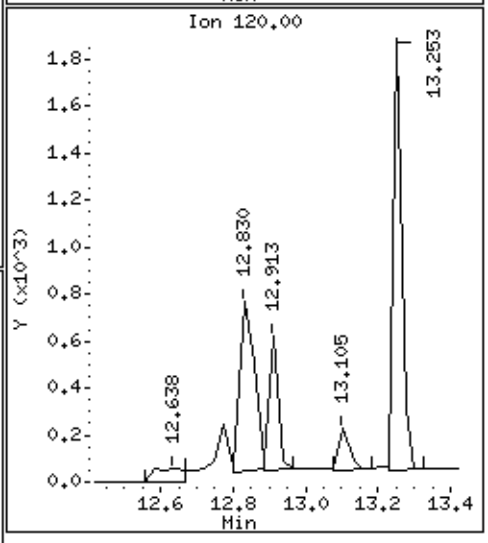
41 1,3,5-Trimethylbenzene

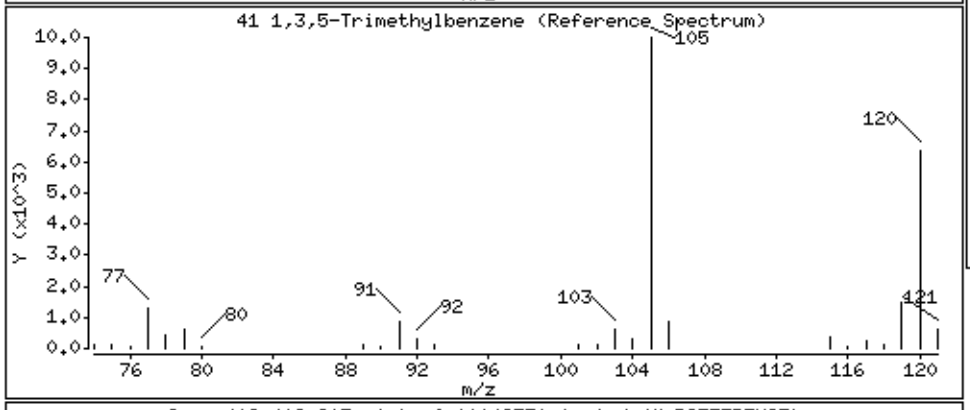
Concentration: 0.0500851 ug

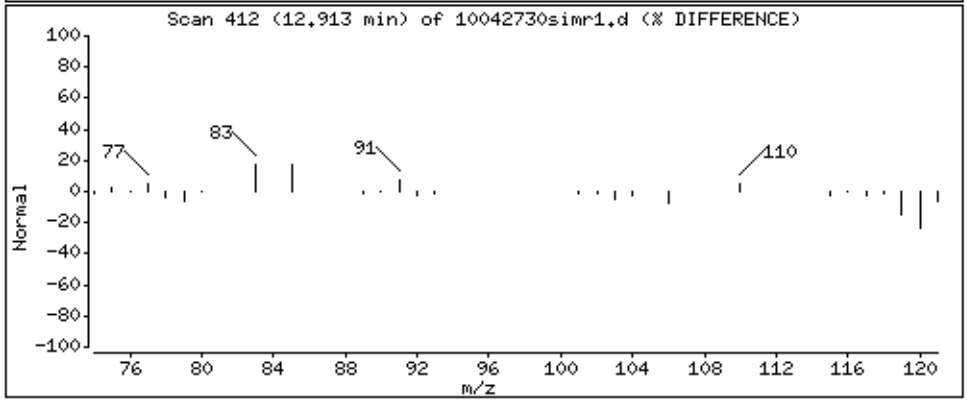












Data File: /chem/msd10.i/27Apr2015.b/10042730simr1.d

Date : 27-APR-2015 19:24

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-05A;

Volume Injected (uL): 1.0

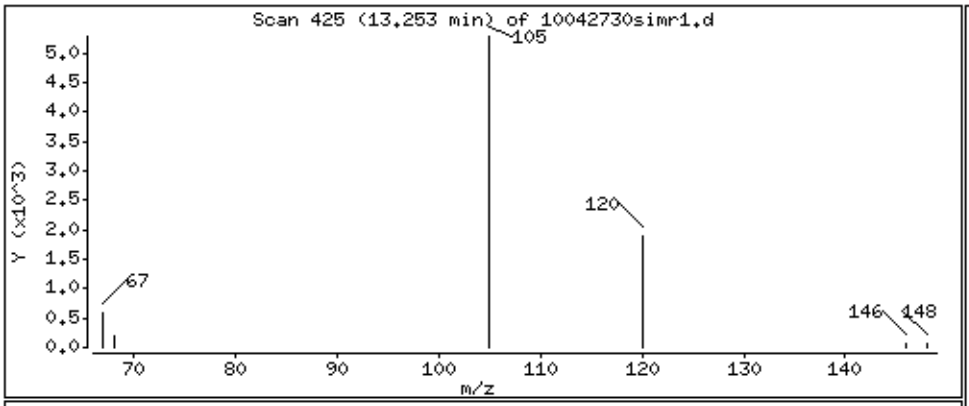
Operator: gm

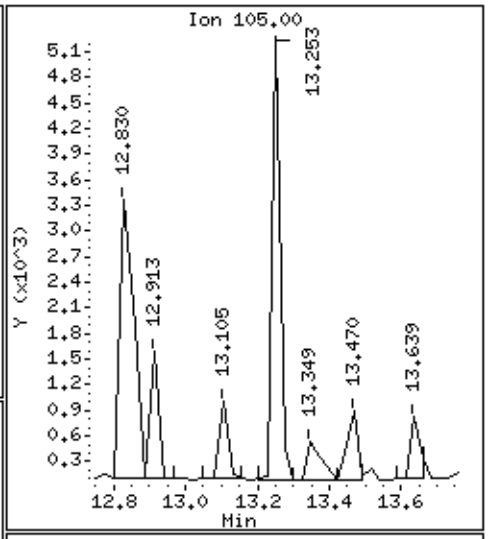
Column phase: DB-5.625

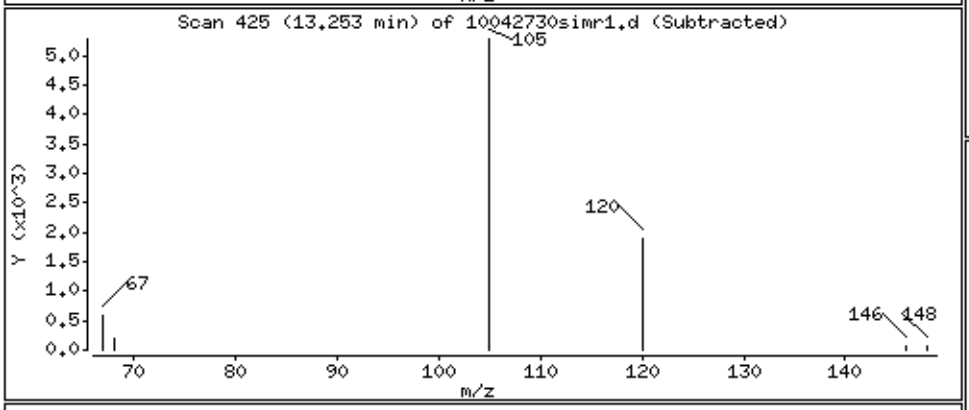
Column diameter: 0.25

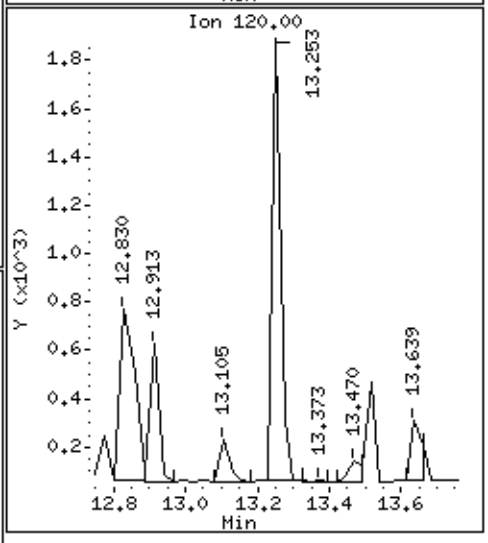
42 1,2,4-Trimethylbenzene

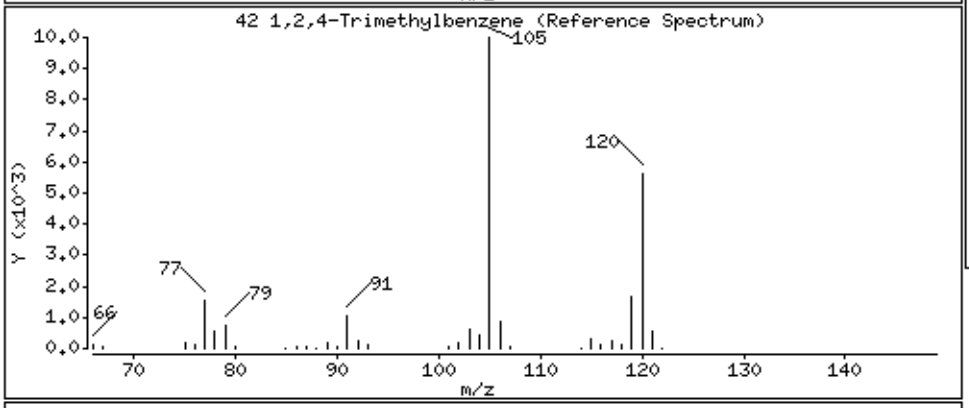
Concentration: 0.186464 ug

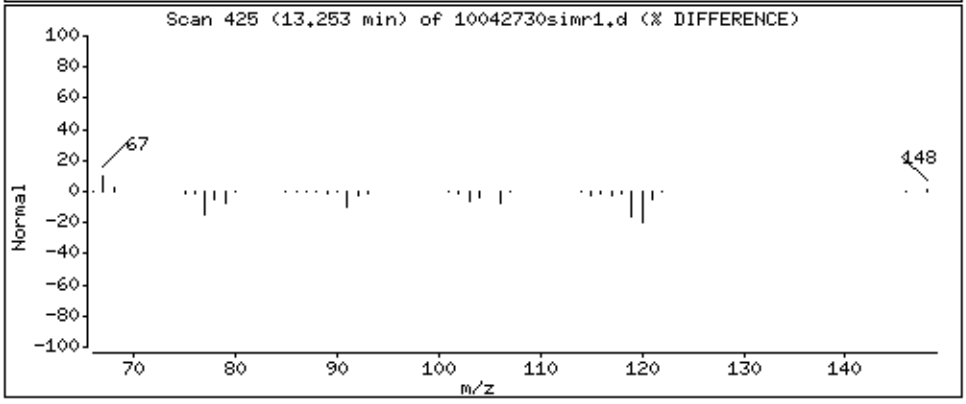












Data File: /chem/msd10.i/27Apr2015.b/10042730simr1.d

Date : 27-APR-2015 19:24

Client ID:

Instrument: msd10.i

Sample Info: ;1504459R1-05A;

Volume Injected (uL): 1.0

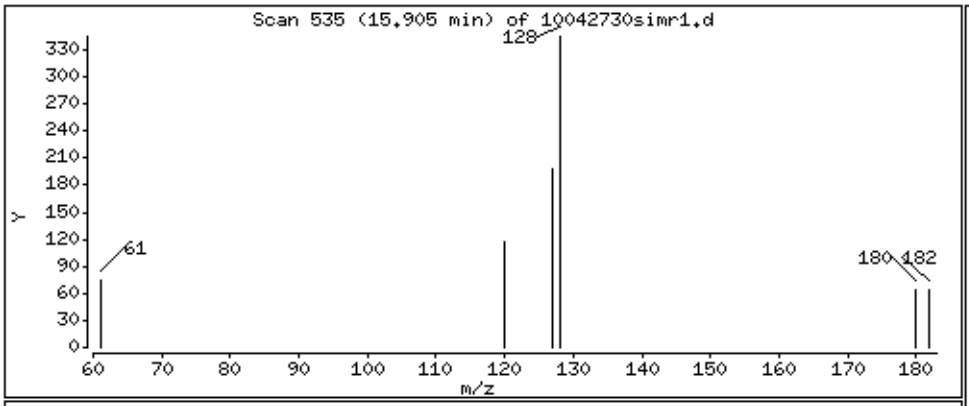
Operator: gm

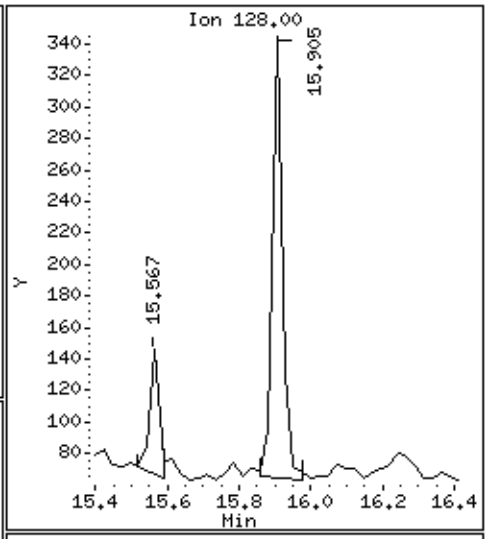
Column phase: DB-5.625

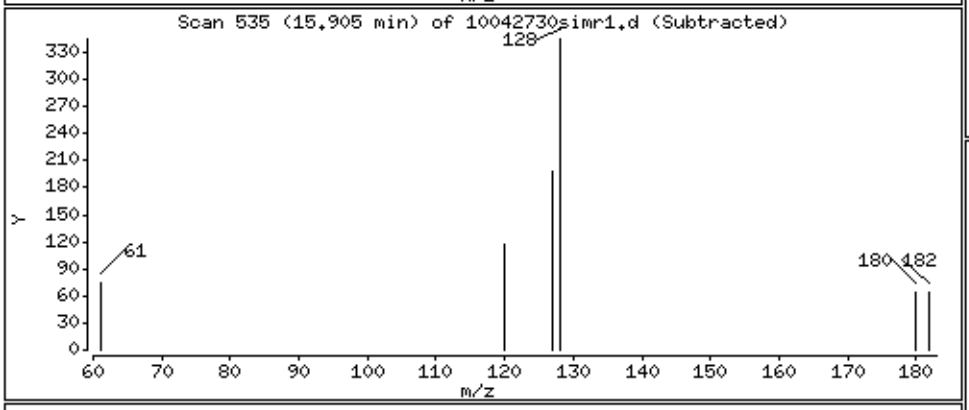
Column diameter: 0.25

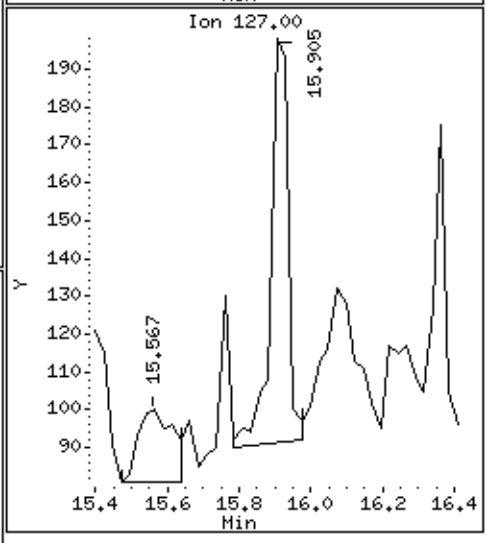
49 Naphthalene

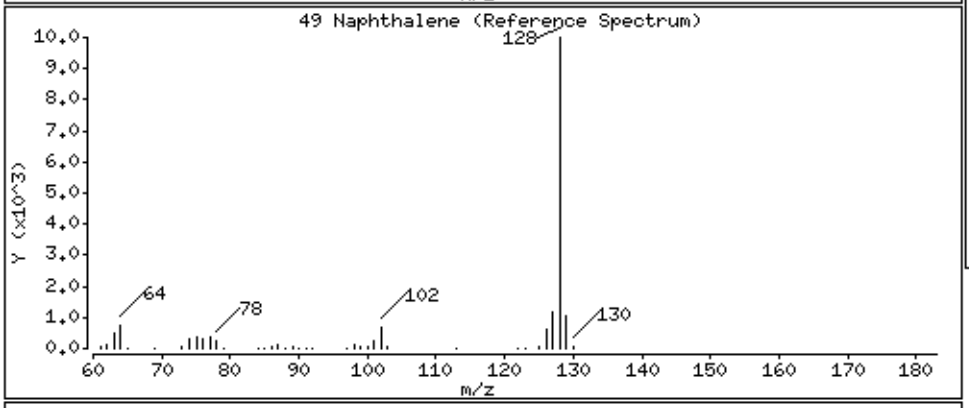
Concentration: 0.00828208 ug

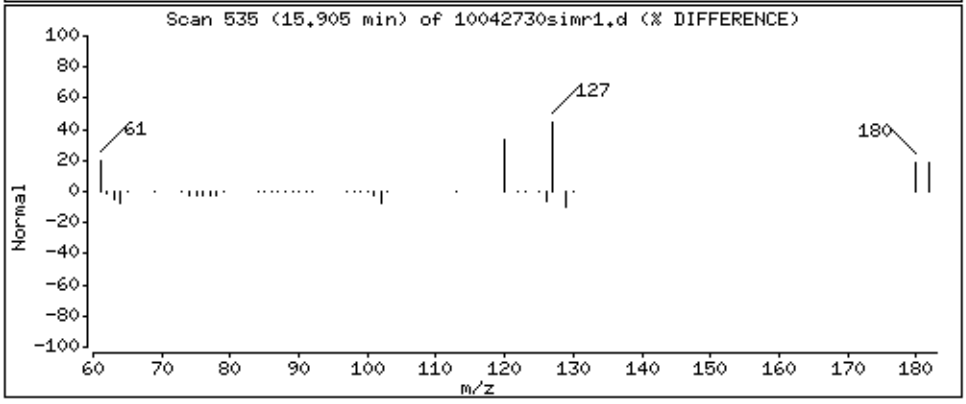












QC Results and Raw Data

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1504459R1-06A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**10042724sima**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/27/15 05:01 PM**	
		Date of Extraction: 4/27/15	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Benzene	0.40	0.50	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.13	Not Detected	Not Detected
Trichloroethene	0.10	0.14	Not Detected	Not Detected
Toluene	0.10	0.13	0.017 J	0.023 J
Tetrachloroethene	0.10	0.17	Not Detected	Not Detected
Ethyl Benzene	0.10	0.14	Not Detected	Not Detected
m,p-Xylene	0.10	0.14	Not Detected	Not Detected
o-Xylene	0.10	0.15	Not Detected	Not Detected
Naphthalene	0.10	0.40	0.0038 J	0.015 J
1,1-Dichloroethane	0.10	0.16	Not Detected C	Not Detected C
1,1-Dichloroethene	0.40	0.52	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.16	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.33	Not Detected C	Not Detected C
1,1,2-Trichloroethane	0.10	0.15	Not Detected C	Not Detected C
1,2,4-Trimethylbenzene	0.10	0.20	Not Detected	Not Detected
1,3,5-Trimethylbenzene	0.10	0.19	Not Detected C	Not Detected C
Vinyl Chloride	0.40	0.44	Not Detected C	Not Detected C

J = Estimated value.
C = Estimated concentration due to calculated sampling rate.

Temperature = 77.0F , duration time = 10095 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130

Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msd10.i/27Apr2015.b/10042724sima.d
Lab Smp Id: 1504283/459 Client Smp ID: LAB BLANK
Inj Date : 27-APR-2015 17:01
Operator : gm Inst ID: msd10.i
Smp Info : ;1504283/459;LAB BLANK
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Meth Date : 08-May-2015 15:50 gmash Quant Type: ISTD
Cal Date : 27-APR-2015 11:01 Cal File: 10042709sim.d
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Gilbane.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
2	Vinyl Chloride	62	Compound Not Detected.					
4	1,1-Dichloroethene-CCC	96	Compound Not Detected.					
8	trans-1,2-Dichloroethene	96	Compound Not Detected.					
11	1,1-Dichloroethane-SPCC	63	Compound Not Detected.					
14	cis-1,2-Dichloroethene	96	Compound Not Detected.					
17	1,1,1-Trichloroethane	97	Compound Not Detected.					
19	Benzene	78	Compound Not Detected.					
20	1,2-Dichloroethane	62	Compound Not Detected.					
22	Trichloroethene	130	Compound Not Detected.					
$ 26	Toluene-d8	98	9.839	9.839	(0.969)	246884	4.99764	9.99529
28	Toluene-CCC	92	9.912	9.912	(0.976)	354	0.00846	0.0169120(a)
* 29	2-Fluorotoluene	109	10.152	10.153	(1.000)	273388	5.00000	
30	1,1,2-Trichloroethane	97	Compound Not Detected.					
31	Tetrachloroethene	164	Compound Not Detected.					
33	Ethylbenzene-CCC	106	Compound Not Detected.					
34	m,p-Xylene	106	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
36 o-Xylene	106	Compound Not Detected.					
41 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
42 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
49 Naphthalene	128	15.905	15.905	(1.567)	235	0.00188	0.00375492(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd10.i
Lab File ID: 10042724sima.d
Lab Smp Id: 1504283/459
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

Calibration Date: 27-APR-2015
Calibration Time: 11:01
Client Smp ID: LAB BLANK
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	216118	108059	432236	273388	26.50

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 08-May-2015 15:51

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 27Apr2015
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 1504283/459 Client Smp ID: LAB BLANK
Level: MED Operator: gm
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS-CM.spk Quant Type: ISTD
Sublist File: Gilbane.sub
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 26 Toluene-d8	10.0000	9.99529	99.95	70-130

Data File: /chem/msd10.i/27Apr2015.b/10042724sima.d

Date : 27-APR-2015 17:01

Client ID: LAB BLANK

Instrument: msd10.i

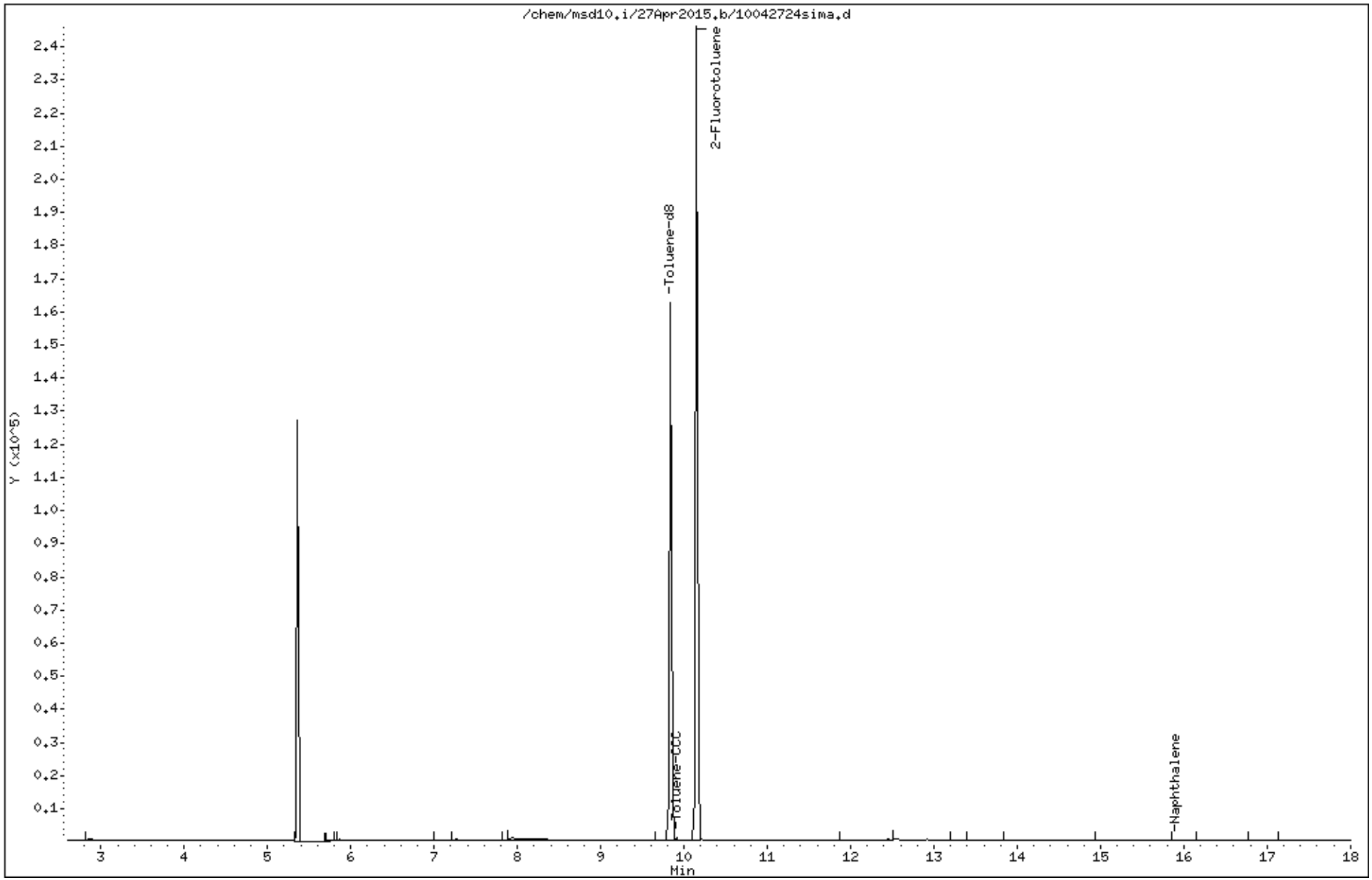
Sample Info: ;1504283/459;LAB BLANK

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msd10.i/27Apr2015.b/10042724sima.d

Date : 27-APR-2015 17:01

Client ID: LAB BLANK

Instrument: msd10.i

Sample Info: ;1504283/459;LAB BLANK

Volume Injected (uL): 1.0

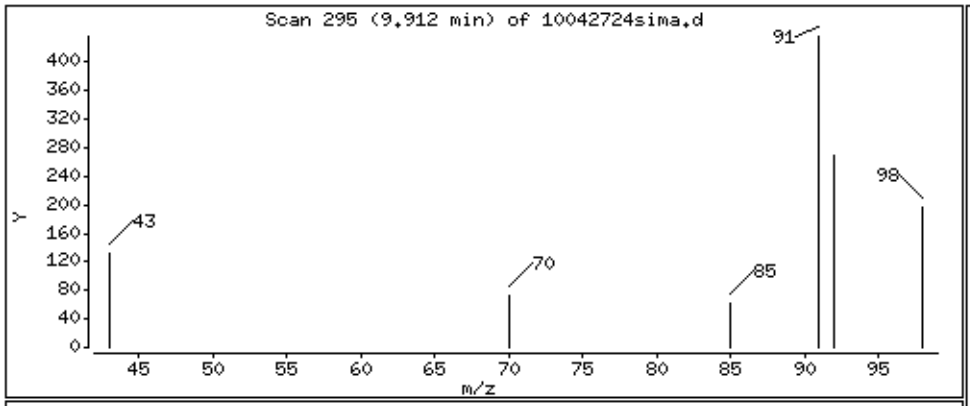
Operator: gm

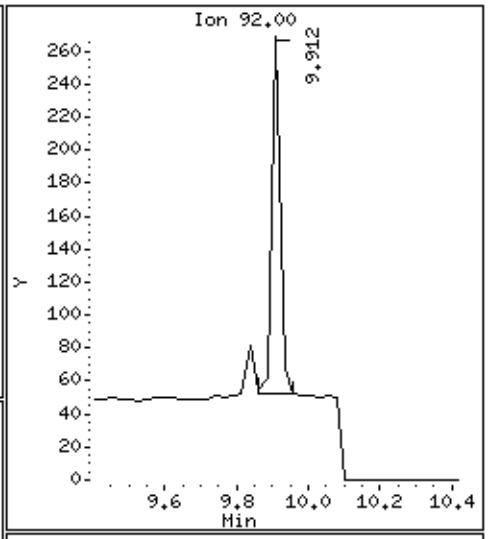
Column phase: DB-5.625

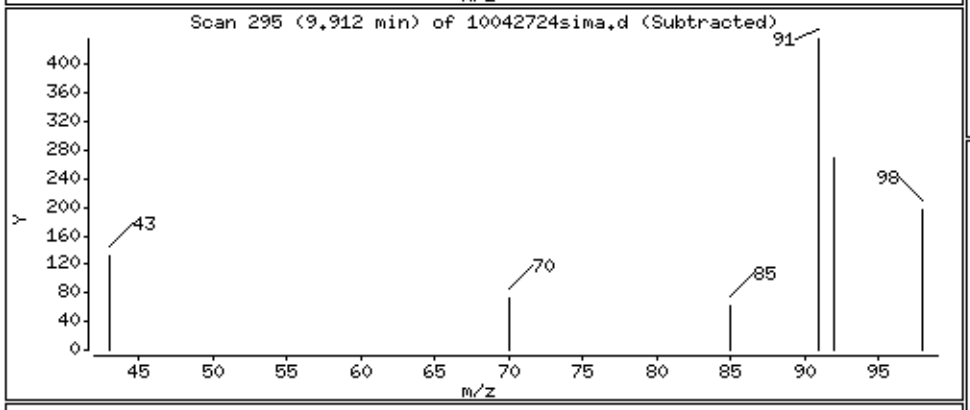
Column diameter: 0.25

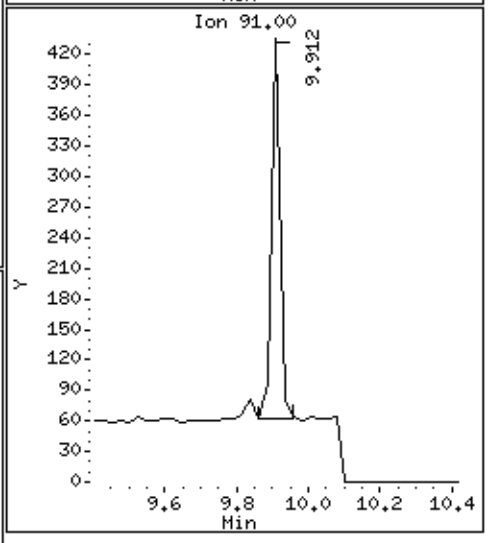
28 Toluene-CCC

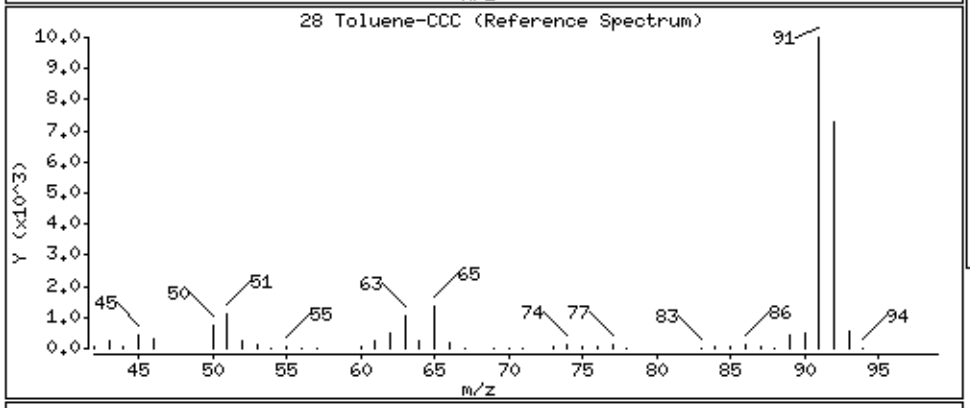
Concentration: 0.0169120 ug

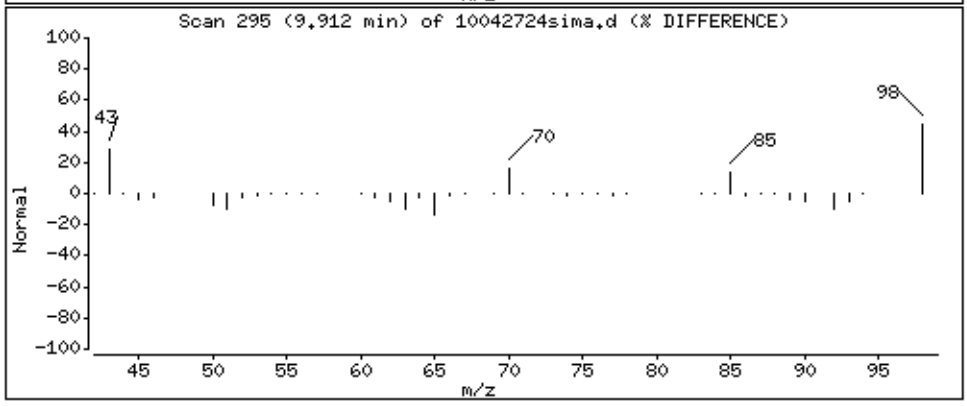












Data File: /chem/msd10.i/27Apr2015.b/10042724sima.d

Date : 27-APR-2015 17:01

Client ID: LAB BLANK

Instrument: msd10.i

Sample Info: ;1504283/459;LAB BLANK

Volume Injected (uL): 1.0

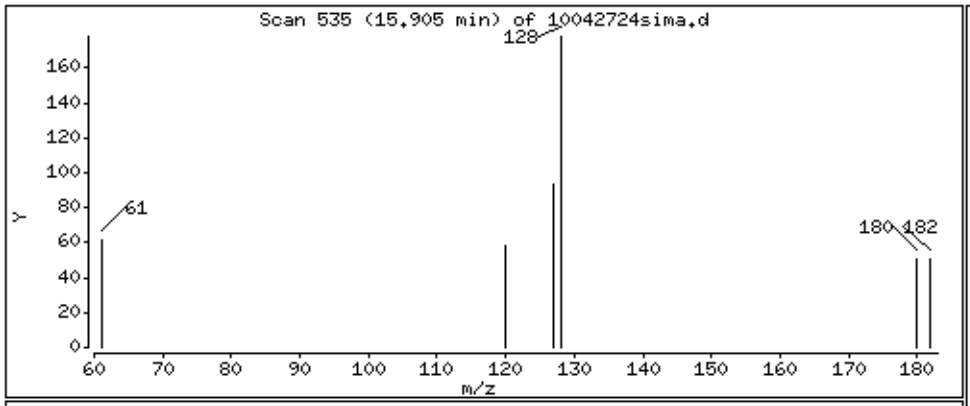
Operator: gm

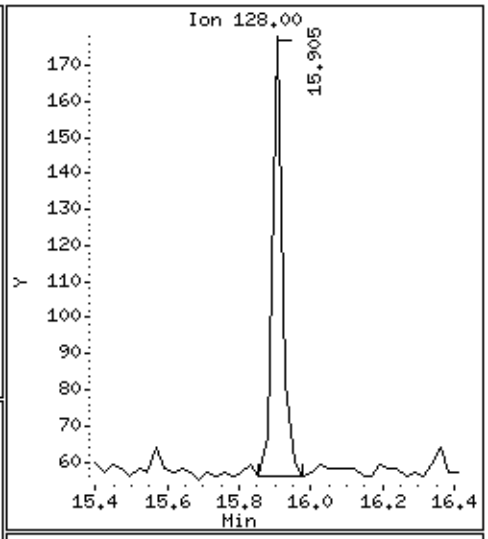
Column phase: DB-5.625

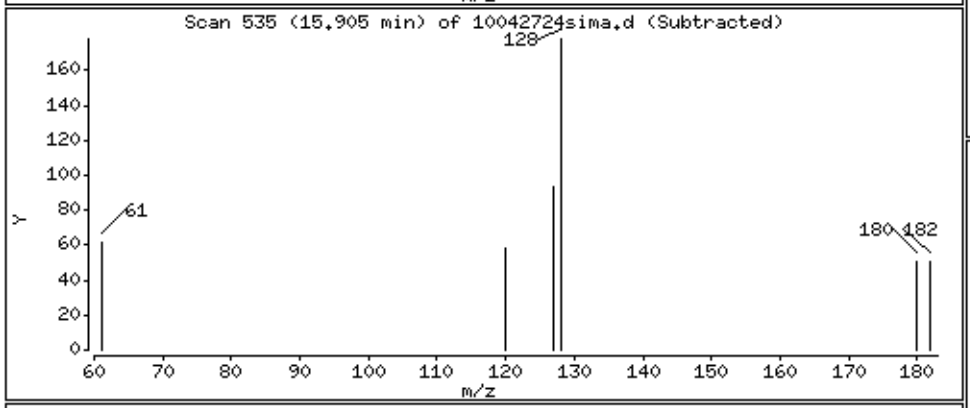
Column diameter: 0.25

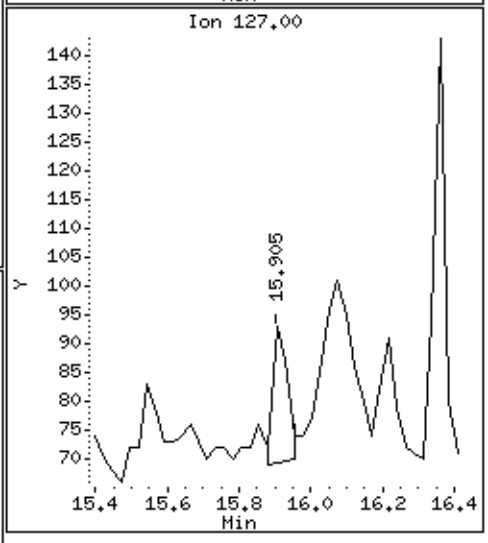
49 Naphthalene

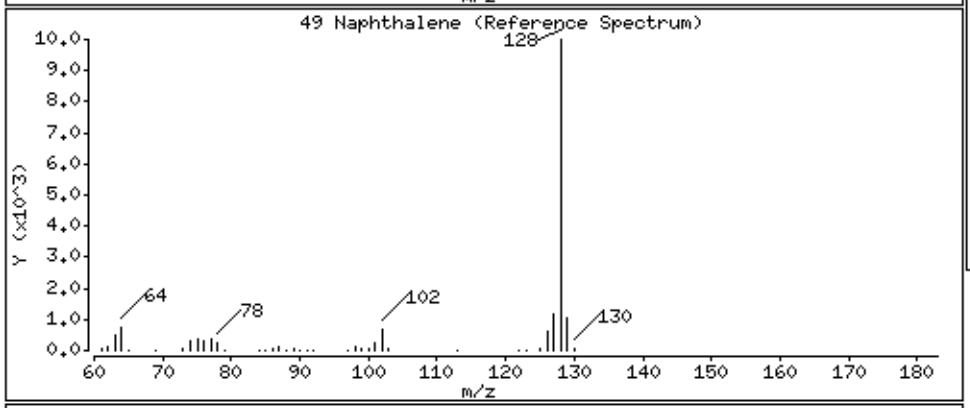
Concentration: 0.00375492 ug

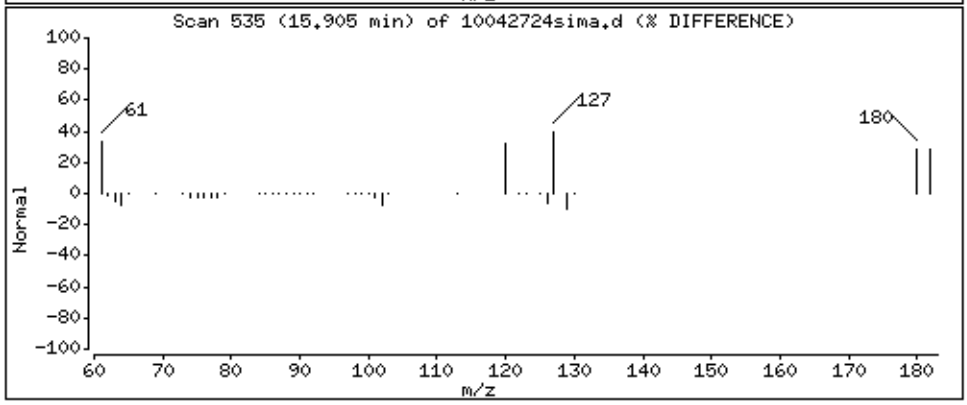












LEVEL-IV VALIDATABLE

VOCS BY PASSIVE SAMPLER - GC/MS

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 1504459R1

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		Toluene-d8	#		#		#		#	TOTAL OUT
01	765NP	100								0
02	764NP	101								0
03	915NP	102								0
04	913NP	100								0
05	914NP	100								0
06	Lab Blank	100								0
07	LCS	102								0
08	LCSD	103								0
09										0
10										0
11										0
12										0
13										0
14										0
15										0
16										0
17										0
18										0
19										0
20										0
21										0
22										0
23										0
24										0

Surrogate Recovery Limits

Toluene-d8 70 - 130

* Designates values outside of QC limits

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: 10042723sim.d & 10042722sim.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 4/27/15 & 4/27/15

CAS Number	Compound	Original Amount	Original Flags	Duplicate Amount	Duplicate Flags	RPD	Result Less Than 5X RL
71-55-6	1,1,1-Trichloroethane	84		86		2.4	
79-00-5	1,1,2-Trichloroethane	89		90		1.1	
75-34-3	1,1-Dichloroethane	80		85		6.1	
75-35-4	1,1-Dichloroethene	68		73		7.1	
95-63-6	1,2,4-Trimethylbenzene	94		95		1.0	
107-06-2	1,2-Dichloroethane	84		84		0	
108-67-8	1,3,5-Trimethylbenzene	100		103		3.0	
71-43-2	Benzene	88		87		1.1	
156-59-2	cis-1,2-Dichloroethene	80		83		3.7	
100-41-4	Ethyl Benzene	98		96		2.1	
108-38-3	m,p-Xylene	92		92		0	
91-20-3	Naphthalene	9.3		9.5		2.1	
95-47-6	o-Xylene	86		83		3.6	
127-18-4	Tetrachloroethene	90		91		1.1	
108-88-3	Toluene	90		90		0	
156-60-5	trans-1,2-Dichloroethene	90		96		6.4	
79-01-6	Trichloroethene	86		87		1.2	
75-01-4	Vinyl Chloride	51		62		19	

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-APR-2015 08:40
End Cal Date : 27-APR-2015 13:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Cal Date : 27-Apr-2015 14:05 gmash
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd10.i/27Apr2015.b/10042703sim.d
Level 2: /chem/msd10.i/27Apr2015.b/10042704sim.d
Level 3: /chem/msd10.i/27Apr2015.b/10042705sim.d
Level 4: /chem/msd10.i/27Apr2015.b/10042706sim.d
Level 5: /chem/msd10.i/27Apr2015.b/10042715sim.d
Level 6: /chem/msd10.i/27Apr2015.b/10042708sim.d
Level 7: /chem/msd10.i/27Apr2015.b/10042709sim.d
Level 8: /chem/msd10.i/27Apr2015.b/10042710sim.d
Level 9: /chem/msd10.i/27Apr2015.b/10042711sim.d
Level 10: /chem/msd10.i/27Apr2015.b/10042712sim.d
Level 11: /chem/msd10.i/27Apr2015.b/10042713sim.d

Compound	0.02500 Level 1	0.05000 Level 2	0.10000 Level 3	0.20000 Level 4	0.50000 Level 5	1.000 Level 6	___ RRF	% RSD
	5.000 Level 7	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11			
1 Chloromethane	+++++	+++++	0.04483	0.03998	0.03798	0.03969		
	0.04281	0.04226	+++++	+++++	+++++		0.04126	6.039
2 Vinyl Chloride	+++++	+++++	0.10391	0.06882	0.07179	0.07183		
	0.06707	0.08158	0.07510	0.06449	0.05642		0.07345	18.230
3 Ethanol	+++++	+++++	0.05180	0.05085	0.04902	0.04483		
	0.04381	0.04801	0.05023	0.04538	0.04052		0.04716	7.960
4 1,1-Dichloroethene-CCC	+++++	+++++	0.12723	0.08303	0.10152	0.08731		
	0.10460	0.11241	0.07954	0.08616	0.06706		0.09432	19.739
5 Acetone	+++++	+++++	0.08997	0.06506	0.07843	0.07678		
	0.07761	0.08625	0.07686	0.07400	0.06458		0.07662	10.926
6 2-Propanol	+++++	+++++	0.26174	0.20104	0.20239	0.19179		
	0.21512	0.23360	0.23323	0.22613	0.21215		0.21969	9.776

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-APR-2015 08:40
End Cal Date : 27-APR-2015 13:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Cal Date : 27-Apr-2015 14:05 gmash
Curve Type : Average

Compound	0.02500 Level 1	0.05000 Level 2	0.10000 Level 3	0.20000 Level 4	0.50000 Level 5	1.000 Level 6	___ RRF	% RSD
	5.000 Level 7	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11			
7 MTBE	+++++	0.65622	0.66465	0.47438	0.55663	0.55862		
	0.44069	0.47784	0.49362	0.43226	0.38667		0.51416	18.140
8 trans-1,2-Dichloroethene	+++++	+++++	0.18752	0.13403	0.16490	0.15587		
	0.13401	0.14842	0.15756	0.14259	0.10875		0.14818	15.017
9 Hexane	+++++	0.64189	0.62436	0.49514	0.57147	0.47458		
	0.43973	0.36186	0.33237	0.39930	0.40704		0.47477	22.708
10 Halothane	+++++	0.12274	0.10845	0.07927	0.10269	0.09813		
	0.08790	0.09721	0.08879	0.08786	0.07585		0.09489	14.815
11 1,1-Dichloroethane-SPCC	+++++	0.37873	0.41169	0.29368	0.35229	0.32808		
	0.28806	0.32307	0.29874	0.29602	0.24820		0.32186	14.949
12 Ethyl Acetate	+++++	+++++	0.05695	0.06255	0.05942	0.05407		
	0.04495	0.04994	0.04668	0.04687	0.04046		0.05132	14.333
13 2-Butanone	+++++	0.14089	0.14117	0.10839	0.12247	0.11206		
	0.10045	0.11382	0.10595	0.10571	0.09087		0.11418	14.363
14 cis-1,2-Dichloroethene	+++++	0.21158	0.22175	0.15381	0.20345	0.17896		
	0.16122	0.17570	0.16468	0.16425	0.14070		0.17761	14.917
15 Chloroform-CCC	+++++	0.33909	0.34505	0.27947	0.31674	0.30199		
	0.25434	0.32465	0.25803	0.25713	0.24687		0.29234	12.896
16 Cyclohexane	+++++	0.50243	0.50712	0.38104	0.46287	0.42827		
	0.34937	0.31206	0.39462	0.36239	0.34784		0.40480	16.736

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-APR-2015 08:40
End Cal Date : 27-APR-2015 13:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Cal Date : 27-Apr-2015 14:05 gmash
Curve Type : Average

Compound	0.02500 Level 1	0.05000 Level 2	0.10000 Level 3	0.20000 Level 4	0.50000 Level 5	1.000 Level 6	___ RRF	% RSD
	5.000 Level 7	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11			
17 1,1,1-Trichloroethane	+++++	0.44082	0.43956	0.33478	0.36750	0.38703		
	0.30540	0.29161	0.34550	0.31893	0.31017		0.35413	15.171
18 Carbon Tetrachloride	+++++	0.40452	0.34202	0.25189	0.37894	0.30065		
	0.30617	0.32337	0.30219	0.31053	0.24033		0.31606	15.966
19 Benzene	+++++	+++++	+++++	0.72934	1.05141	0.79291		
	0.76366	0.97710	0.75295	0.77764	0.63018		0.80940	16.952
20 1,2-Dichloroethane	+++++	0.47998	0.39806	0.28449	0.39795	0.32564		
	0.32634	0.36157	0.31716	0.32265	0.24523		0.34591	19.205
21 Heptane	+++++	0.29850	0.28385	0.20828	0.27641	0.22730		
	0.20674	0.27538	0.21743	0.21986	0.19184		0.24056	16.057
22 Trichloroethene	+++++	0.33814	0.31384	0.23587	0.28774	0.26453		
	0.22091	0.22089	0.22814	0.22454	0.21019		0.25448	17.516
24 Methyl Methacrylate	+++++	0.30041	0.29537	0.23225	0.31006	0.27259		
	0.23952	0.25376	0.25787	0.25625	0.23331		0.26514	10.700
25 4-Methyl-2-pentanone	+++++	+++++	0.12784	0.10059	0.13493	0.11682		
	0.10484	0.10557	0.11114	0.10966	0.10222		0.11262	10.511
28 Toluene-CCC	+++++	0.94277	0.91609	0.70746	0.90046	0.79947		
	0.67561	0.66924	0.71182	0.68803	0.64550		0.76565	14.921
30 1,1,2-Trichloroethane	+++++	0.30853	0.29234	0.22862	0.29752	0.26608		
	0.22353	0.22014	0.23229	0.22486	0.21130		0.25052	14.711

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-APR-2015 08:40
End Cal Date : 27-APR-2015 13:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Cal Date : 27-Apr-2015 14:05 gmash
Curve Type : Average

Compound	0.02500 Level 1	0.05000 Level 2	0.10000 Level 3	0.20000 Level 4	0.50000 Level 5	1.000 Level 6	___ RRF	% RSD
	5.000 Level 7	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11			
31 Tetrachloroethene	+++++	0.29515	0.28204	0.22194	0.28863	0.25743		
	0.21443	0.21208	0.22742	0.21938	0.20931		0.24278	14.192
32 Chlorobenzene	+++++	1.13907	1.13087	0.87883	1.15499	1.01581		
	0.84868	0.83803	0.92429	0.86069	0.82129		0.96125	14.155
33 Ethylbenzene-CCC	+++++	0.57837	0.60254	0.46393	0.62389	0.55457		
	0.46668	0.46016	0.53665	0.48991	0.47666		0.52534	11.795
209 1,1,1,2-Tetrachloroethane	+++++	0.37109	0.36868	0.34091	0.37365	0.34393		
	0.29248	0.28874	0.32069	0.30295	0.27718		0.32803	11.170
34 m,p-Xylene	0.57704	0.61180	0.60921	0.46282	0.63305	0.55494		
	0.49360	0.48741	0.54230	0.51746	0.55553		0.54956	10.102
36 o-Xylene	+++++	0.57550	0.57922	0.46505	0.61612	0.54311		
	0.47200	0.46303	0.55123	0.53079	0.58409		0.53801	10.159
37 Styrene	+++++	1.08558	0.98031	0.75400	1.05076	0.91779		
	0.83958	0.82174	0.82815	0.80078	+++++		0.89763	13.062
38 a-Pinene	+++++	0.80379	0.80915	0.64198	0.88517	0.77480		
	0.68103	0.65892	0.74007	0.68444	+++++		0.74215	11.054
39 1,1,2,2-Tetrachloroethane-SPC	+++++	0.49527	0.47137	0.35067	0.46497	0.40478		
	0.35354	0.34270	0.36079	0.35771	0.34679		0.39486	15.144
40 Propylbenzene	+++++	1.54884	1.49349	1.14242	1.63279	1.45804		
	1.26747	1.28385	1.40717	1.49344	+++++		1.41417	10.979

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-APR-2015 08:40
End Cal Date : 27-APR-2015 13:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Cal Date : 27-Apr-2015 14:05 gmash
Curve Type : Average

Compound	0.02500 Level 1	0.05000 Level 2	0.10000 Level 3	0.20000 Level 4	0.50000 Level 5	1.000 Level 6	___ RRF	% RSD
	5.000 Level 7	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11			
210 1,2,3-Trichloropropane	+++++	0.18817	0.22054	0.14782	0.19859	0.17454		
	0.14684	0.13848	0.14229	0.13241	0.12499		0.16147	19.826
41 1,3,5-Trimethylbenzene	+++++	1.97295	1.96334	1.51607	2.11208	1.91976		
	1.69712	1.61695	1.76671	1.57170	1.25920		1.73959	14.870
42 1,2,4-Trimethylbenzene	+++++	1.65391	1.63950	1.27087	1.74519	1.60188		
	1.38943	1.33865	1.47217	1.27314	1.12990		1.45146	13.970
43 R-(+)-Limonene	+++++	+++++	+++++	+++++	0.48208	0.41536		
	0.37822	0.36564	0.44051	0.45683	+++++		0.42311	10.725
44 1,3-Dichlorobenzene	+++++	1.08128	1.08694	0.85319	1.10148	1.02832		
	0.86548	0.82186	0.92570	0.81276	0.72039		0.92974	14.609
45 1,4-Dichlorobenzene	+++++	0.80475	0.79855	0.62248	0.83101	0.73053		
	0.63769	0.60974	0.68196	0.67396	0.72679		0.71175	11.197
46 1,2-Dichlorobenzene	+++++	0.94468	0.94971	0.73352	0.94693	0.88372		
	0.74088	0.70367	0.80248	0.72255	0.67365		0.81018	13.650
47 1,4-Dithiane	+++++	0.53204	0.53590	0.41071	0.55731	0.50077		
	0.46557	0.46690	0.54634	0.50918	+++++		0.50275	9.440
48 1,2,4-Trichlorobenzene	+++++	0.73454	0.77068	0.57525	0.76861	0.68484		
	0.58111	0.55323	0.65430	0.63296	0.63352		0.65890	12.022
49 Naphthalene	+++++	2.49019	2.61497	1.97234	2.69006	2.37695		
	2.09743	1.98698	2.34415	2.18608	2.13308		2.28922	11.103

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-APR-2015 08:40
End Cal Date : 27-APR-2015 13:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Cal Date : 27-Apr-2015 14:05 gmash
Curve Type : Average

Compound	0.02500 Level 1	0.05000 Level 2	0.10000 Level 3	0.20000 Level 4	0.50000 Level 5	1.000 Level 6	___ RRF	% RSD
	5.000 Level 7	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11			
50 1,2,3-Trichlorobenzene	+++++	0.69968	0.74856	0.57636	0.74842	0.67349		
	0.57747	0.54233	0.64957	0.60997	0.60718		0.64330	11.315
$ 26 Toluene-d8	0.90145	0.89810	0.89767	0.89641	0.89713	0.91049		
	0.90079	0.91660	0.90649	0.89973	0.91343		0.90348	0.789

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-APR-2015 08:40
End Cal Date : 27-APR-2015 13:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Cal Date : 27-Apr-2015 14:05 gmash
Curve Type : Average

Average %RSD Results.
Calculated Average %RSD = 13.5121126
Maximun Average %RSD = 30
* Passed Average %RSD Test.

Calibration History

Method : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Start Cal Date: 27-APR-2015 08:40
End Cal Date : 27-APR-2015 13:25

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.02500		
27-APR-2015 08:40	mpxylene	/chem/msd10.i/27Apr2015.b/10042703sim.d
Cal Level: 2 , Cal Amount: 0.05000		
27-APR-2015 09:04	0.05	/chem/msd10.i/27Apr2015.b/10042704sim.d
Cal Level: 3 , Cal Amount: 0.10000		
27-APR-2015 09:27	0.1	/chem/msd10.i/27Apr2015.b/10042705sim.d
Cal Level: 4 , Cal Amount: 0.20000		
27-APR-2015 09:51	0.2	/chem/msd10.i/27Apr2015.b/10042706sim.d
Cal Level: 5 , Cal Amount: 0.50000		
27-APR-2015 13:25	all	/chem/msd10.i/27Apr2015.b/10042715sim.d
Cal Level: 6 , Cal Amount: 1.00000		
27-APR-2015 10:38	all	/chem/msd10.i/27Apr2015.b/10042708sim.d
Cal Level: 7 , Cal Amount: 5.00000		
27-APR-2015 11:01	all	/chem/msd10.i/27Apr2015.b/10042709sim.d
Cal Level: 8 , Cal Amount: 20.00000		

|27-APR-2015 11:25 |all |/chem/msd10.i/27Apr2015.b/10042710sim.d |

Cal Level: 9 , Cal Amount: 50.00000
27-APR-2015 11:48 |all-cm |/chem/msd10.i/27Apr2015.b/10042711sim.d

Cal Level: 10, Cal Amount: 100.00000
27-APR-2015 12:14 |100 |/chem/msd10.i/27Apr2015.b/10042712sim.d

Cal Level: 11, Cal Amount: 200.00000
27-APR-2015 12:37 |200 |/chem/msd10.i/27Apr2015.b/10042713sim.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 7

Ccal Level: 7 , Ccal Amount: 5.00000
27-APR-2015 11:01 |all |/chem/msd10.i/27Apr2015.b/10042709sim.d

Ccal Level: 7 , Ccal Amount: 5.00000
27-APR-2015 11:01 |all |/chem/msd10.i/27Apr2015.b/10042709sima.d

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-APR-2015 08:40
End Cal Date : 27-APR-2015 13:25
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Cal Date : 27-Apr-2015 14:05 gmash
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd10.i/27Apr2015.b/10042703sim.d
Level 2: /chem/msd10.i/27Apr2015.b/10042704sim.d
Level 3: /chem/msd10.i/27Apr2015.b/10042705sim.d
Level 4: /chem/msd10.i/27Apr2015.b/10042706sim.d
Level 5: /chem/msd10.i/27Apr2015.b/10042715sim.d
Level 6: /chem/msd10.i/27Apr2015.b/10042708sim.d
Level 7: /chem/msd10.i/27Apr2015.b/10042709sim.d
Level 8: /chem/msd10.i/27Apr2015.b/10042710sim.d
Level 9: /chem/msd10.i/27Apr2015.b/10042711sim.d
Level 10: /chem/msd10.i/27Apr2015.b/10042712sim.d
Level 11: /chem/msd10.i/27Apr2015.b/10042713sim.d

gmw 4/28/15

Compound	0.02500 Level 1	0.05000 Level 2	0.10000 Level 3	0.20000 Level 4	0.50000 Level 5	1.000 Level 6	RRF	% RSD
	5.000 Level 7	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11			
1 Chloromethane	+++++	+++++	0.04483	0.03998	0.03798	0.03969		
	0.04281	0.04226	+++++	+++++	+++++		0.04126	6.039
2 Vinyl Chloride	+++++	+++++	0.10391	0.06882	0.07179	0.07183		
	0.06707	0.08158	0.07510	0.06449	0.05642		0.07345	18.230
3 Ethanol	+++++	+++++	0.05180	0.05085	0.04902	0.04483		
	0.04381	0.04801	0.05023	0.04538	0.04052		0.04716	7.960
4 1,1-Dichloroethene-CCC	+++++	+++++	0.12723	0.08303	0.10152	0.08731		
	0.10460	0.11241	0.07954	0.08616	0.06706		0.09432	19.739
5 Acetone	+++++	+++++	0.08997	0.06506	0.07843	0.07678		
	0.07761	0.08625	0.07686	0.07400	0.06458		0.07662	10.926
6 2-Propanol	+++++	+++++	0.26174	0.20104	0.20239	0.19179		
	0.21512	0.23360	0.23323	0.22613	0.21215		0.21969	9.776

Initial Calibration Narrative

An 11 point initial calibration was analyzed on MSD-10 on 04/27/2015. The curve passed for SOP 100.

ICV- 1 out (Chloromethane: 142% file ID: 10042717sim, STD#2595-231-5.0)

As noted on the accompanying analytical run log, Level 5 was reanalyzed due to anomalous unacceptable linearity for 1,2-Dichloroethane.

All compounds were curved from 0.05ug/mL to 200ug/mL, but there are exceptions. Please refer to ICAL summary for calibration ranges for each compound.

Unit: ug/mL

The analysis based on 2uL injection in slow mode.

Eurofins Air Toxics, Inc. **MSD-10** **Logbook #: 2686**

BFB Injection Date: 4/27/15
BFB Injection Time: 0806
BFB File ID: 10042701

IS/S Std.#: 2595 215-125	Exp. Date: 8/20/15
2-Fluorotoluene SIM: 216118	

Verified CCV IS vs ICAL mid-point (-50% to +100% D) gmv *initials*

Calculation Check:

µg/L of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} \times DF = \frac{(10844)}{(301168)} \times \frac{(5.0)}{(0.80940)} \times 2.00 =$ 0.44 µg

File ID:	10042730SIM
Compound:	Benzene
Initials:	gmv

Reported Result 0.44 µg

	Use	File #	Sample / Client Name	Vial #	DF	Date Analyzed	Time Analyzed	Initial	Comments
1	✓	10042701	2299-807 BFB	1	1.00	4/27/15	0806	gmv	
2	✓	02	CS_2 Blank	2			0817		
3	✓	03	2595-224-0.05→0.025	3			0840		Level 1 (m,p-xylene)
4	✓	04	2595-224-0.05	4			0904		Level 2
5	✓	05	-0.10	5			0927		Level 3
6	✓	06	-0.20	6			0951		Level 4
7	X	07	-0.50	7			1014		Level 5
8	✓	08	-1.0	8			1038		Level 6
9	✓	09	-5.0	9			1101		Level 7 (CCV)
10	✓	10	-20	10			1125		Level 8
11	✓	11	-50	11			1148		Level 9
12	✓	12	2595-218-500→100	12			1214		Level 10 (20:100)
13	✓	13	→200	13			1237		Level 11 (40:100)
14	✓	14	CS_2 Blank	14			1301		
15	✓	15	2595-224-0.50	15	↓	↓	1325	↓	Level 5

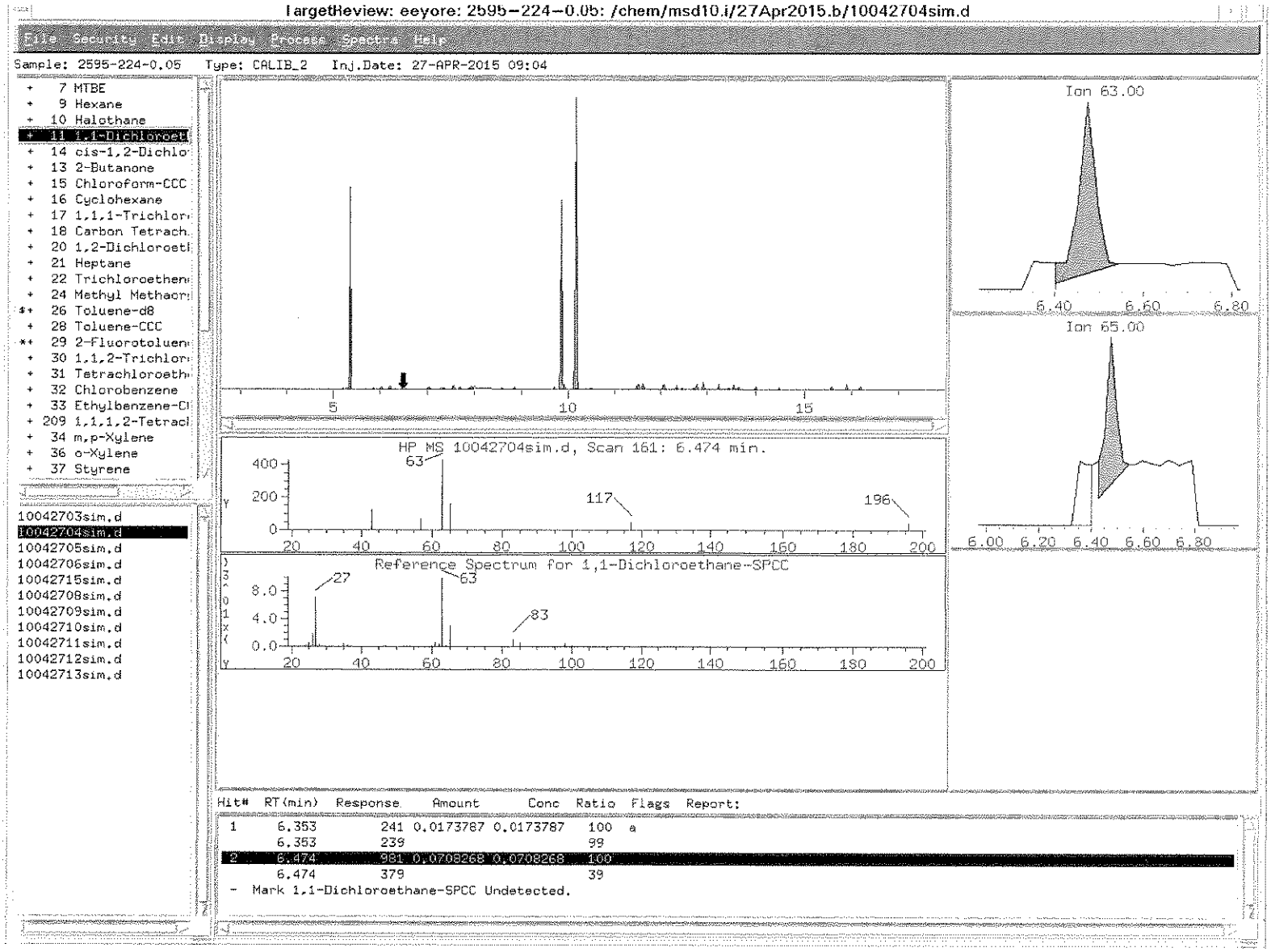
Reviewed: gmv Date: 4/28/15

16	X	1004276	2595-231-5	16	1.00	4/27/15	1350	JM	ICV Acetone, Hexane ✓
17	✓	17	↓	17	↓	↓	1415	↓	ICV (1-ow) ✓
18	✓	18	1504278-LCS	18			1438		
19	✓	19	-LCSD	18			1502		
20	✓	20	-BLK	19			1526		
21	✓	21	-01A	20			1550		
22	✓	22	1504283/459-LCS	21			1613		
23	✓	23	-LCSD	21			1637		
24	✓	24	-BLK	22			1701		
25	✓	25	1504283-01A	23			1725		
26	✓	26	1504459-01A	24			1749		
27	✓	27	-02A	25			1812		
28	✓	28	-03A	26			1836		
29	✓	29	-04A	27			1900		
30	✓	30	-05A	28	↓	↓	1924	↓	
31									
32									
33									
34									
35									
36									
37									

Comments:

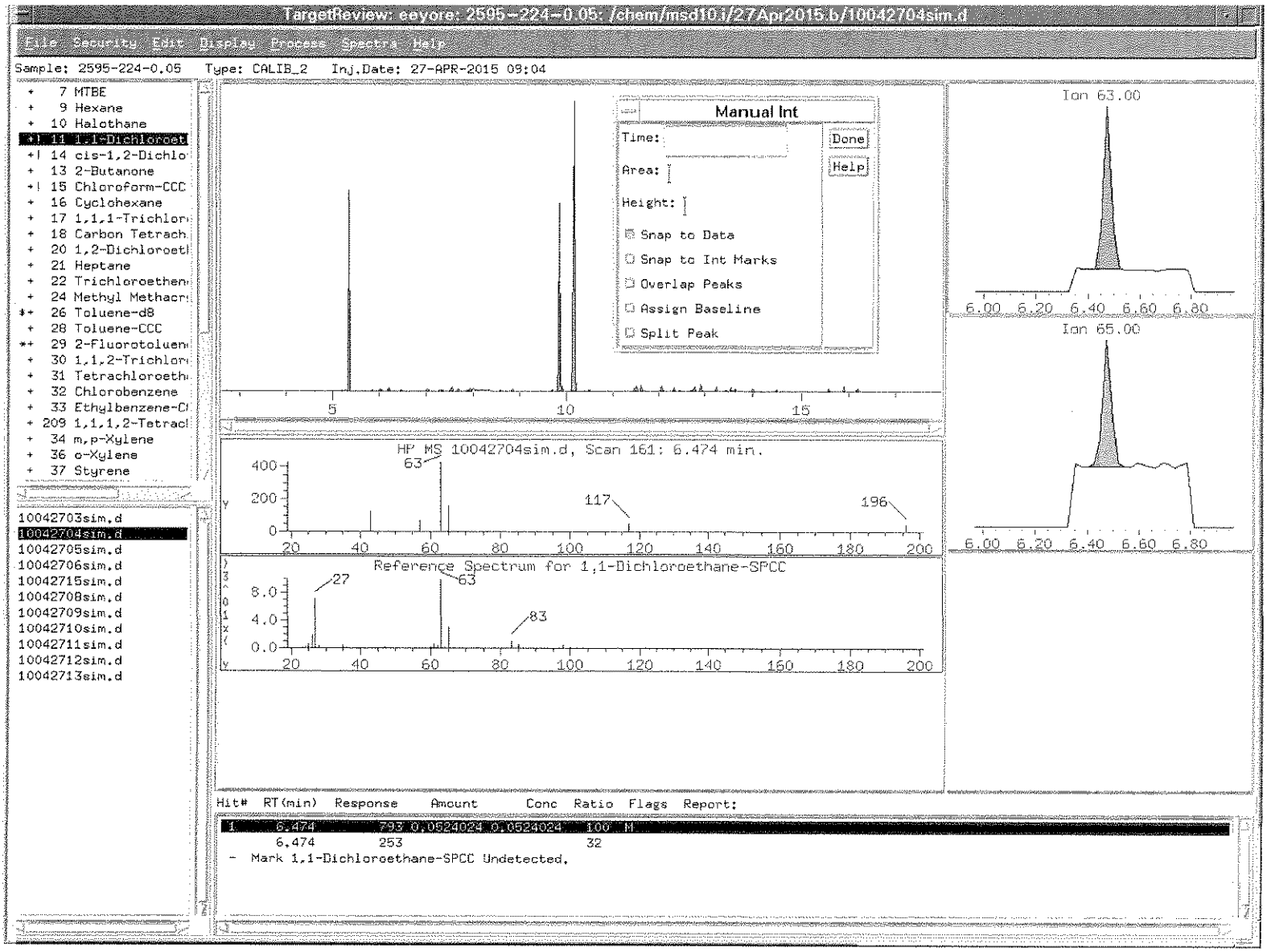
JM 4/28/15

Reviewed: JM Date: 4/28/15



Before

gm 4/28/15



4/28/15
AS

After

Correct Baseline	✓
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	

jm
4/28/15

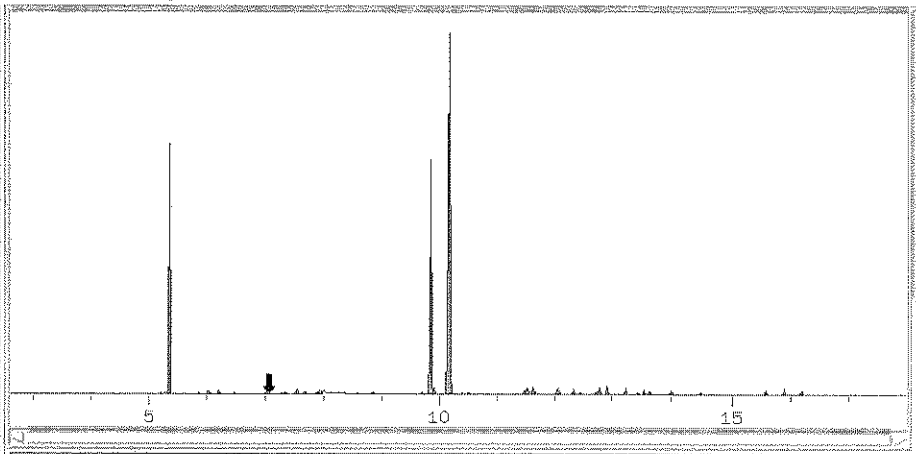
TargetReview: eeyore: 2595-224-0.05: /chem/msd10.i/27Apr2015.b/10042704sim.d

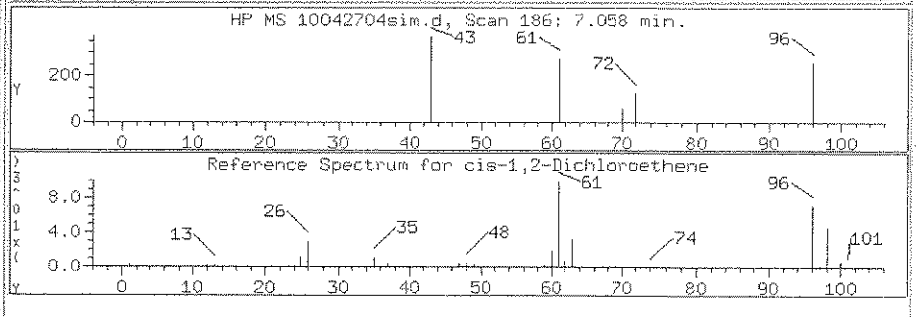
File Security Edit Display Process Spectra Help

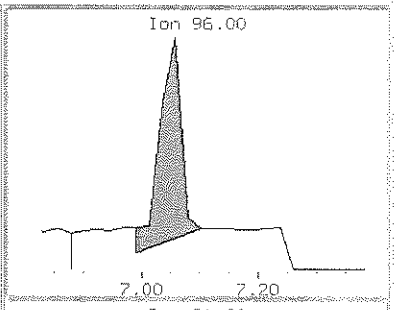
Sample: 2595-224-0.05 Type: CALIB_2 Inj.Date: 27-APR-2015 09:04

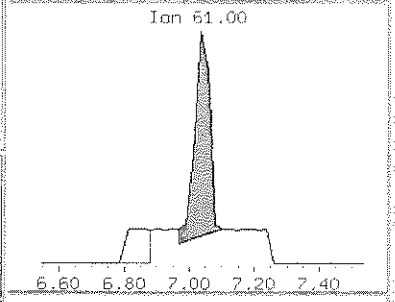
+ 7 MTBE
+ 9 Hexane
+ 10 Halothane
+ 11 1,1-Dichloroetl
+ 14 cis-1,2-Dichlo
+ 13 2-Butanone
+ 15 Chloroform-CCC
+ 16 Cyclohexane
+ 17 1,1,1-Trichlor
+ 18 Carbon Tetrach
+ 20 1,2-Dichloroetl
+ 21 Heptane
+ 22 Trichloroethen
+ 24 Methyl Methacr
*+ 26 Toluene-d8
+ 28 Toluene-CCC
*+ 29 2-Fluorotoluen
+ 30 1,1,2-Trichlor
+ 31 Tetrachloroeth
+ 32 Chlorobenzene
+ 33 Ethylbenzene-Cl
+ 209 1,1,1,2-Tetracl
+ 34 m,p-Xylene
+ 36 o-Xylene
+ 37 Styrene

10042703sim.d
10042704sim.d
10042705sim.d
10042706sim.d
10042715sim.d
10042708sim.d
10042709sim.d
10042710sim.d
10042711sim.d
10042712sim.d
10042713sim.d





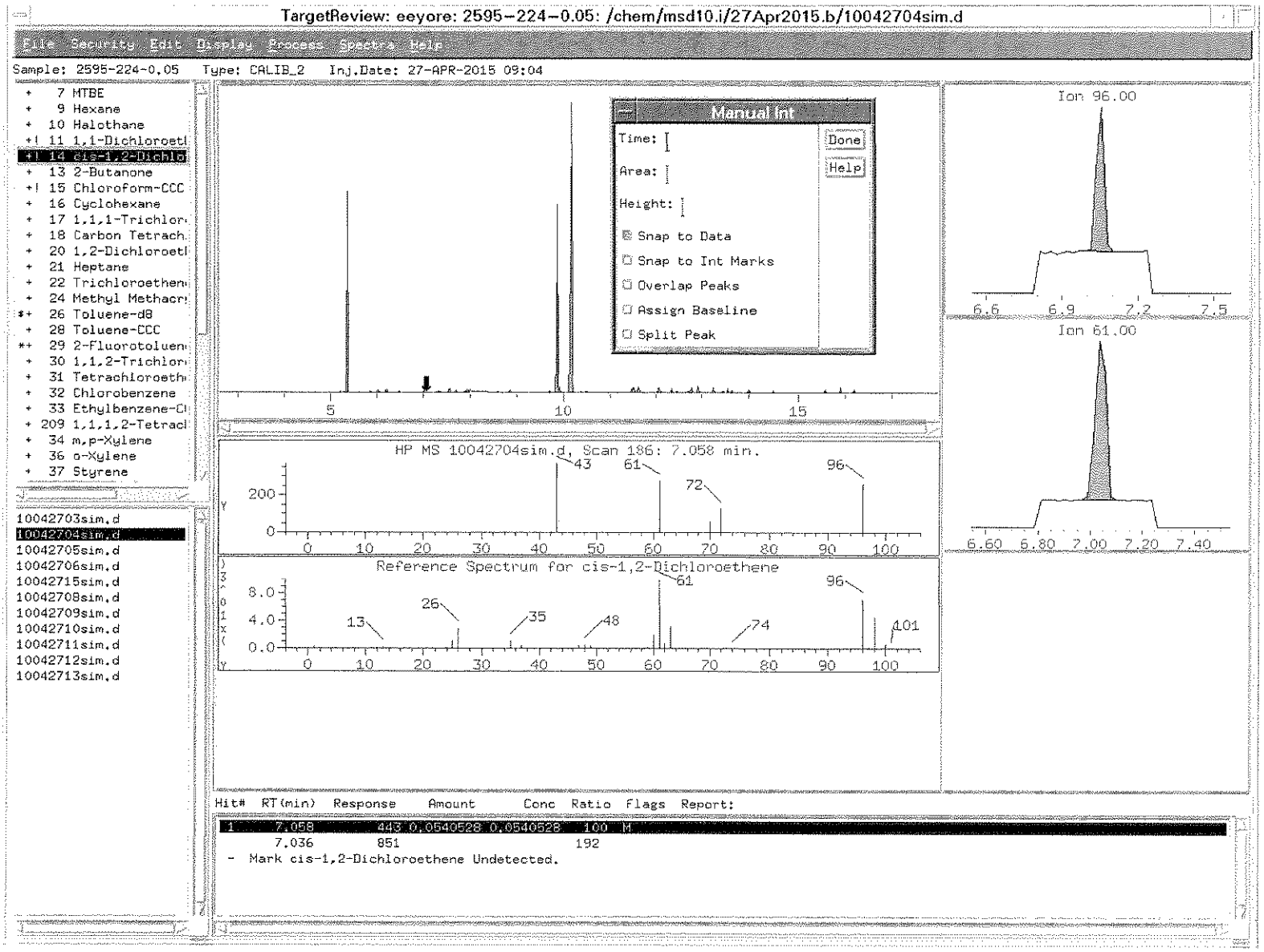




Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	6.812	314	0.0411680	0.0411680	100		
	6.812	266			85		
2	7.058	535	0.0702206	0.0702206	100		
	7.036	955			178		

- Mark cis-1,2-Dichloroethene Undetected.

Before
gm
4/28/15

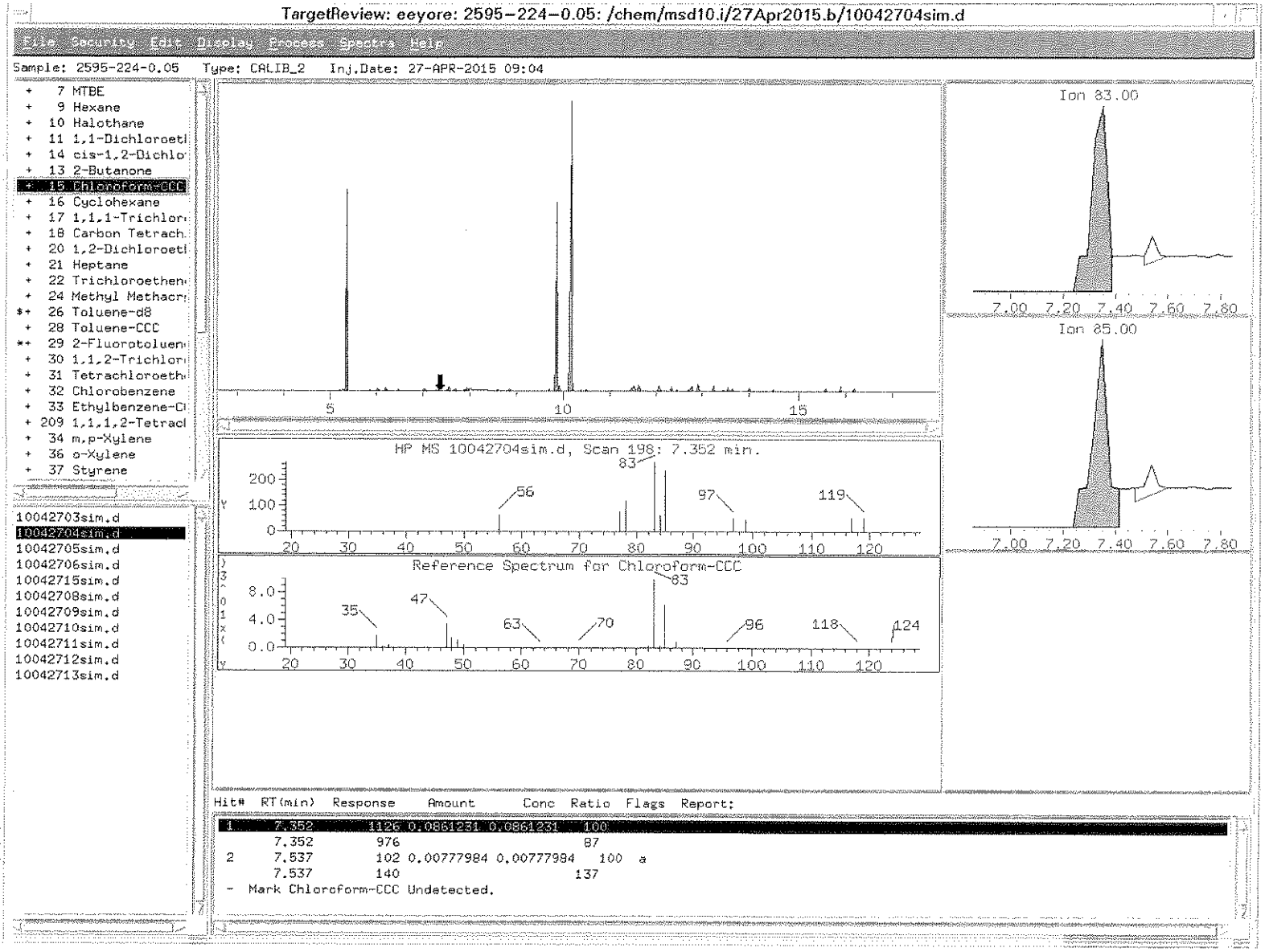


4/28/15 AT

GW 4/28/15

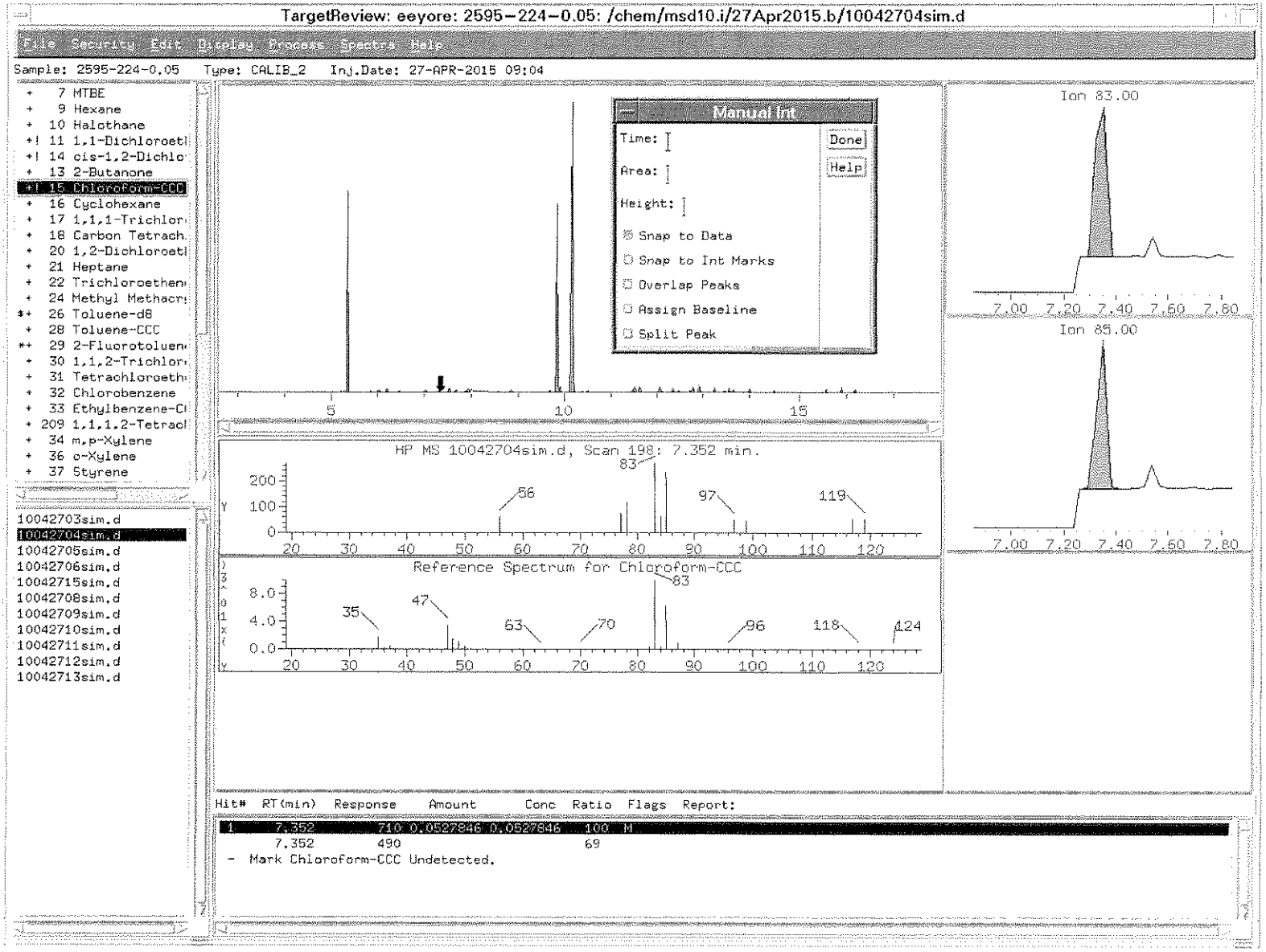
After

Correct Baseline	✓
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	



Before

9m
4/28/15



4/28/15
AG

After

Correct Baseline	✓
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	

gm
4/28/15

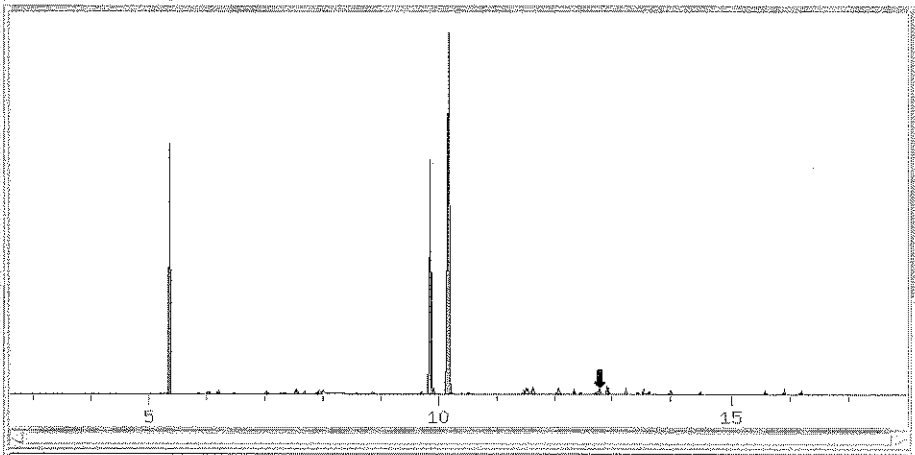
TargetReview: eeyore: 2595-224-0.05: /chem/msd10.i/27Apr2015.b/10042704sim.d

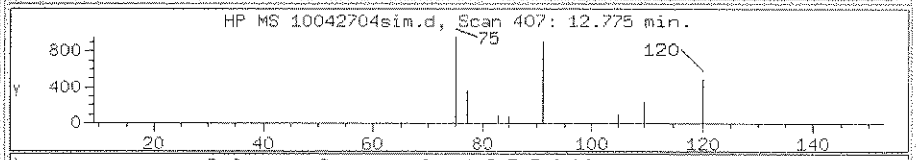
File Security Edit Display Process Spectra Help

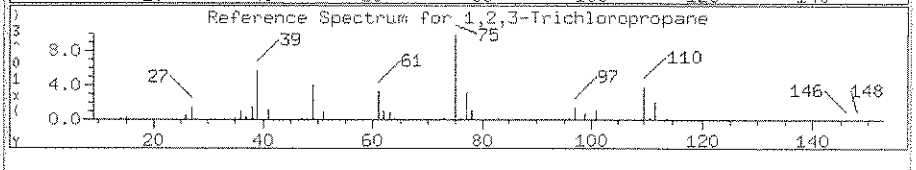
Sample: 2595-224-0.05 Type: CALIB_2 Inj.Date: 27-APR-2015 09:04

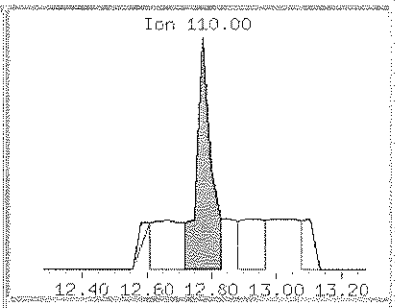
```
$+  26 Toluene-d8
 +  28 Toluene-CCC
*+  29 2-Fluorotoluen
 +  30 1,1,2-Trichlor
 +  31 Tetrachloroeth
 +  32 Chlorobenzene
 +  33 Ethylbenzene-Cl
 + 209 1,1,1,2-Tetracl
 +  34 m,p-Xylene
 +  36 o-Xylene
 +  37 Styrene
 +  38 a-Pinene
 +  39 1,1,2,2-Tetracl
 +  40 Propylbenzene
 + 210 1,2,3-Trichlor
 +  41 1,3,5-Trimethy
 +  42 1,2,4-Trimethy
 +  43 R-(+)-Limonene
 +  44 1,3-Dichlorobe
 +  45 1,4-Dichlorobe
 +  46 1,2-Dichlorobe
 +  47 1,4-Dithiane
 +  48 1,2,4-Trichlor
 +  49 Naphthalene
 +  50 1,2,3-Trichlor
```

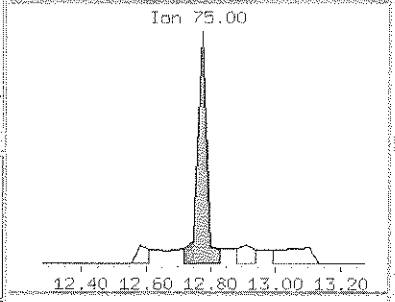
```
10042703sim.d
10042704sim.d
10042705sim.d
10042706sim.d
10042715sim.d
10042708sim.d
10042709sim.d
10042710sim.d
10042711sim.d
10042712sim.d
10042713sim.d
```







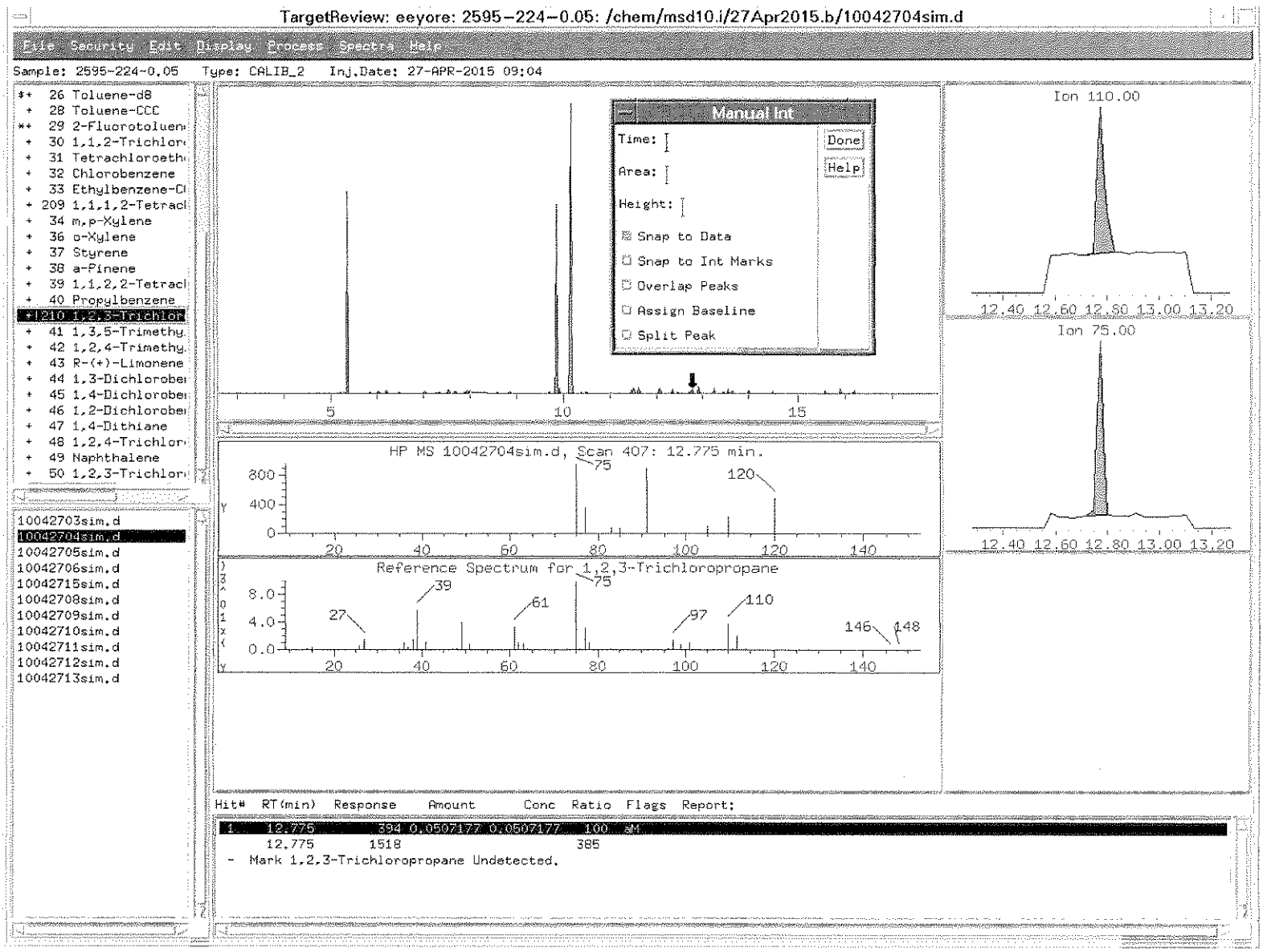




Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	12.583	40	0.00521766	0.00521766	100	a	
	12.583	214			542		
2	12.666	400	0.0528208	0.0528208	100	a	
	12.583	214			54		
3	12.775	802	0.105859	0.105859	100		
	12.775	2024			252		

Before

gm 4/28/15



4/28/15
AC

After	
Correct Baseline	✓
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	

4/28/15

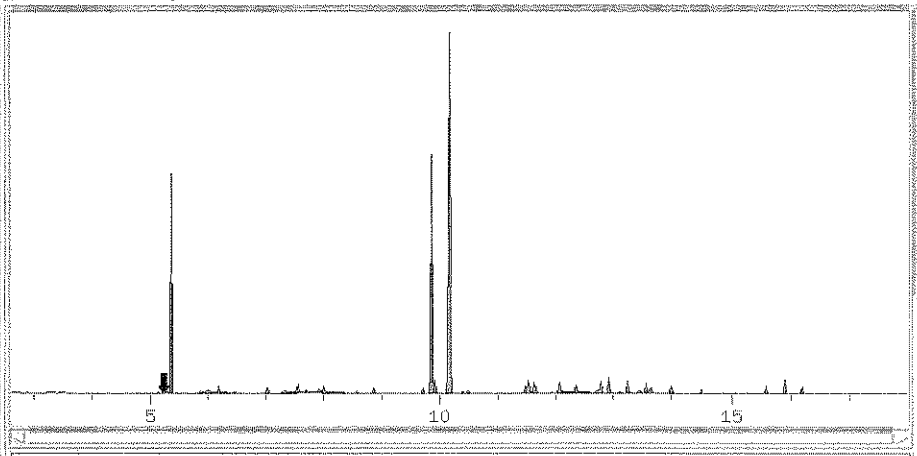
TargetReview: eeyore: 2595-224-0.10: /chem/msd10.i/27Apr2015.b/10042705sim.d

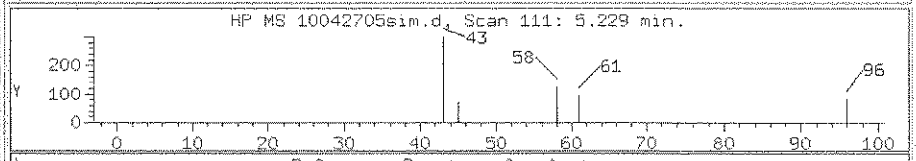
File Security Edit Display Process Spectra Help

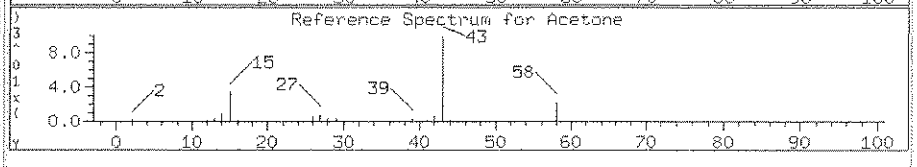
Sample: 2595-224-0,10 Type: CALIB_3 Inj.Date: 27-APR-2015 09:27

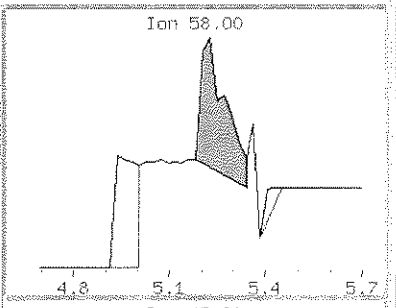
+ 1 Chloromethane
+ 2 Vinyl Chloride
+ 3 Ethanol
+ 4 1,1-Dichloroetl
+ 5 Acetone
+ 6 2-Propanol
+ 7 MTBE
+ 8 trans-1,2-Dich
+ 9 Hexane
+ 10 Halothane
+ 11 1,1-Dichloroetl
+ 12 Ethyl Acetate
+ 13 2-Butanone
+ 14 cis-1,2-Dichlo
+ 15 Chloroform-CCC
+ 16 Cyclohexane
+ 17 1,1,1-Trichlor
+ 18 Carbon Tetrach
+ 19 Benzene
+ 20 1,2-Dichloroetl
+ 21 Heptane
+ 22 Trichloroethen
+ 24 Methyl Methacr
+ 25 4-Methyl-2-pen
#+ 26 Toluene-d8

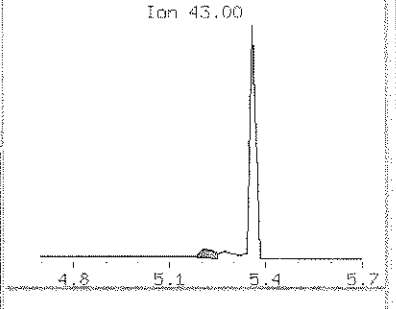
10042703sim.d
10042704sim.d
10042705sim.d
10042706sim.d
10042715sim.d
10042708sim.d
10042709sim.d
10042710sim.d
10042711sim.d
10042712sim.d
10042713sim.d











Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
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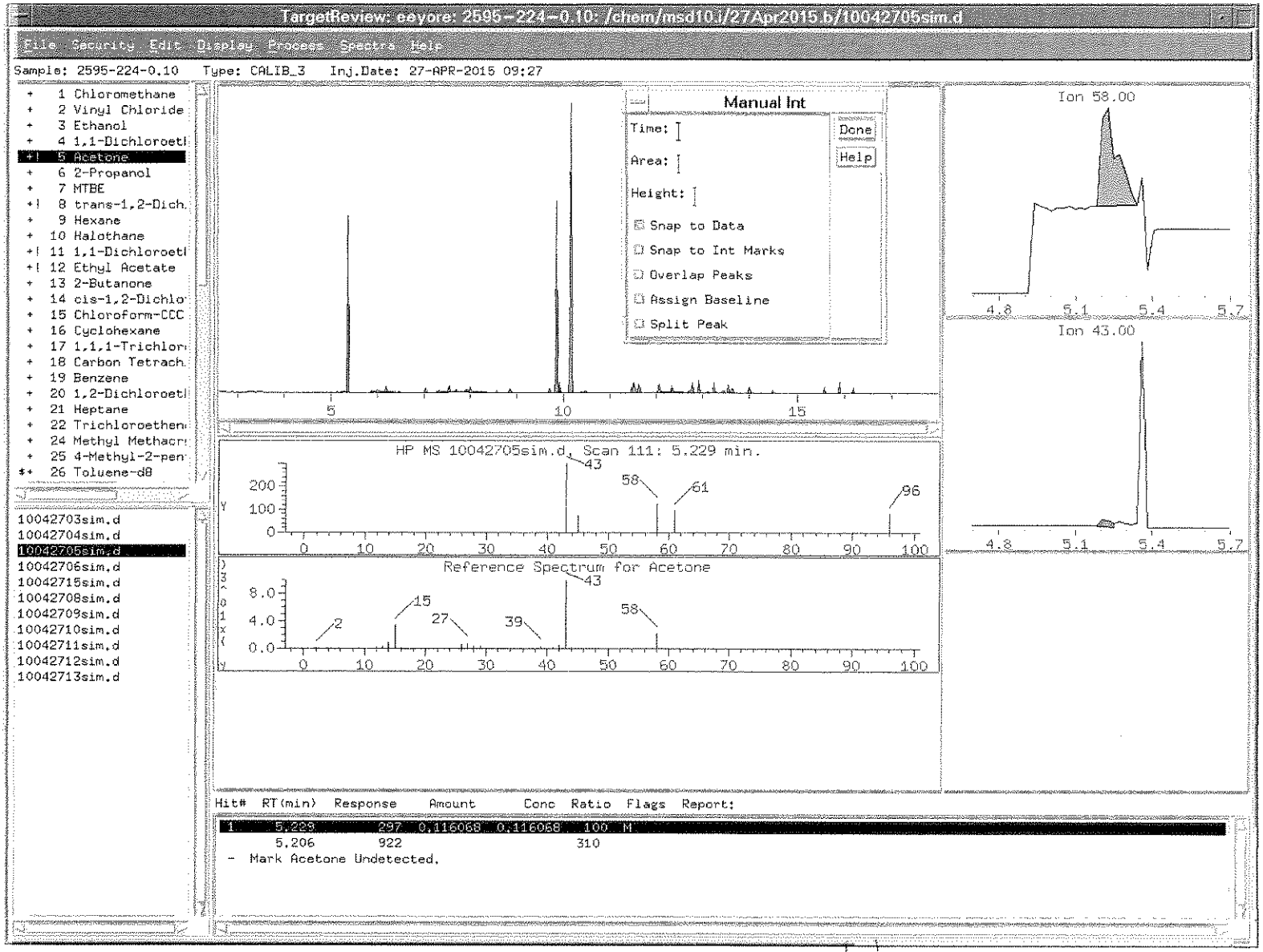
	5.206	922			293		
2	5.229	383	0.146001	0.146001	100		
	5.206	922			241		
3	5.430	35	0.0133189	0.0133189	100	a	
	5.430	19			54		

Before

gnw
4/28/15



4/28/15
AEG

After

Correct Baseline	✓
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	

4/28/15

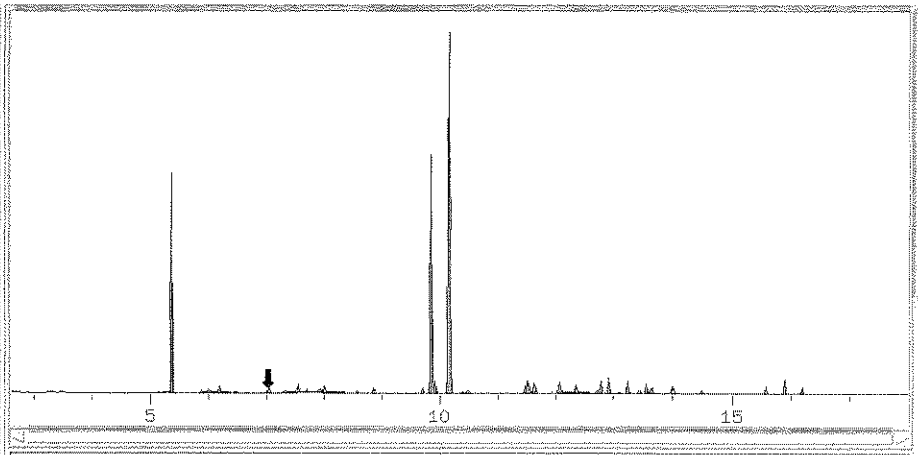
TargetReview: eeyore: 2595-224-0.10: /chem/msd10.i/27Apr2015.b/10042705sim.d

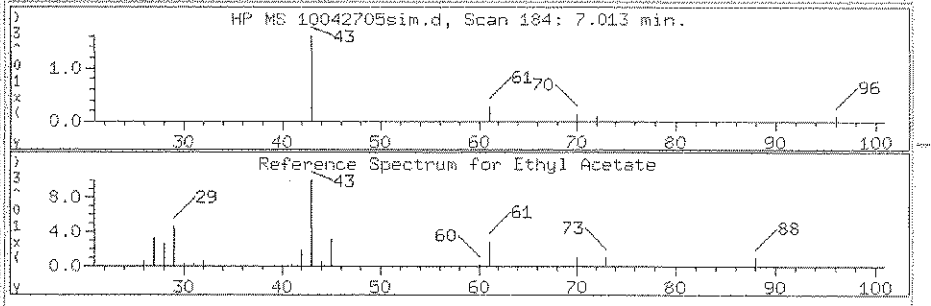
File Security Edit Display Process Spectra Help

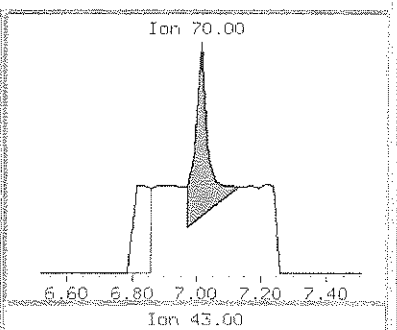
Sample: 2595-224-0.10 Type: CALIB_3 Inj.Date: 27-APR-2015 09:27

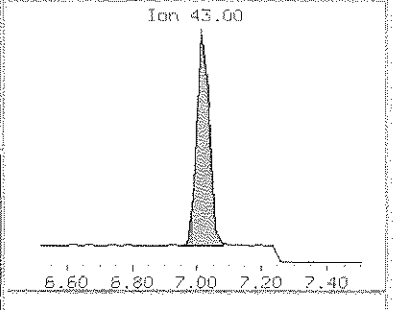
+ 1 Chloromethane
+ 2 Vinyl Chloride
+ 3 Ethanol
+ 4 1,1-Dichloroetl
+ 5 Acetone
+ 6 2-Propanol
+ 7 MTBE
+ 8 trans-1,2-Dich
+ 9 Hexane
+ 10 Halothane
+ 11 1,1-Dichloroetl
+ 12 Ethyl Acetate
+ 13 2-Butanone
+ 14 cis-1,2-Dichlo
+ 15 Chloroform-CCC
+ 16 Cyclohexane
+ 17 1,1,1-Trichlor
+ 18 Carbon Tetrach
+ 19 Benzene
+ 20 1,2-Dichloroetl
+ 21 Heptane
+ 22 Trichloroethen
+ 24 Methyl Methacr
+ 25 4-Methyl-2-pen
$+ 26 Toluene-d8

10042703sim.d
10042704sim.d
10042705sim.d
10042706sim.d
10042715sim.d
10042708sim.d
10042709sim.d
10042710sim.d
10042711sim.d
10042712sim.d
10042713sim.d









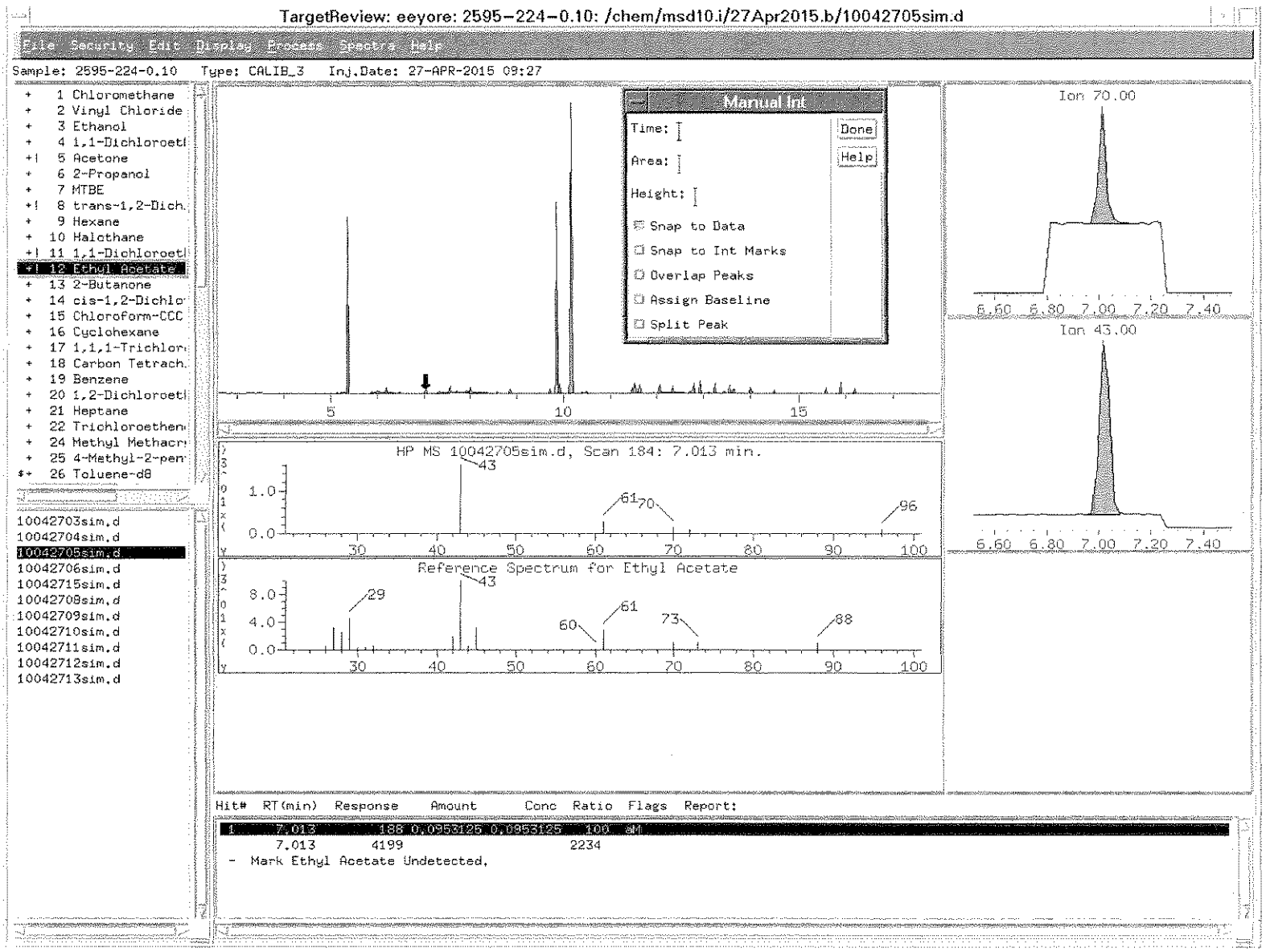
Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	6.811	229	0.123323	0.123323	100		
	7.013	4199			1835		
2	7.013	338	0.179704	0.179704	100		
	7.013	4199			1259		

- Mark Ethyl Acetate Undetected.

Before

gmv

4/28/15



4/28/15 ACG

After

Correct Baseline	✓
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	

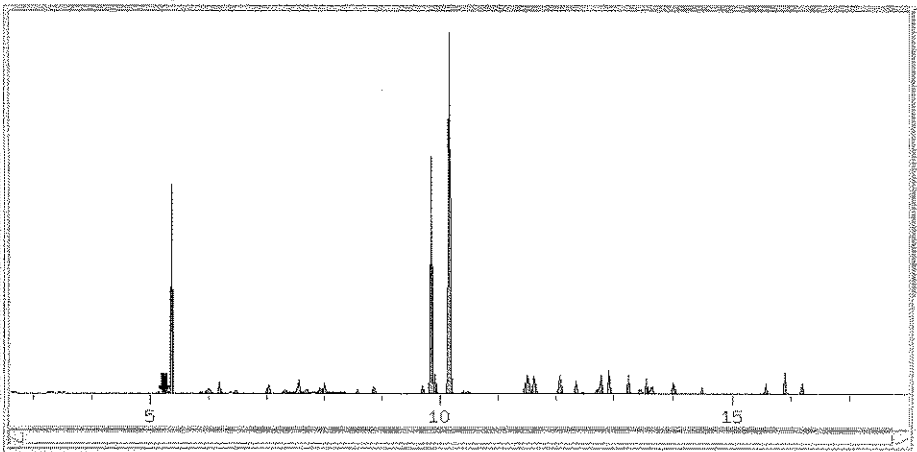
gw 4/28/15

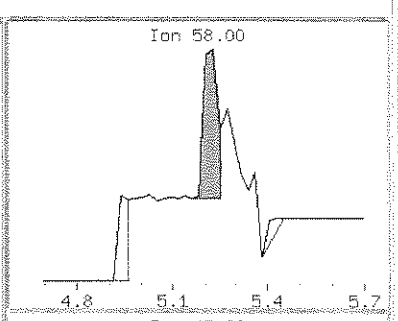
TargetReview: eeyore: 2595-224-0.20: /chem/msd10.i/27Apr2015.b/10042706sim.d

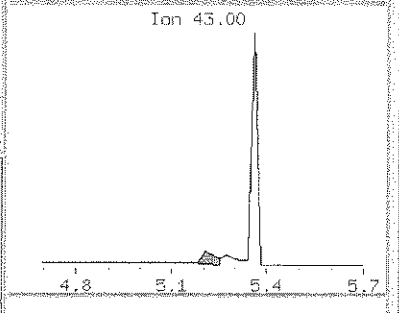
File Security Edit Display Process Spectra Help

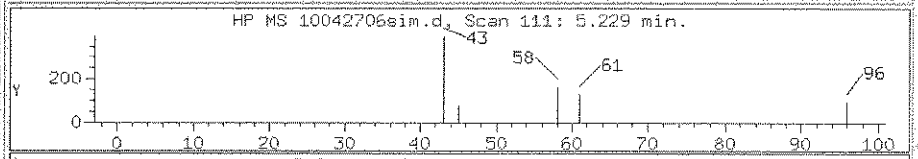
Sample: 2595-224-0.20 Type: CALIB_4 Inj.Date: 27-APR-2015 09:51

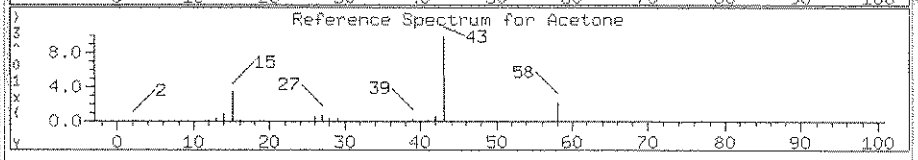
+ 1 Chloromethane
+ 2 Vinyl Chloride
+ 3 Ethanol
+ 4 1,1-Dichloroetl
+ 5 Acetone
+ 6 2-Propanol
+ 7 MTBE
+ 8 trans-1,2-Dich
+ 9 Hexane
+ 10 Halothane
+ 11 1,1-Dichloroetl
+ 12 Ethyl Acetate
+ 13 2-Butanone
+ 14 cis-1,2-Dichlo
+ 15 Chloroform-CCC
+ 16 Cyclohexane
+ 17 1,1,1-Trichlor
+ 18 Carbon Tetrach
+ 19 Benzene
+ 20 1,2-Dichloroetl
+ 21 Heptane
+ 22 Trichloroethen
+ 24 Methyl Methacr
+ 25 4-Methyl-2-pen
*+ 26 Toluene-d8









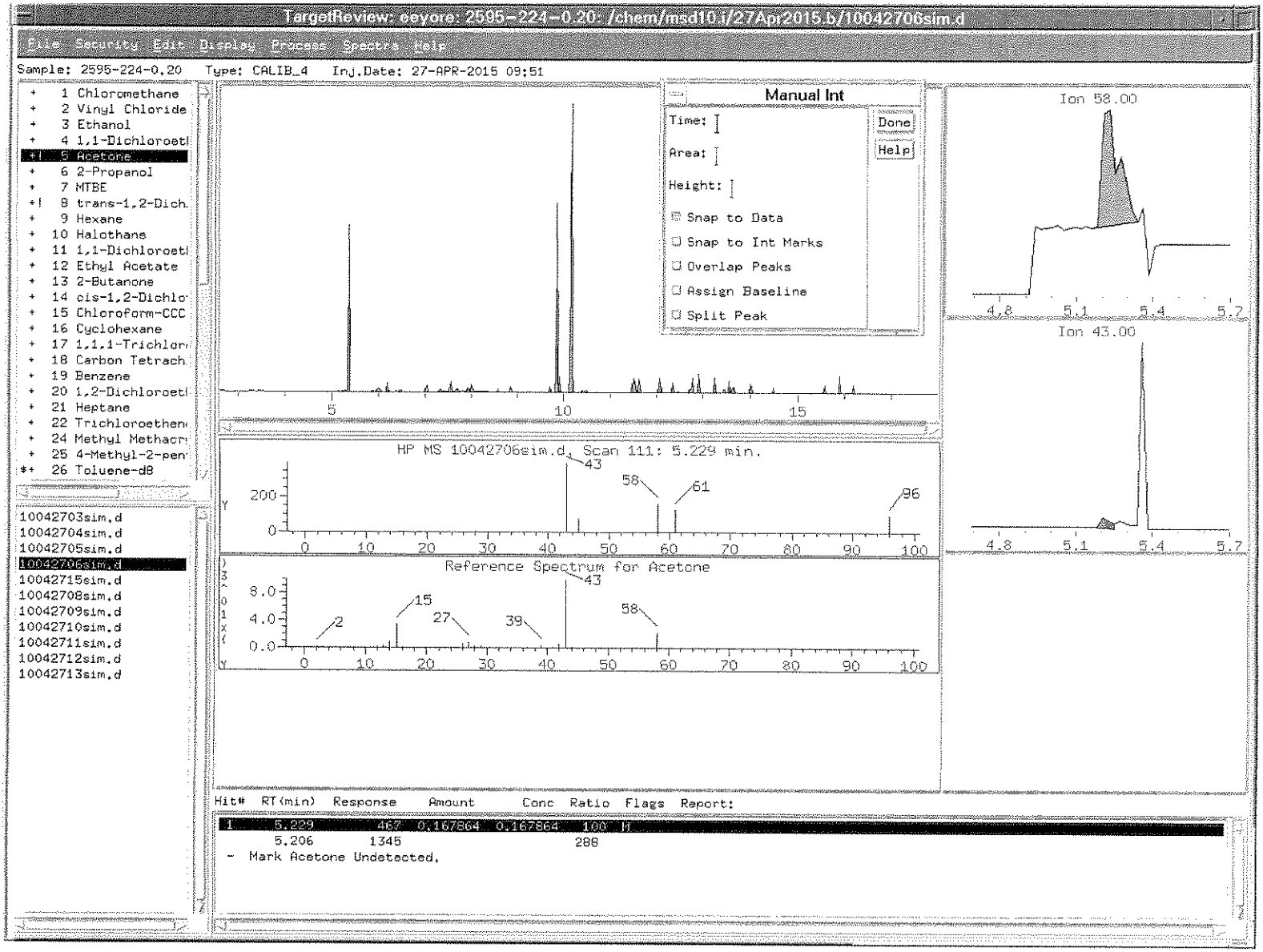


10042703sim.d
10042704sim.d
10042705sim.d
10042706sim.d
10042715sim.d
10042708sim.d
10042709sim.d
10042710sim.d
10042711sim.d
10042712sim.d
10042713sim.d

Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	4.937	160	0.0598768	0.0598768	100	a	
	5.206	1345			839		
2	5.229	340	0.126984	0.126984	100		
	5.206	1345			395		
3	5.430	35	0.0130489	0.0130489	100	a	
	5.430	19			54		

Before

Jmw 4/28/15

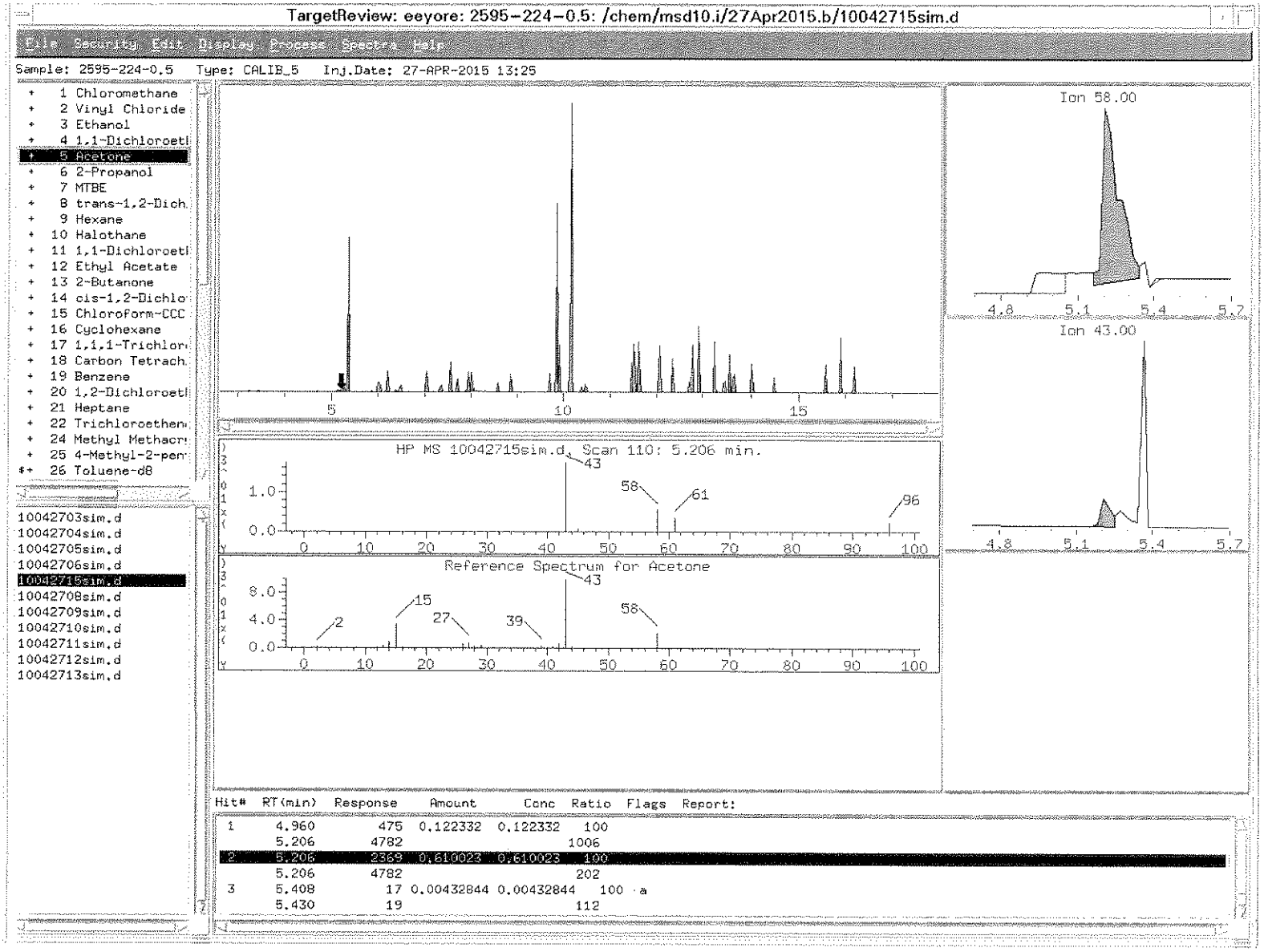


4/28/15
AG

After

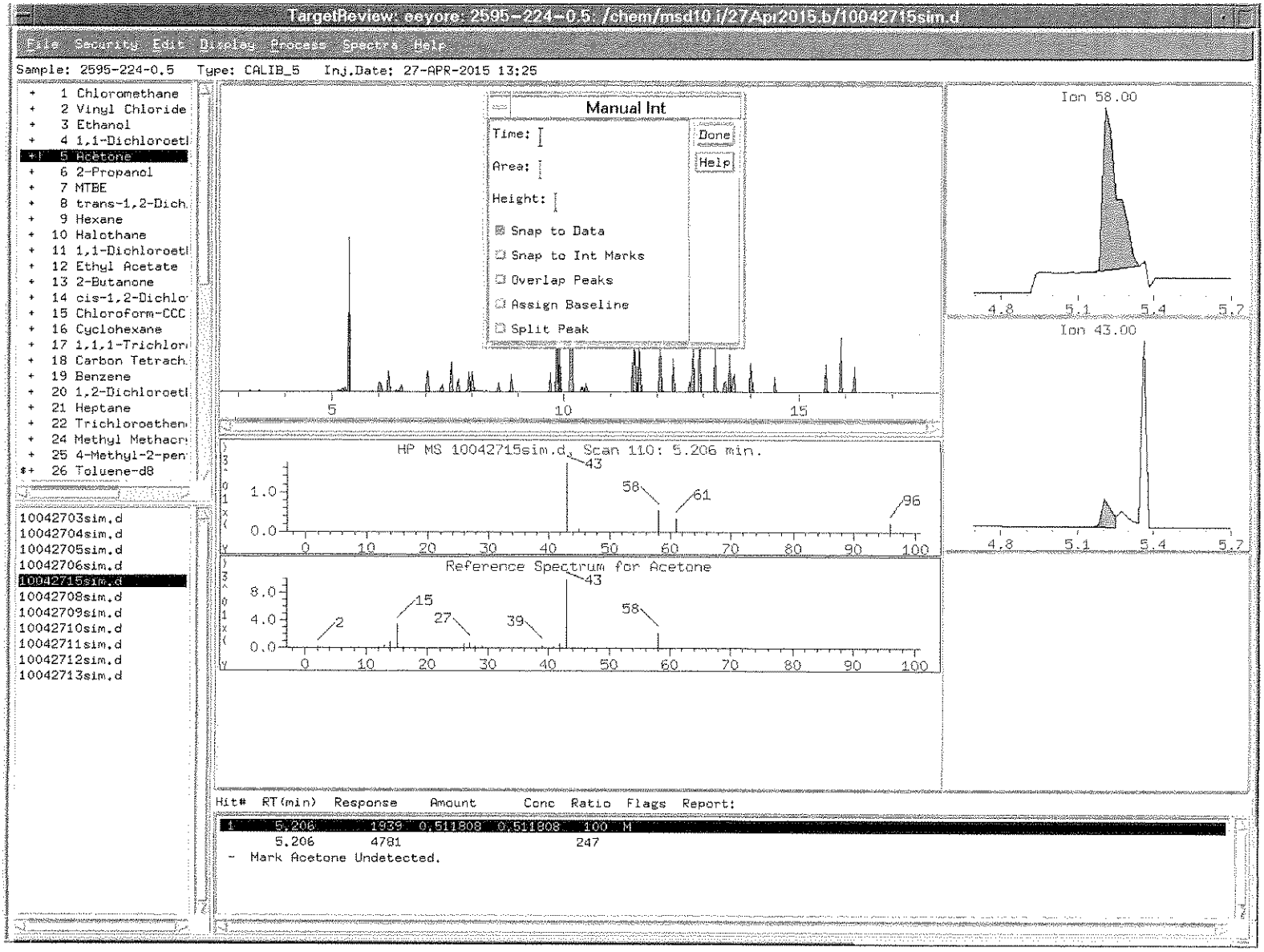
Correct Baseline	✓
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	

gw 4/28/15



Before

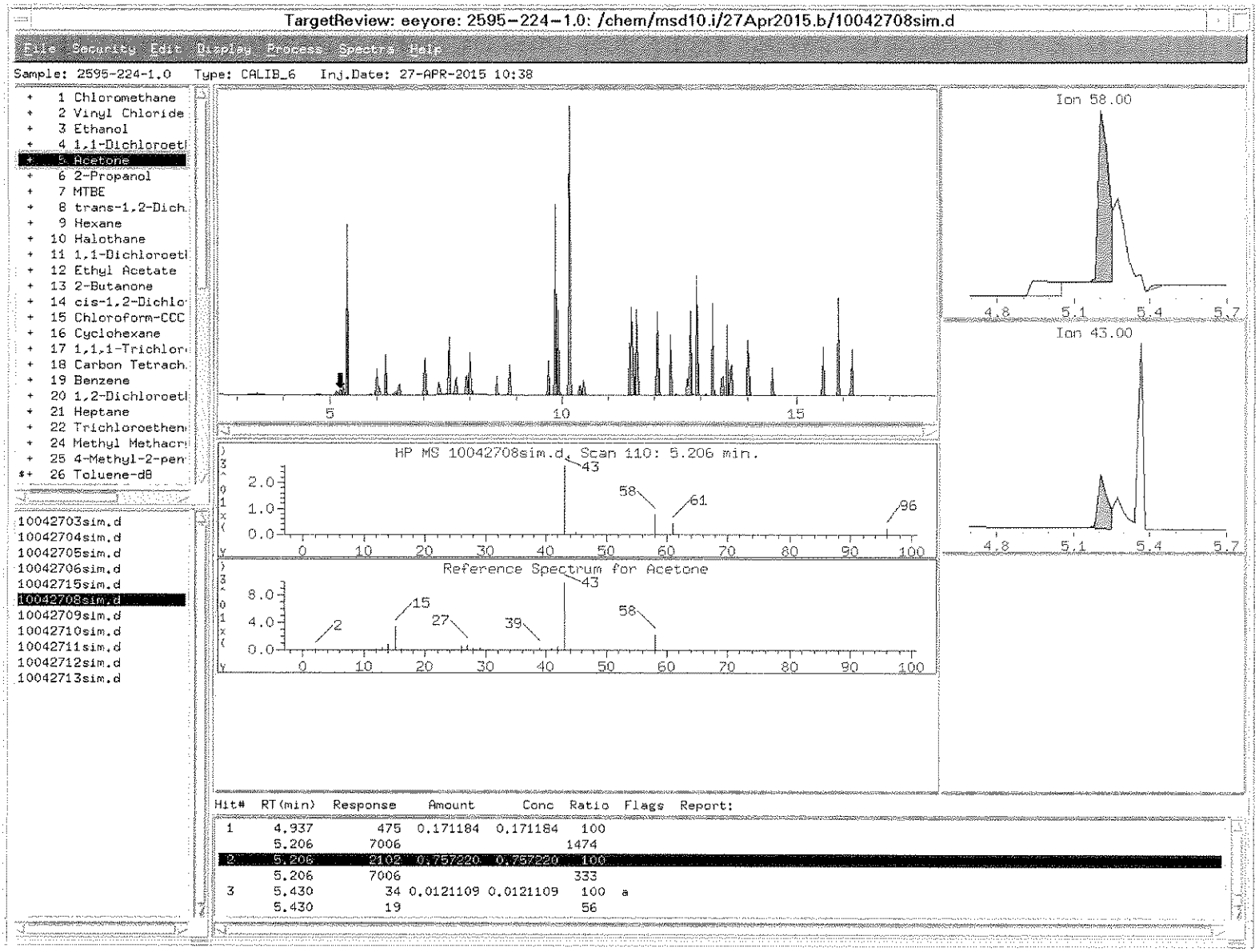
4/28/15



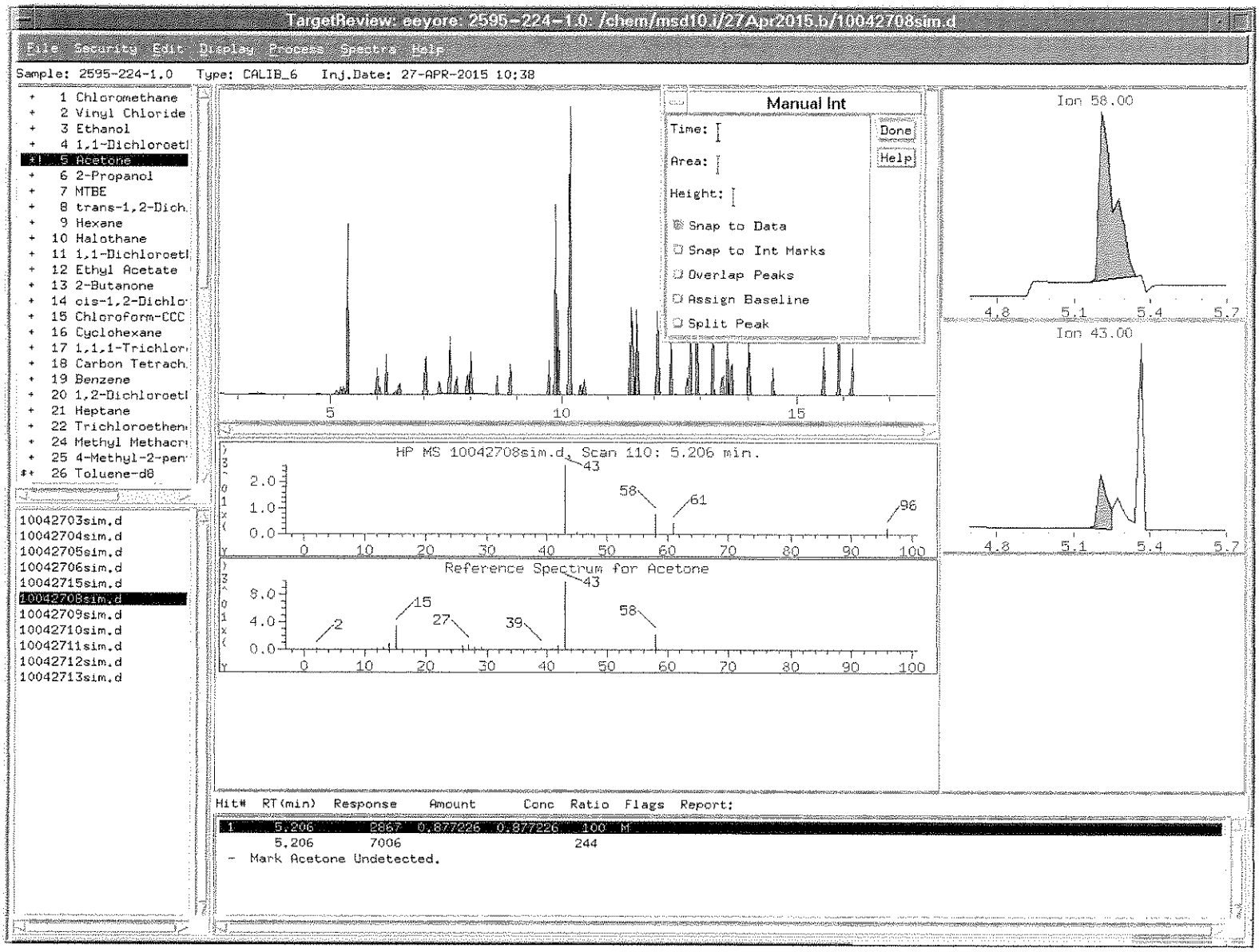
4/28/15
AC

After	
Correct Baseline	✓
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	

4/28/15



Before
gw
4/28/15



4/28/15 Acc

After

Correct Baseline	✓
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	

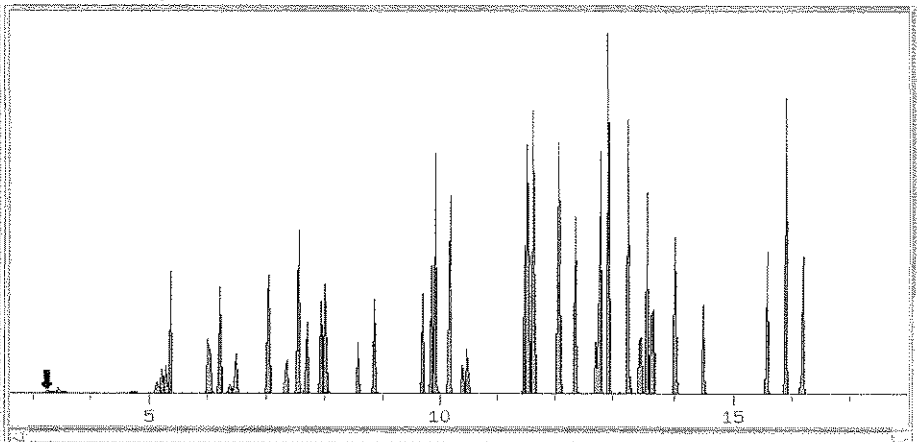
4/28/15

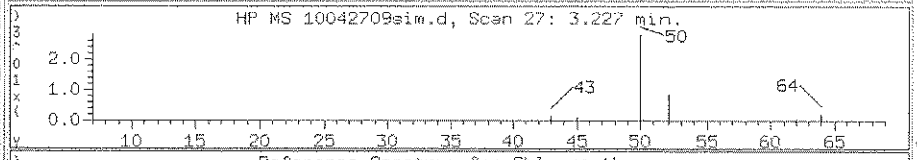
TargetReview: eeyore: 2595-224-5.0: /chem/msd10.i/27Apr2015.b/10042709sim.d

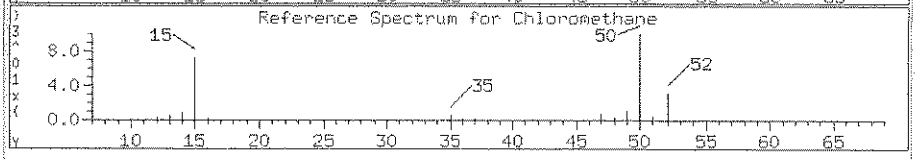
File Security Edit Display Process Spectra Help

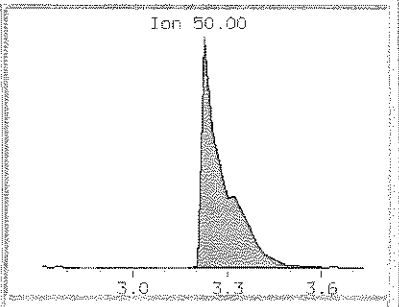
Sample: 2595-224-5.0 Type: CALIB_7 Inj.Date: 27-APR-2015 11:01

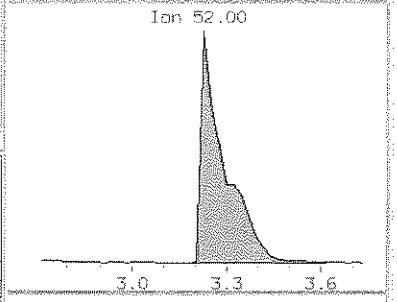
+ 1 Chloromethane
+ 2 Vinyl Chloride
+ 3 Ethanol
+ 4 1,1-Dichloroetl
+ 5 Acetone
+ 6 2-Propanol
+ 7 MTBE
+ 8 trans-1,2-Dich
+ 9 Hexane
+ 10 Halothane
+ 11 1,1-Dichloroetl
+ 12 Ethyl Acetate
+ 13 2-Butanone
+ 14 cis-1,2-Dichlo
+ 15 Chloroform-CCC
+ 16 Cyclohexane
+ 17 1,1,1-Trichlor
+ 18 Carbon Tetrach
+ 19 Benzene
+ 20 1,2-Dichloroetl
+ 21 Heptane
+ 22 Trichloroethen
+ 24 Methyl Methacr
+ 25 4-Methyl-2-pen
$+ 26 Toluene-d8







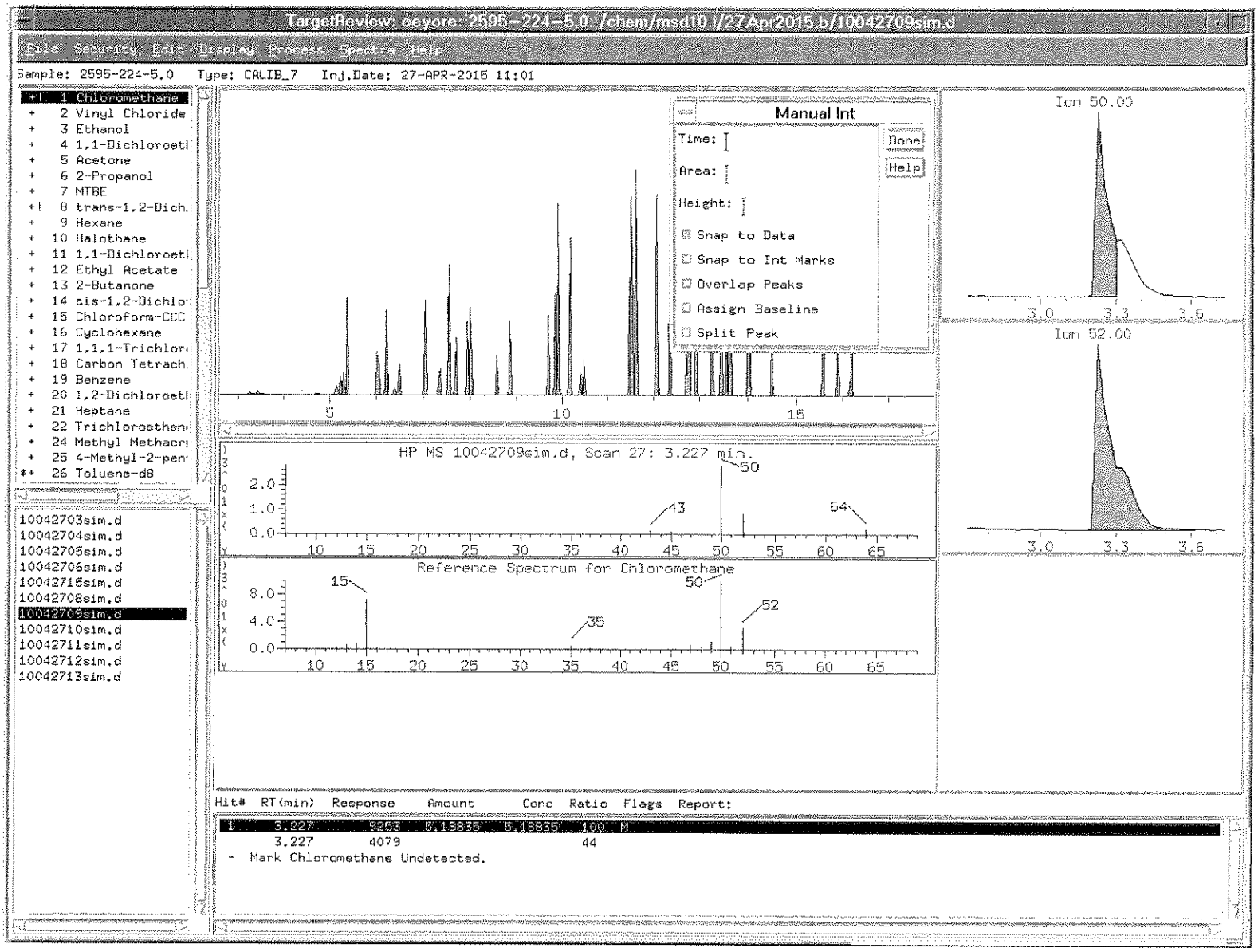




10042703sim.d
10042704sim.d
10042705sim.d
10042706sim.d
10042715sim.d
10042708sim.d
10042709sim.d
10042710sim.d
10042711sim.d
10042712sim.d
10042713sim.d

Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	2.866	9	0.00453940	0.00453940	100	aQ	
	3.227	4079		47048			
2	3.107	9	0.00453940	0.00453940	100	aQ	
	3.227	4079		47048			
3	3.227	13049	6.83191	6.83191	100		
	3.227	4079		31			

Before
gnv
4/28/15



4/28/15
Aes

After

Correct Baseline	
Split Peak	✓
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	

4/28/15

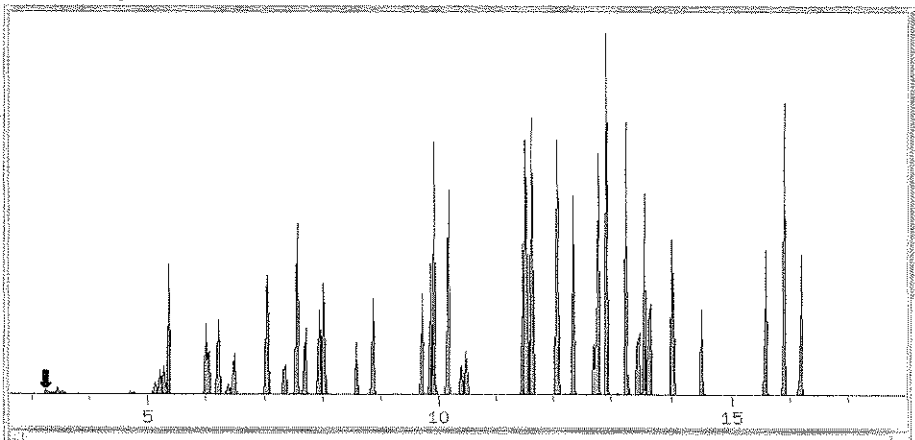
TargetReview: eeyore: 2595-231-5.0: /chem/msd10.i/27Apr2015.b/10042717sim.d

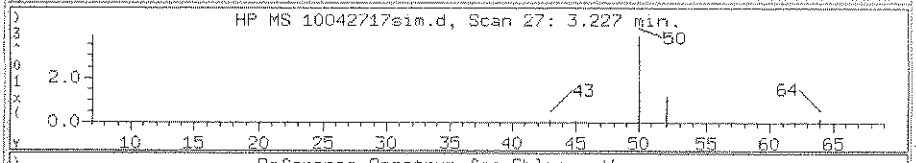
File Security Edit Display Process Spectra Help

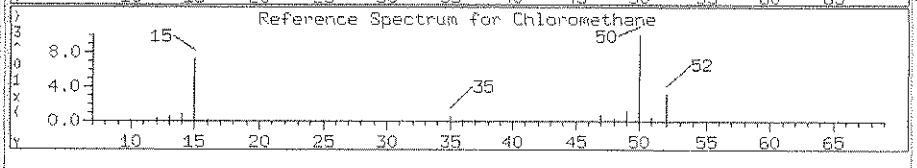
Sample: 2595-231-5.0 Type: LCS Inj.Date: 27-APR-2015 14:15

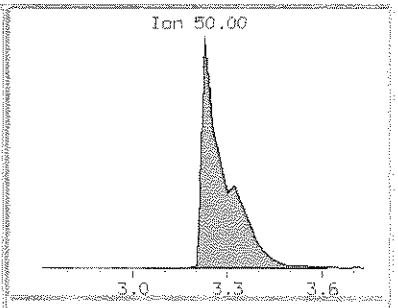
+	1	Chloromethane
+	2	Vinyl Chloride
+	3	Ethanol
+	4	1,1-Dichloroetl
+	5	Acetone
+	6	2-Propanol
+	7	MTBE
+	8	trans-1,2-Dich.
+	9	Hexane
+	10	Halothane
+	11	1,1-Dichloroetl
+	12	Ethyl Acetate
+	13	2-Butanone
+	14	cis-1,2-Dichlo
+	15	Chloroform-CCC
+	16	Cyclohexane
+	17	1,1,1-Trichlor
+	18	Carbon Tetrach.
+	19	Benzene
+	20	1,2-Dichloroetl
+	21	Heptane
+	22	Trichloroethen
+	24	Methyl Methacr
+	25	4-Methyl-2-pen
#+	26	Toluene-d8

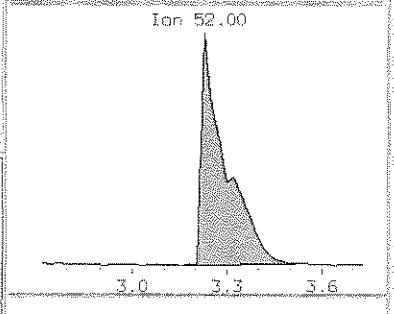
10042717sim.d





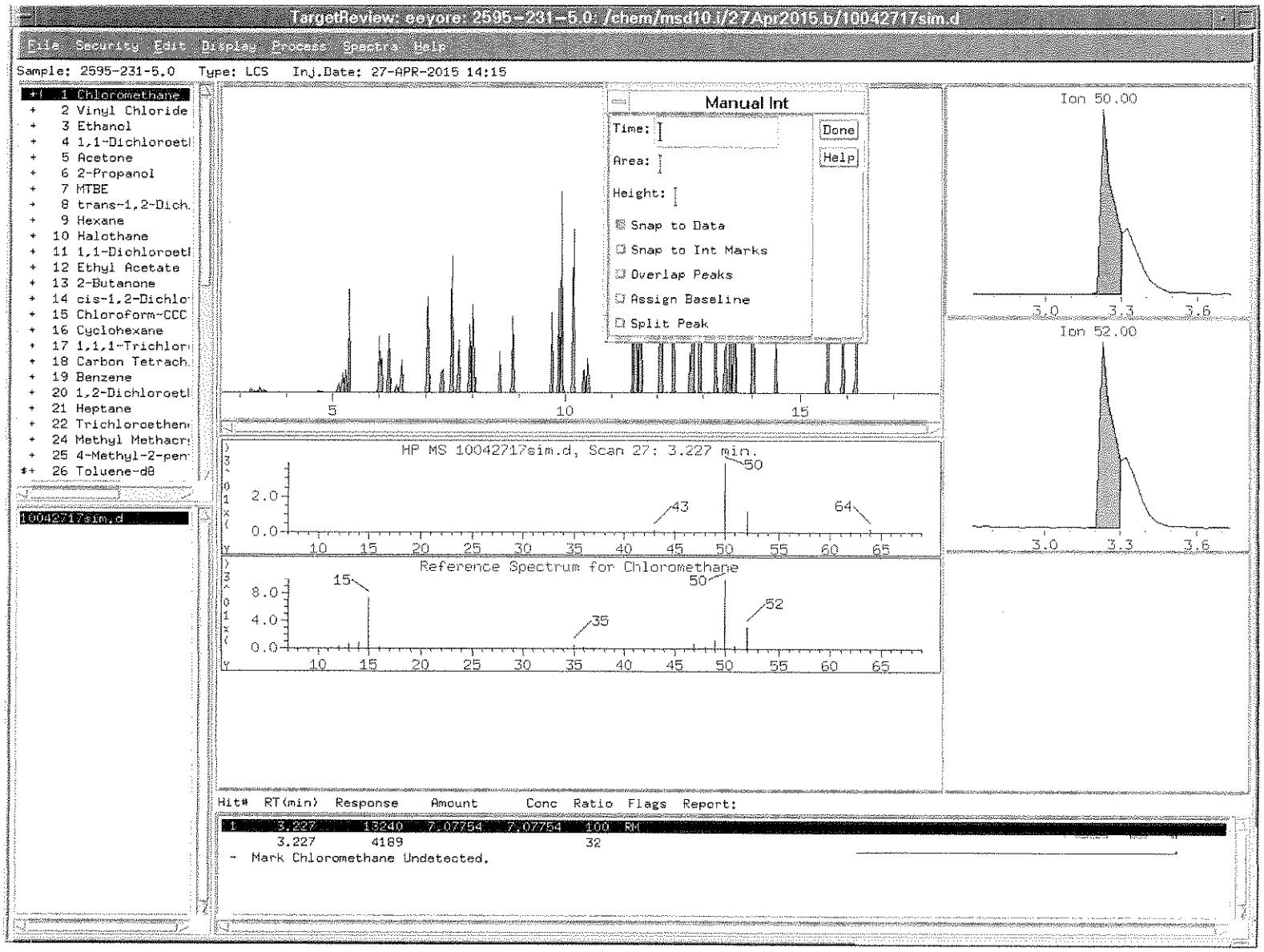






Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	2.866	27	0.0146756	0.0146756	100	aR	
	3.059	38			137		
2	3.011	12	0.00617922	0.00617922	100	aR	
	3.059	38			325		
3	3.227	19211	10.2691	10.2691	100	R	
	3.227	6037			31		

Before
gw
4/28/15



4/28/15

After

Correct Baseline	
Split Peak	✓
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	

4/28/15

Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msd10.i/27Apr2015.b/10042717sim.d
Lab Smp Id: 2595-231-5.0 Client Smp ID: ICV
Inj Date : 27-APR-2015 14:15
Operator : gm Inst ID: msd10.i
Smp Info : ;2595-231-5.0;ICV
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Meth Date : 27-Apr-2015 14:05 gmash Quant Type: ISTD
Cal Date : 27-APR-2015 11:01 Cal File: 10042709sim.d
Als bottle: 17 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug)
1	Chloromethane	50	3.227	3.227	(0.318)	13240	7.07754	7.07754(RM)
2	Vinyl Chloride	62	3.420	3.420	(0.337)	16329	4.90338	4.90338
3	Ethanol	45	4.696	4.696	(0.463)	10770	5.03673	5.03673
4	1,1-Dichloroethene-CCC	96	5.116	5.117	(0.504)	19917	4.65730	4.65730
5	Acetone	58	5.206	5.206	(0.513)	17931	5.16169	5.16169
6	2-Propanol	45	5.273	5.273	(0.519)	51083	5.12839	5.12839
7	MTBE	73	5.996	5.996	(0.591)	98631	4.23084	4.23084
8	trans-1,2-Dichloroethene	96	6.051	6.051	(0.596)	33830	5.03519	5.03519
9	Hexane	57	6.216	6.216	(0.612)	83022	3.85671	3.85670
10	Halothane	117	6.377	6.377	(0.628)	21079	4.89935	4.89935
11	1,1-Dichloroethane-SPCC	63	6.474	6.474	(0.638)	66568	4.56154	4.56154
12	Ethyl Acetate	70	7.013	7.013	(0.691)	10360	4.45219	4.45219
13	2-Butanone	72	7.036	7.036	(0.693)	23769	4.59133	4.59133
14	cis-1,2-Dichloroethene	96	7.058	7.058	(0.695)	36512	4.53396	4.53396
15	Chloroform-CCC	83	7.321	7.352	(0.721)	56800	4.28523	4.28523
16	Cyclohexane	84	7.537	7.537	(0.742)	81823	4.45803	4.45803

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug)
17	1,1,1-Trichloroethane	97	7.537	7.537	(0.742)	68509	4.26671	4.26671
18	Carbon Tetrachloride	117	7.691	7.691	(0.758)	64908	4.52933	4.52933
19	Benzene	78	7.938	7.938	(0.782)	166085	4.52560	4.52560
20	1,2-Dichloroethane	62	7.999	7.999	(0.788)	68750	4.38349	4.38349
21	Heptane	71	8.030	8.030	(0.791)	46059	4.22281	4.22281
22	Trichloroethene	130	8.562	8.562	(0.843)	49763	4.31285	4.31285
24	Methyl Methacrylate	69	8.851	8.851	(0.872)	55131	4.58600	4.58600
25	4-Methyl-2-pentanone	85	9.695	9.695	(0.955)	23969	4.69387	4.69387
$ 26	Toluene-d8	98	9.839	9.839	(0.969)	200678	4.89881	4.89881
28	Toluene-CCC	92	9.912	9.912	(0.976)	153165	4.41205	4.41205
* 29	2-Fluorotoluene	109	10.153	10.153	(1.000)	226705	5.00000	
30	1,1,2-Trichloroethane	97	10.369	10.370	(1.021)	50232	4.42228	4.42228
31	Tetrachloroethene	164	10.466	10.466	(1.031)	47862	4.34797	4.34797
32	Chlorobenzene	112	11.459	11.459	(1.129)	193445	4.43842	4.43842
33	Ethylbenzene-CCC	106	11.510	11.510	(1.134)	104493	4.38691	4.38691
209	1,1,1,2-Tetrachloroethane	131	11.536	11.536	(1.136)	65548	4.40712	4.40712
34	m,p-Xylene	106	11.613	11.613	(1.144)	220410	8.84556	8.84556
36	o-Xylene	106	12.061	12.062	(1.188)	104779	4.29526	4.29526
37	Styrene	104	12.061	12.062	(1.188)	186687	4.58696	4.58696
38	a-Pinene	93	12.336	12.336	(1.215)	170811	5.07613	5.07613
39	1,1,2,2-Tetrachloroethane-SPC	83	12.693	12.693	(1.250)	77918	4.35216	4.35216
40	Propylbenzene	91	12.748	12.748	(1.256)	273575	4.26663	4.26662
210	1,2,3-Trichloropropane	110	12.775	12.775	(1.258)	32119	4.38718	4.38718
41	1,3,5-Trimethylbenzene	105	12.913	12.913	(1.272)	375685	4.76306	4.76306
42	1,2,4-Trimethylbenzene	105	13.253	13.253	(1.305)	306651	4.65958	4.65958
43	R-(+)-Limonene	68	13.470	13.470	(1.327)	86990	4.53449	4.53449
44	1,3-Dichlorobenzene	146	13.566	13.566	(1.336)	191659	4.54649	4.54649
45	1,4-Dichlorobenzene	146	13.662	13.638	(1.346)	142248	4.40788	4.40788
46	1,2-Dichlorobenzene	146	14.000	14.000	(1.379)	162751	4.43048	4.43048
47	1,4-Dithiane	120	14.482	14.482	(1.426)	101394	4.44807	4.44807
48	1,2,4-Trichlorobenzene	180	15.591	15.592	(1.536)	128964	4.31674	4.31674
49	Naphthalene	128	15.905	15.905	(1.567)	466958	4.49882	4.49882
50	1,2,3-Trichlorobenzene	180	16.194	16.194	(1.595)	128751	4.41412	4.41412

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd10.i
Lab File ID: 10042717sim.d
Lab Smp Id: 2595-231-5.0
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

Calibration Date: 27-APR-2015
Calibration Time: 11:01
Client Smp ID: ICV
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	216118	108059	432236	226705	4.90

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 27Apr2015
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 2595-231-5.0 Client Smp ID: ICV
Level: MED Operator: gm
Data Type: MS DATA SampleType: LCS
SpikeList File: ICV.spk Quant Type: ISTD
Sublist File: all.sub
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

	SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
1	Chloromethane	5.00000	7.07754	141.55*	70-130
2	Vinyl Chloride	5.00000	4.90338	98.07	50-140
3	Ethanol	5.00000	5.03673	100.73	70-130
4	1,1-Dichloroethene	5.00000	4.65730	93.15	70-130
5	Acetone	5.00000	5.16169	103.23	70-130
6	2-Propanol	5.00000	5.12839	102.57	50-130
7	MTBE	5.00000	4.23084	84.62	70-130
8	trans-1,2-Dichloro	5.00000	5.03519	100.70	70-130
9	Hexane	5.00000	3.85670	77.13	70-130
10	Halothane	5.00000	4.89935	97.99	70-130
11	1,1-Dichloroethane	5.00000	4.56154	91.23	80-120
12	Ethyl Acetate	5.00000	4.45219	89.04	70-130
13	2-Butanone	5.00000	4.59133	91.83	70-130
14	cis-1,2-Dichloroet	5.00000	4.53396	90.68	80-120
15	Chloroform-CCC	5.00000	4.28523	85.70	80-120
16	Cyclohexane	5.00000	4.45803	89.16	70-130
17	1,1,1-Trichloroeth	5.00000	4.26671	85.33	80-120
18	Carbon Tetrachlori	5.00000	4.52933	90.59	80-120
19	Benzene	5.00000	4.52560	90.51	70-130
20	1,2-Dichloroethane	5.00000	4.38349	87.67	80-120
21	Heptane	5.00000	4.22281	84.46	80-120
22	Trichloroethene	5.00000	4.31285	86.26	80-120
24	Methyl Methacrylat	5.00000	4.58600	91.72	70-130
25	4-Methyl-2-pentano	5.00000	4.69387	93.88	70-130
28	Toluene-CCC	5.00000	4.41205	88.24	80-120
30	1,1,2-Trichloroeth	5.00000	4.42228	88.45	80-120
31	Tetrachloroethene	5.00000	4.34797	86.96	80-120
32	Chlorobenzene	5.00000	4.43842	88.77	80-120
33	Ethylbenzene-CCC	5.00000	4.38691	87.74	80-120
209	1,1,1,2-Tetrachlor	5.00000	4.40712	88.14	80-120
34	m,p-Xylene	10.0000	8.84556	88.46	80-120
36	o-Xylene	5.00000	4.29526	85.91	70-130
37	Styrene	5.00000	4.58696	91.74	70-130

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
38 a-Pinene	5.00000	5.07613	101.52	70-130
39 1,1,2,2-Tetrachlor	5.00000	4.35216	87.04	70-130
40 Propylbenzene	5.00000	4.26662	85.33	80-120
210 1,2,3-Trichloropro	5.00000	4.38718	87.74	80-120
41 1,3,5-Trimethylben	5.00000	4.76306	95.26	80-120
42 1,2,4-Trimethylben	5.00000	4.65958	93.19	80-120
43 R-(+)-Limonene	5.00000	4.53449	90.69	70-130
44 1,3-Dichlorobenzen	5.00000	4.54649	90.93	70-130
45 1,4-Dichlorobenzen	5.00000	4.40788	88.16	70-130
46 1,2-Dichlorobenzen	5.00000	4.43048	88.61	70-130
47 1,4-Dithiane	5.00000	4.44807	88.96	70-130
48 1,2,4-Trichloroben	5.00000	4.31674	86.33	70-130
49 Naphthalene	5.00000	4.49882	89.98	70-130
50 1,2,3-Trichloroben	5.00000	4.41412	88.28	70-130

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 26 Toluene-d8	5.00000	4.89881	97.98	70-130

Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

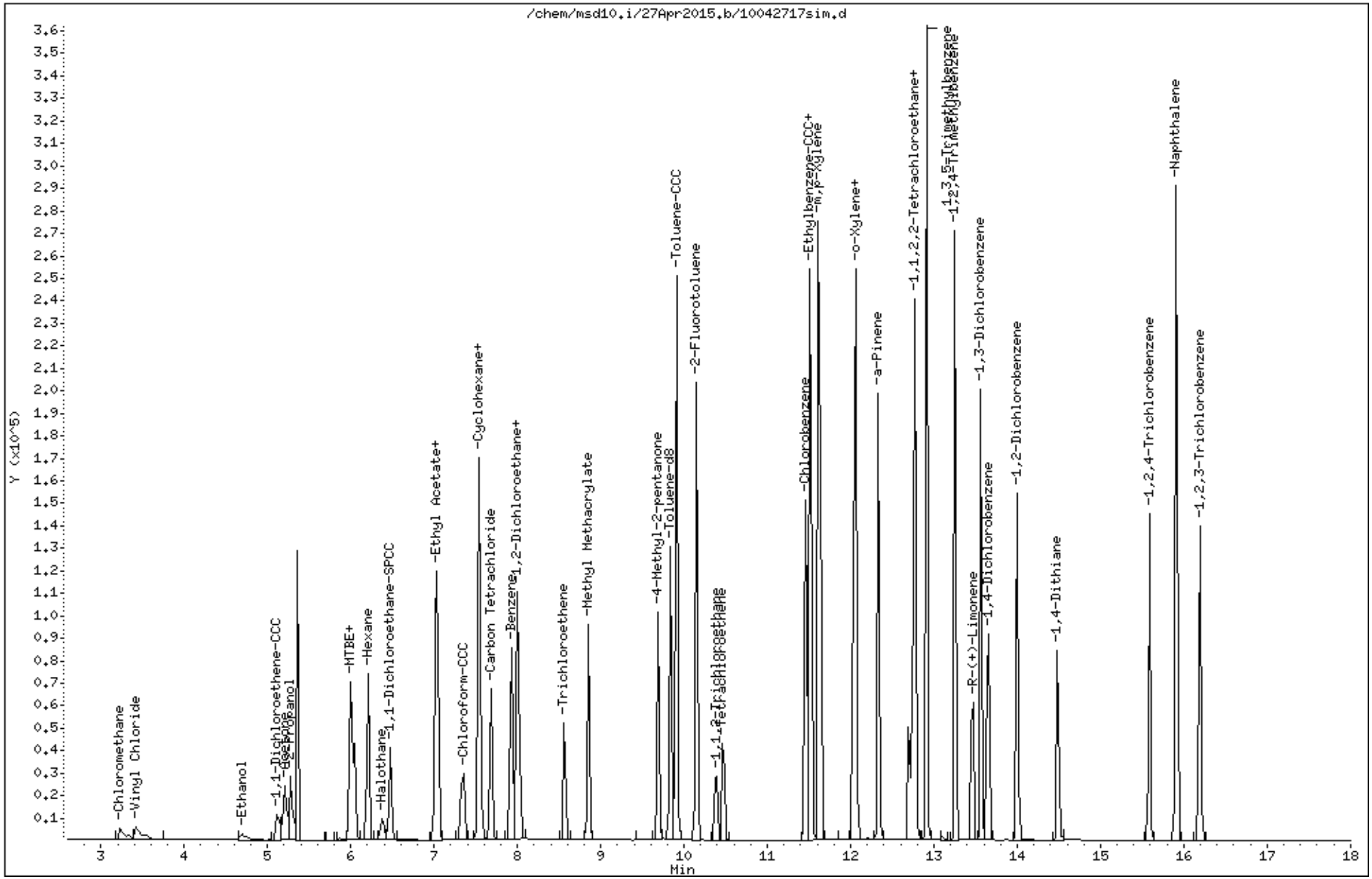
Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

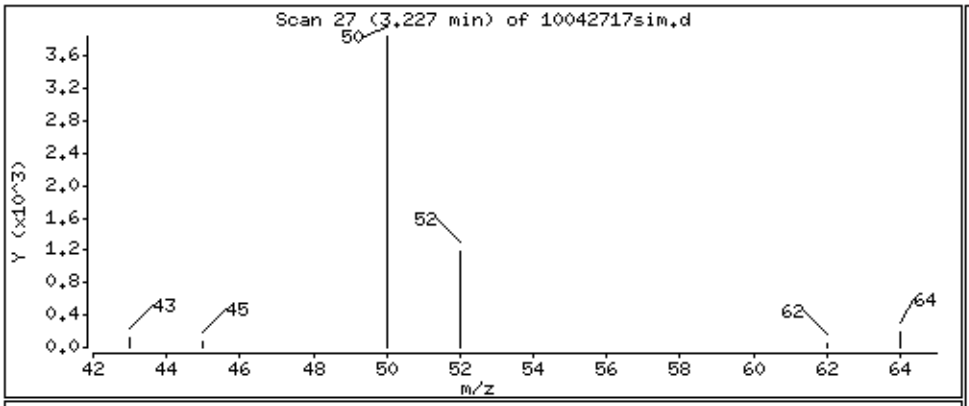
Operator: gm

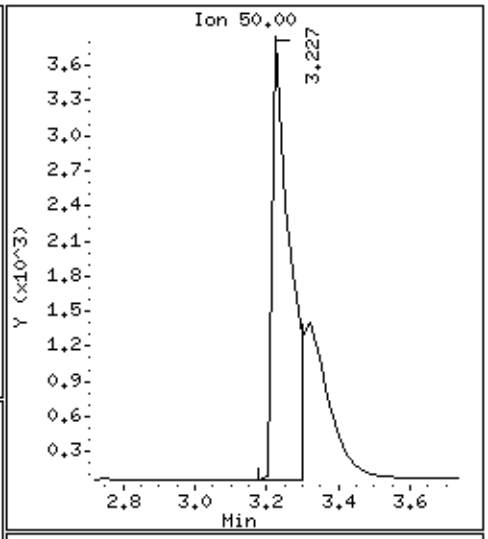
Column phase: DB-5.625

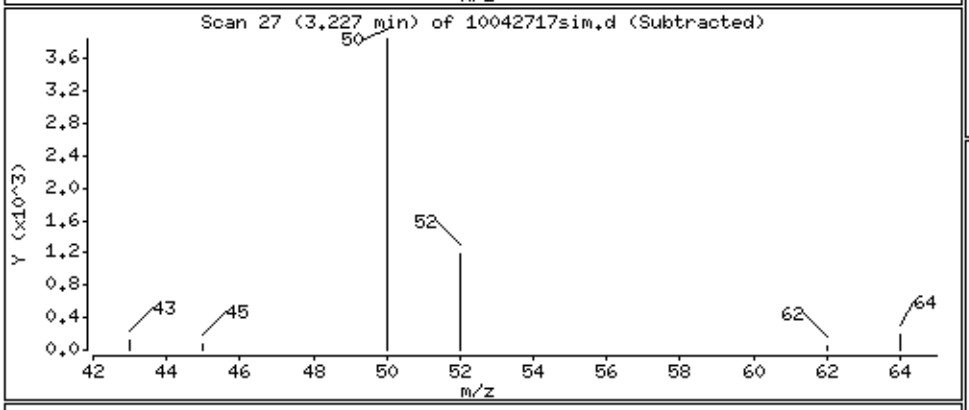
Column diameter: 0.25

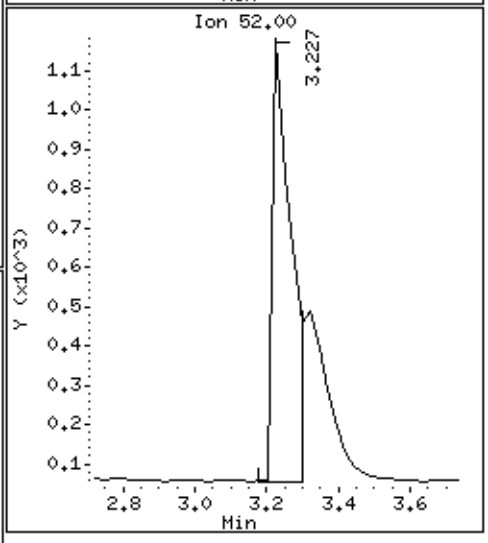
1 Chloromethane

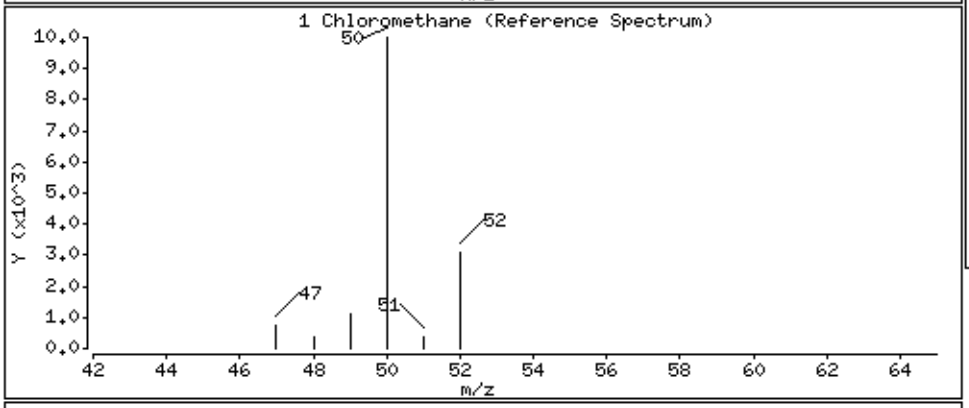
Concentration: 7.07754 ug

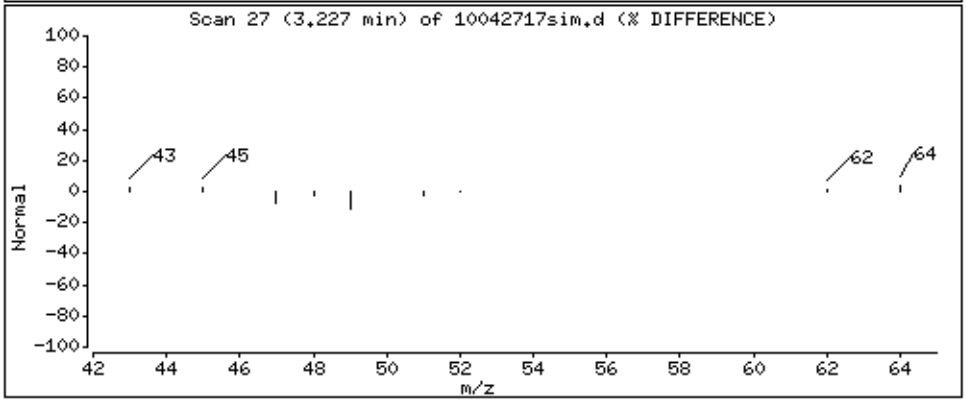












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

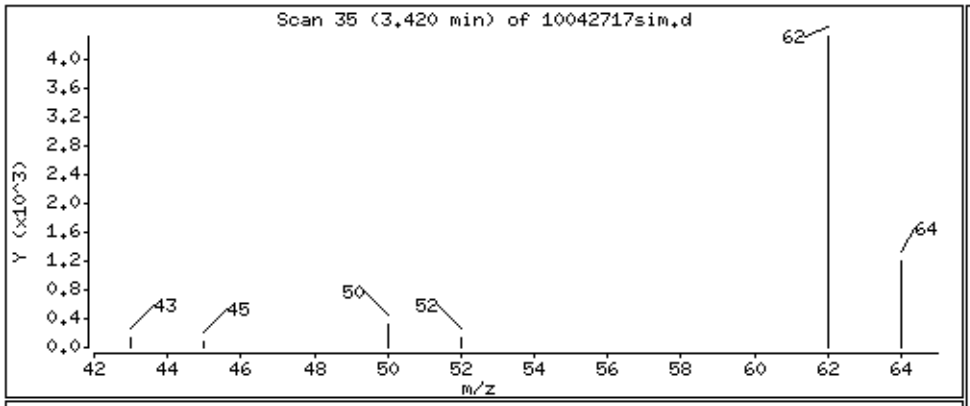
Operator: gm

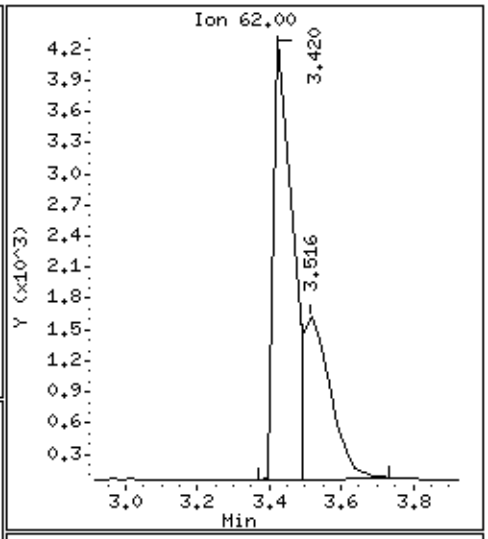
Column phase: DB-5.625

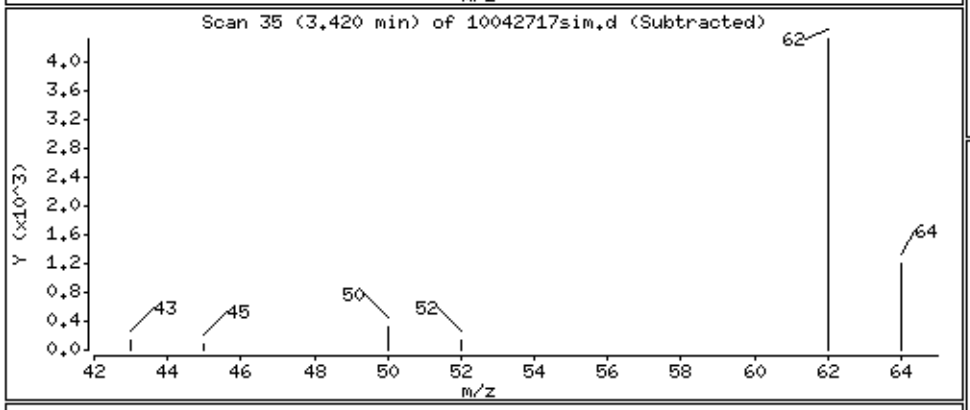
Column diameter: 0.25

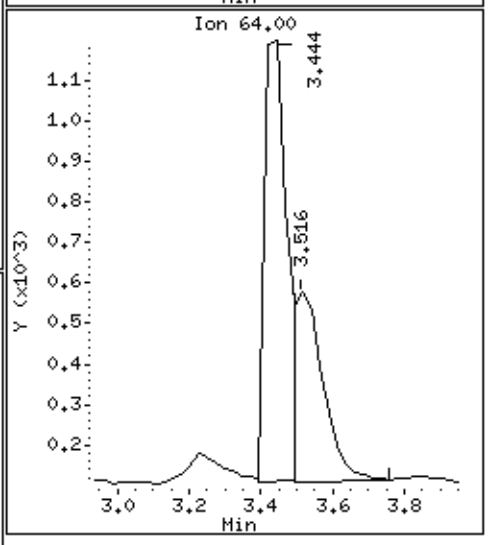
2 Vinyl Chloride

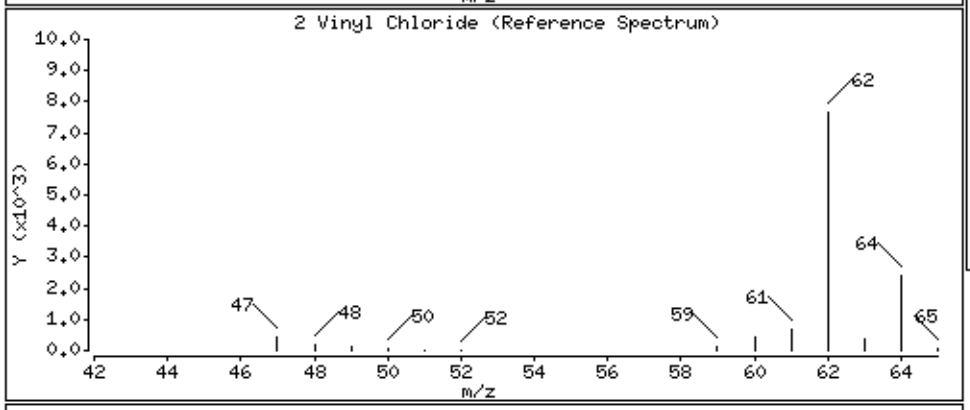
Concentration: 4.90338 ug

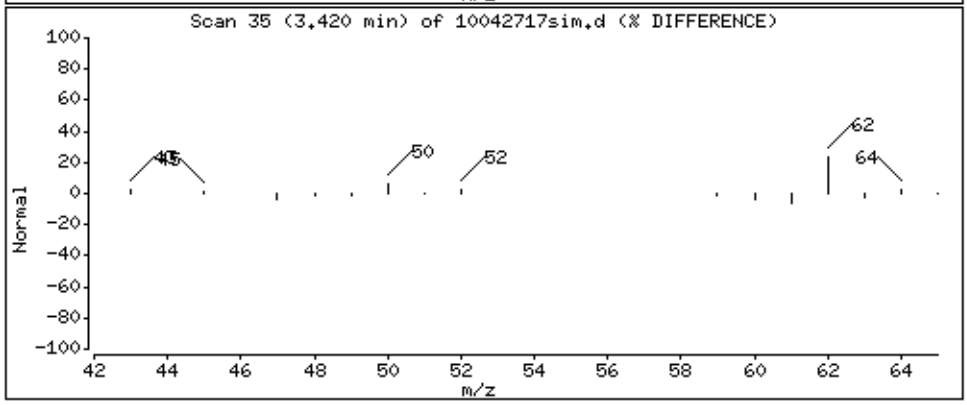












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

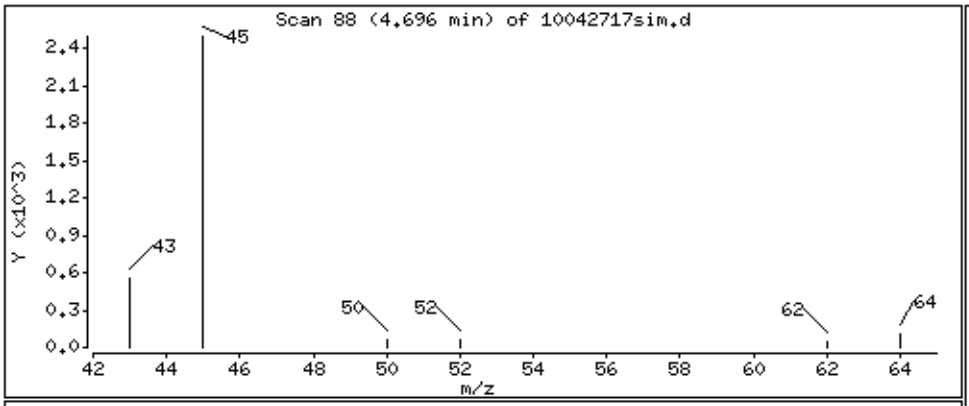
Operator: gm

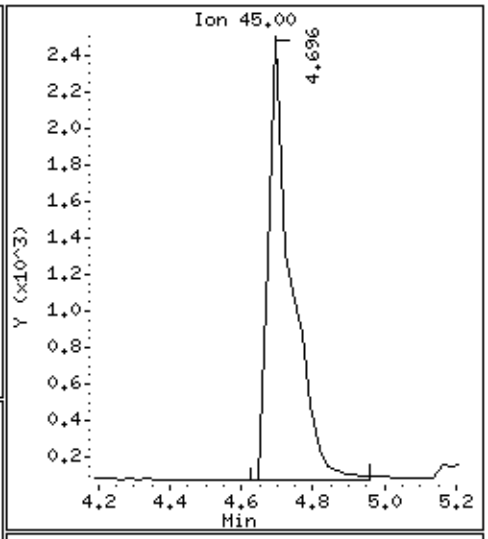
Column phase: DB-5.625

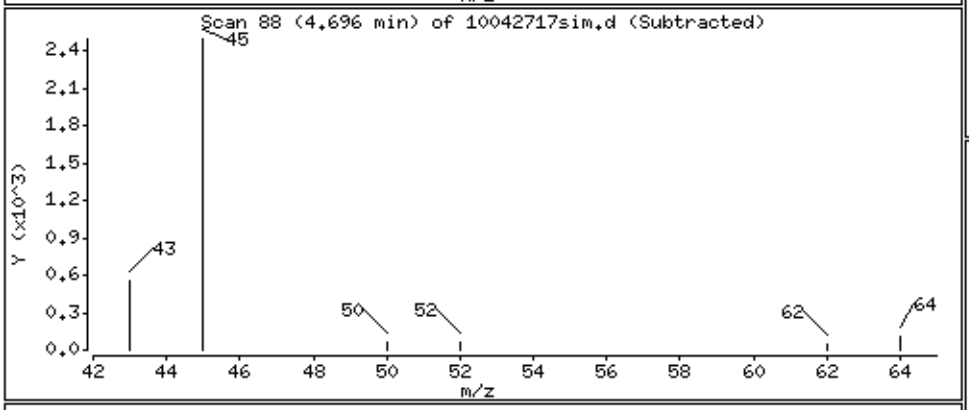
Column diameter: 0.25

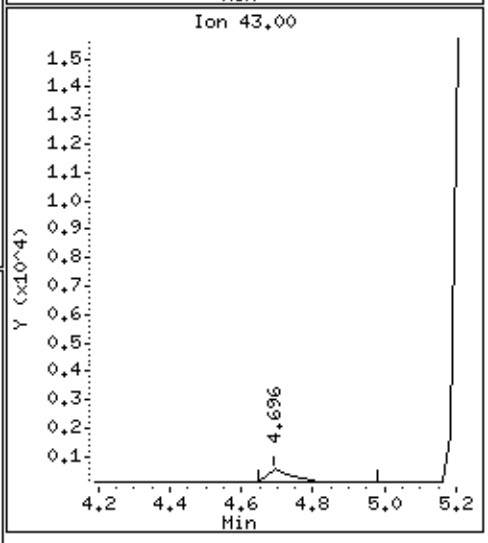
3 Ethanol

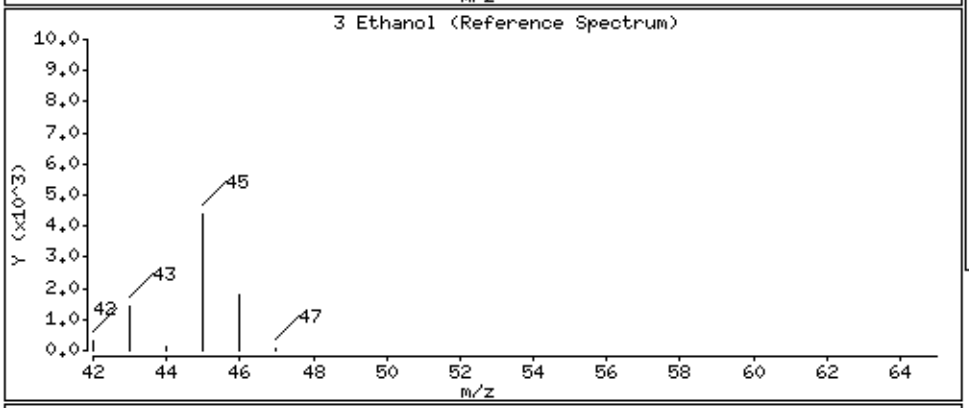
Concentration: 5.03673 ug

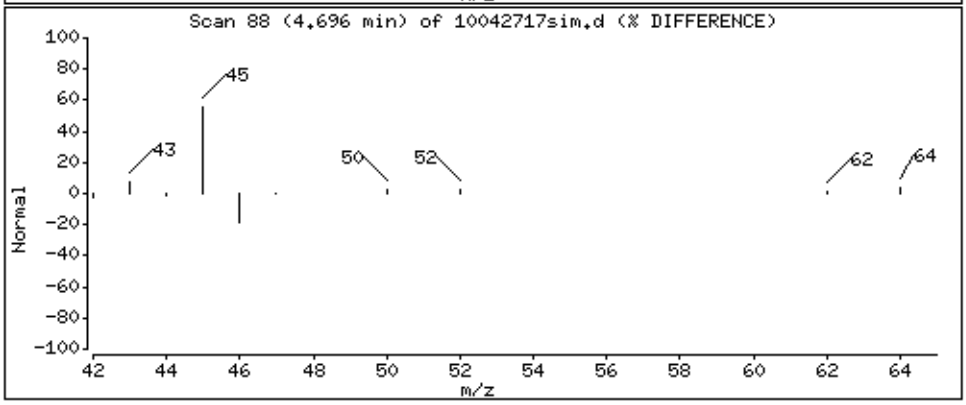












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

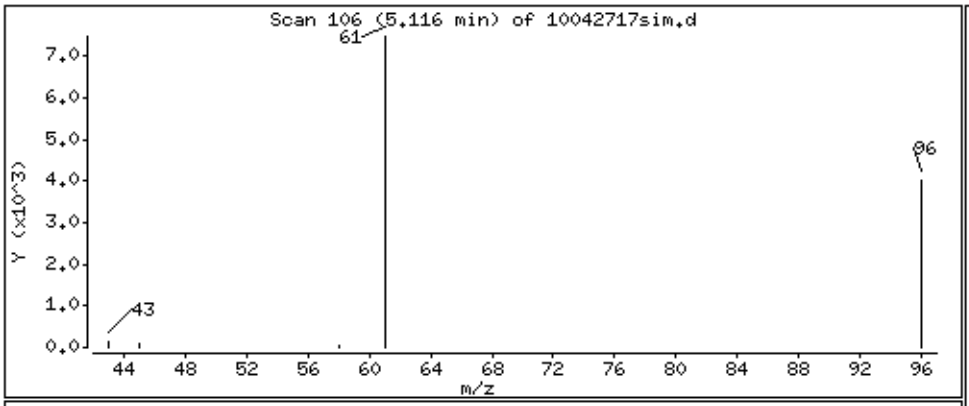
Operator: gm

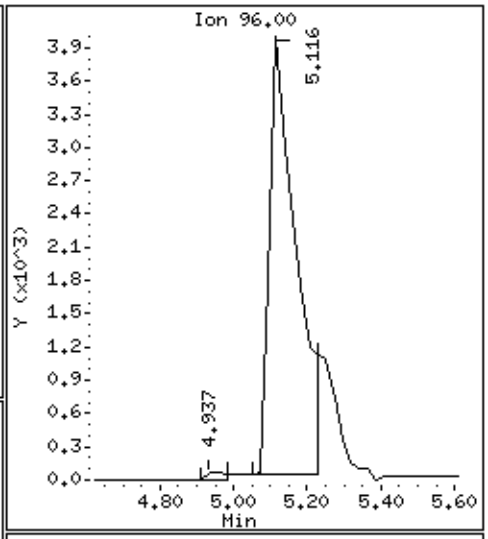
Column phase: DB-5.625

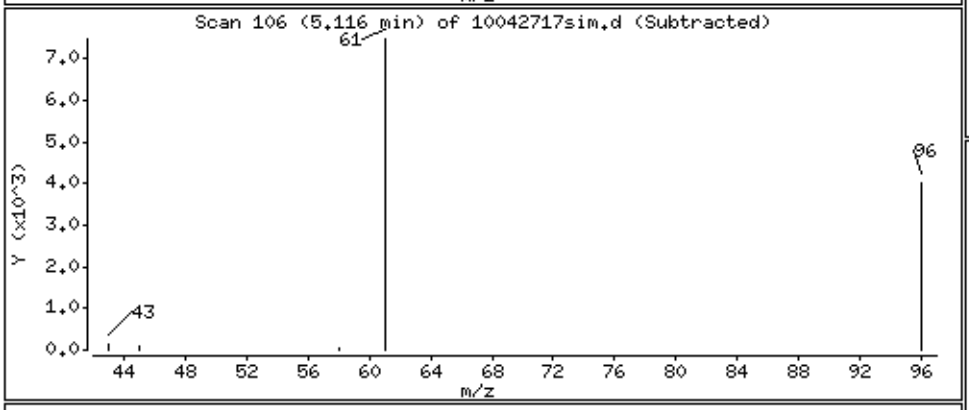
Column diameter: 0.25

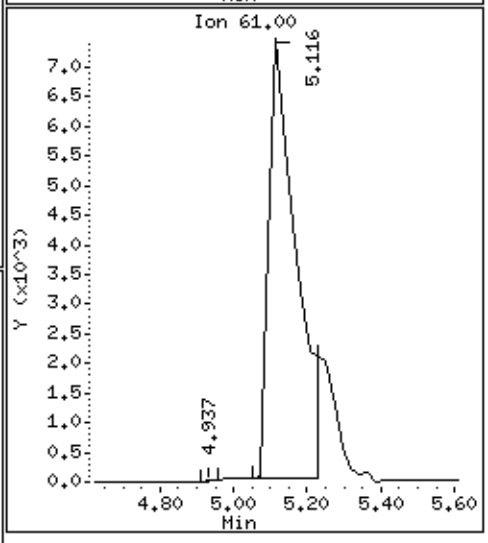
4 1,1-Dichloroethene-CCC

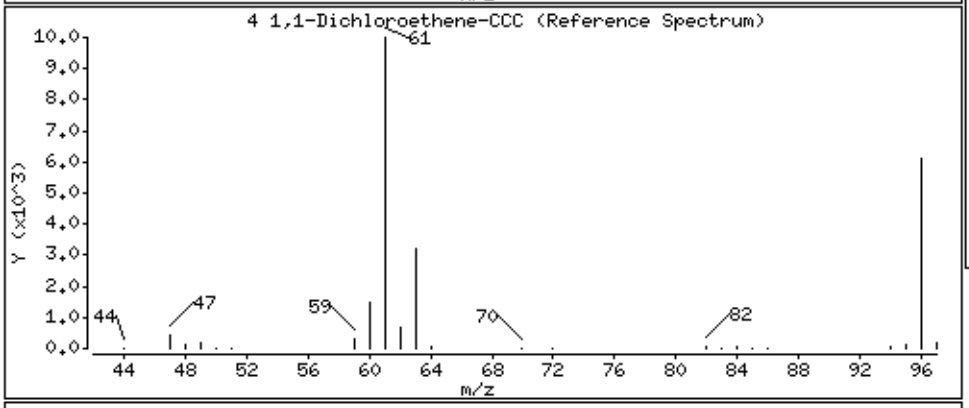
Concentration: 4.65730 ug

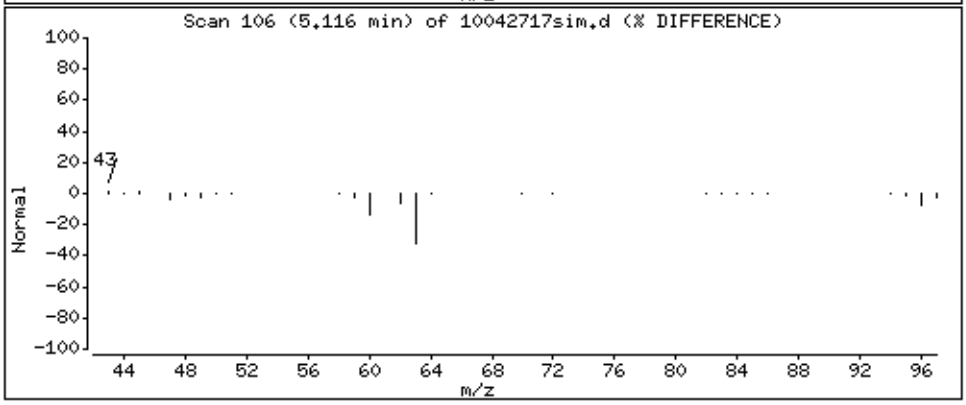












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

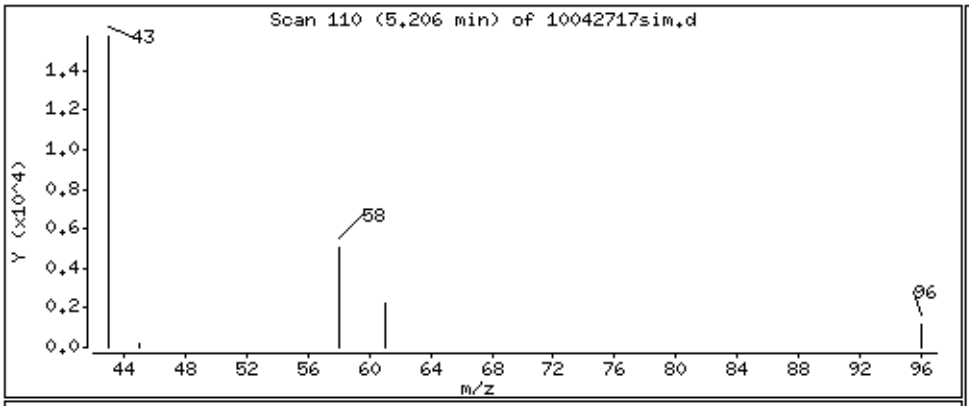
Operator: gm

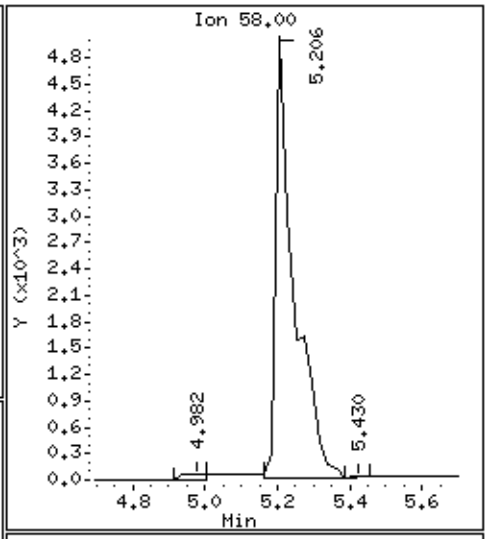
Column phase: DB-5.625

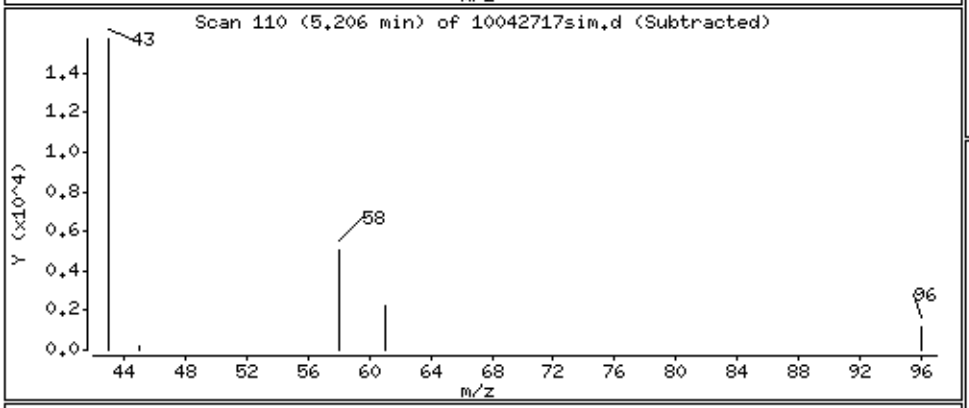
Column diameter: 0.25

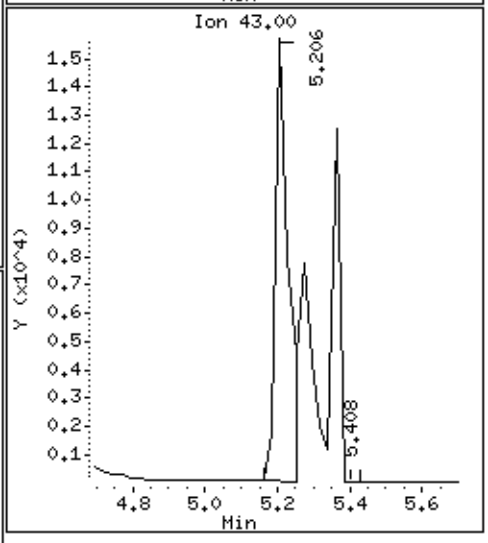
5 Acetone

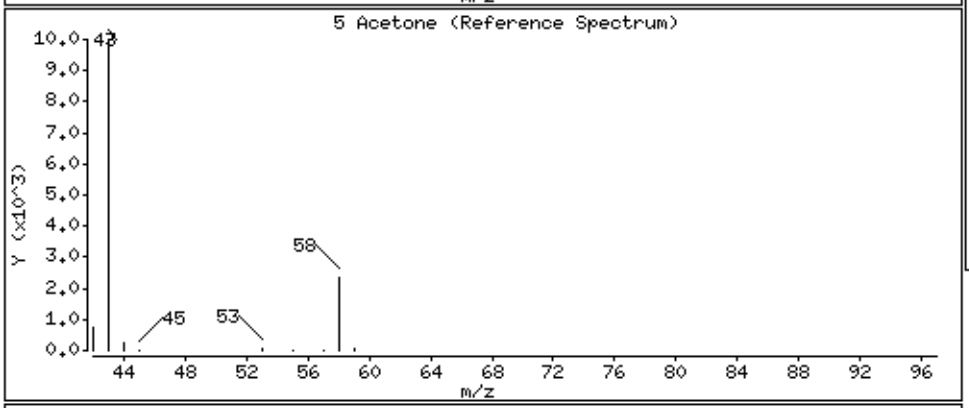
Concentration: 5.16169 ug

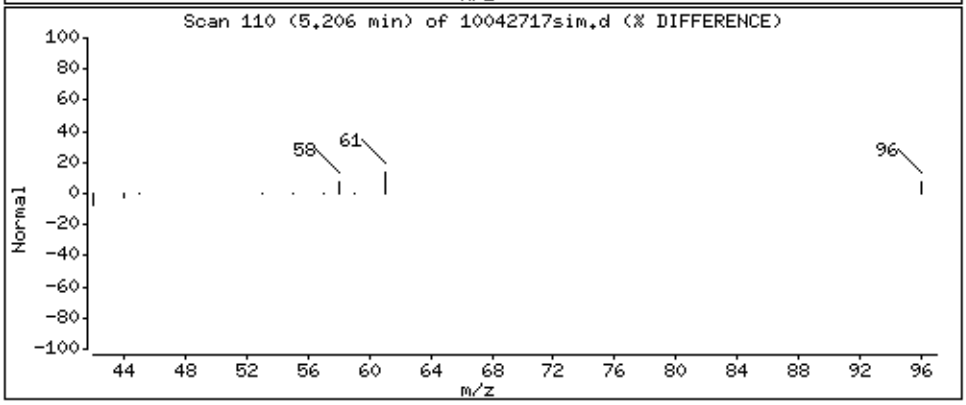












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

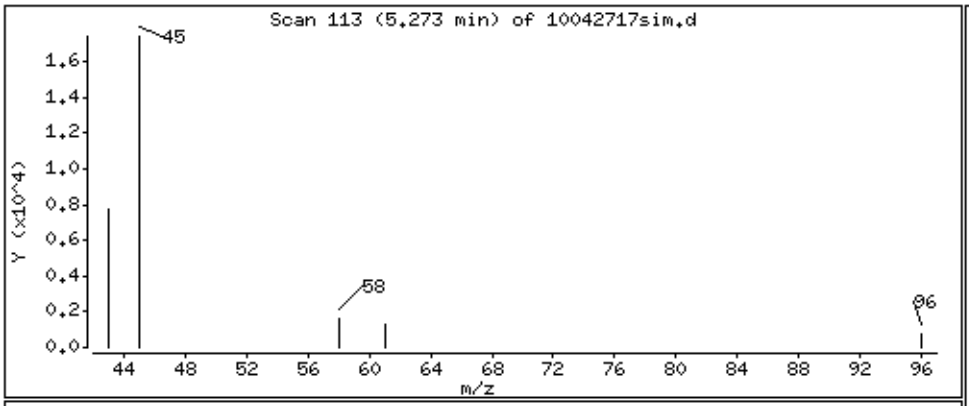
Operator: gm

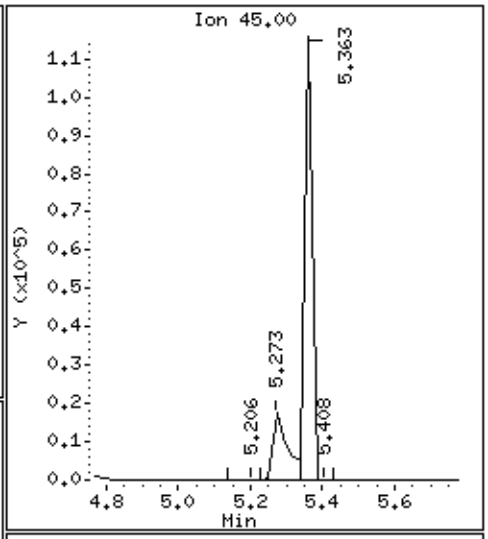
Column phase: DB-5.625

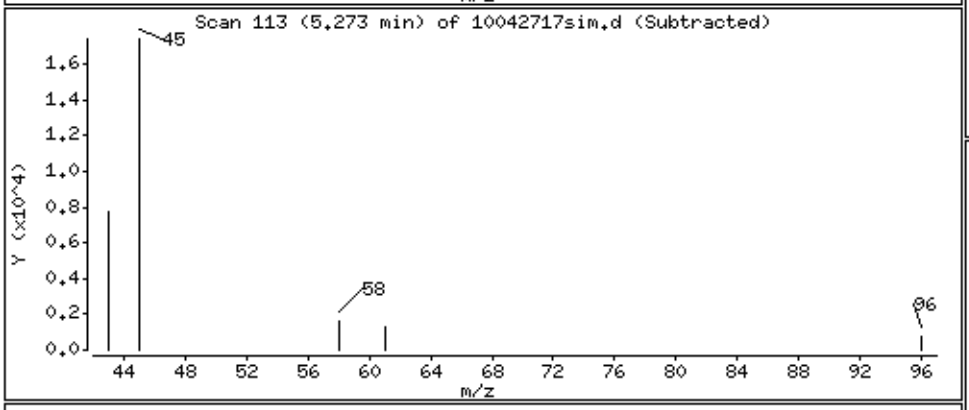
Column diameter: 0.25

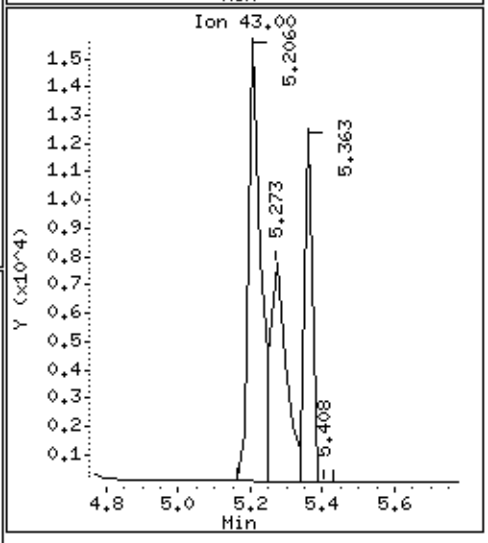
6 2-Propanol

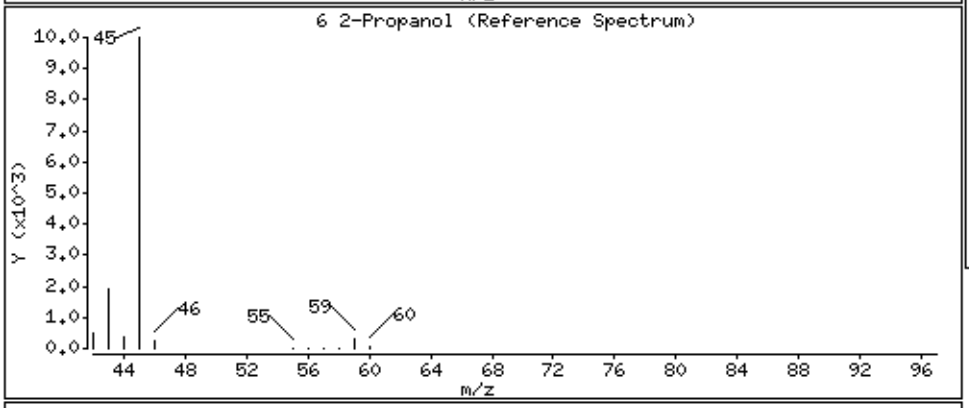
Concentration: 5.12839 ug

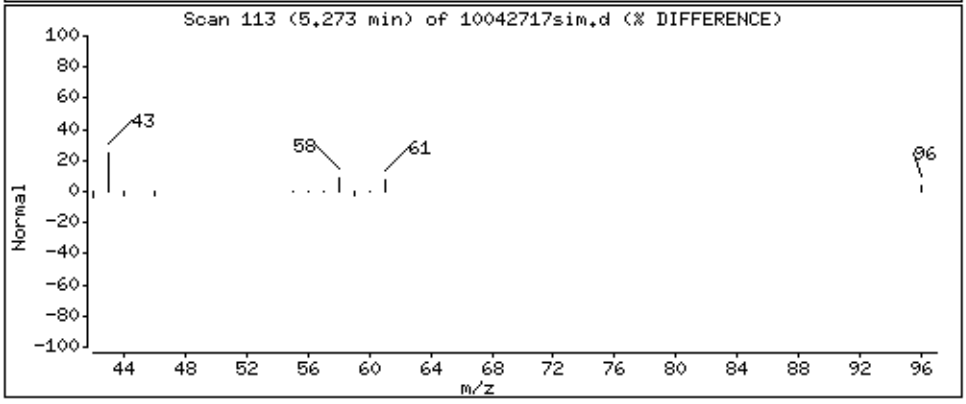












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

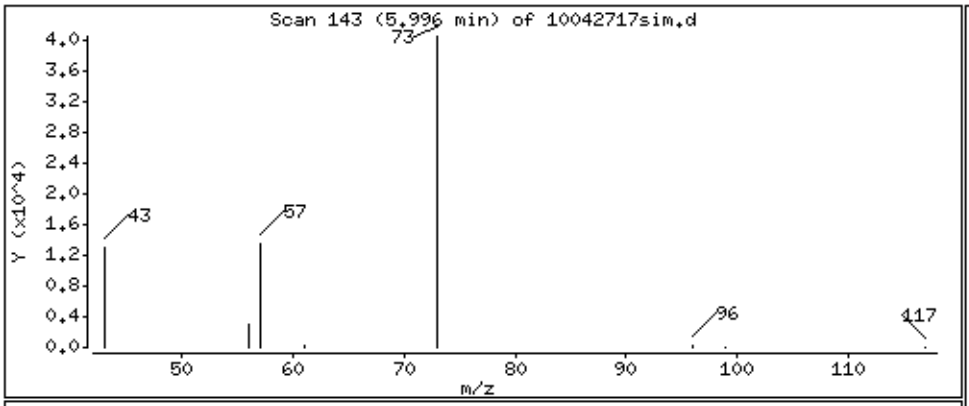
Operator: gm

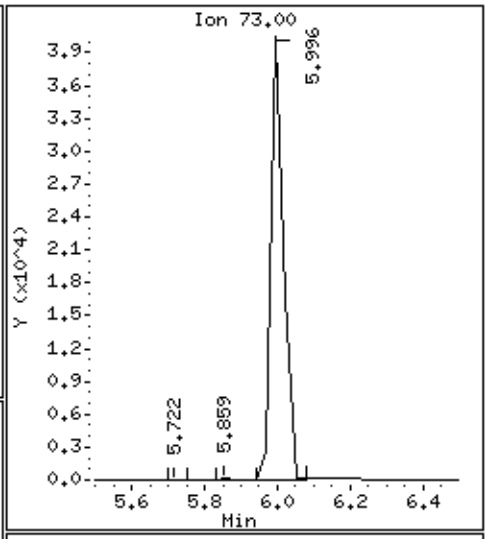
Column phase: DB-5.625

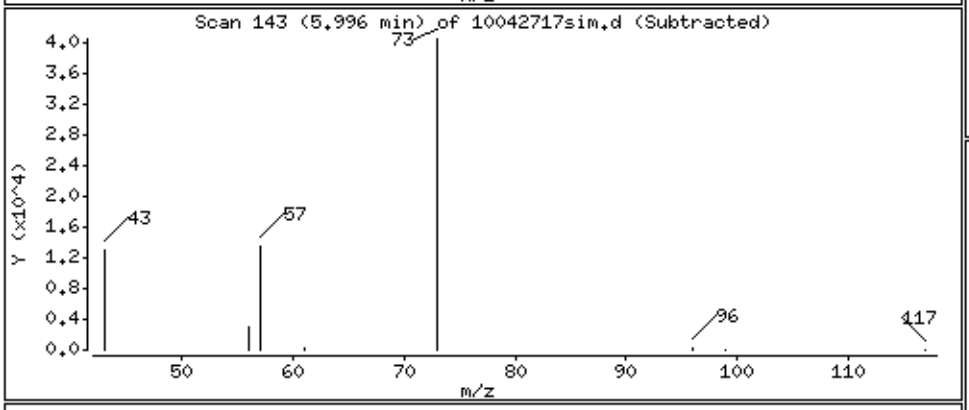
Column diameter: 0.25

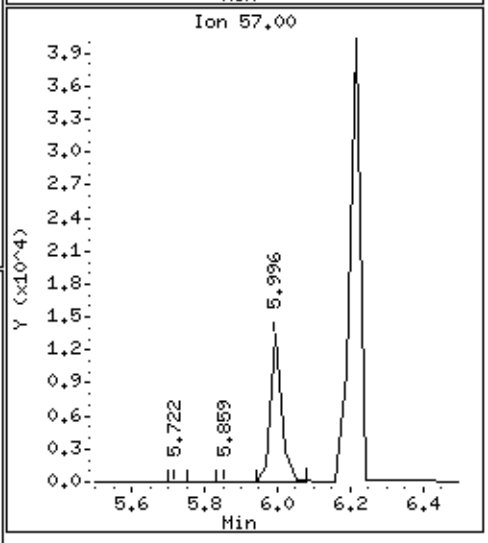
7 MTBE

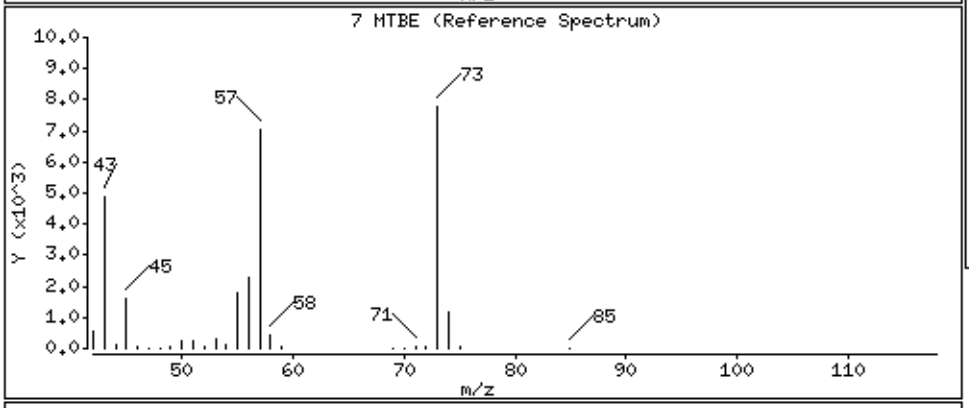
Concentration: 4.23084 ug

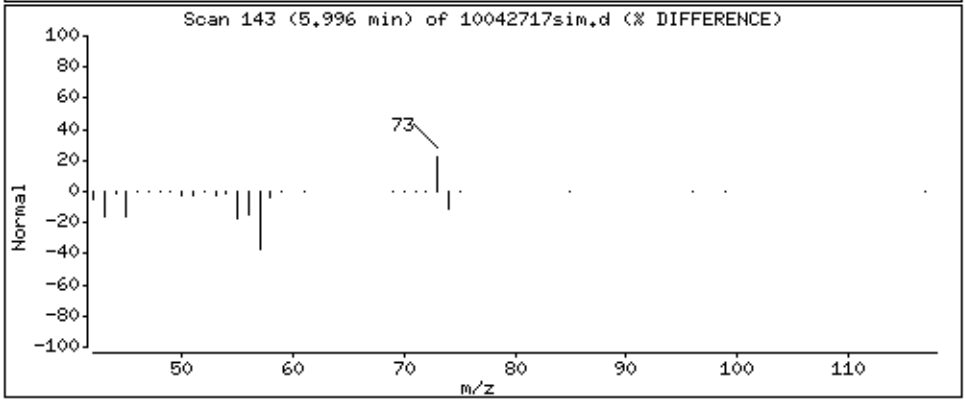












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

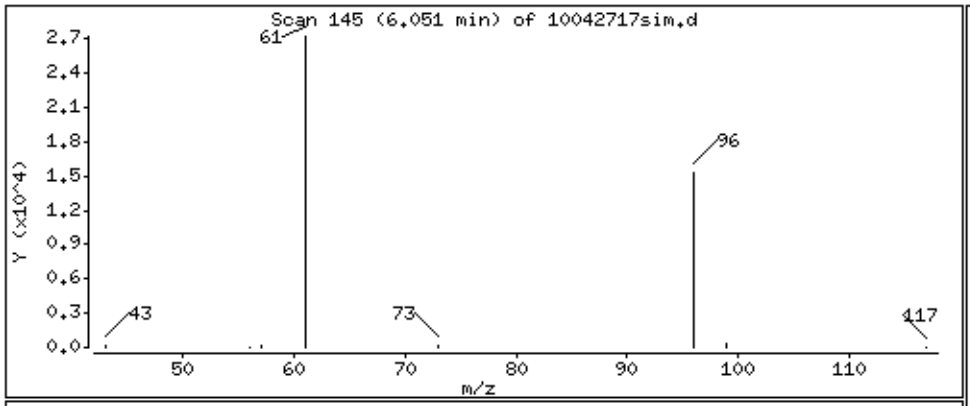
Operator: gm

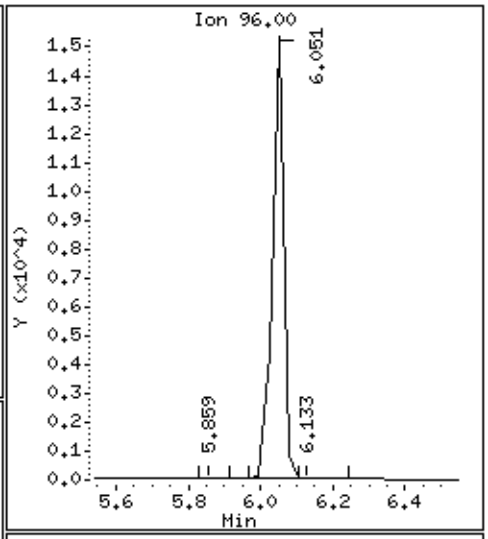
Column phase: DB-5.625

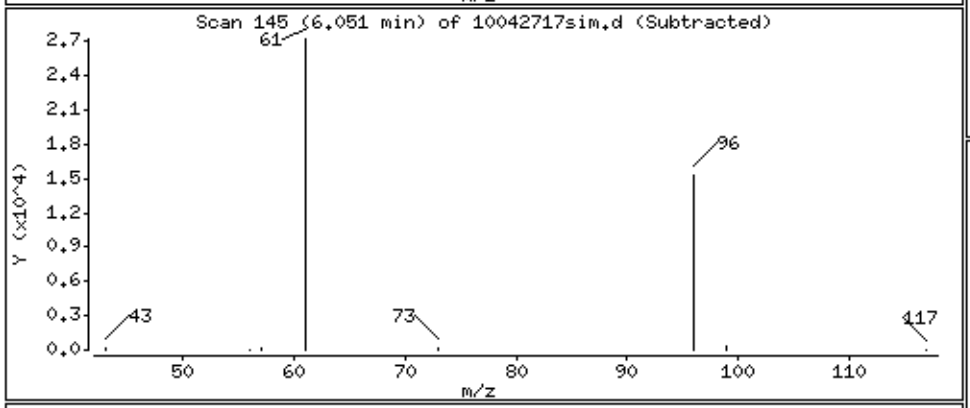
Column diameter: 0.25

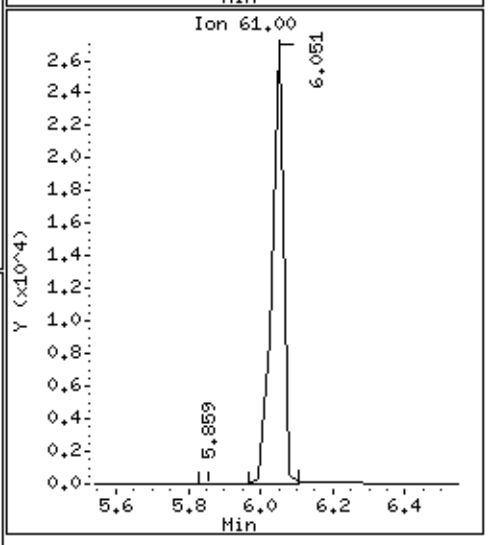
8 trans-1,2-Dichloroethene

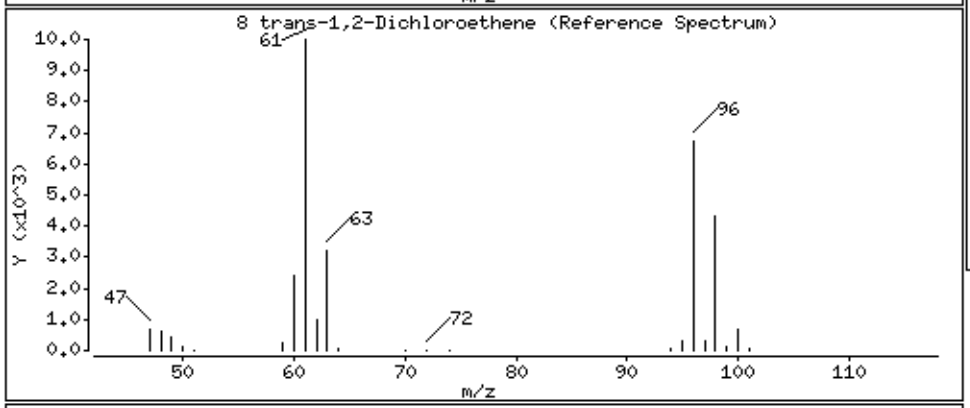
Concentration: 5.03519 ug

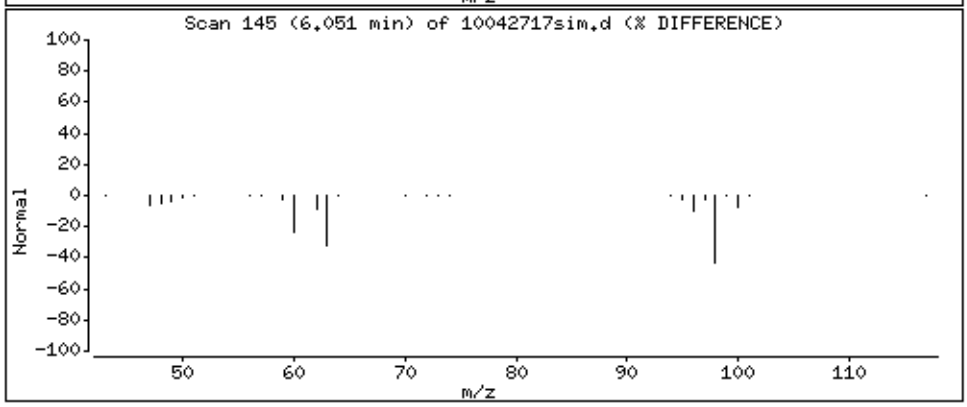












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

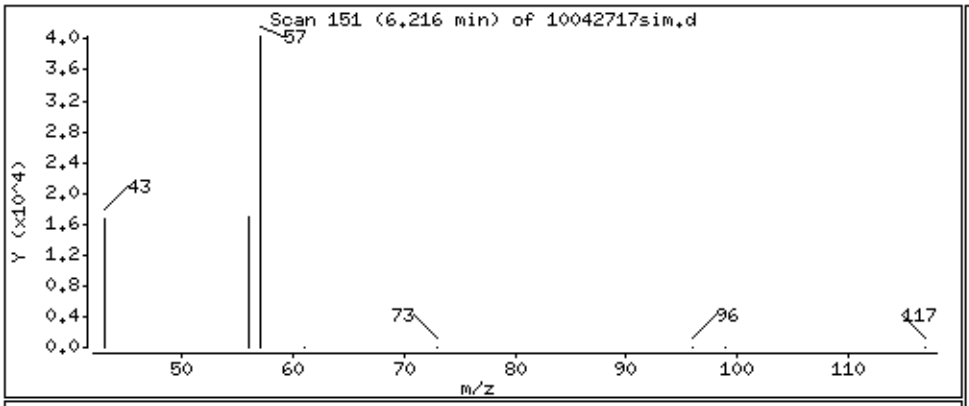
Operator: gm

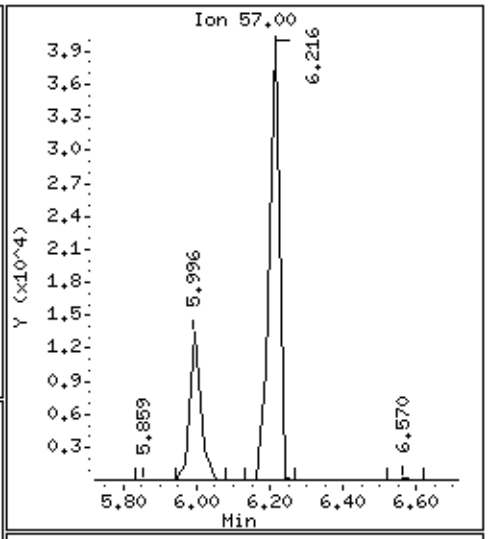
Column phase: DB-5.625

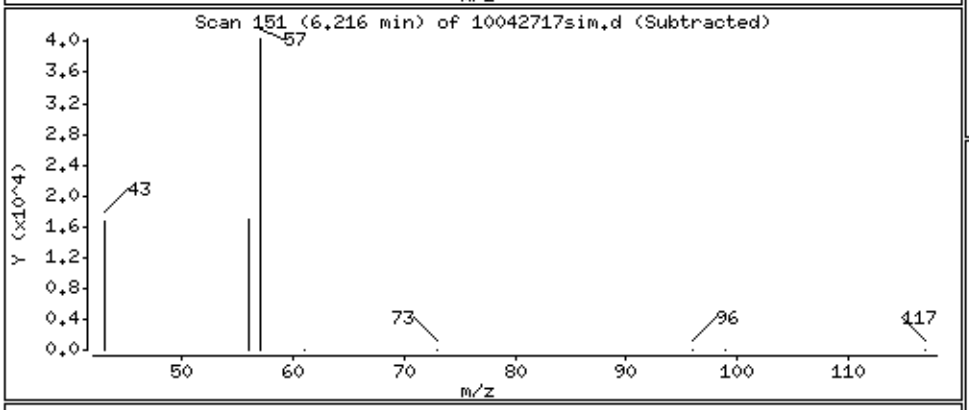
Column diameter: 0.25

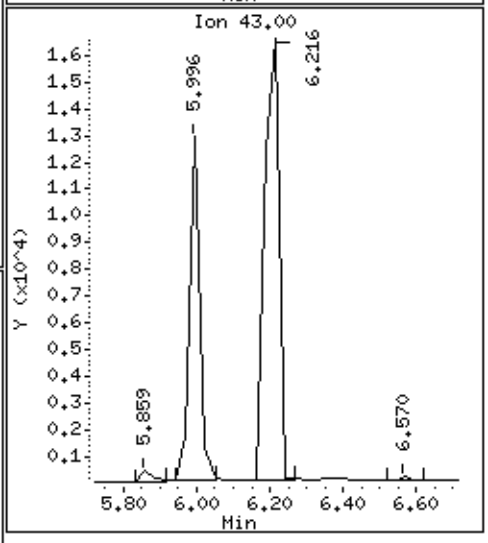
9 Hexane

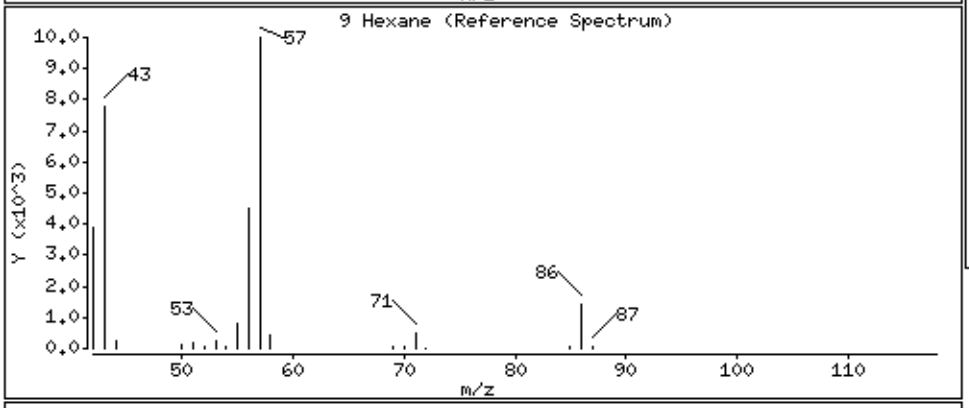
Concentration: 3.85670 ug

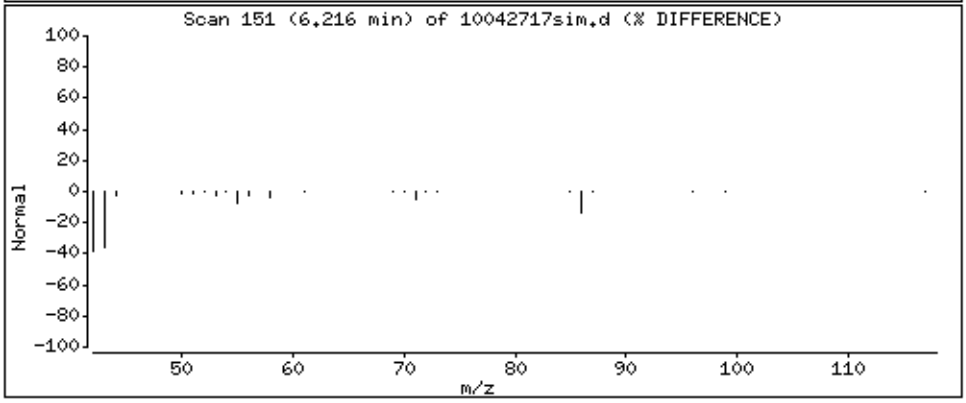












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

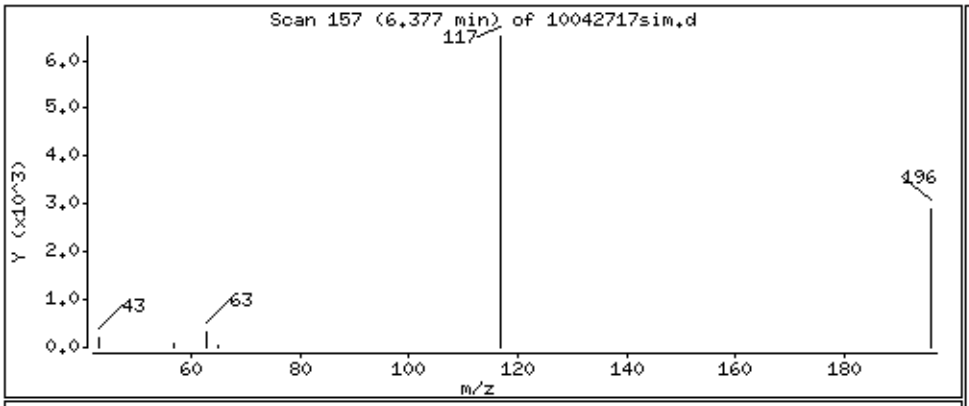
Operator: gm

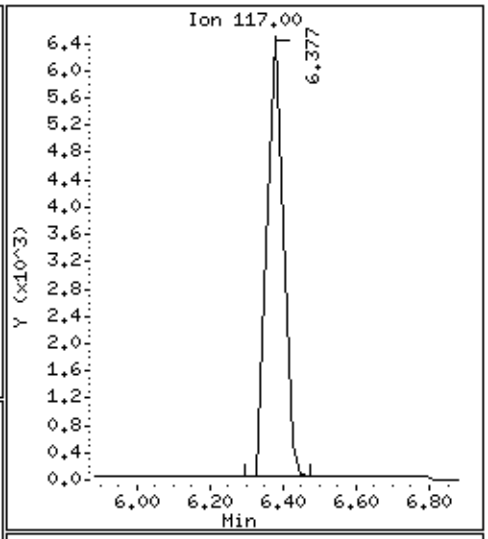
Column phase: DB-5.625

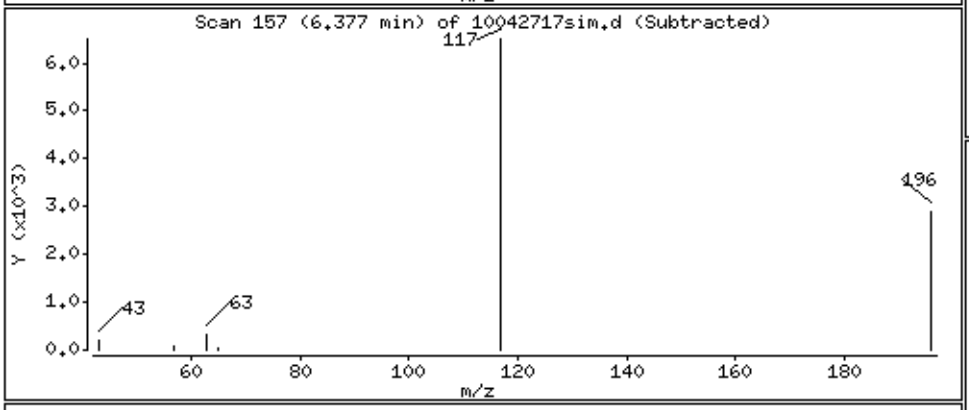
Column diameter: 0.25

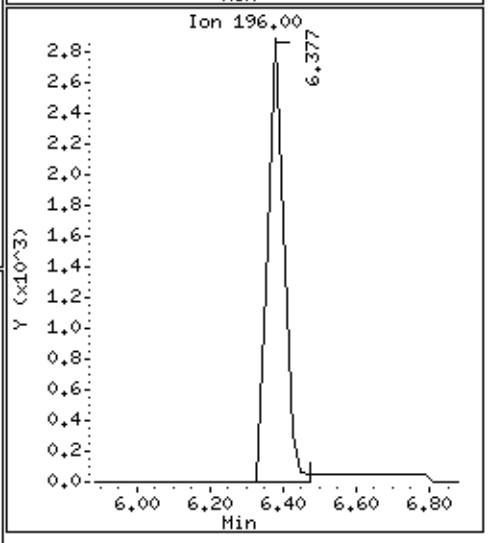
10 Halothane

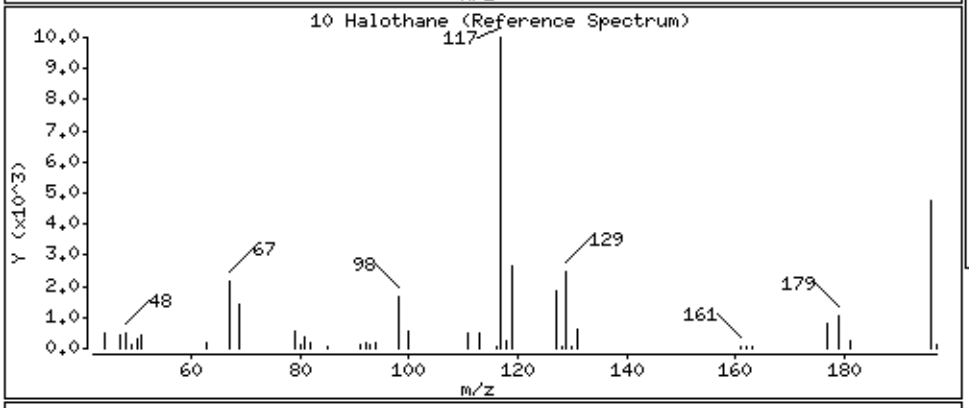
Concentration: 4.89935 ug

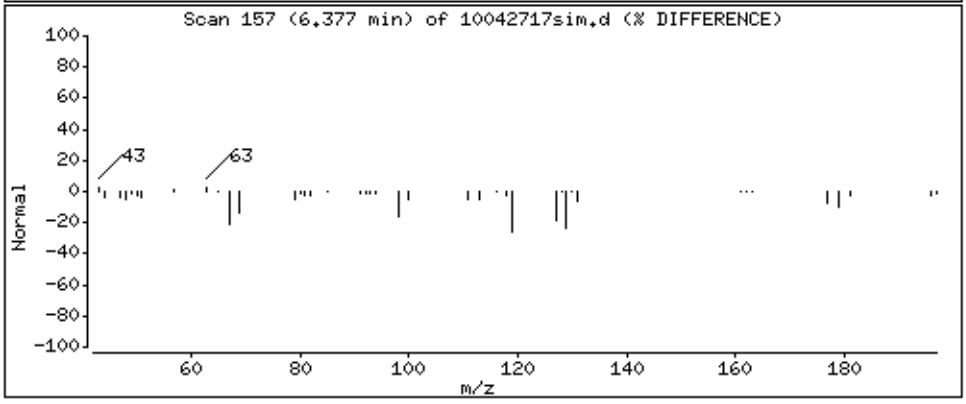












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

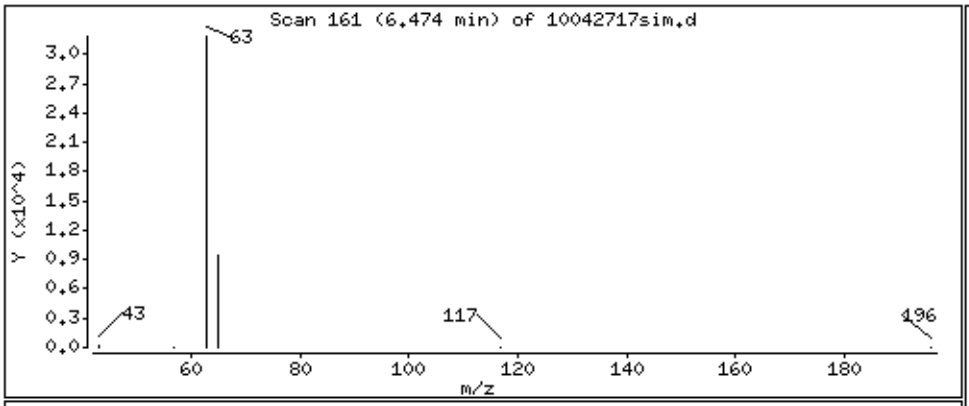
Operator: gm

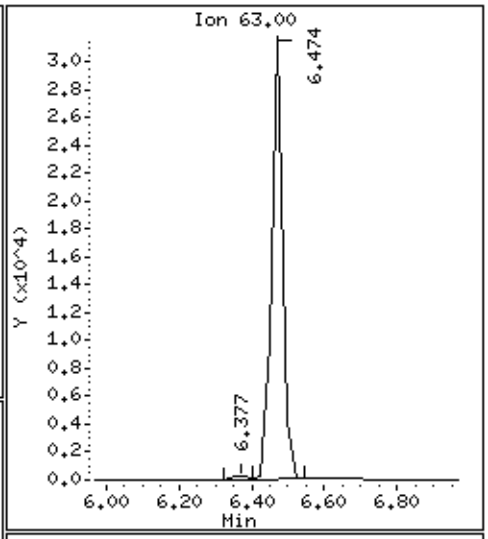
Column phase: DB-5.625

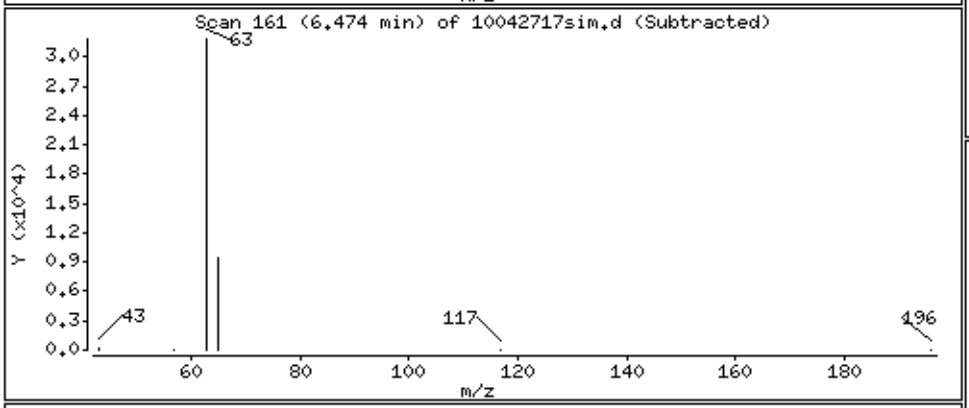
Column diameter: 0.25

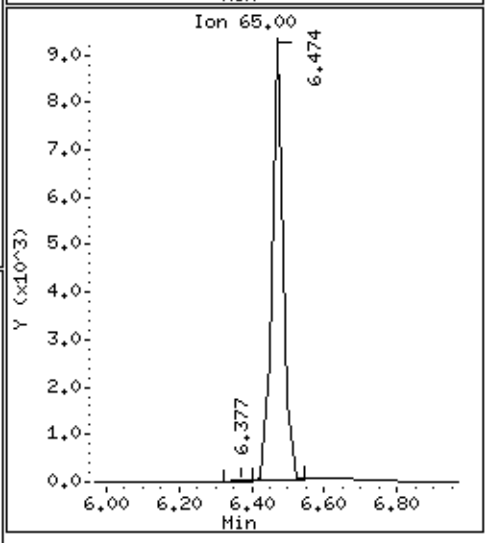
11 1,1-Dichloroethane-SPCC

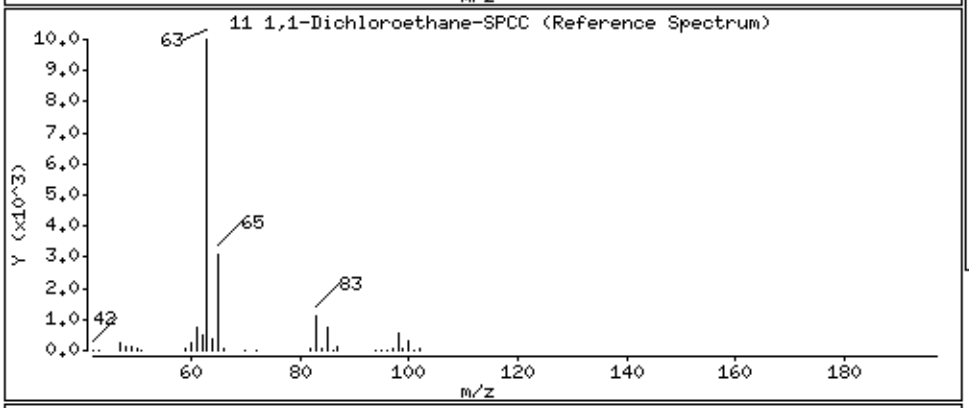
Concentration: 4.56154 ug

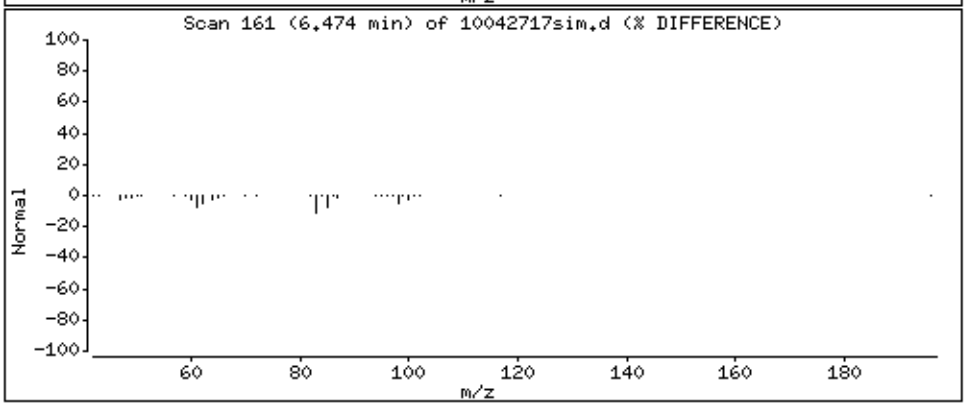












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

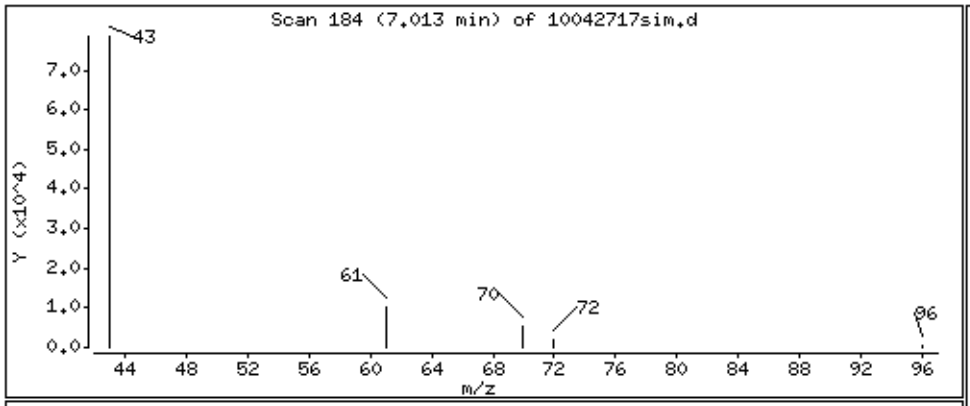
Operator: gm

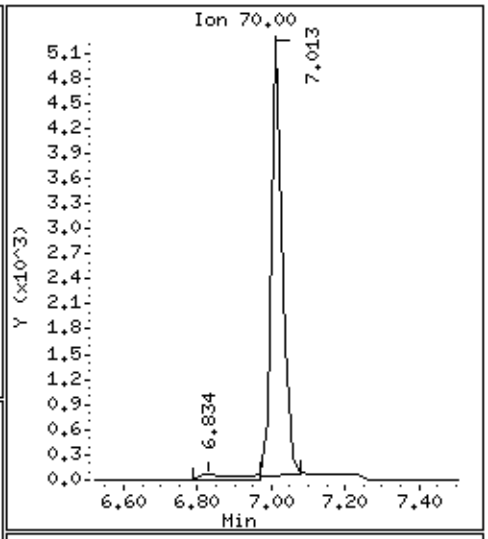
Column phase: DB-5.625

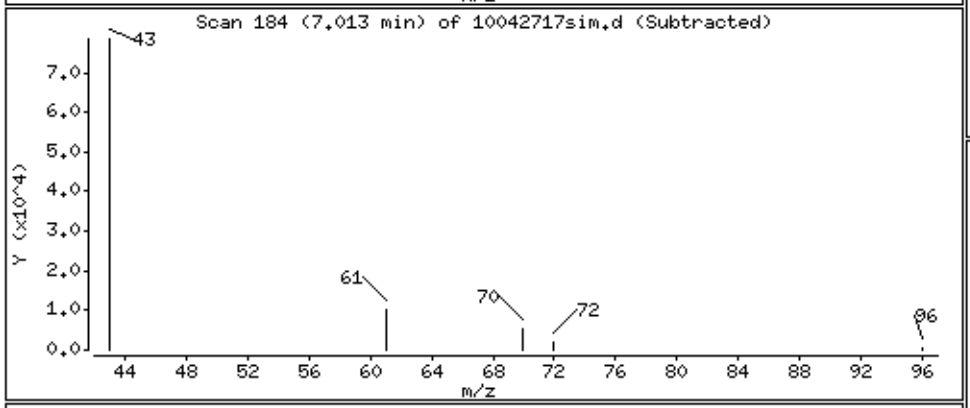
Column diameter: 0.25

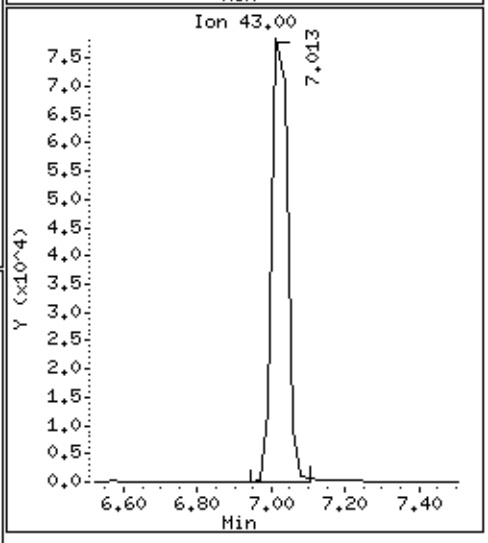
12 Ethyl Acetate

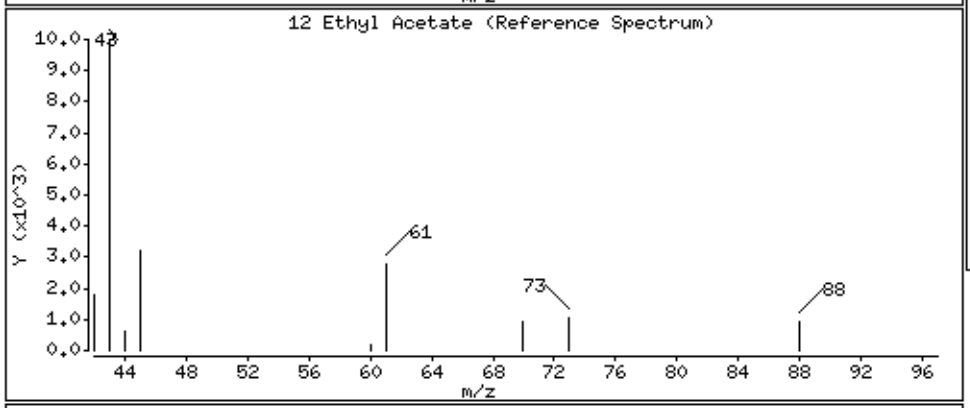
Concentration: 4.45219 ug

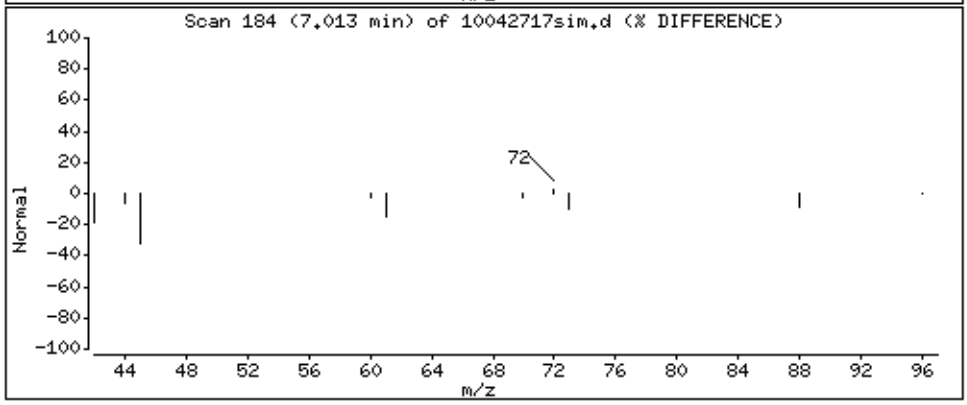












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

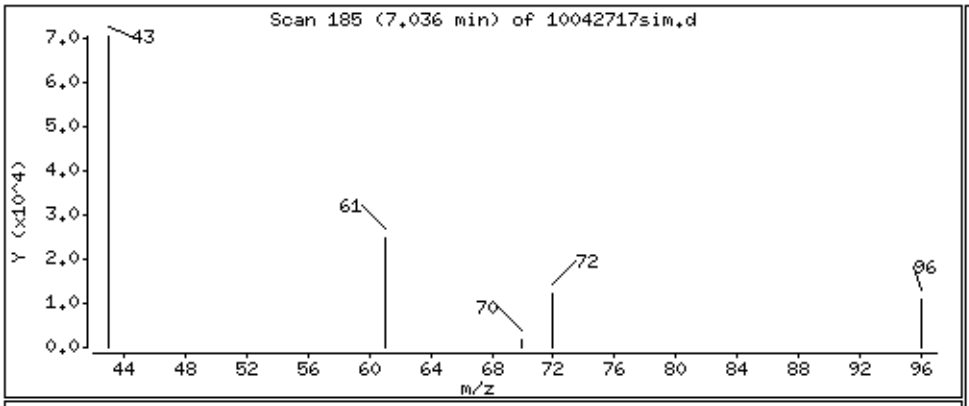
Operator: gm

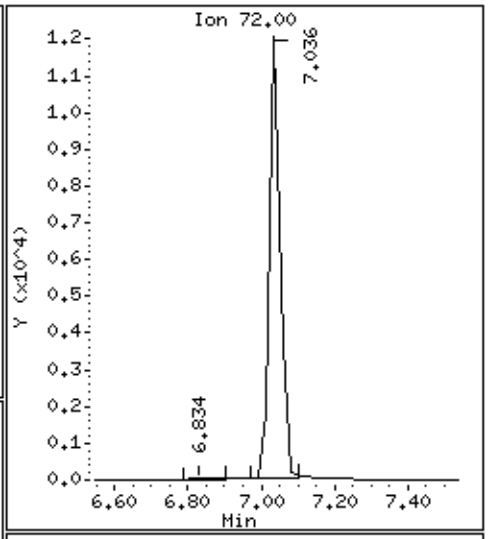
Column phase: DB-5.625

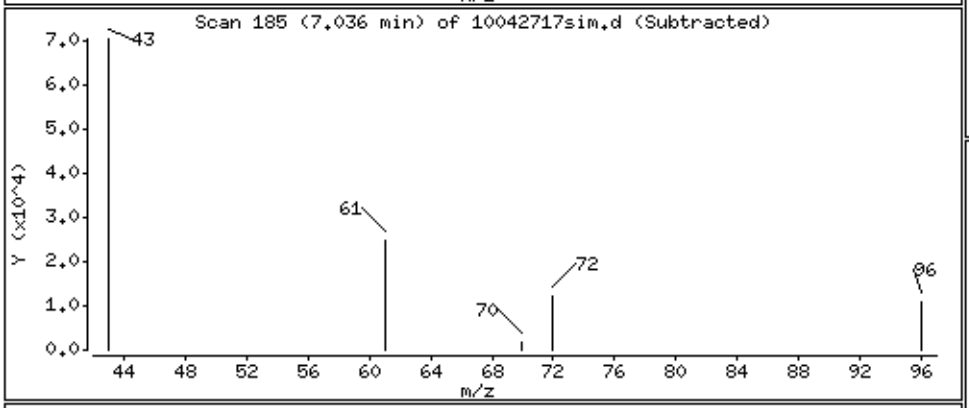
Column diameter: 0.25

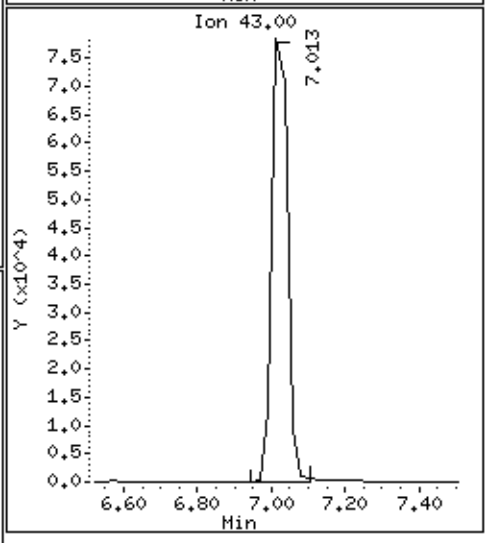
13 2-Butanone

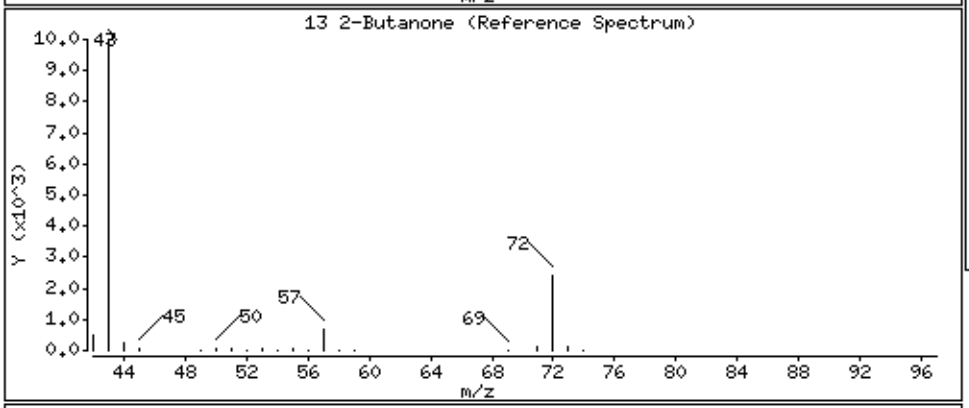
Concentration: 4.59133 ug

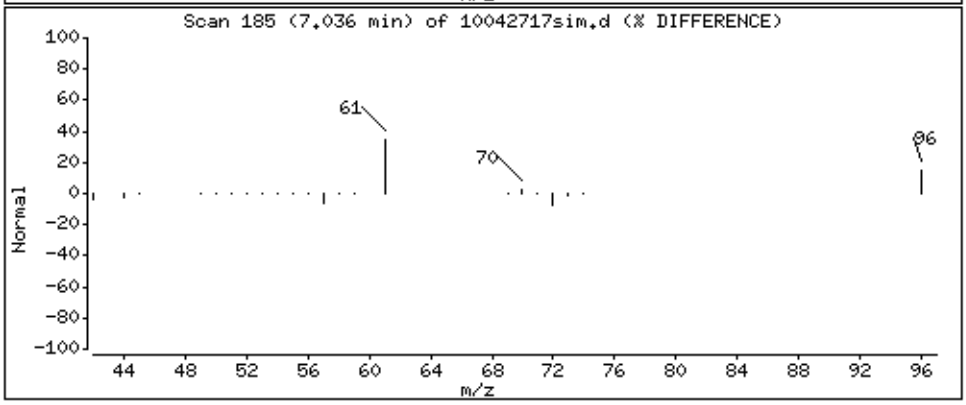












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

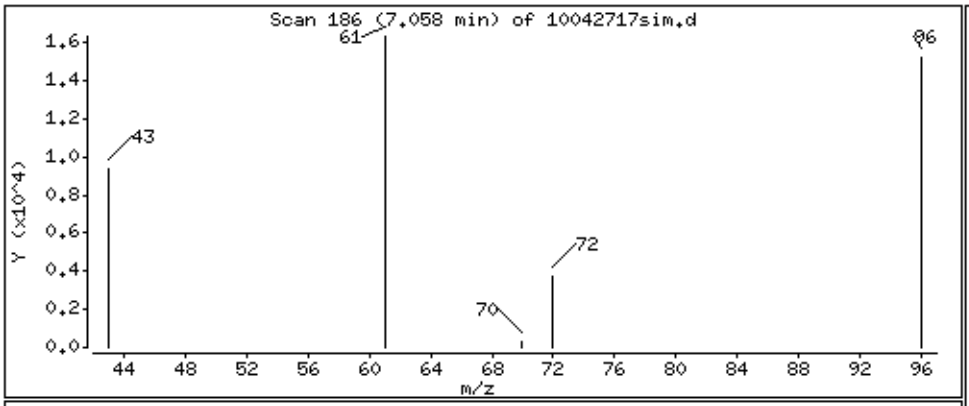
Operator: gm

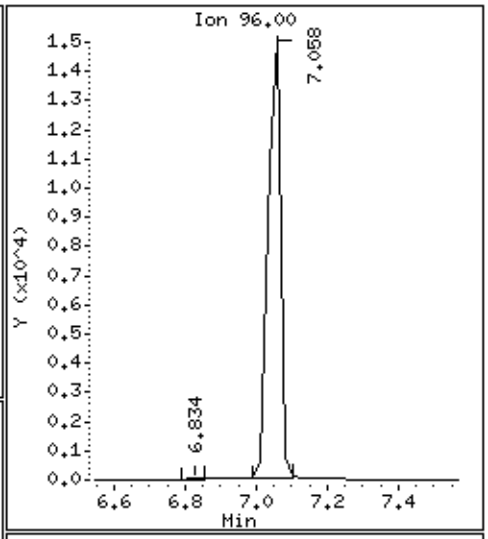
Column phase: DB-5.625

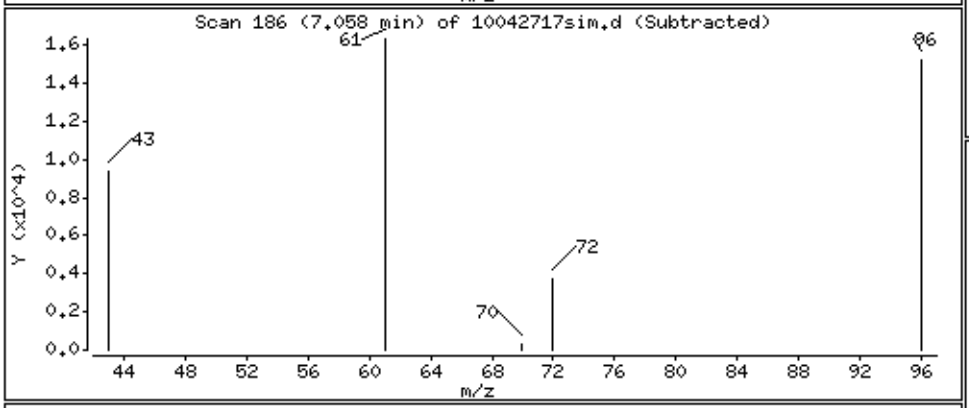
Column diameter: 0.25

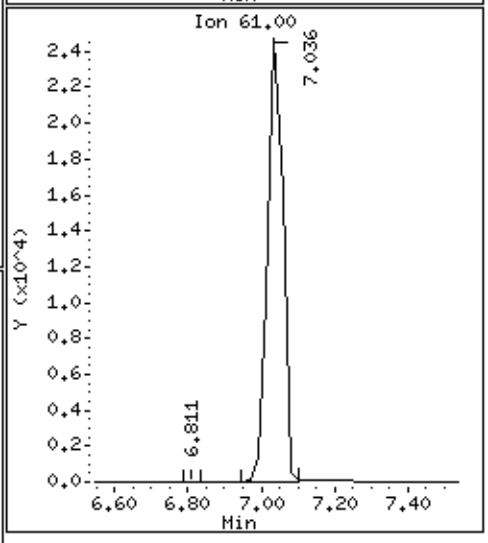
14 cis-1,2-Dichloroethene

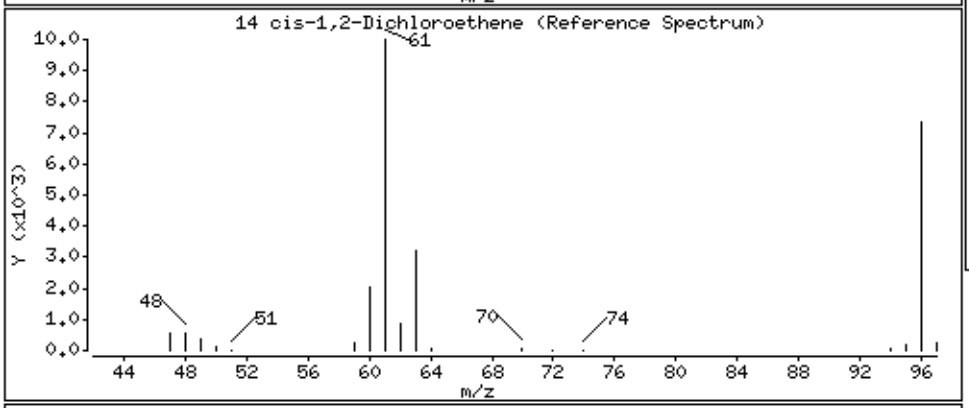
Concentration: 4.53396 ug

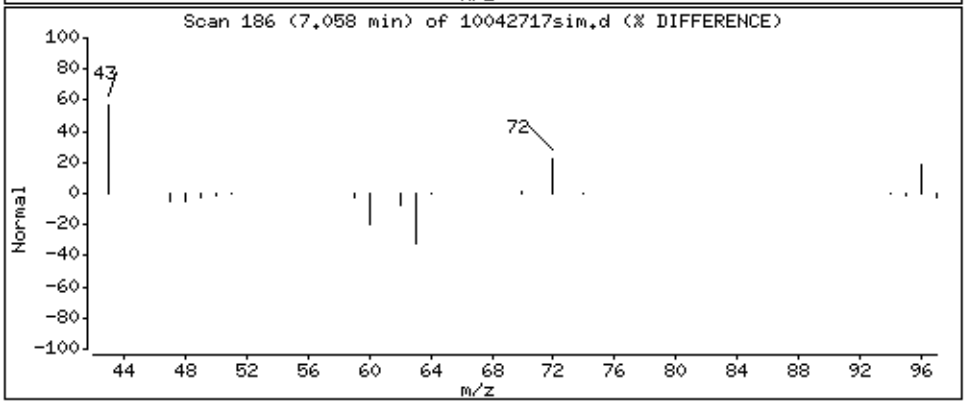












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

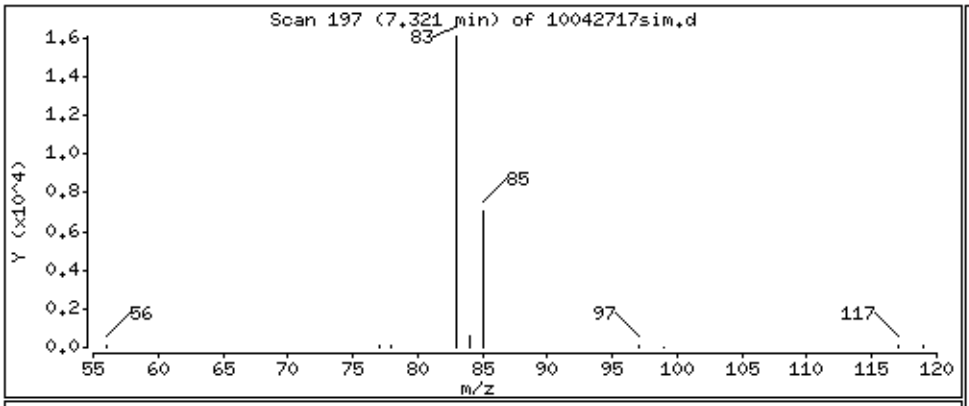
Operator: gm

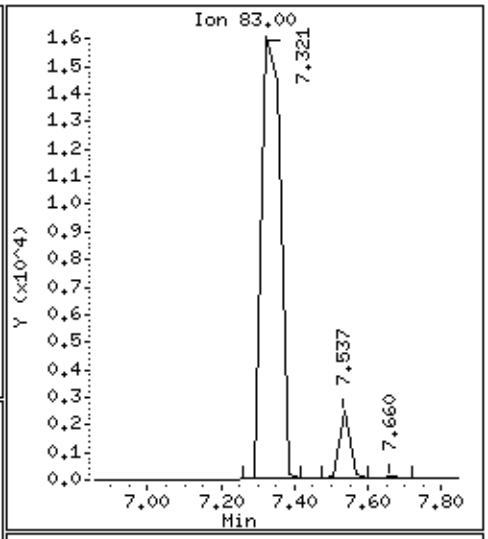
Column phase: DB-5.625

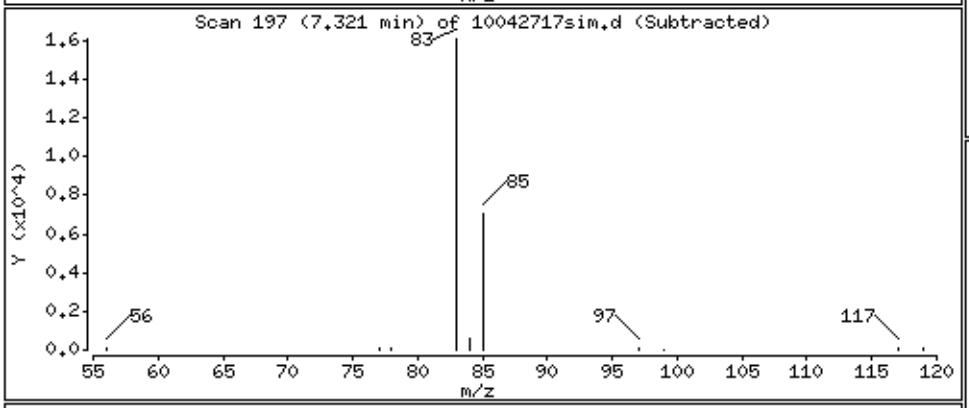
Column diameter: 0.25

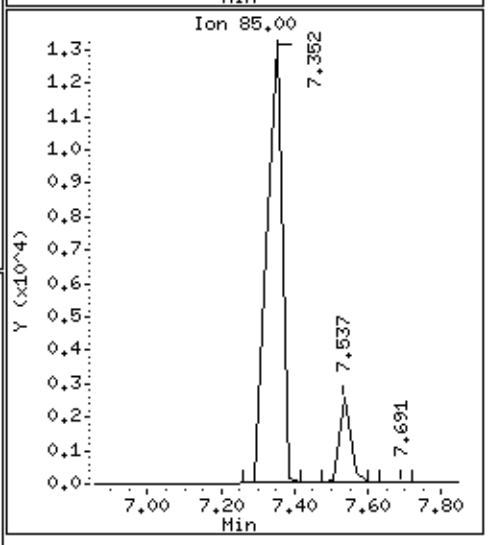
15 Chloroform-CCC

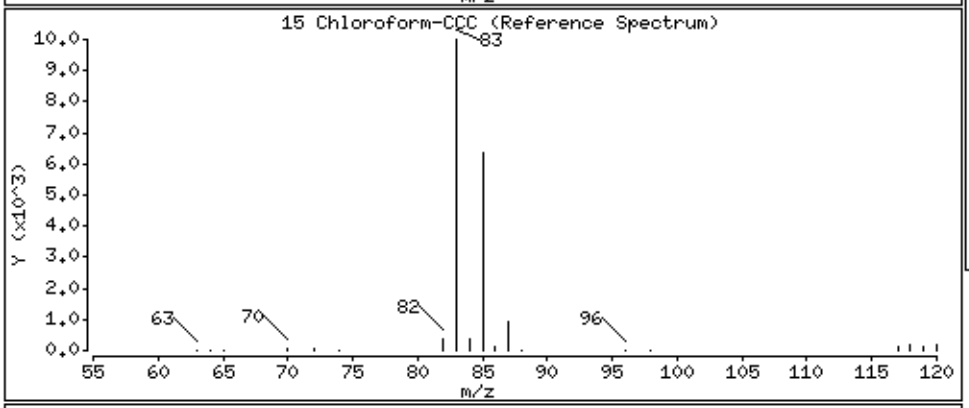
Concentration: 4.28523 ug

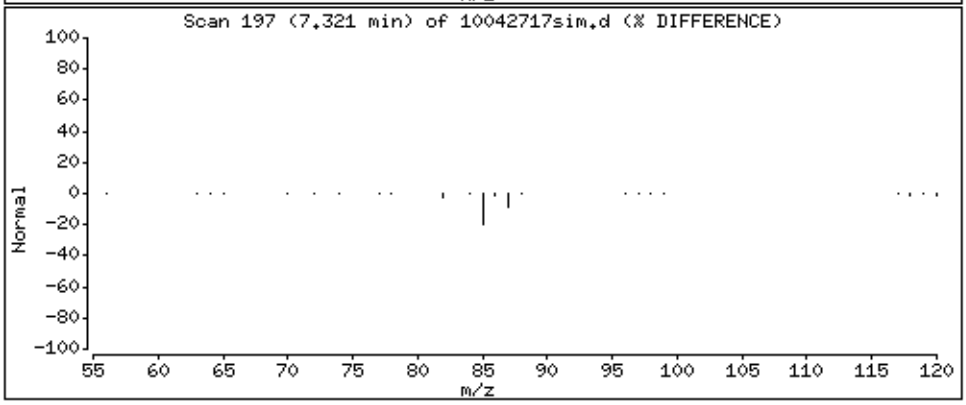












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

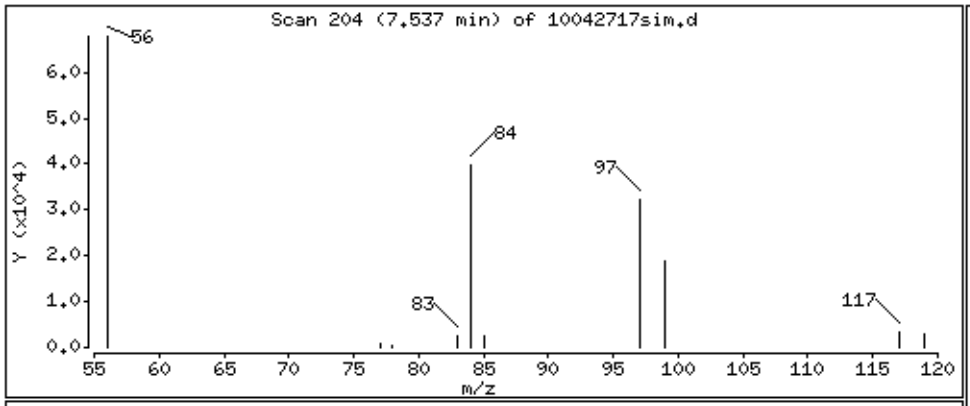
Operator: gm

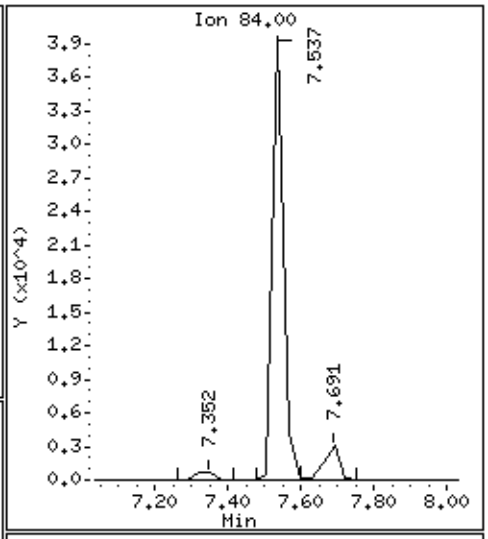
Column phase: DB-5.625

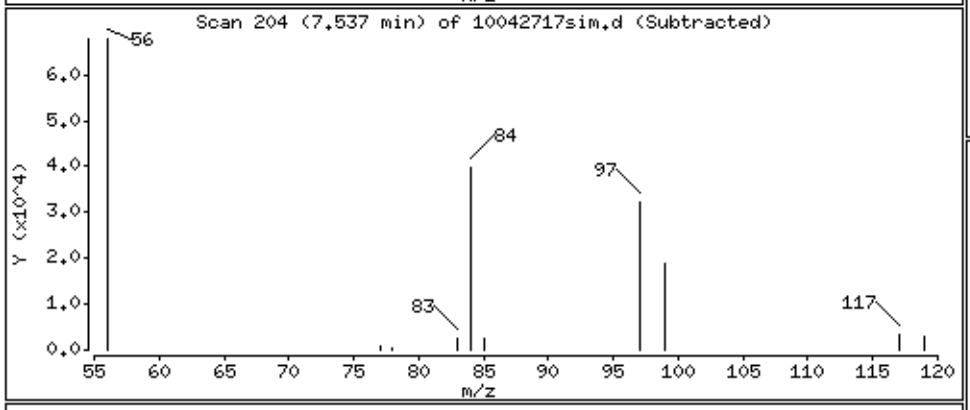
Column diameter: 0.25

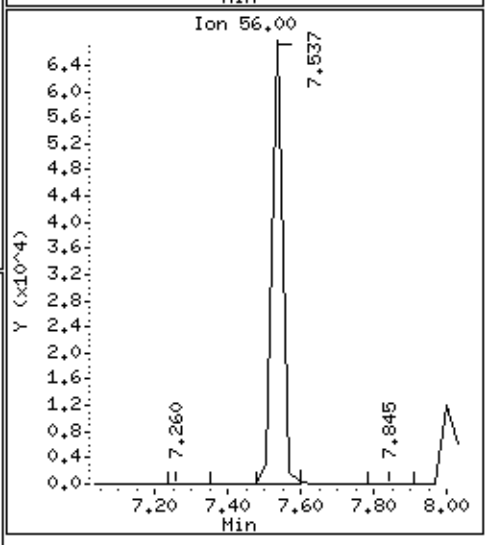
16 Cyclohexane

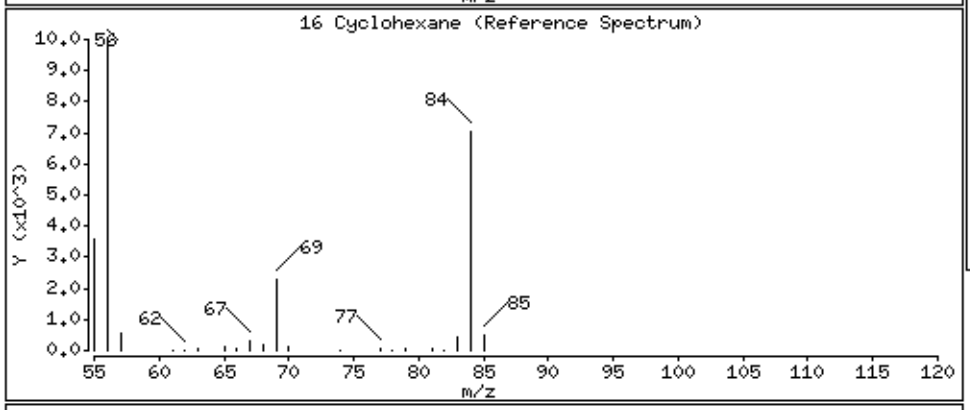
Concentration: 4.45803 ug

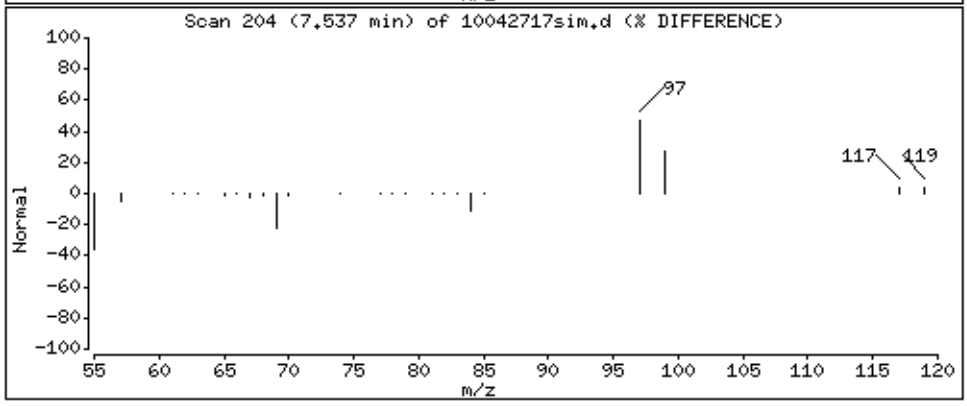












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

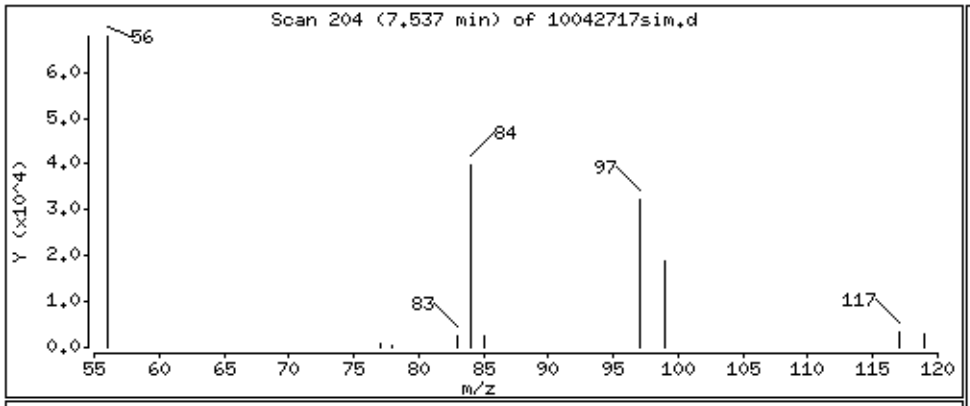
Operator: gm

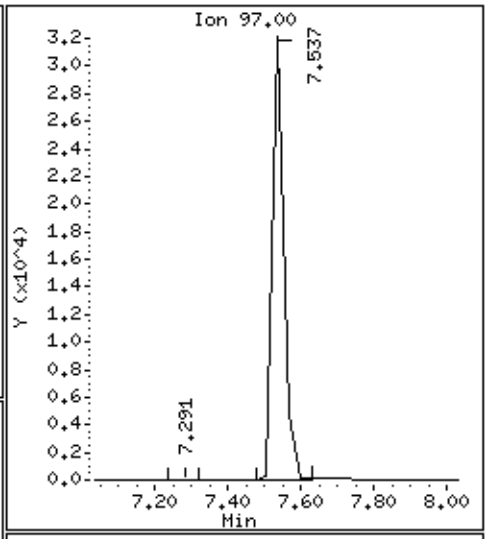
Column phase: DB-5.625

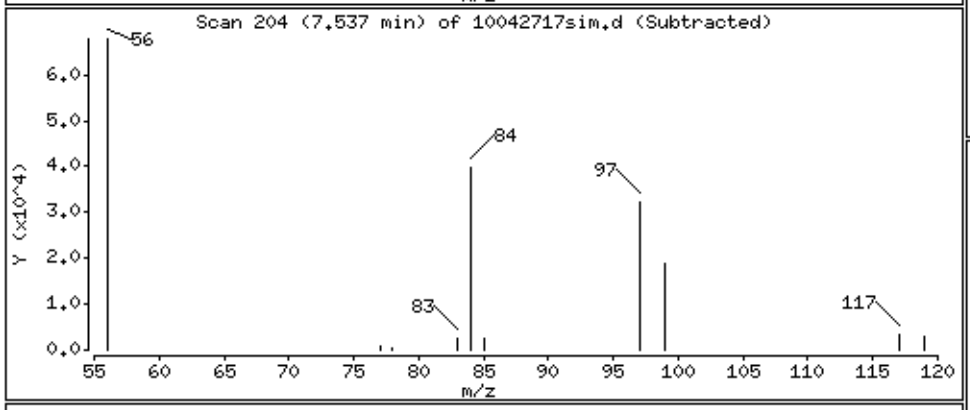
Column diameter: 0.25

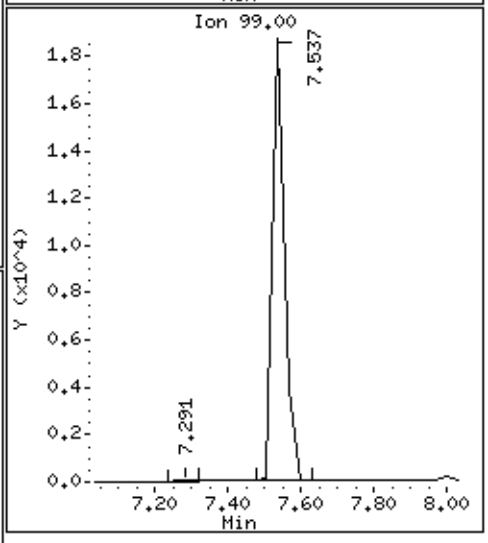
17 1,1,1-Trichloroethane

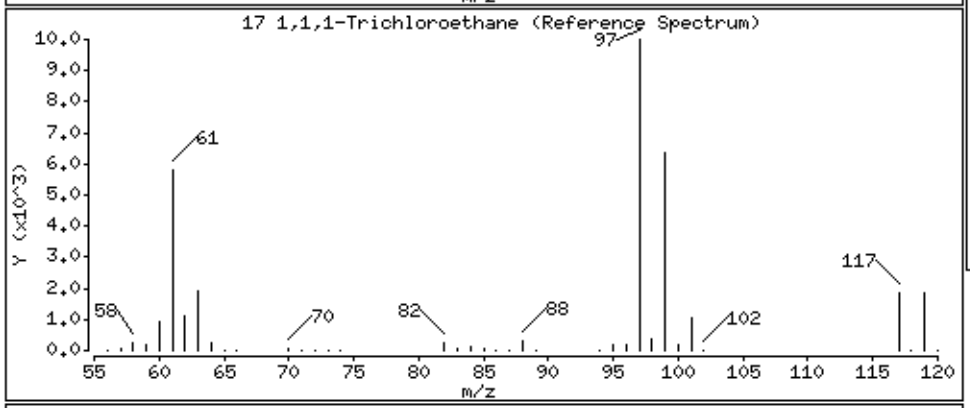
Concentration: 4.26671 ug

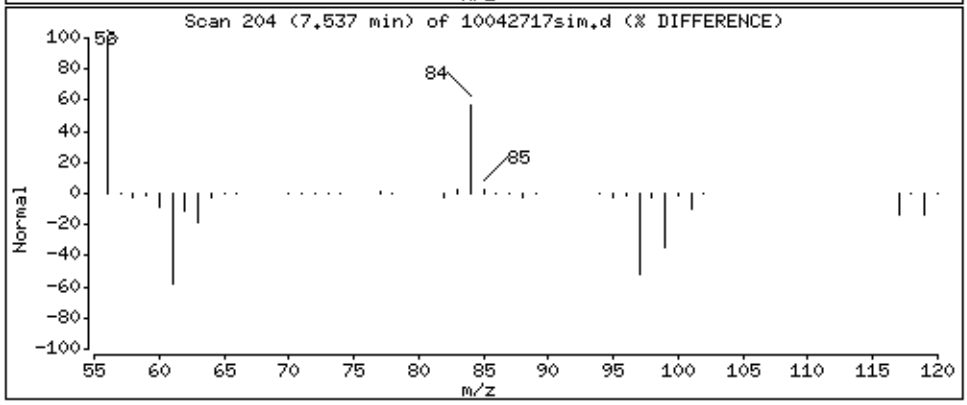












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

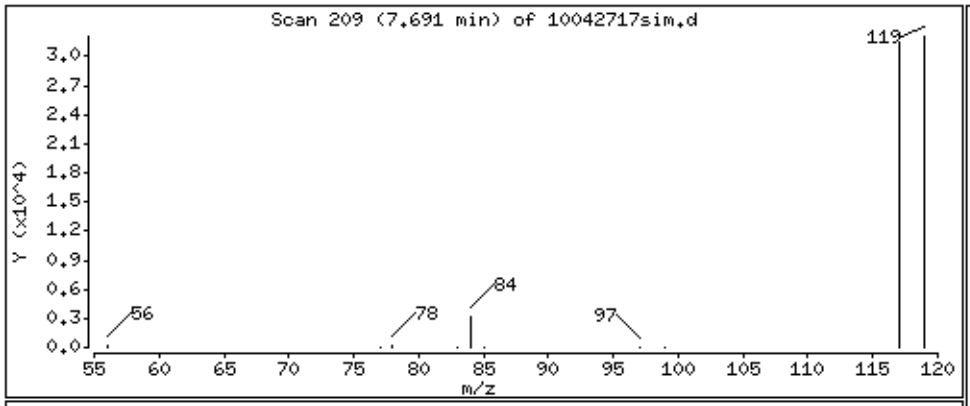
Operator: gm

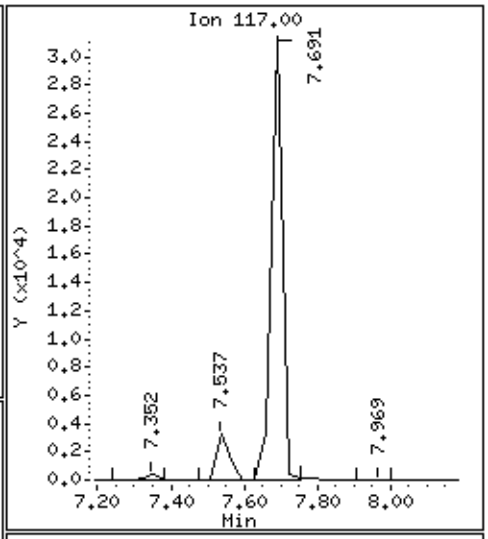
Column phase: DB-5.625

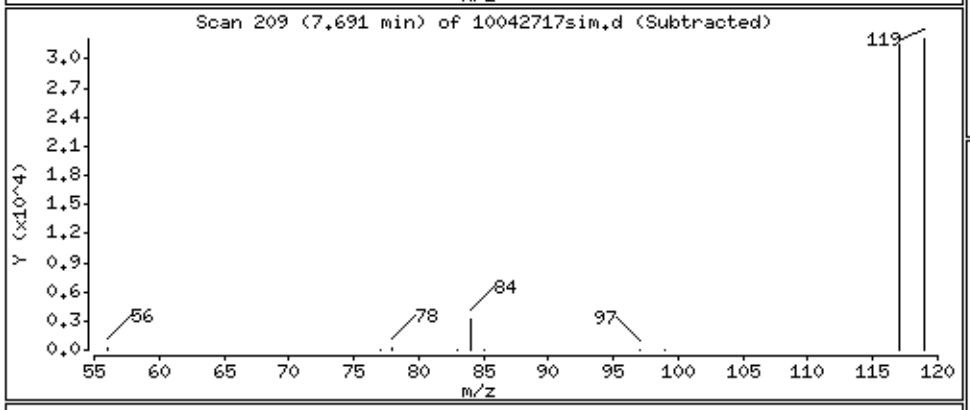
Column diameter: 0.25

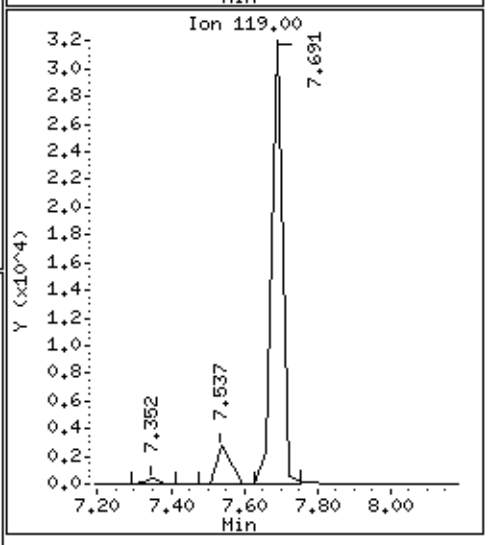
18 Carbon Tetrachloride

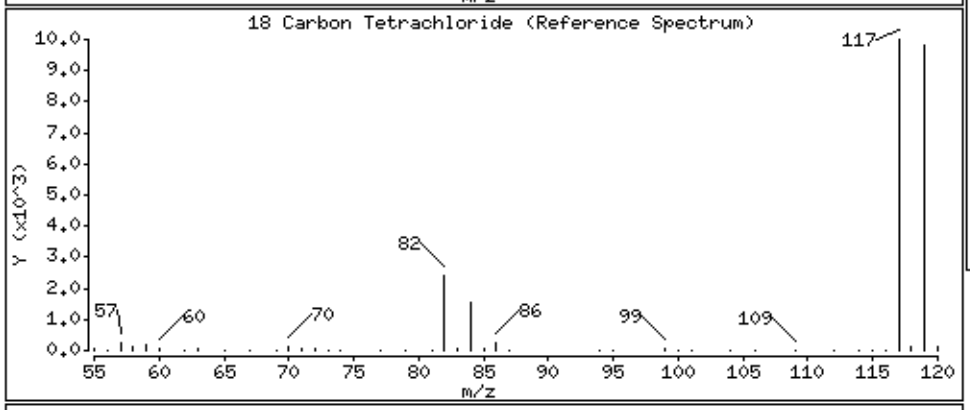
Concentration: 4.52933 ug

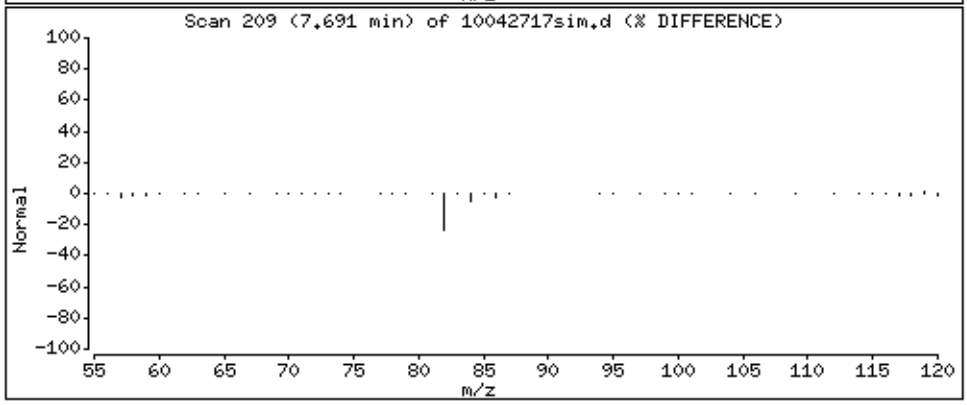












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

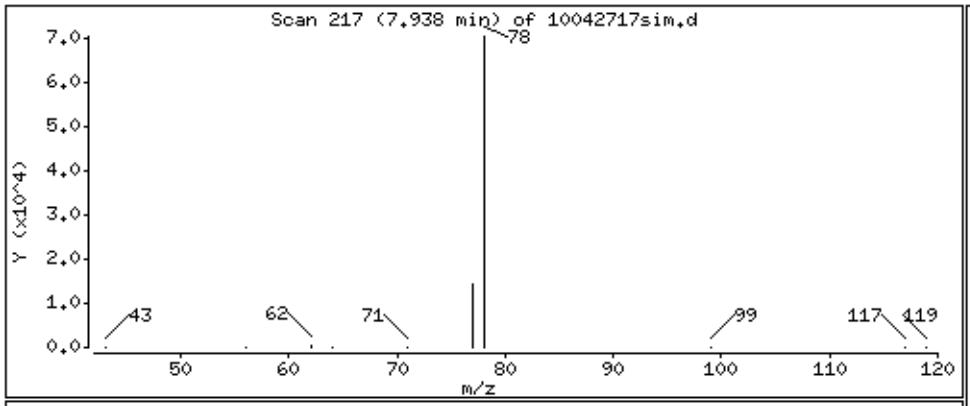
Operator: gm

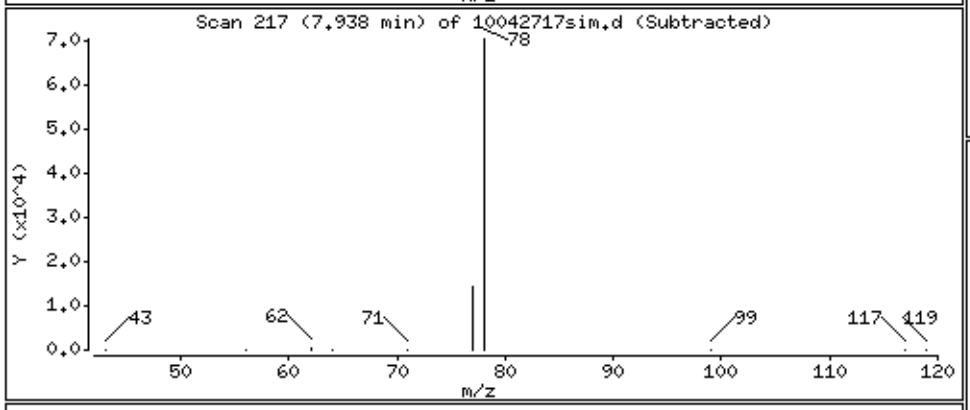
Column phase: DB-5.625

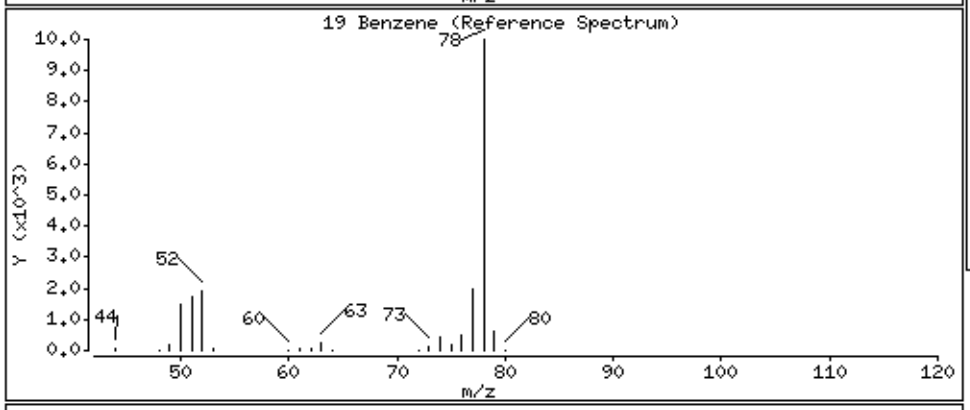
Column diameter: 0.25

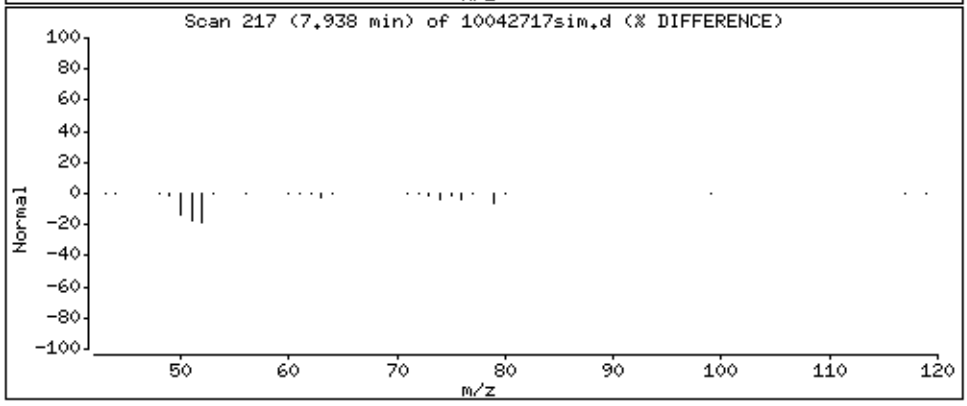
19 Benzene

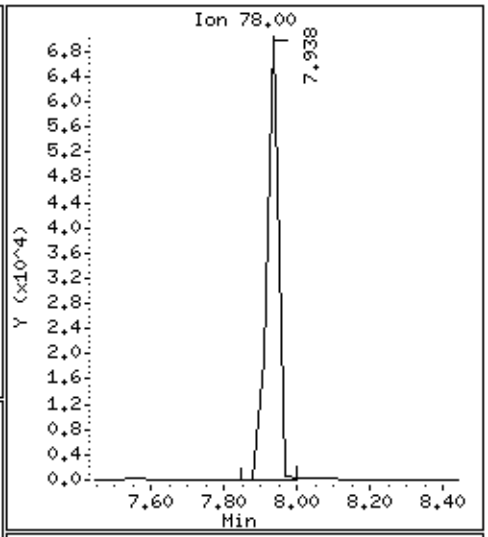
Concentration: 4.52560 ug

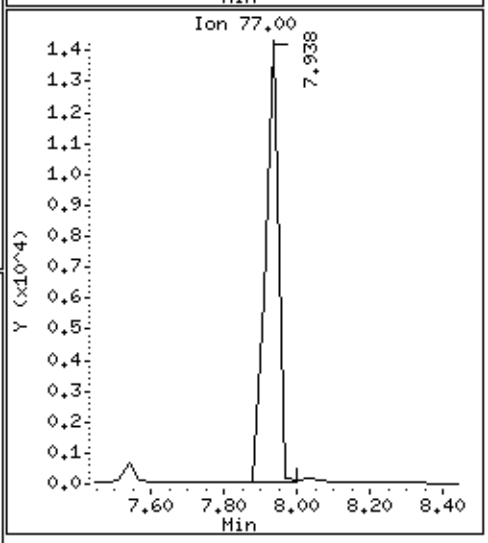












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

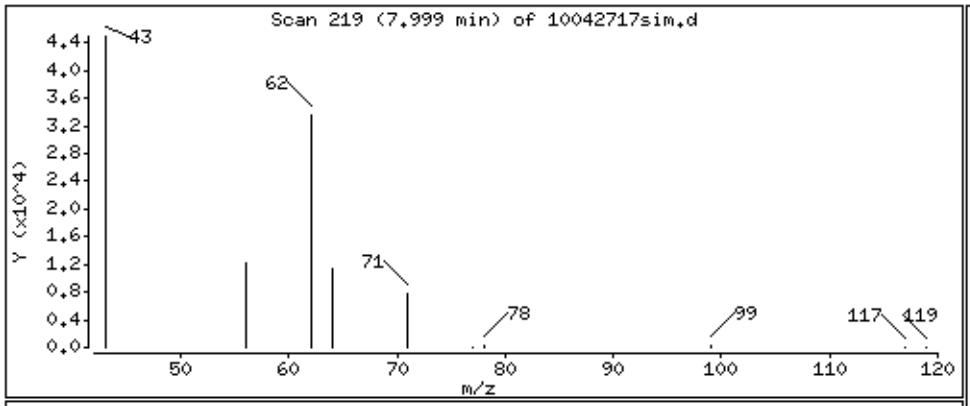
Operator: gm

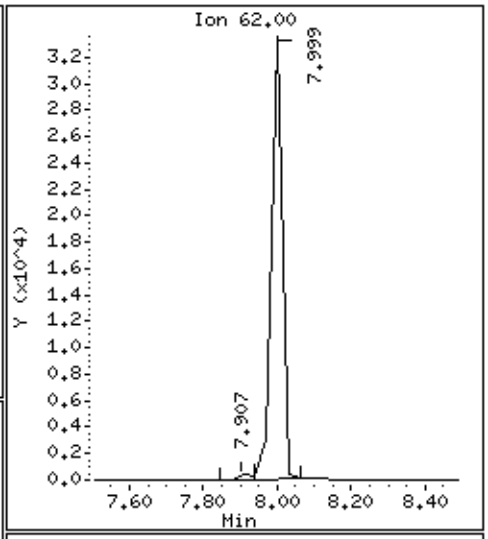
Column phase: DB-5.625

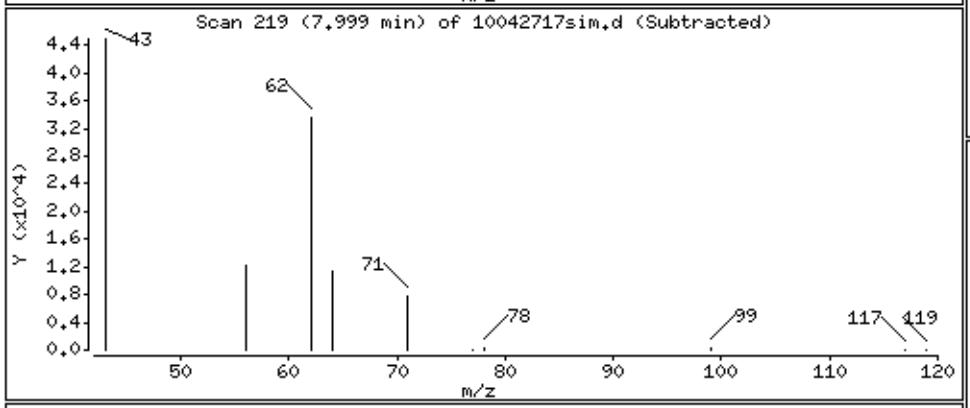
Column diameter: 0.25

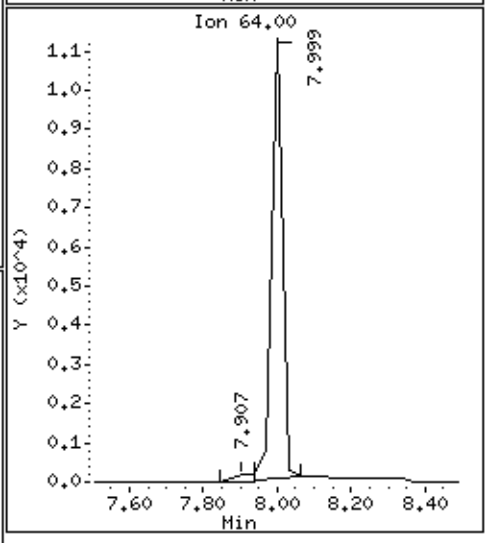
20 1,2-Dichloroethane

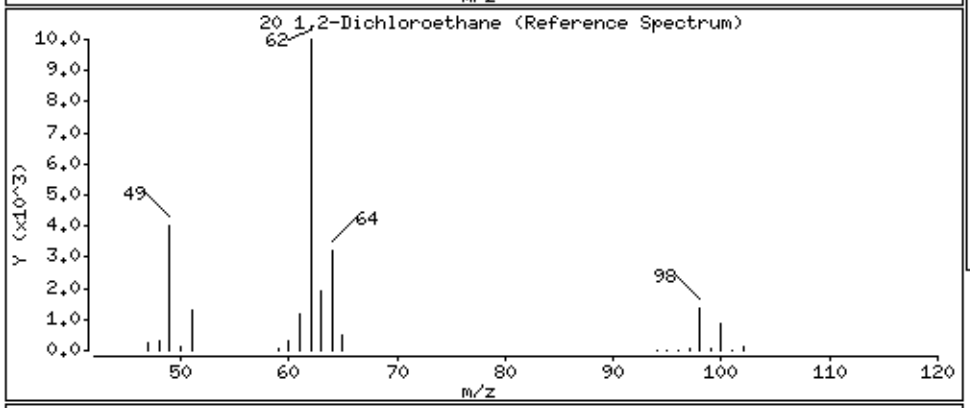
Concentration: 4.38349 ug

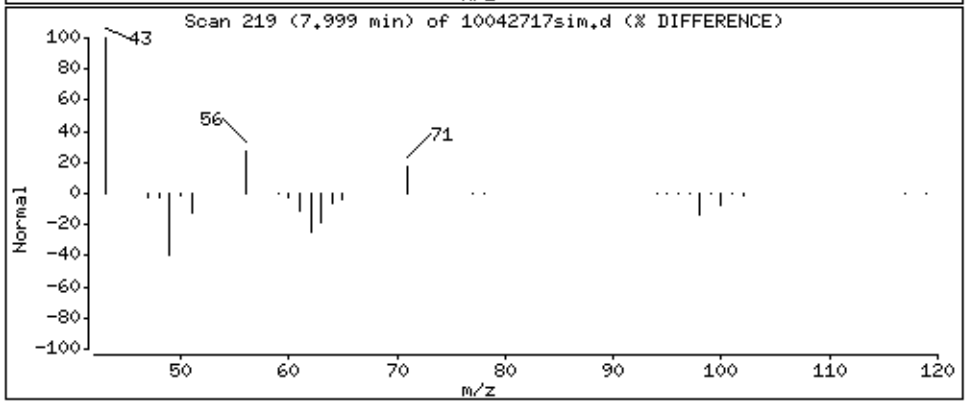












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

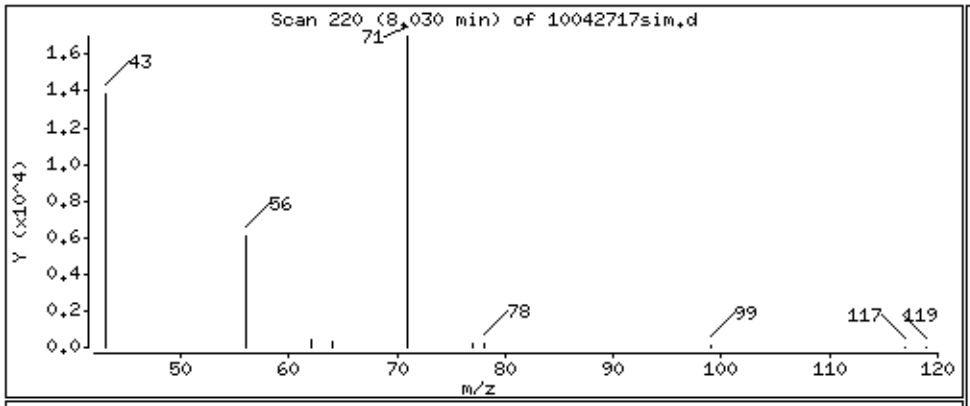
Operator: gm

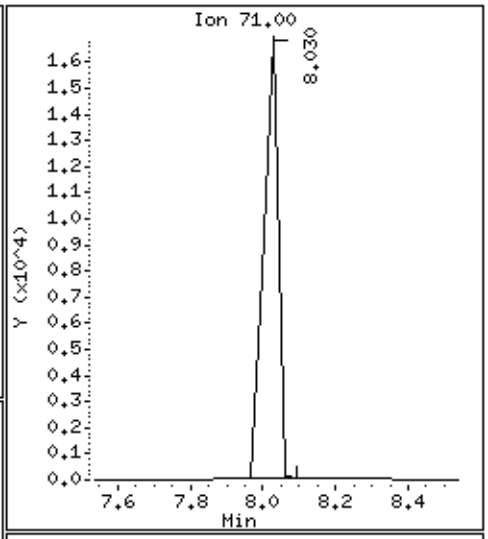
Column phase: DB-5.625

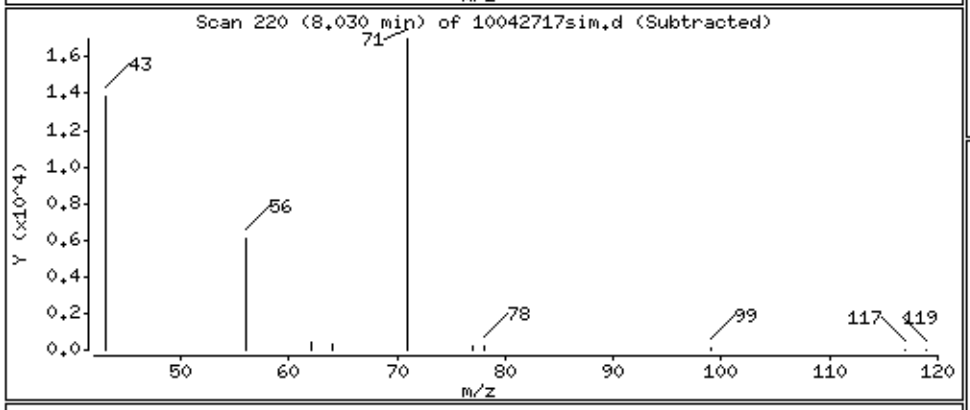
Column diameter: 0.25

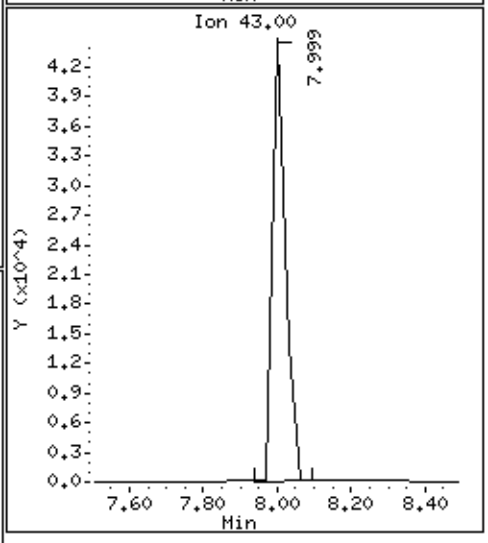
21 Heptane

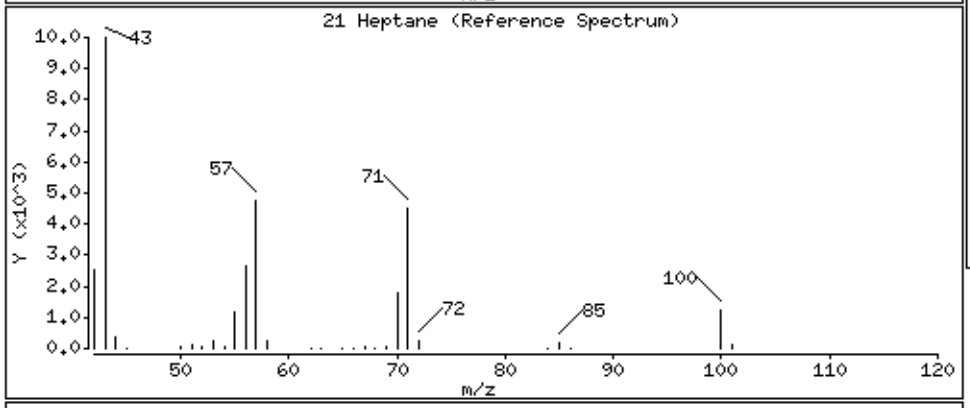
Concentration: 4.22281 ug

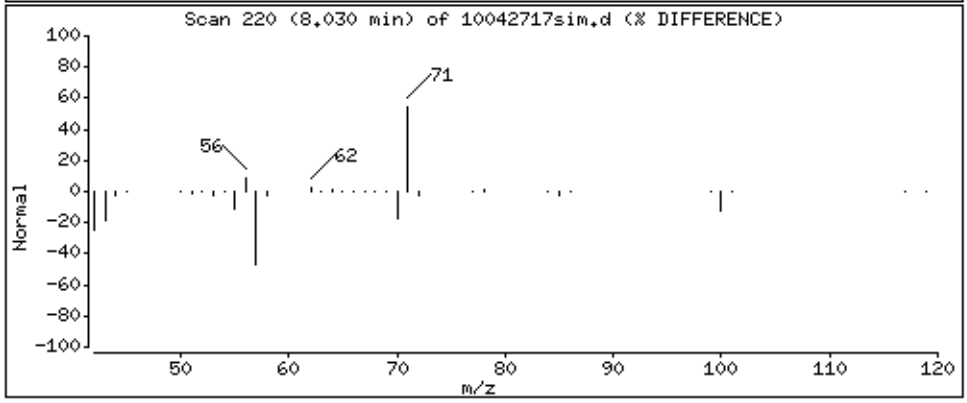












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

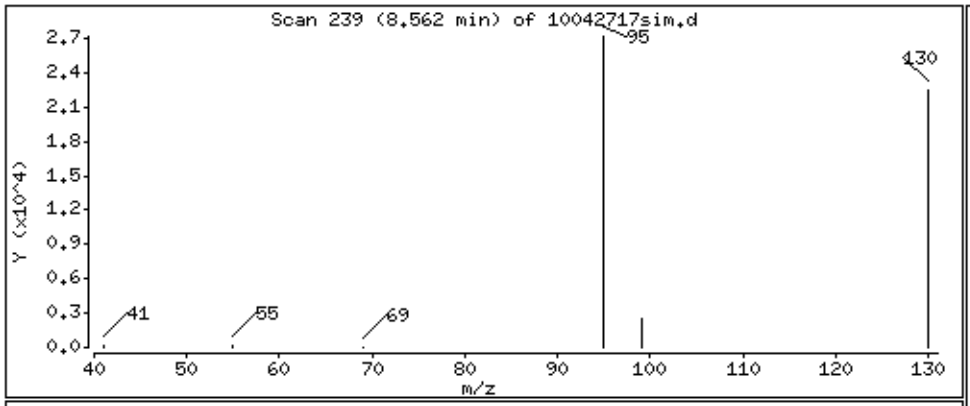
Operator: gm

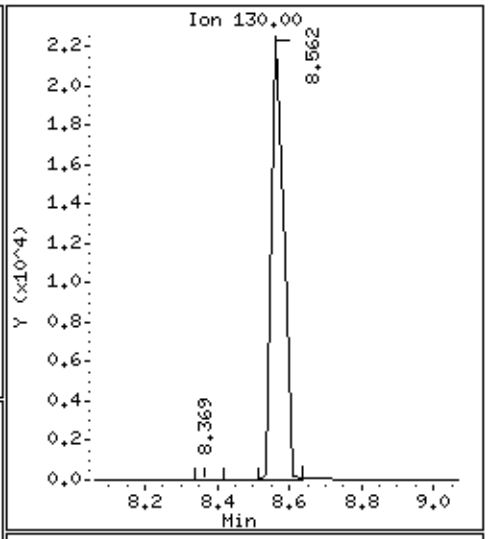
Column phase: DB-5.625

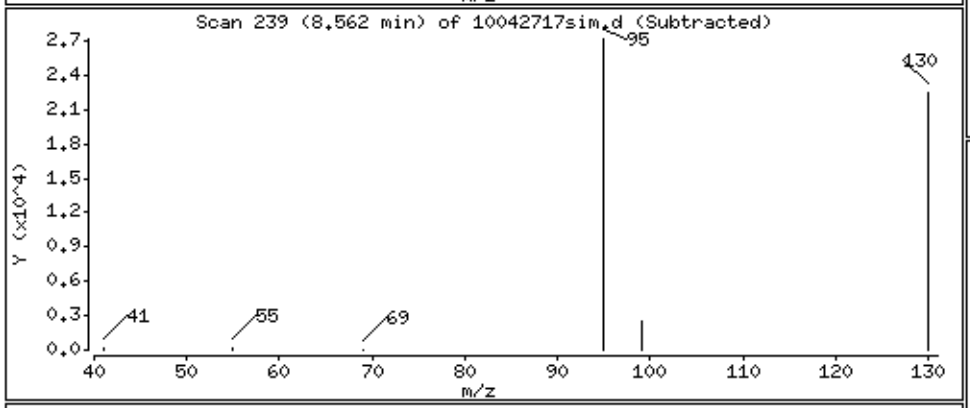
Column diameter: 0.25

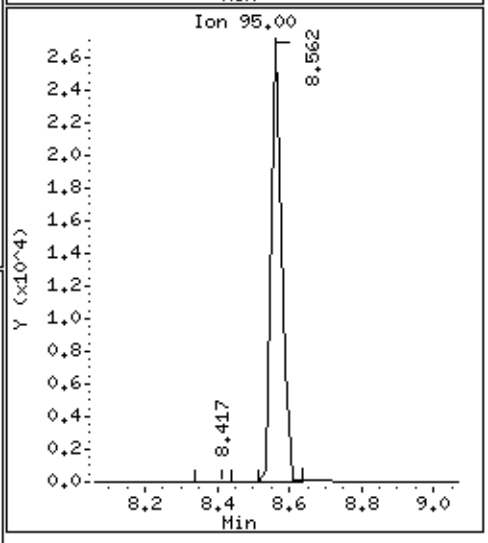
22 Trichloroethene

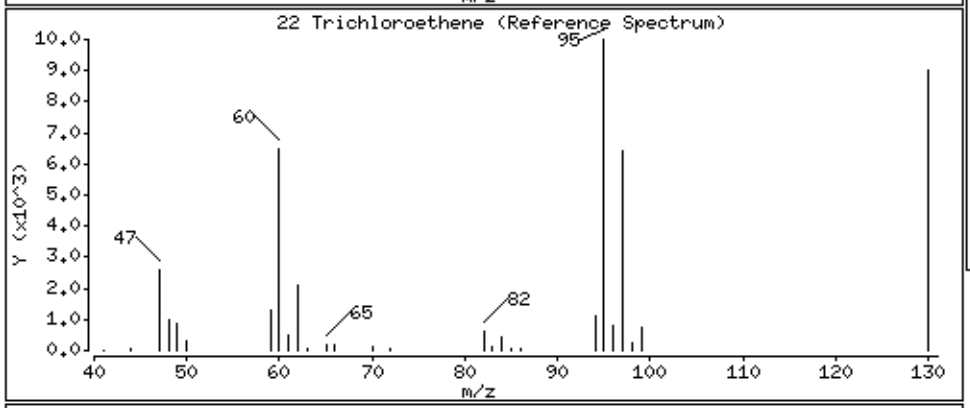
Concentration: 4.31285 ug

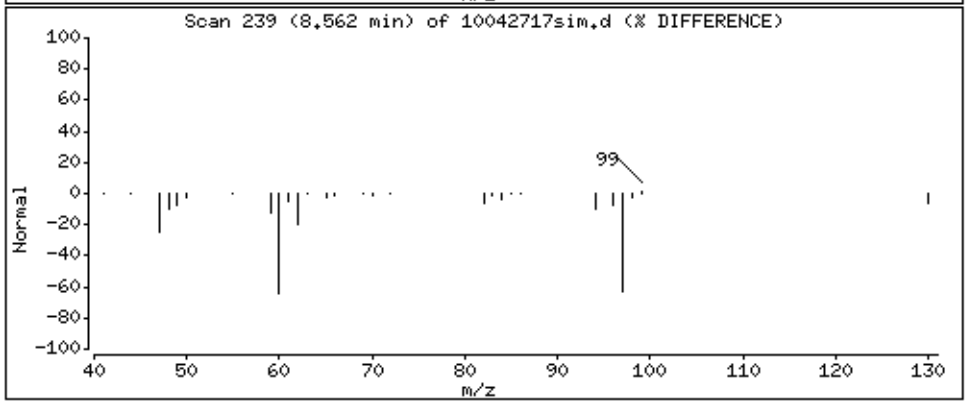












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

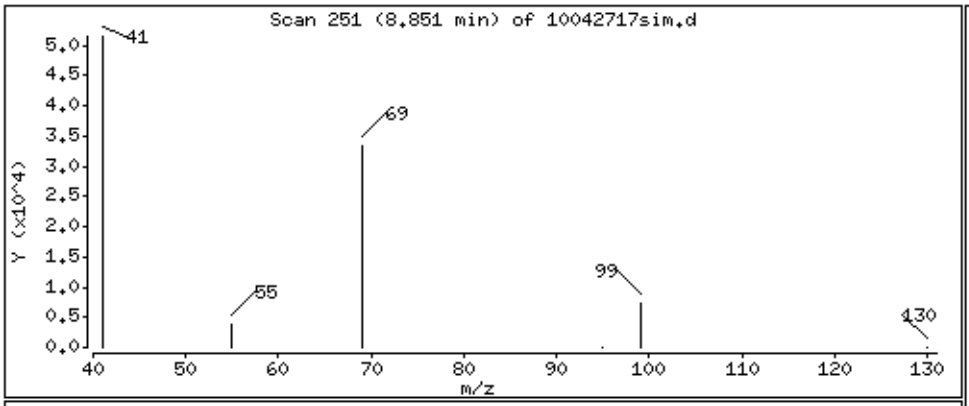
Operator: gm

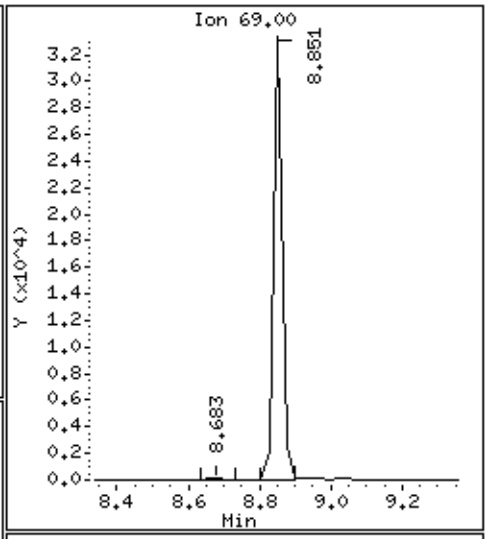
Column phase: DB-5.625

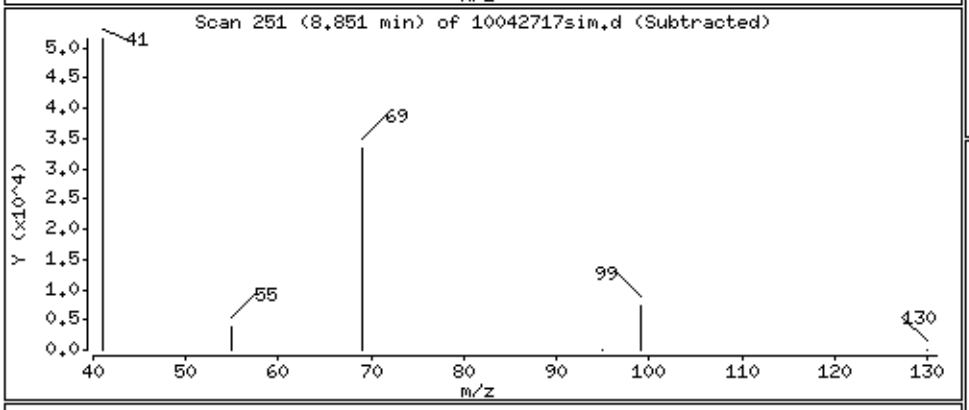
Column diameter: 0.25

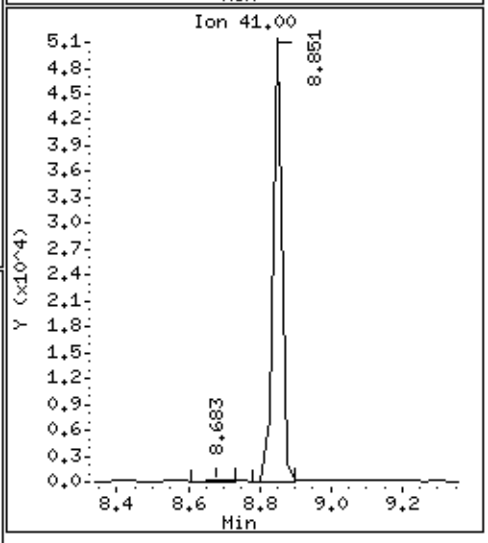
24 Methyl Methacrylate

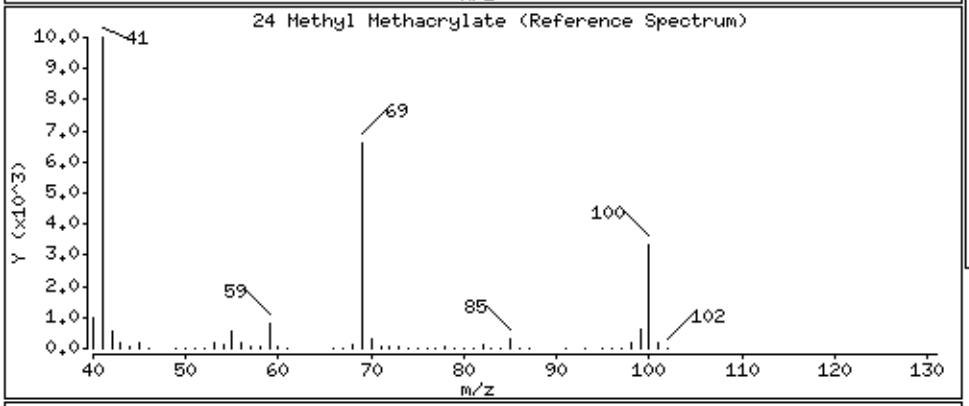
Concentration: 4.58600 ug

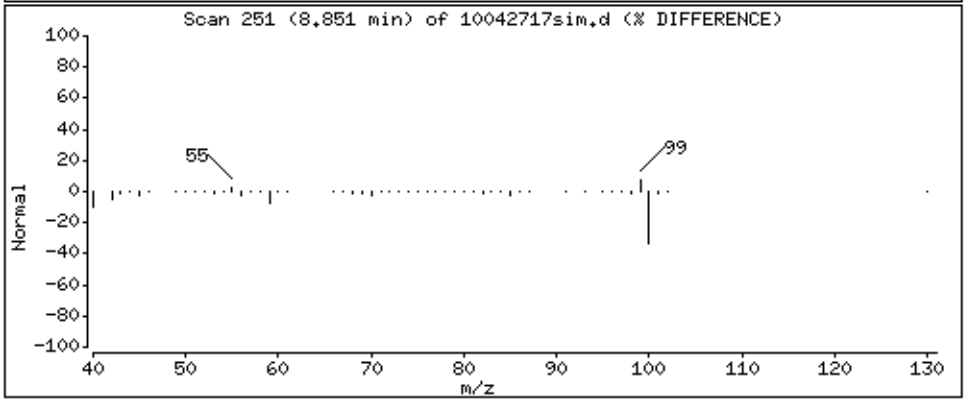












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

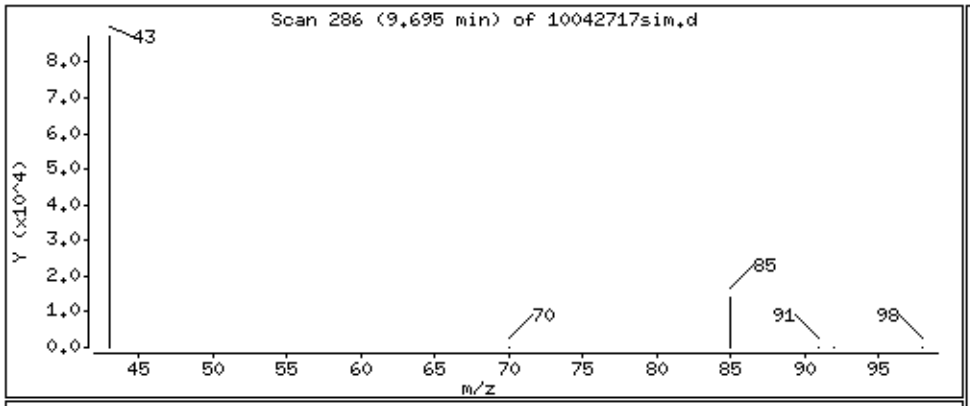
Operator: gm

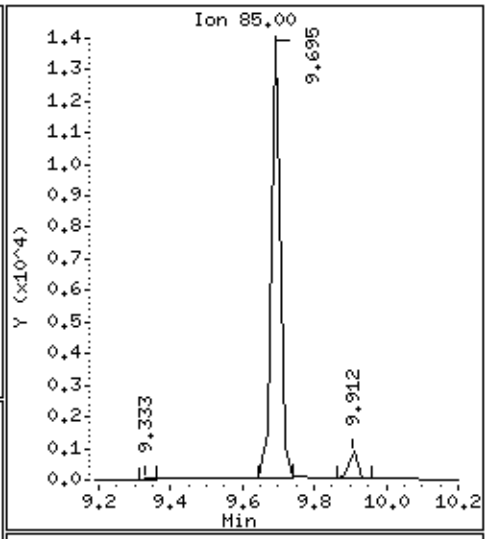
Column phase: DB-5.625

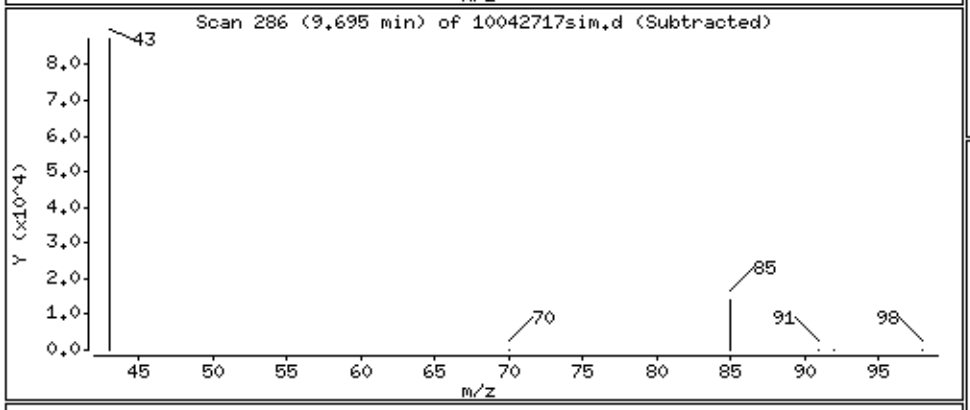
Column diameter: 0.25

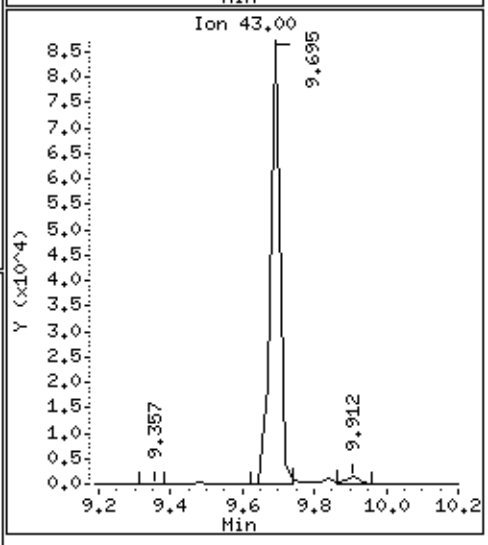
25 4-Methyl-2-pentanone

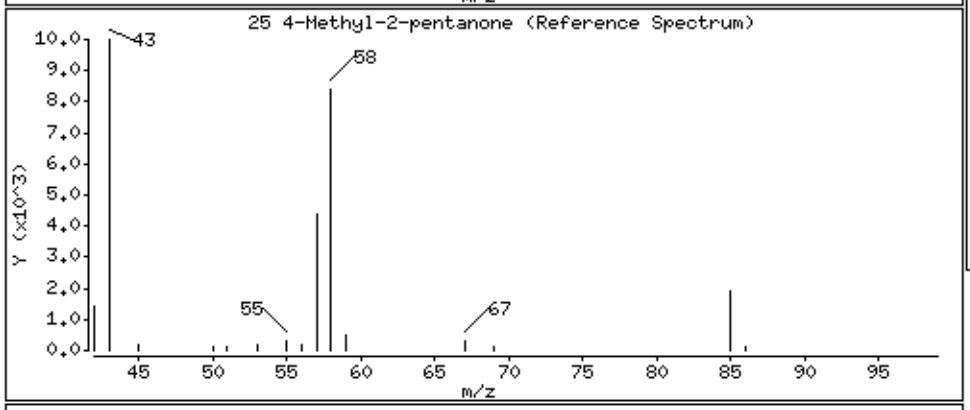
Concentration: 4.69387 ug

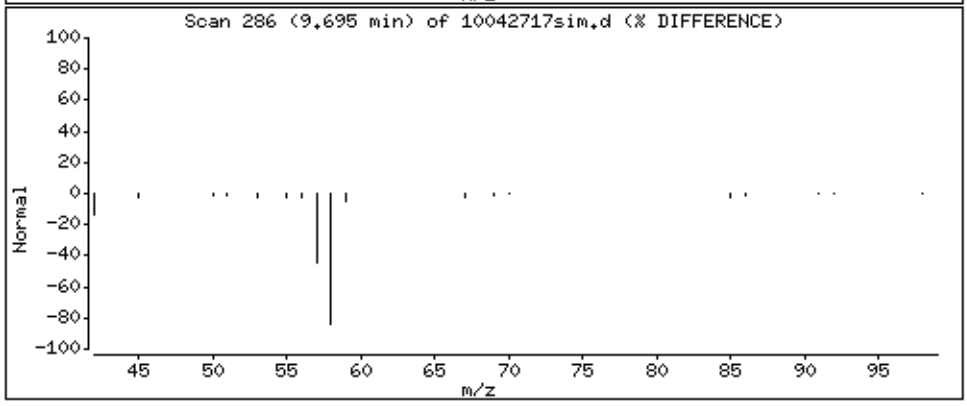












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

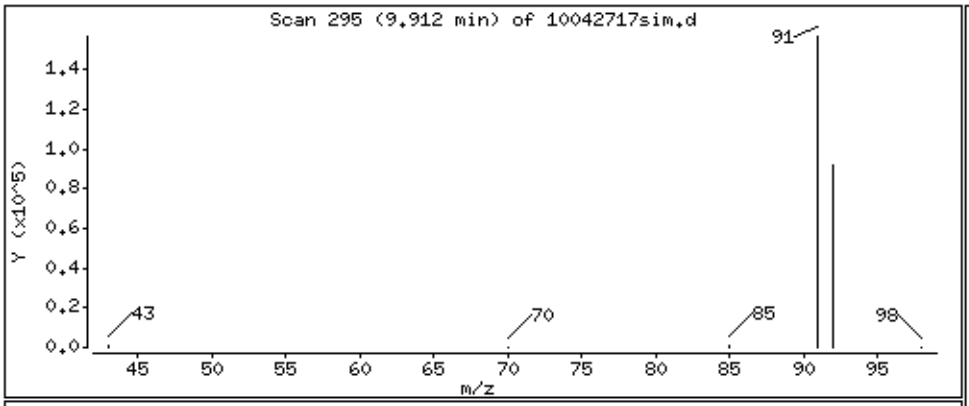
Operator: gm

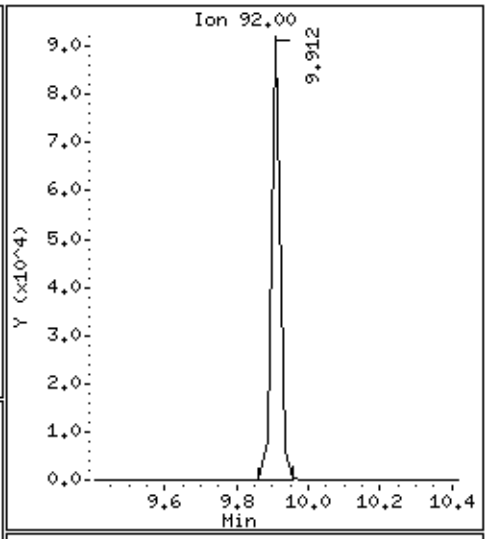
Column phase: DB-5.625

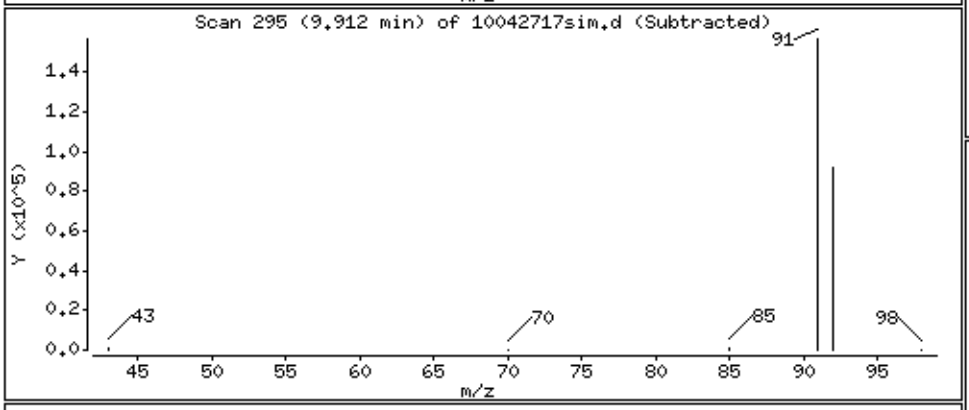
Column diameter: 0.25

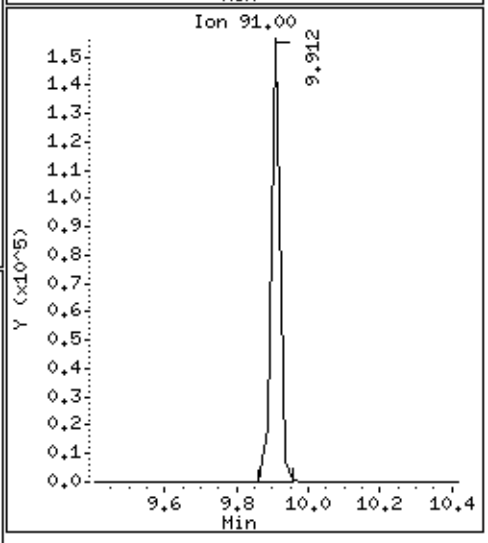
28 Toluene-CCC

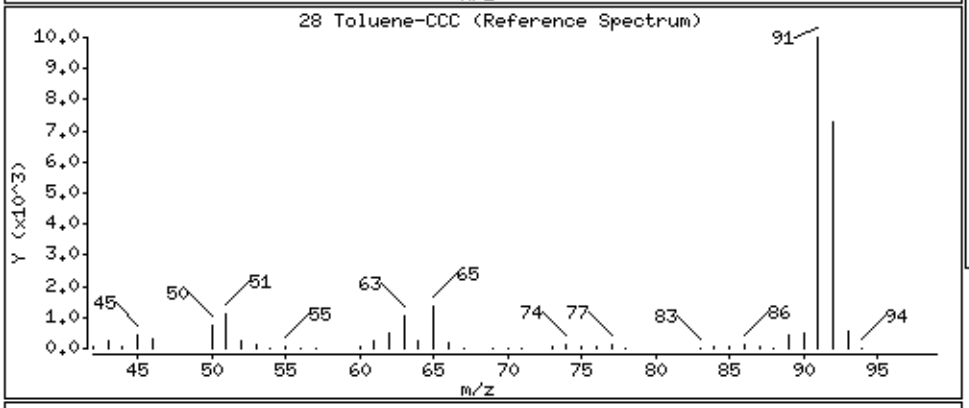
Concentration: 4.41205 ug

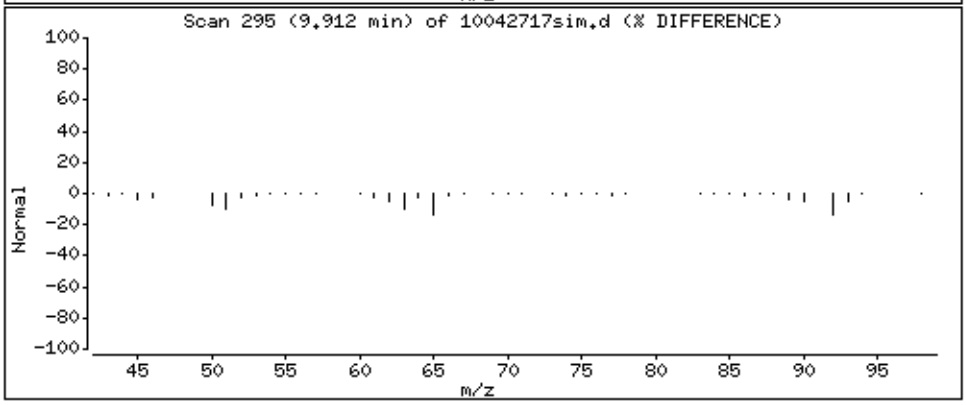












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

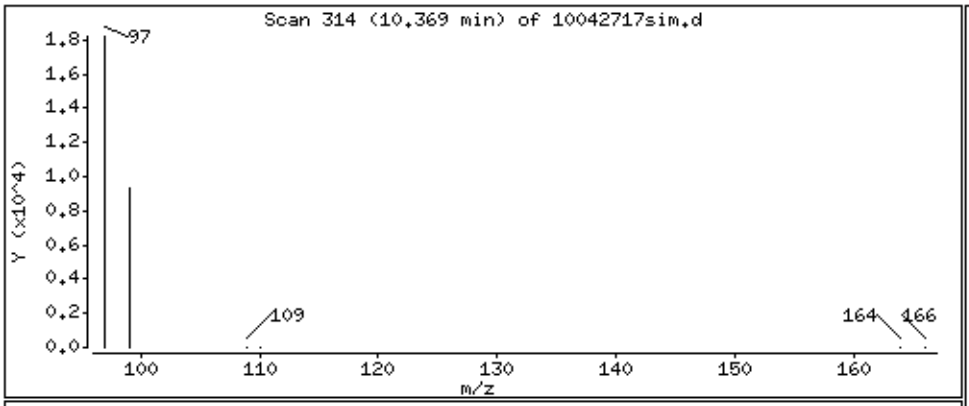
Operator: gm

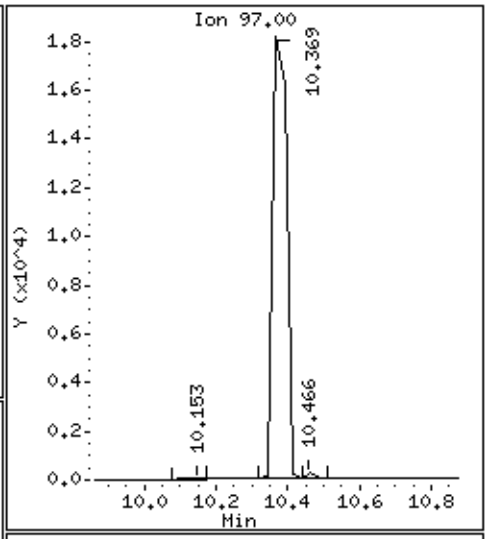
Column phase: DB-5.625

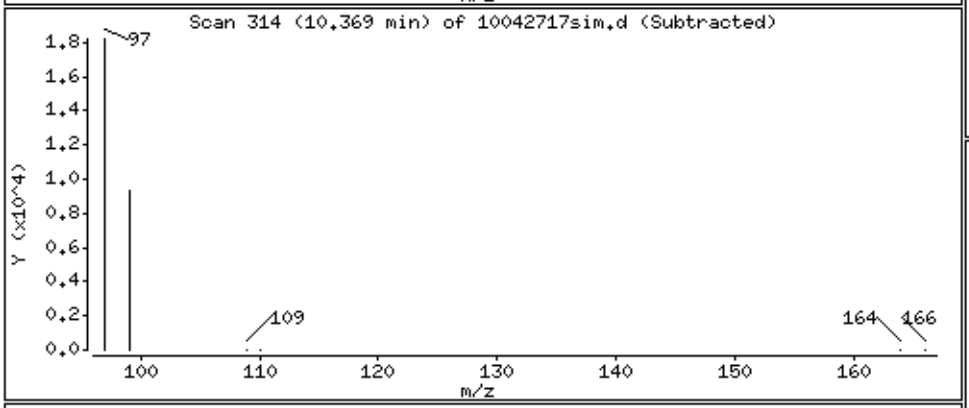
Column diameter: 0.25

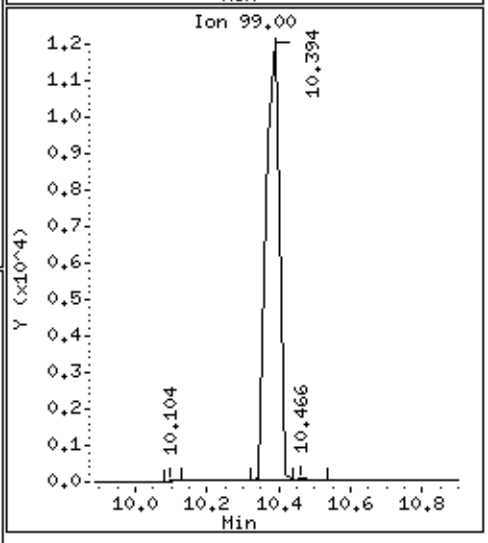
30 1,1,2-Trichloroethane

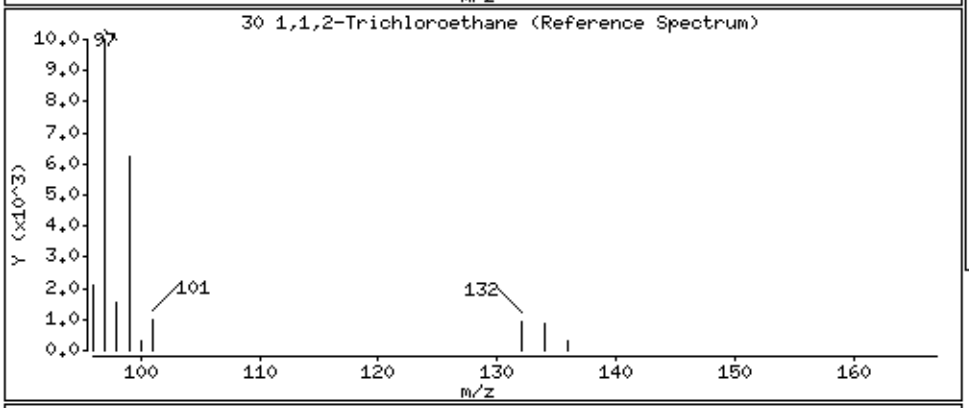
Concentration: 4.42228 ug

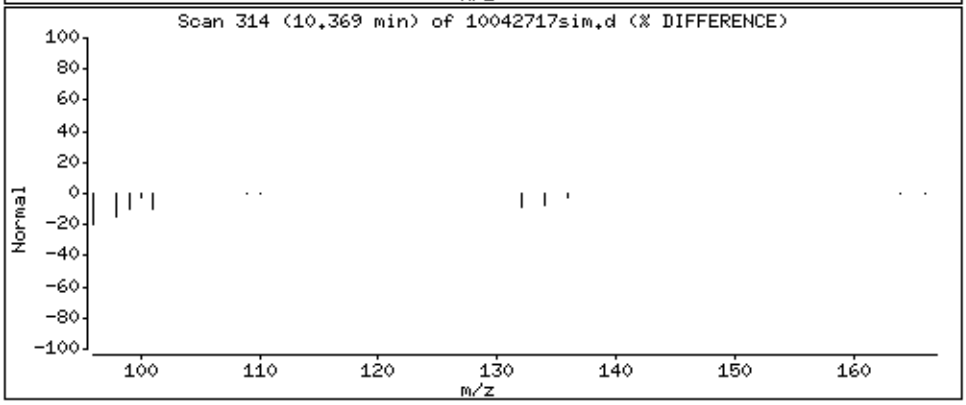












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

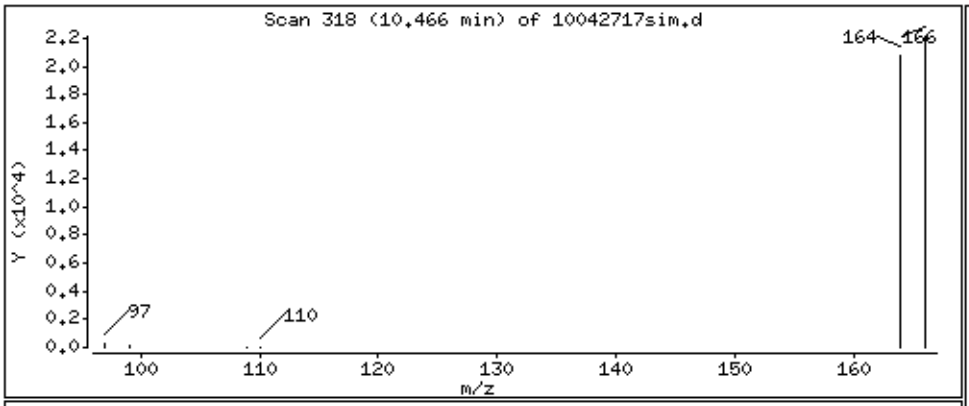
Operator: gm

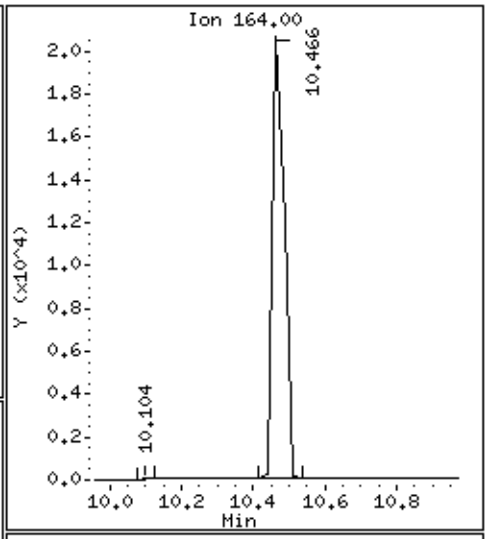
Column phase: DB-5.625

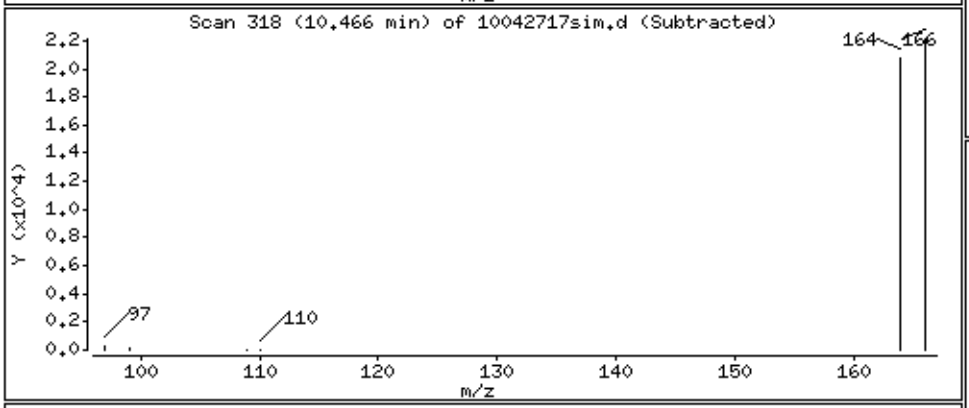
Column diameter: 0.25

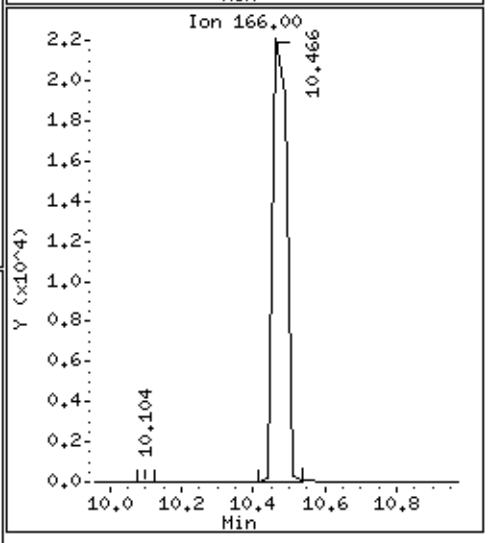
31 Tetrachloroethene

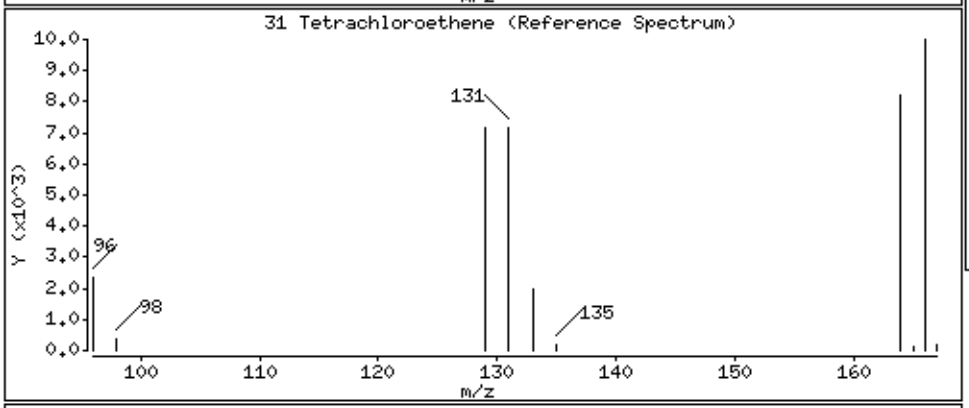
Concentration: 4.34797 ug

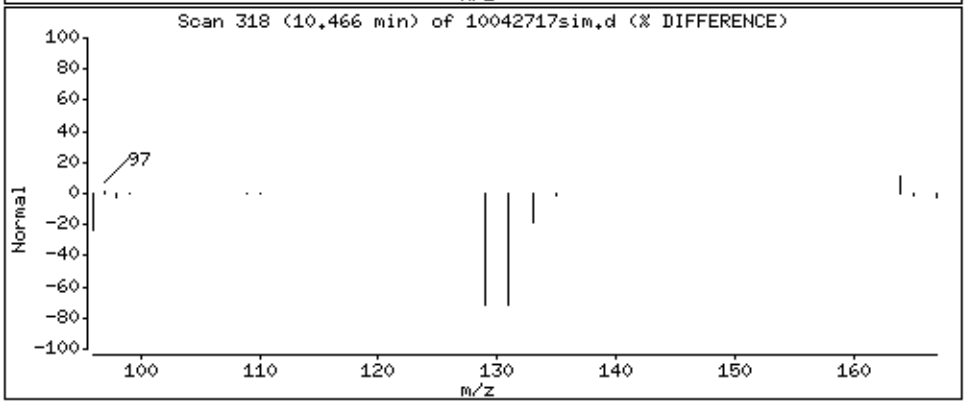












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

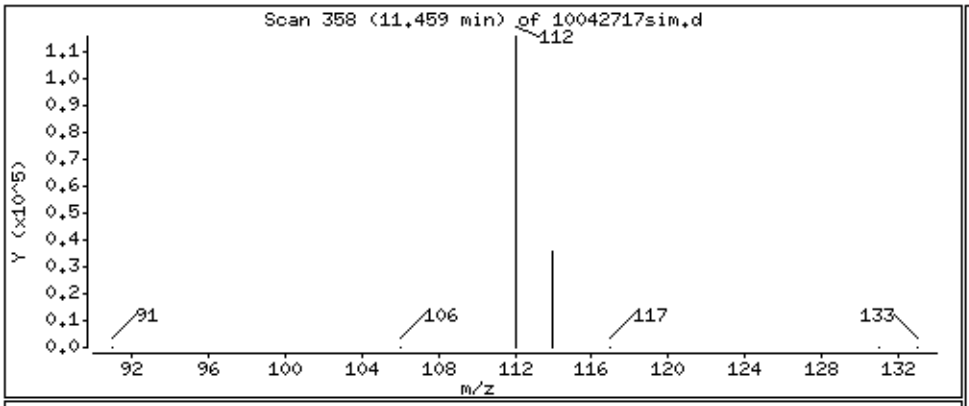
Operator: gm

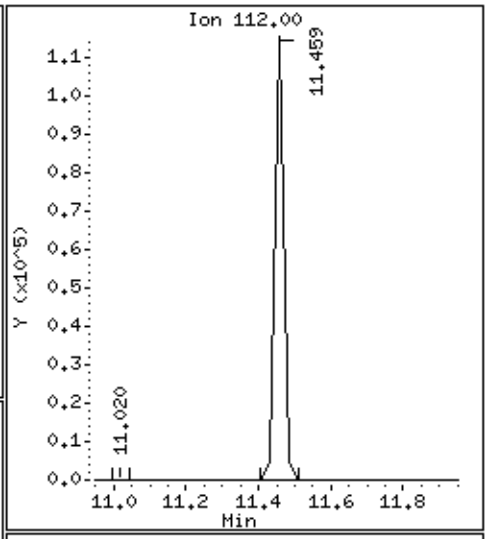
Column phase: DB-5.625

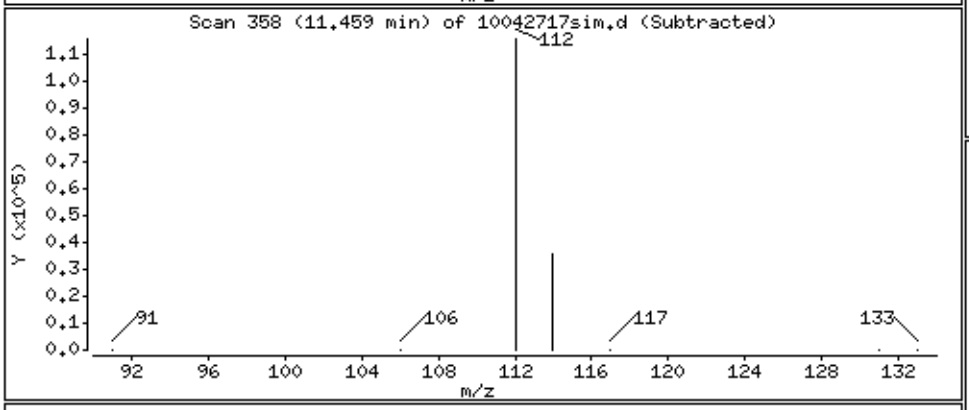
Column diameter: 0.25

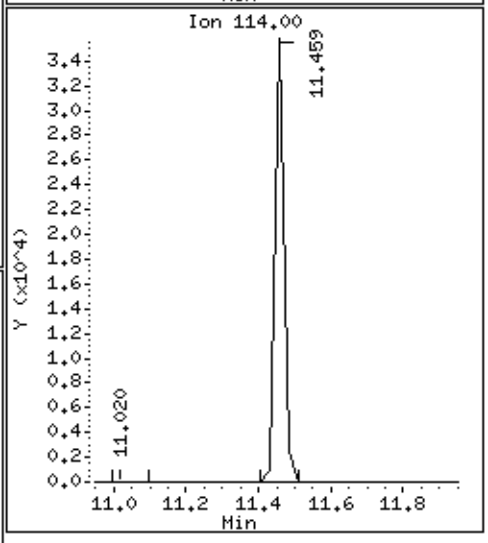
32 Chlorobenzene

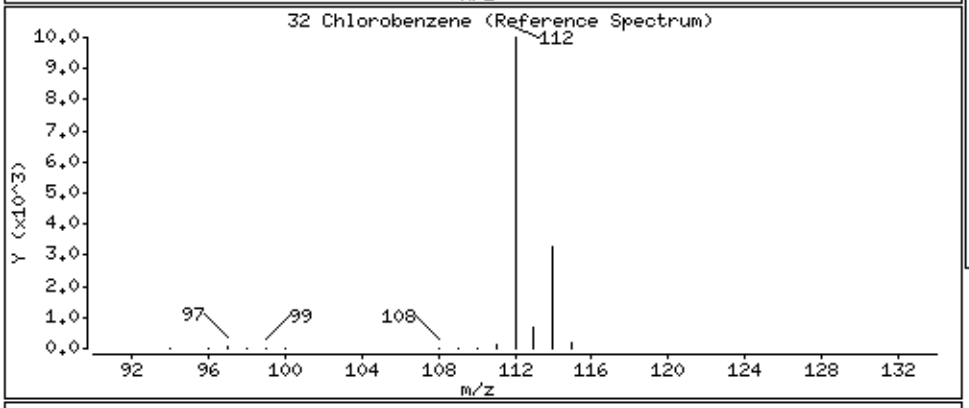
Concentration: 4.43842 ug

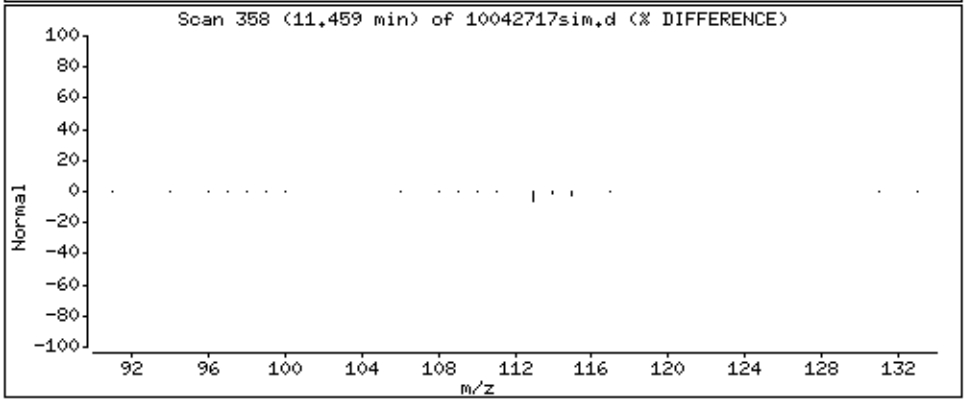












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

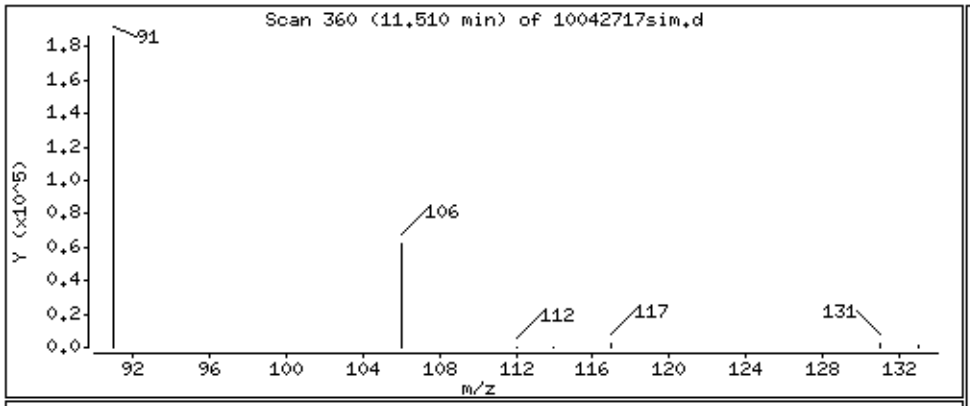
Operator: gm

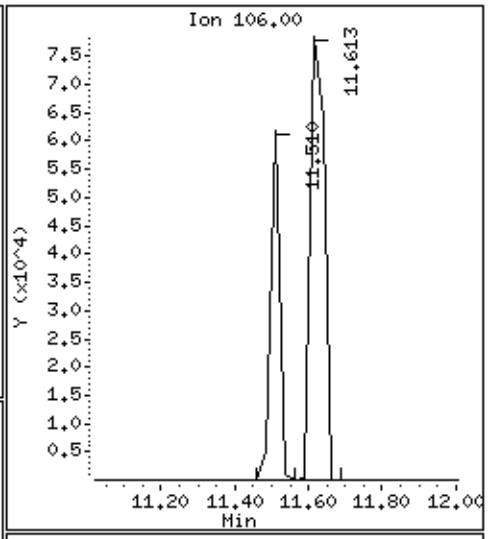
Column phase: DB-5.625

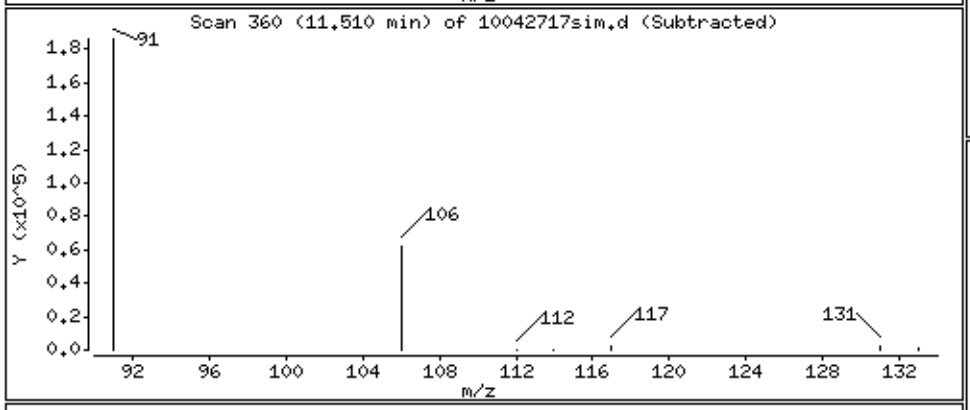
Column diameter: 0.25

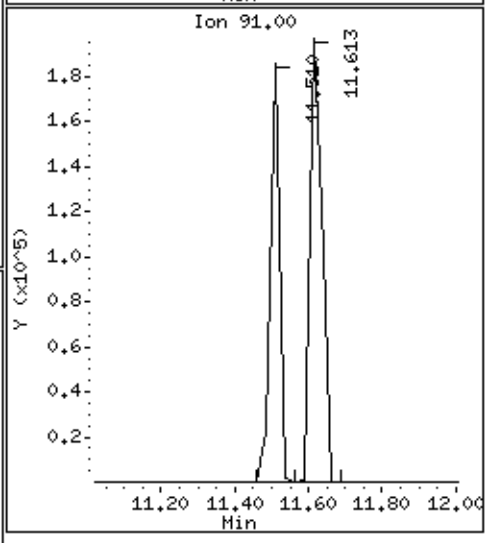
33 Ethylbenzene-CCC

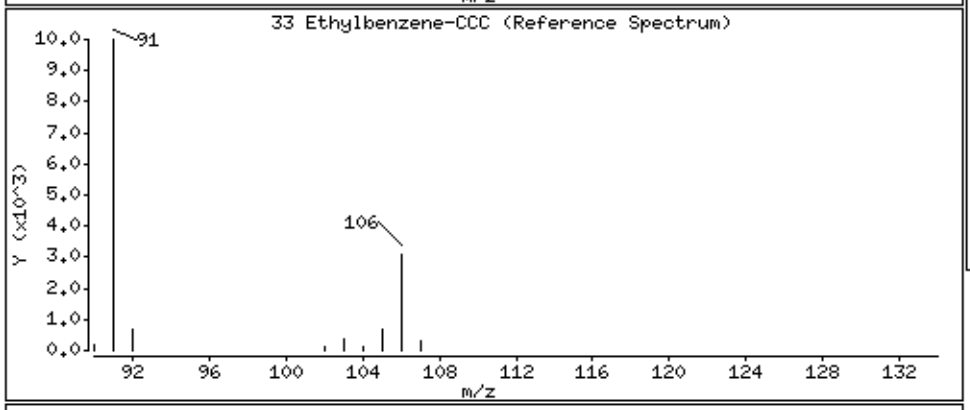
Concentration: 4.38691 ug

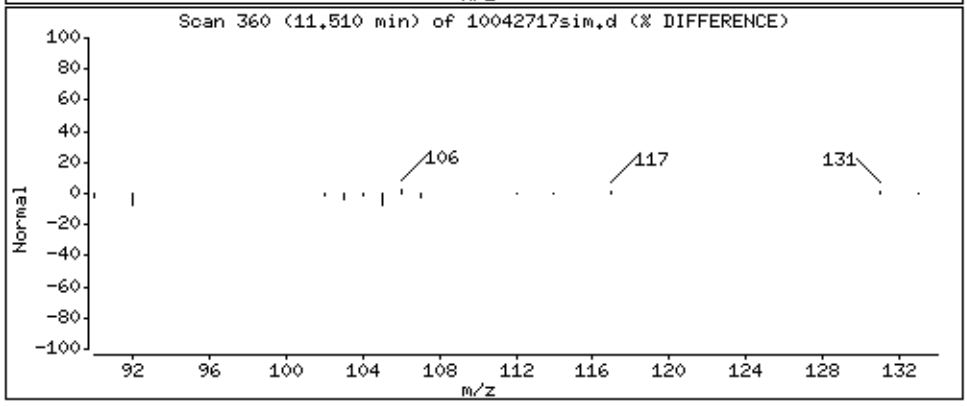












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

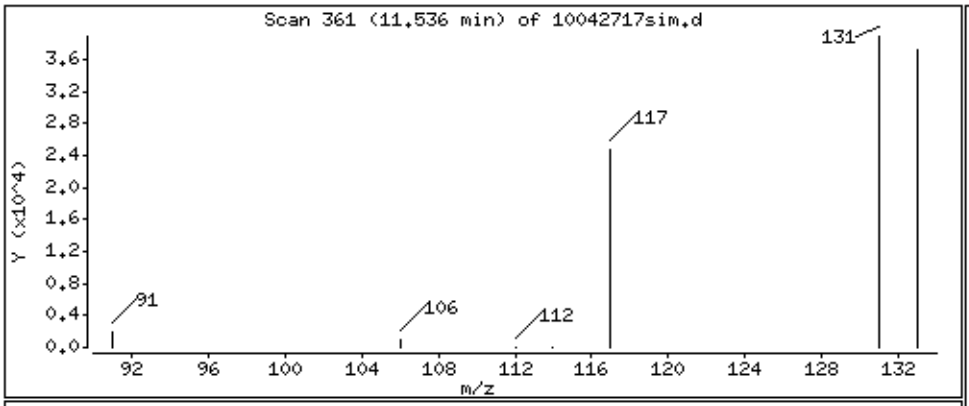
Operator: gm

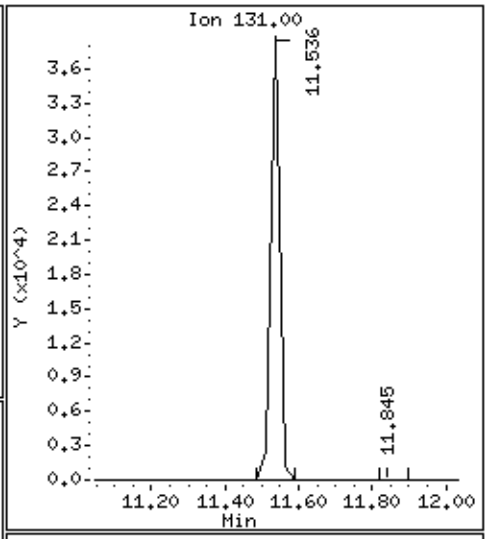
Column phase: DB-5.625

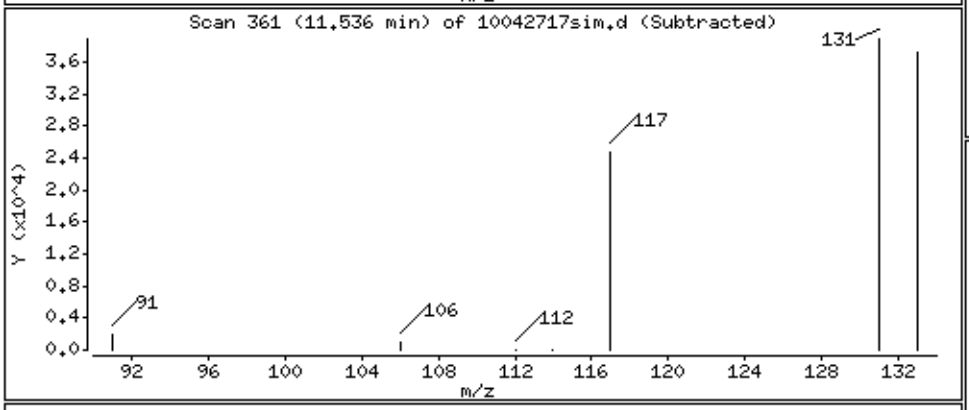
Column diameter: 0.25

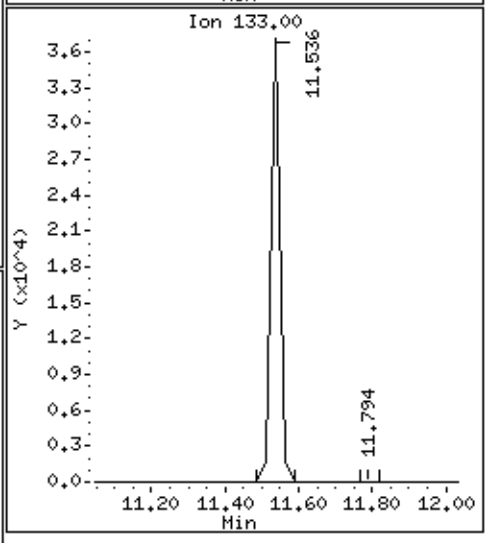
209 1,1,1,2-Tetrachloroethane

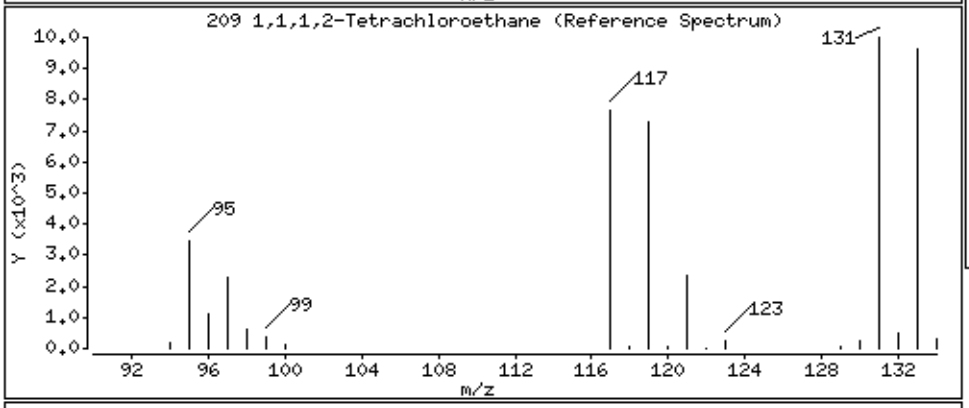
Concentration: 4.40712 ug

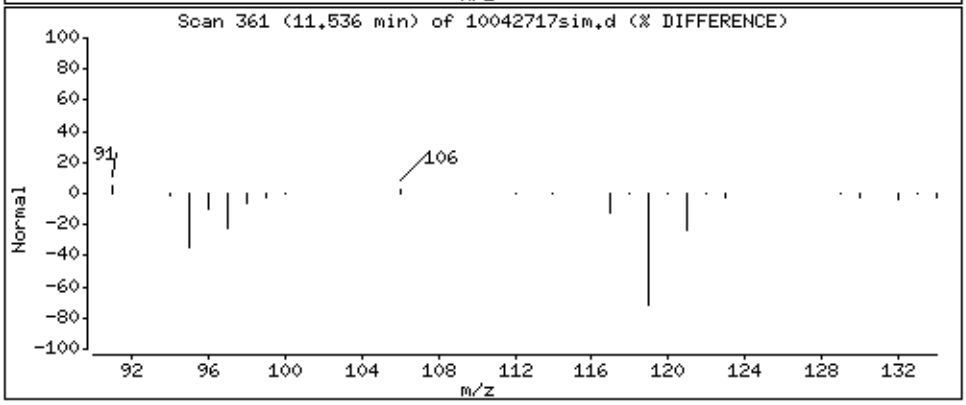












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

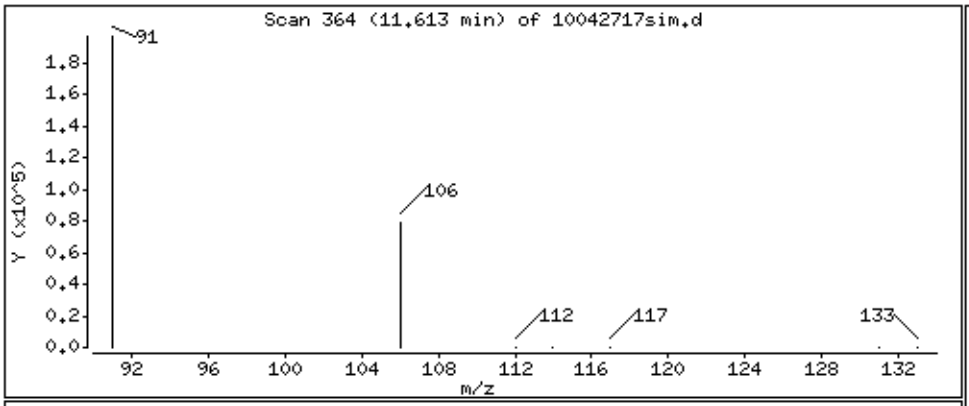
Operator: gm

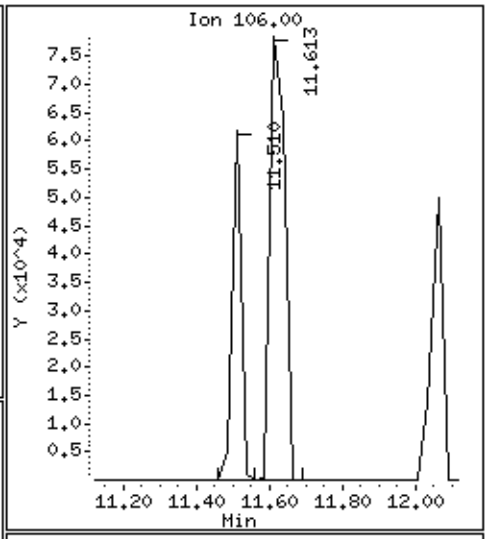
Column phase: DB-5.625

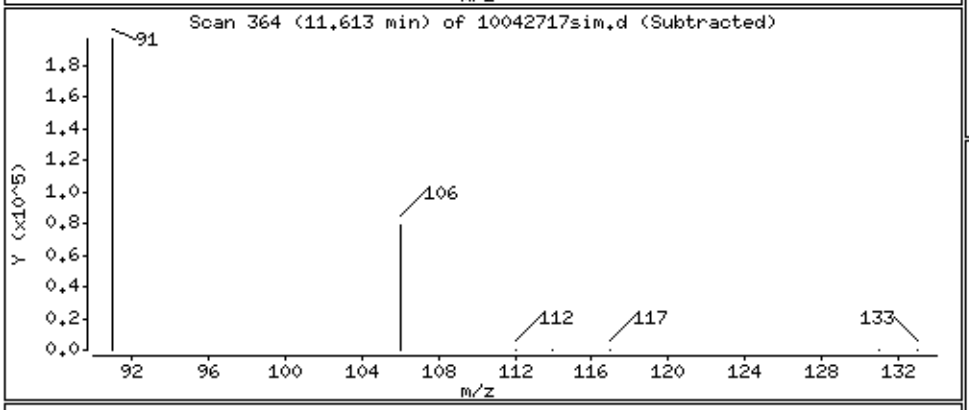
Column diameter: 0.25

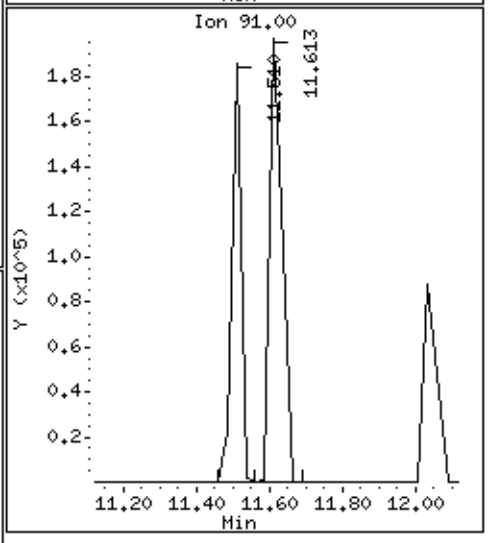
34 m,p-Xylene

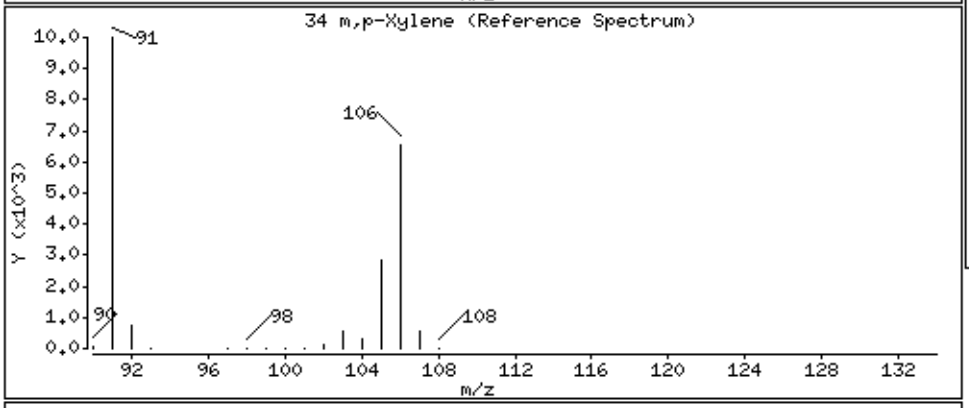
Concentration: 8.84556 ug

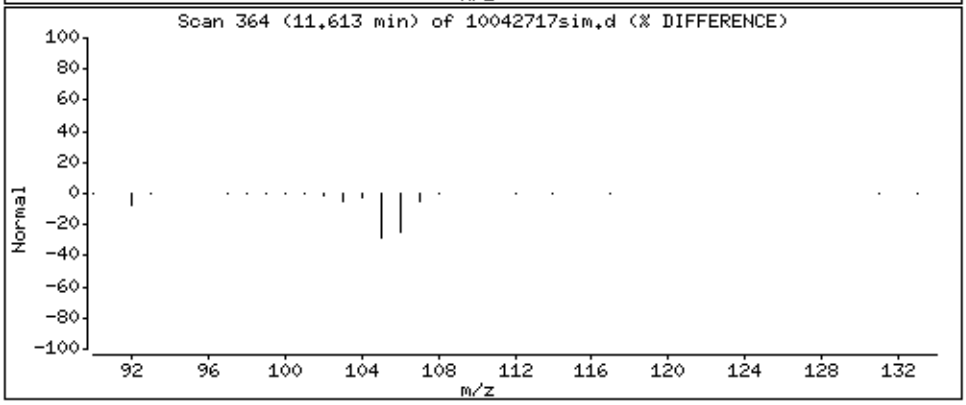












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

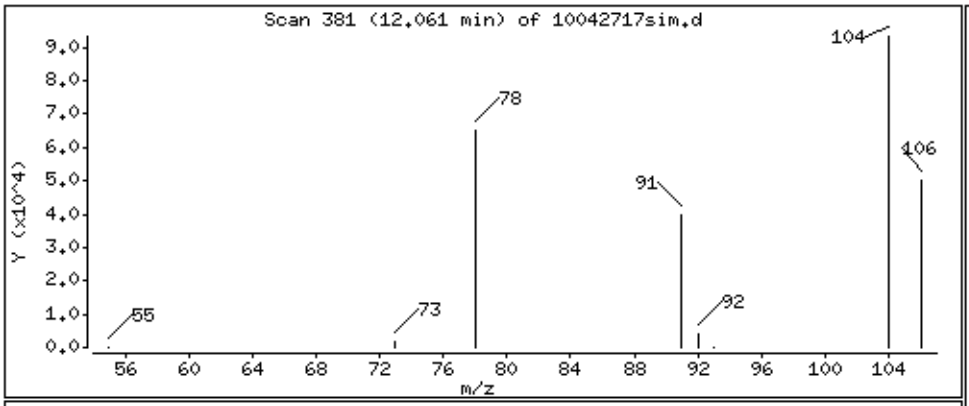
Operator: gm

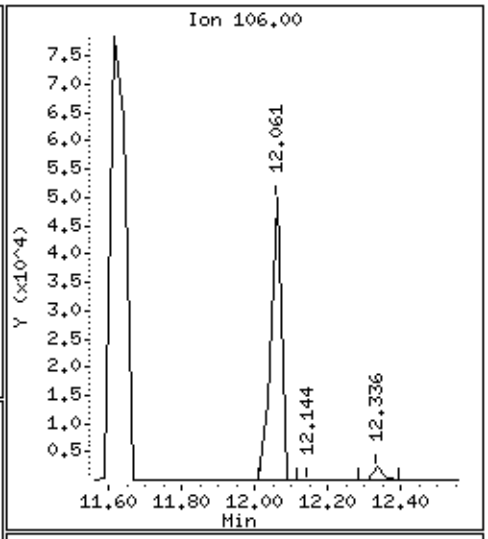
Column phase: DB-5.625

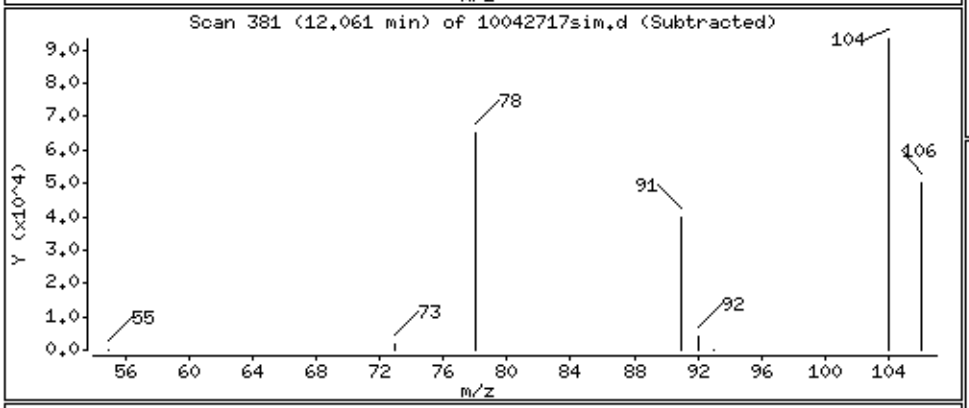
Column diameter: 0.25

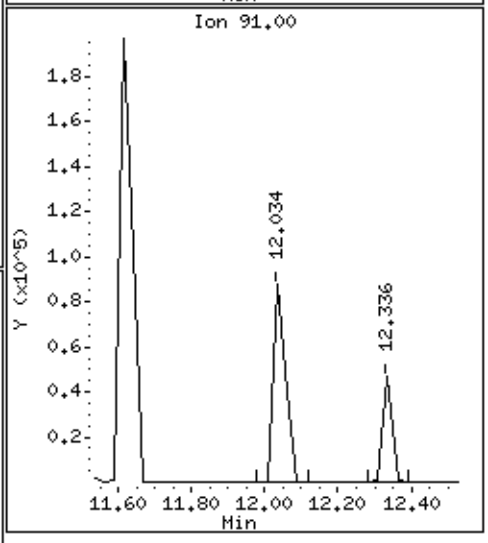
36 o-Xylene

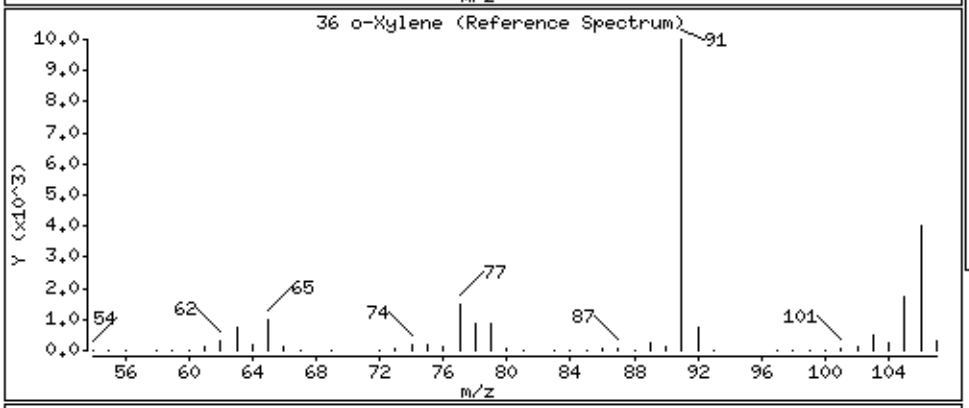
Concentration: 4.29526 ug

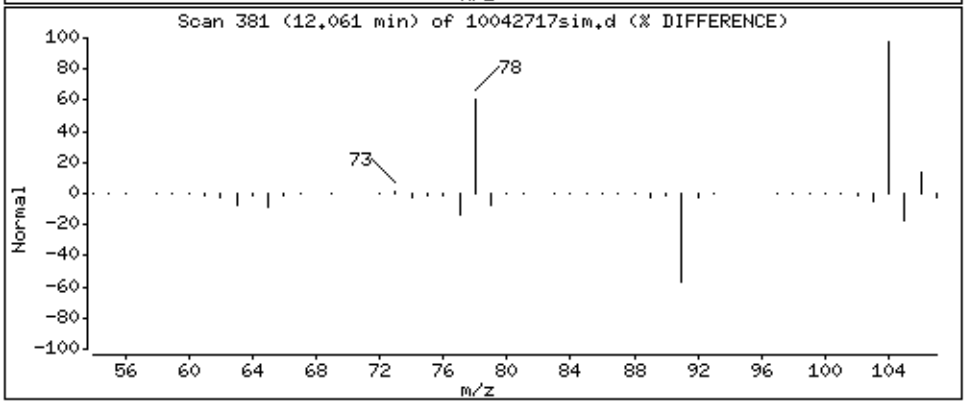












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

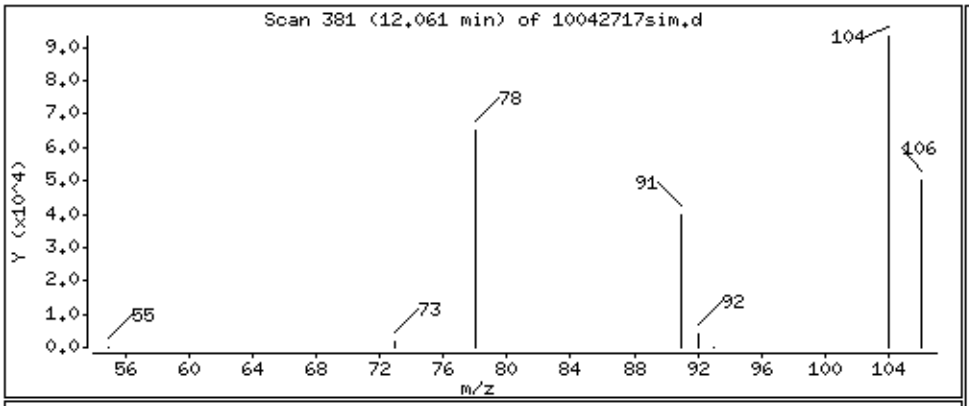
Operator: gm

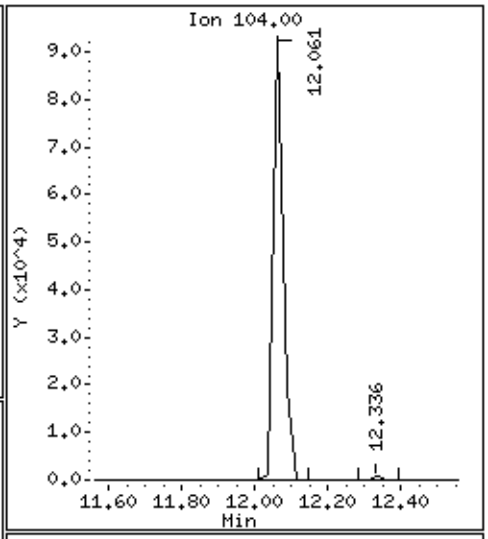
Column phase: DB-5.625

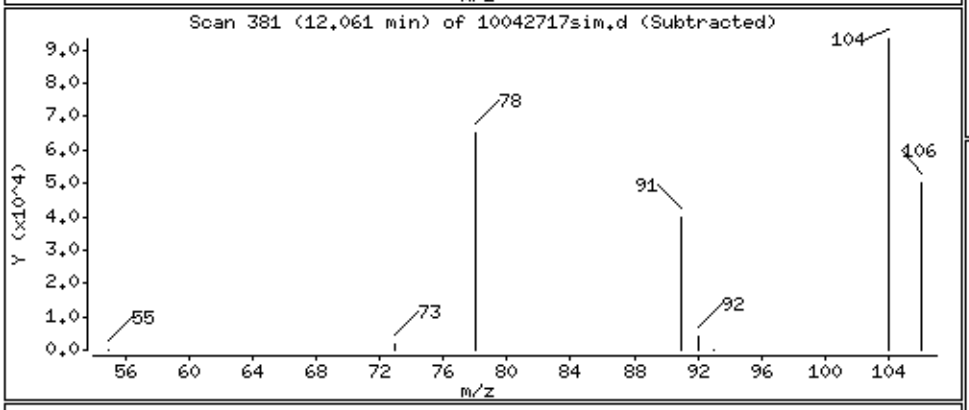
Column diameter: 0.25

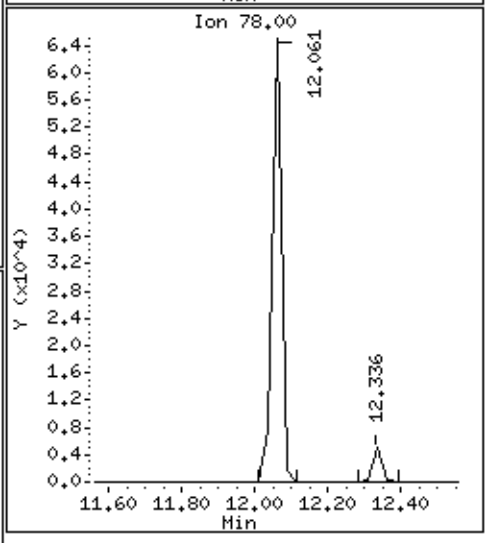
37 Styrene

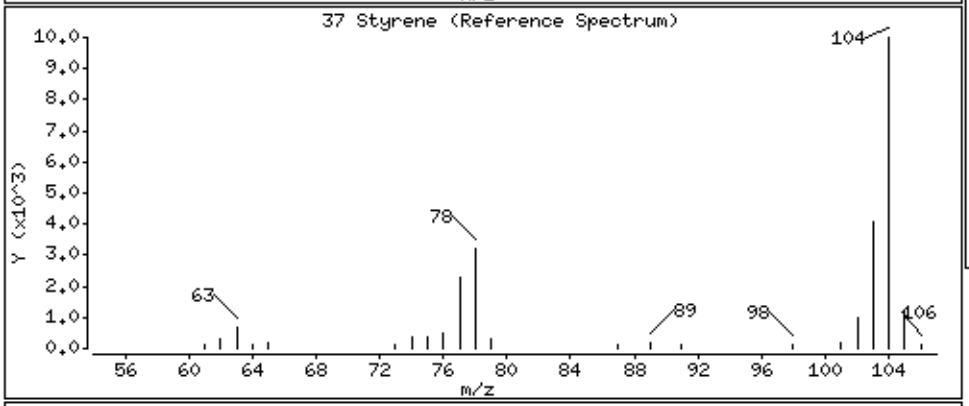
Concentration: 4.58696 ug

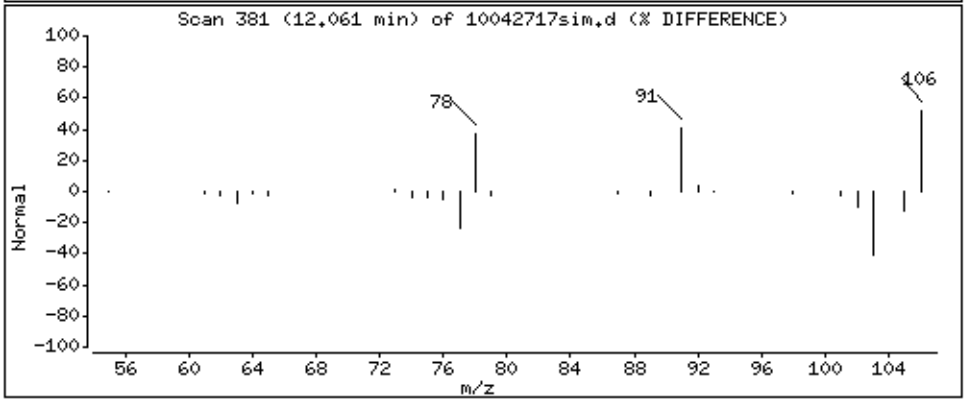












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

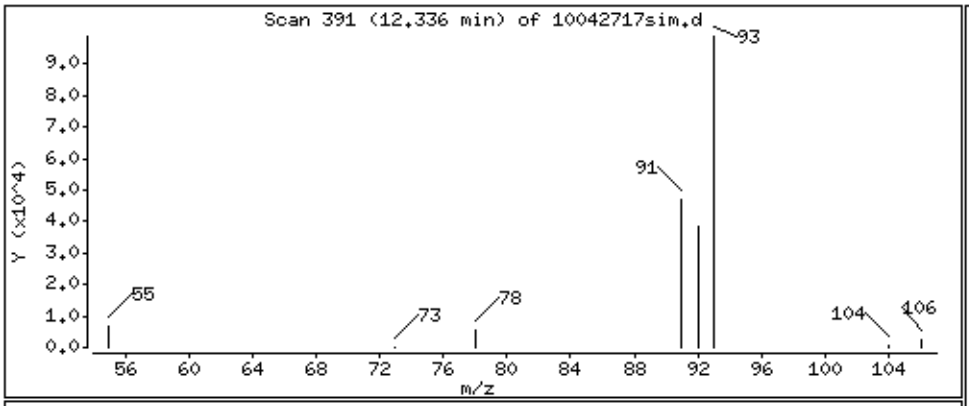
Operator: gm

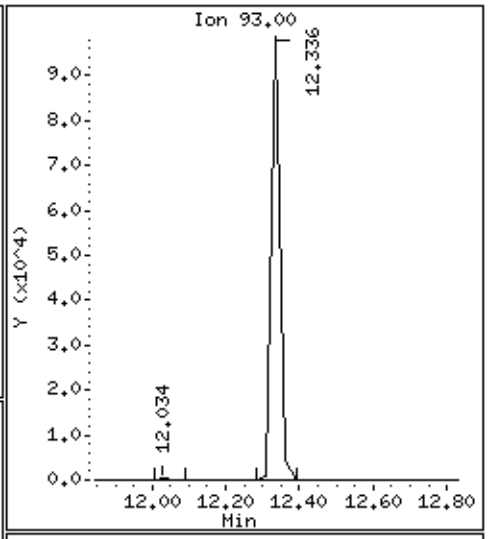
Column phase: DB-5.625

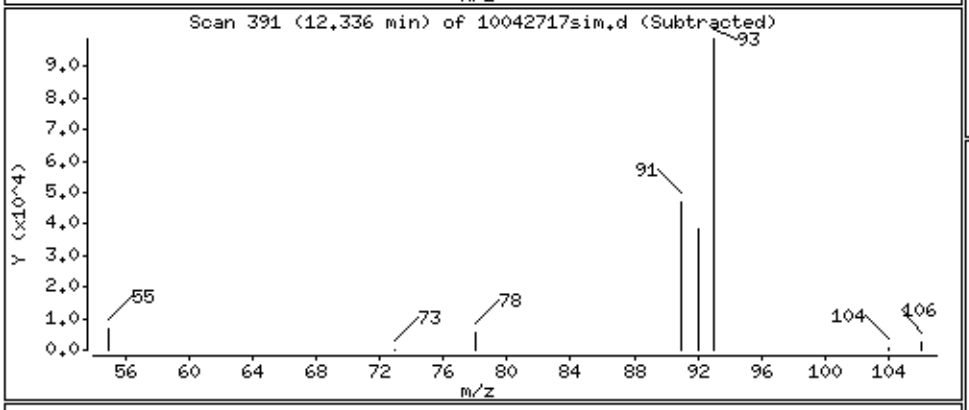
Column diameter: 0.25

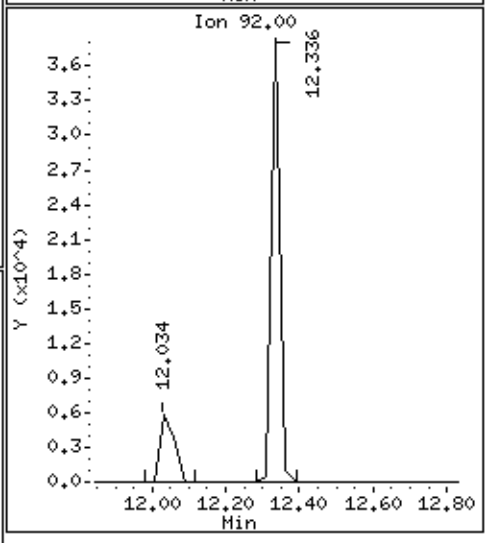
38 a-Pinene

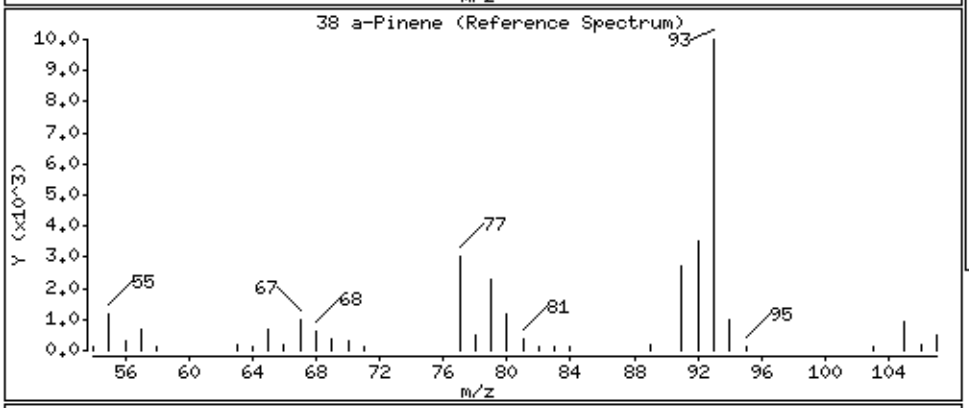
Concentration: 5.07613 ug

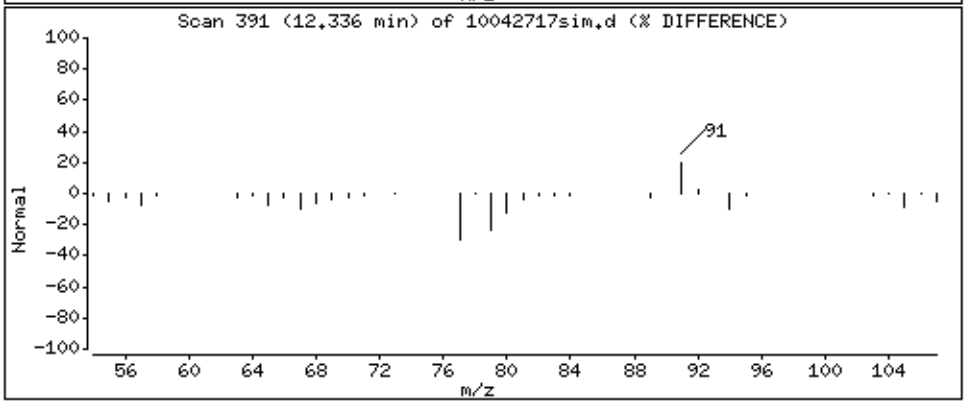












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

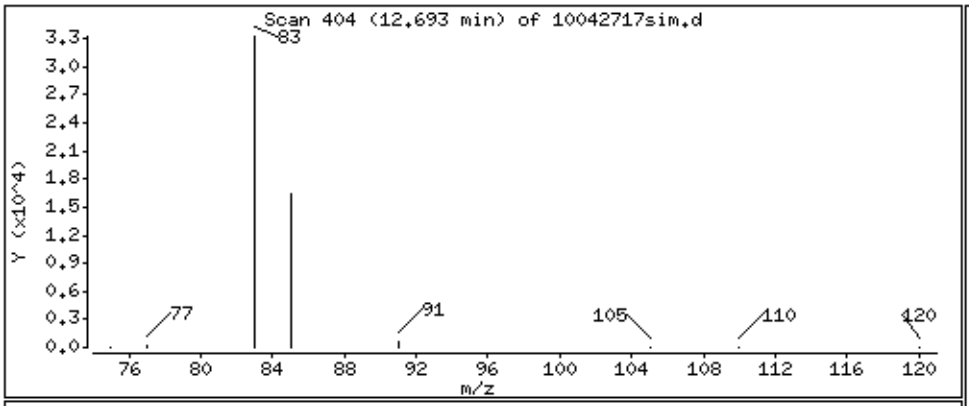
Operator: gm

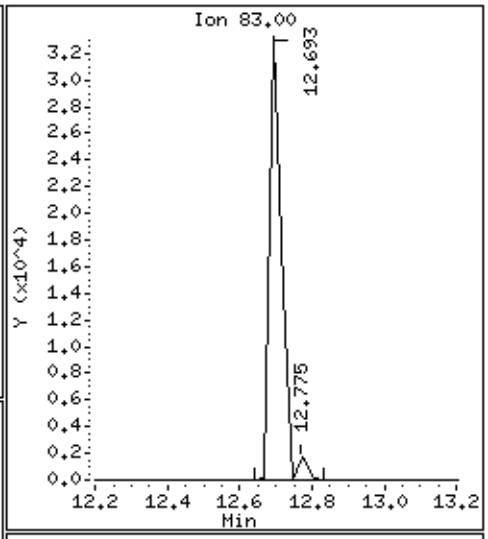
Column phase: DB-5.625

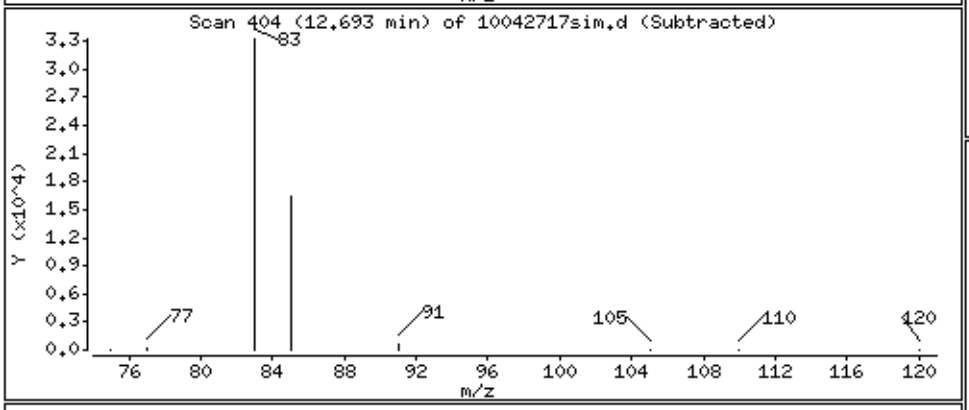
Column diameter: 0.25

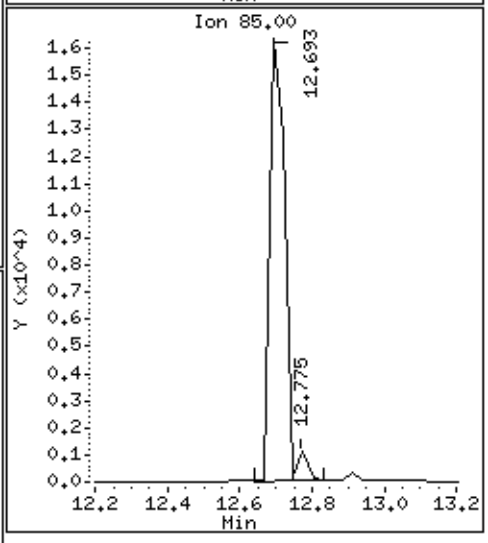
39 1,1,2,2-Tetrachloroethane-SPC

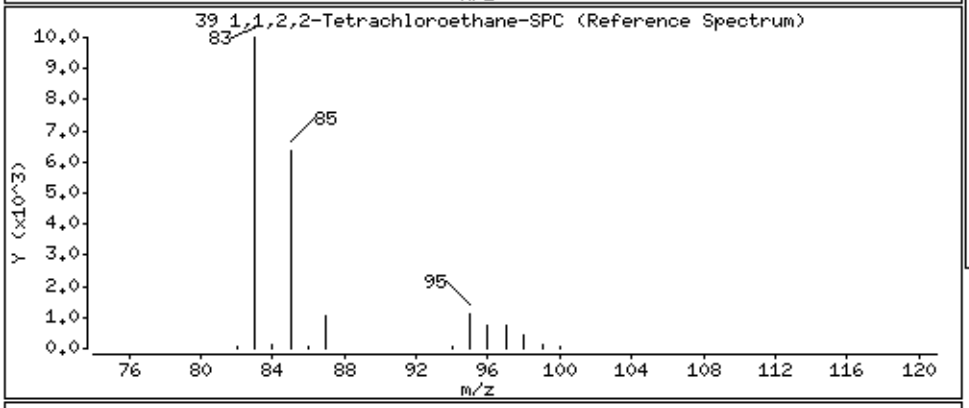
Concentration: 4.35216 ug

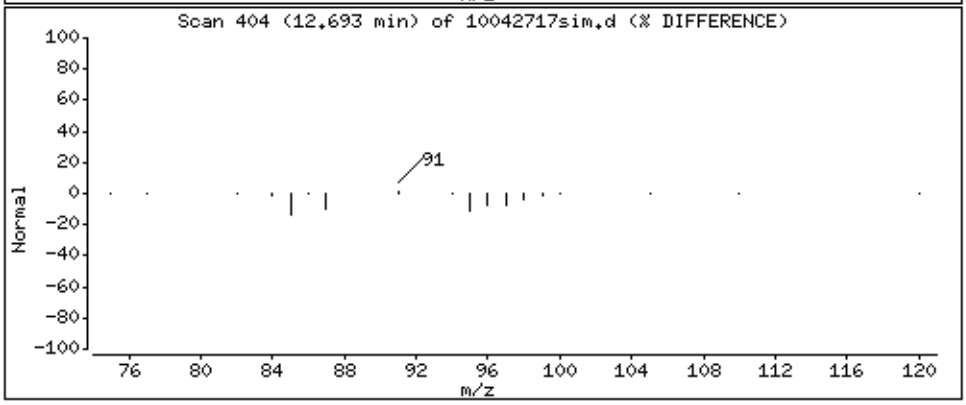












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

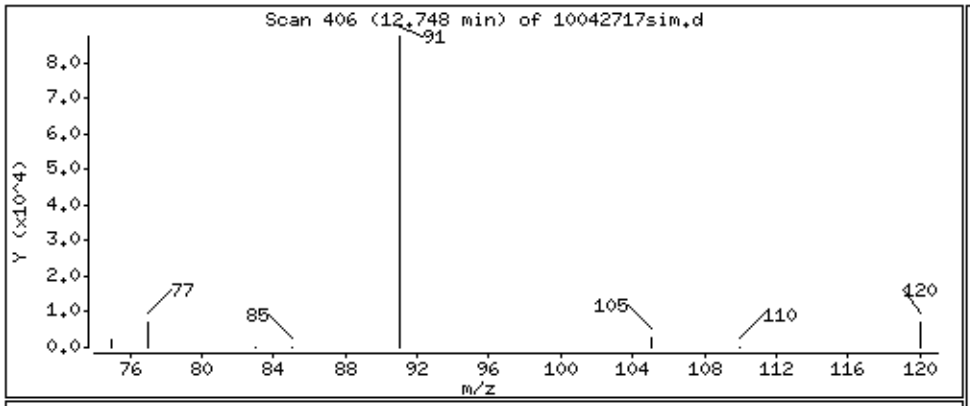
Operator: gm

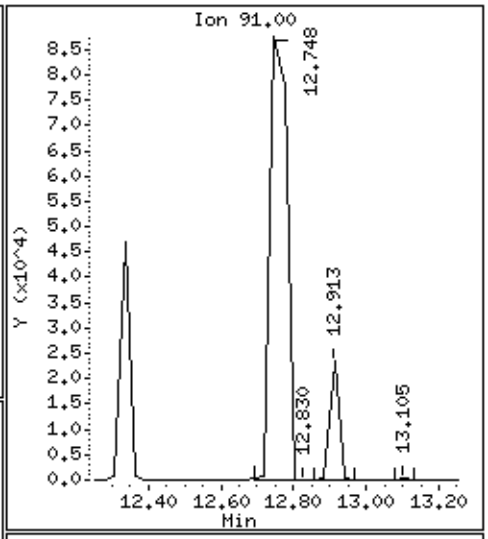
Column phase: DB-5.625

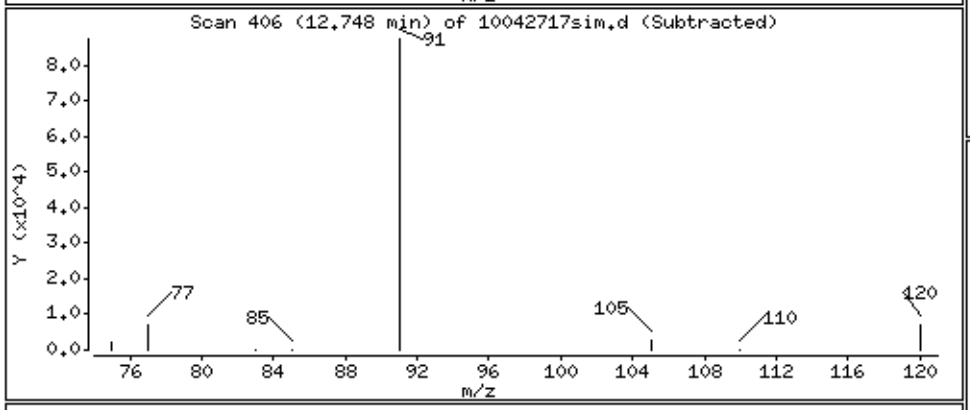
Column diameter: 0.25

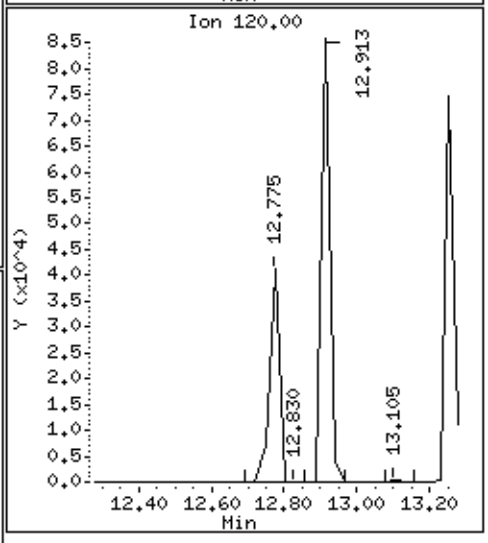
40 Propylbenzene

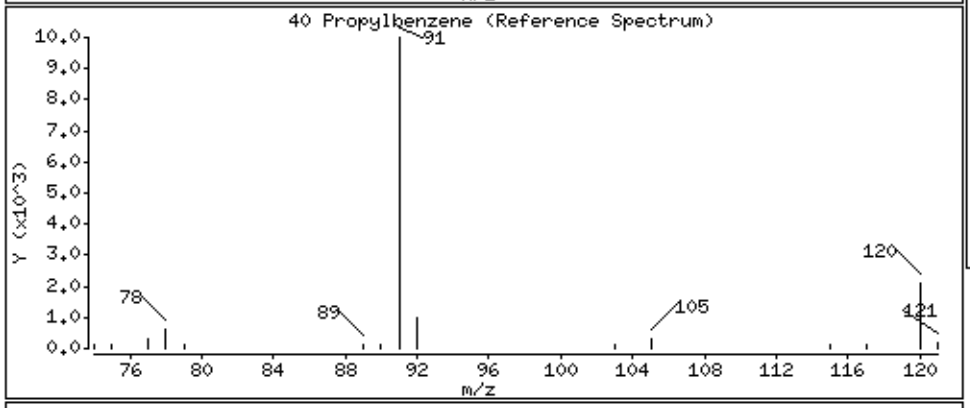
Concentration: 4.26662 ug

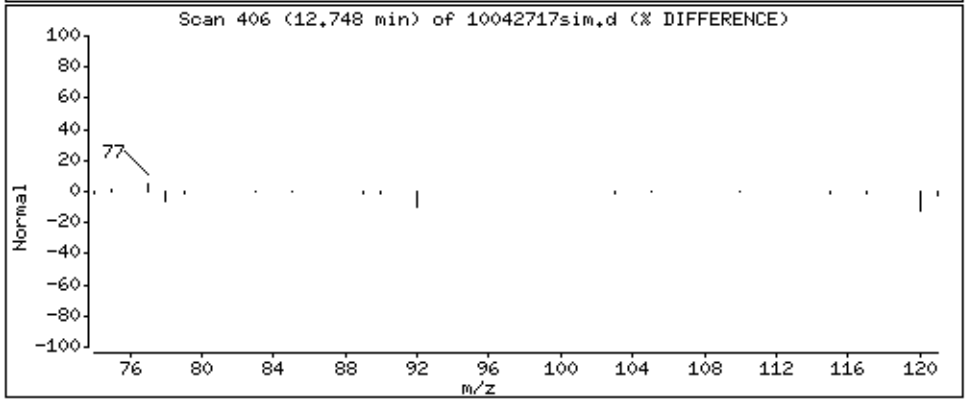












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

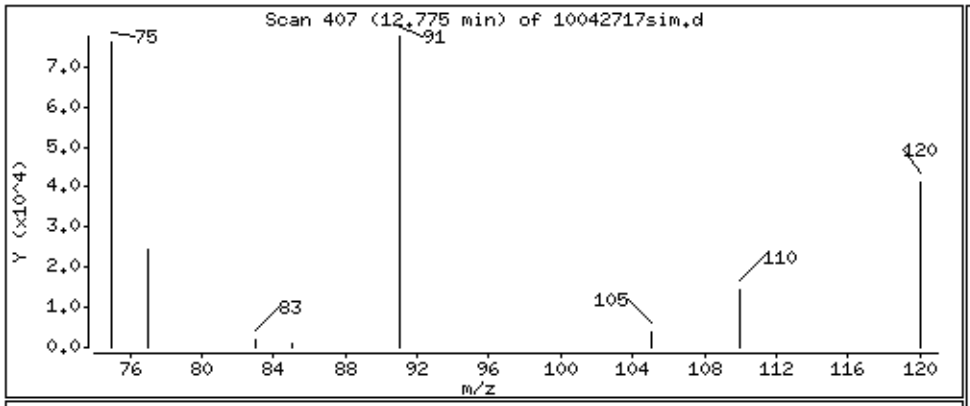
Operator: gm

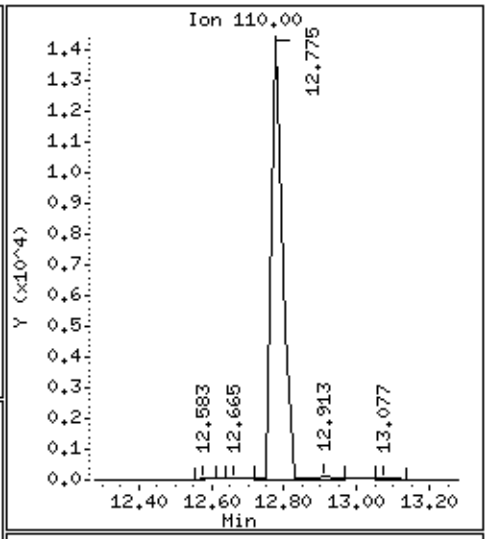
Column phase: DB-5.625

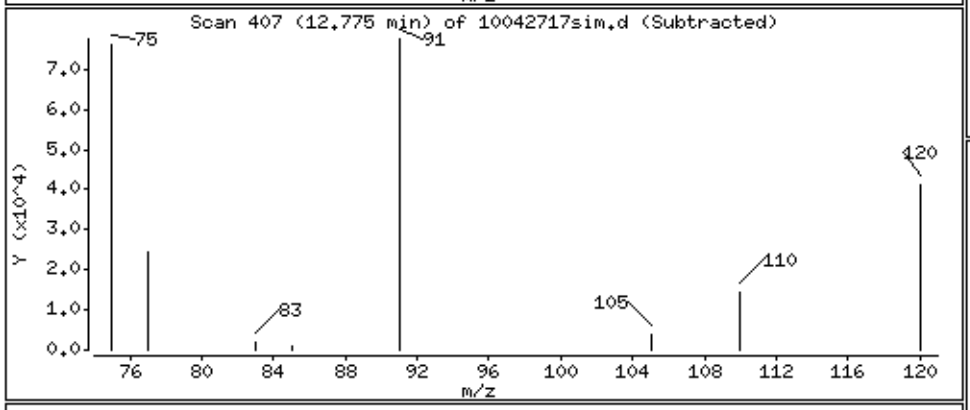
Column diameter: 0.25

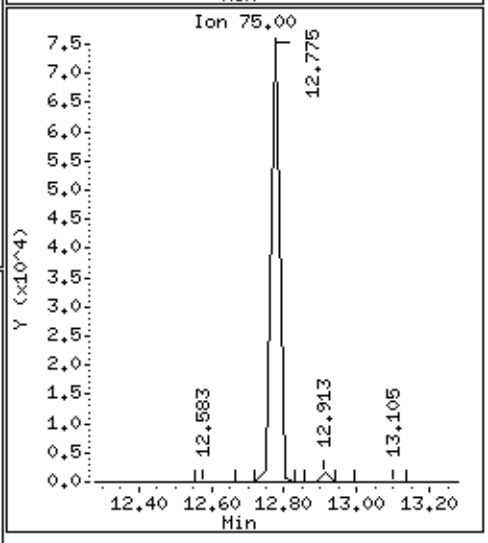
210 1,2,3-Trichloropropane

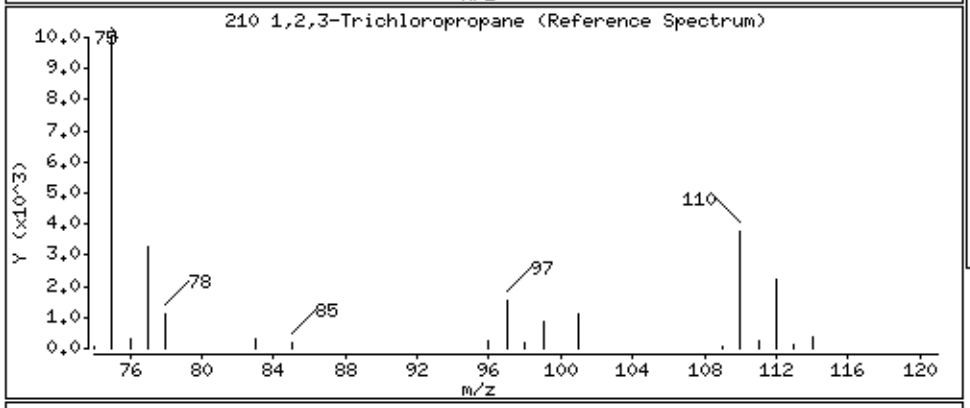
Concentration: 4.38718 ug

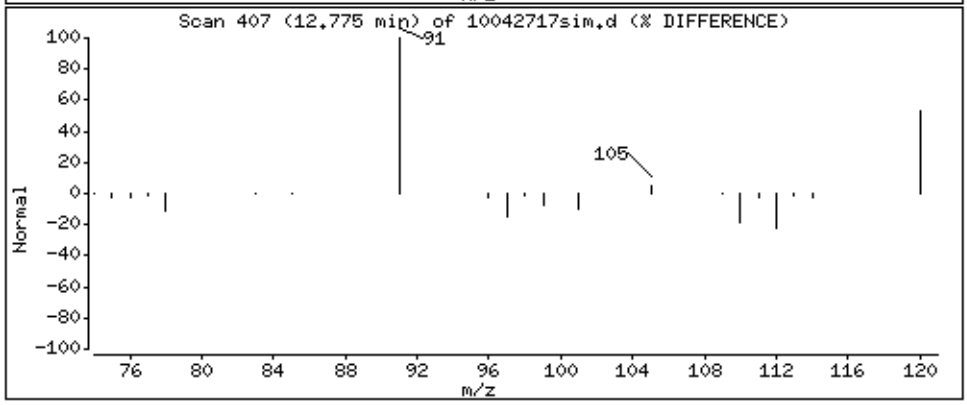












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

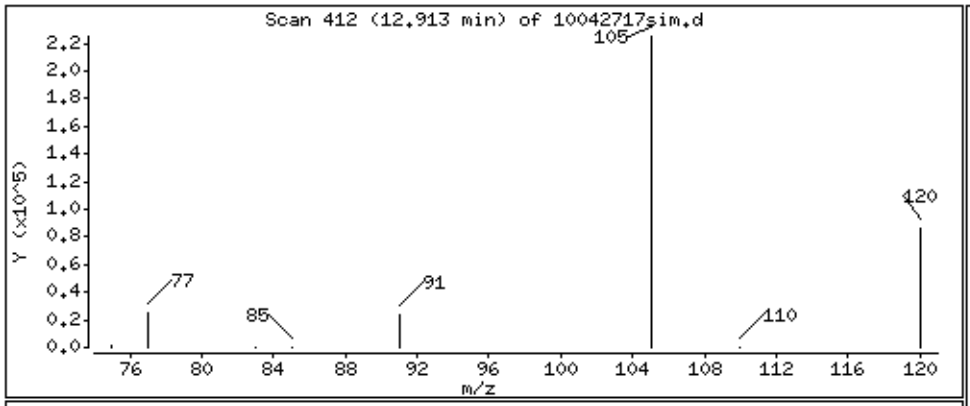
Operator: gm

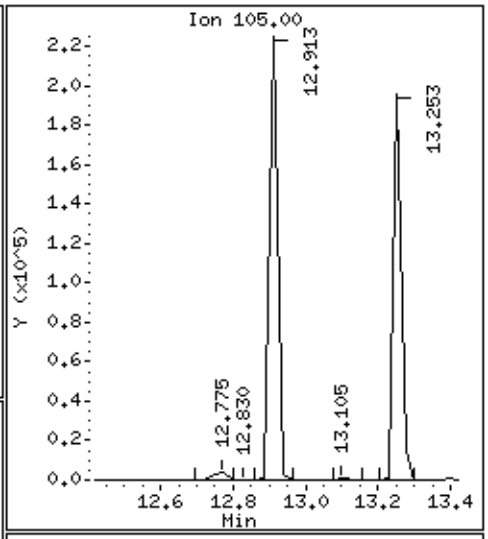
Column phase: DB-5.625

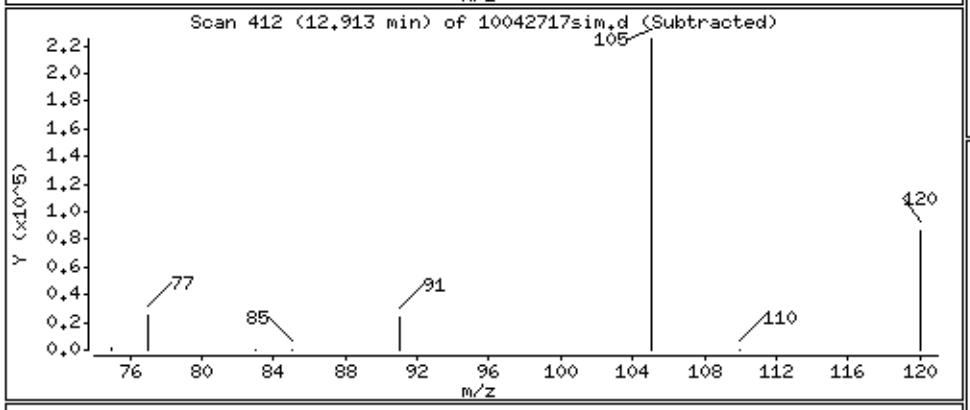
Column diameter: 0.25

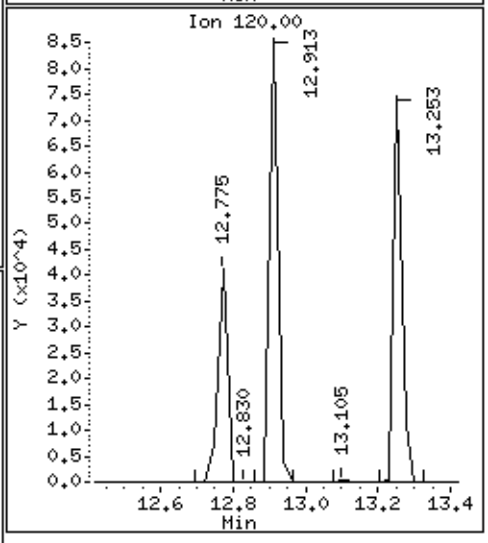
41 1,3,5-Trimethylbenzene

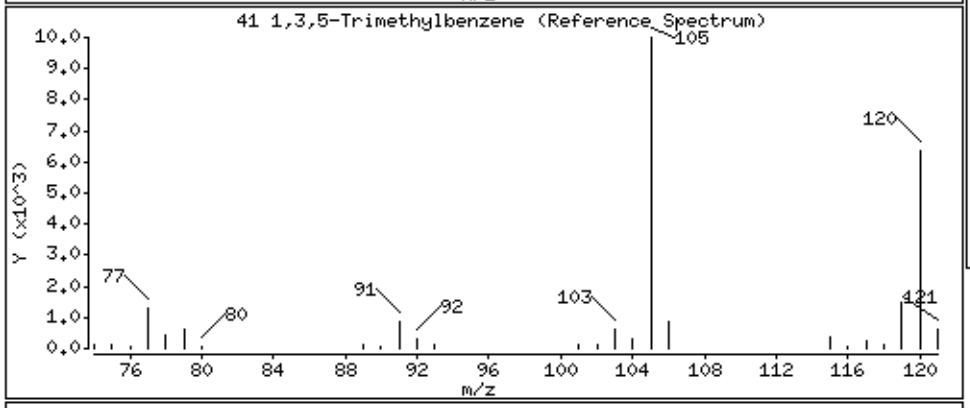
Concentration: 4.76306 ug

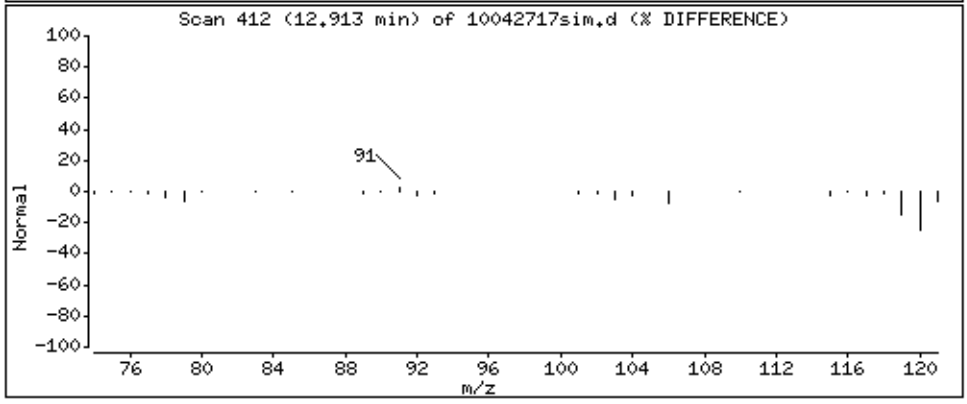












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

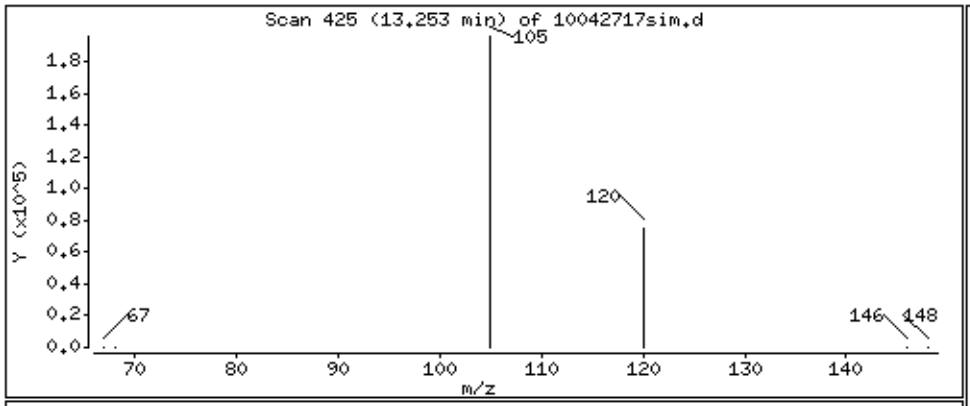
Operator: gm

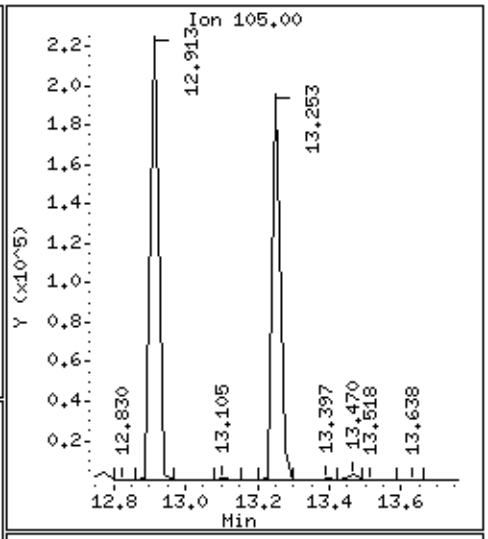
Column phase: DB-5.625

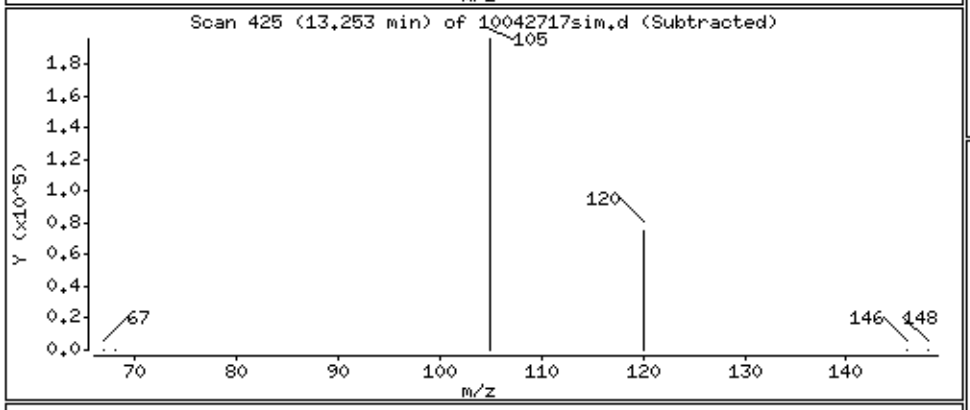
Column diameter: 0.25

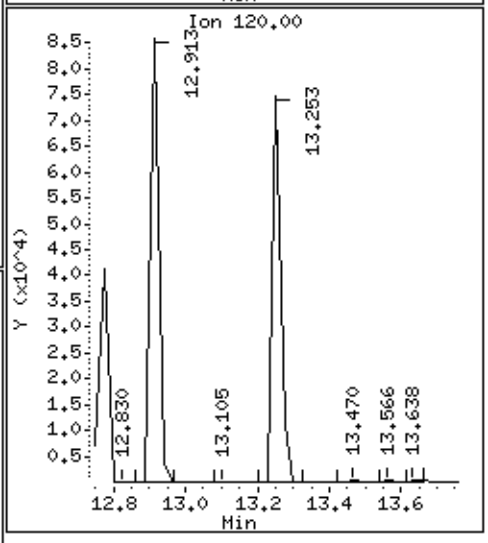
42 1,2,4-Trimethylbenzene

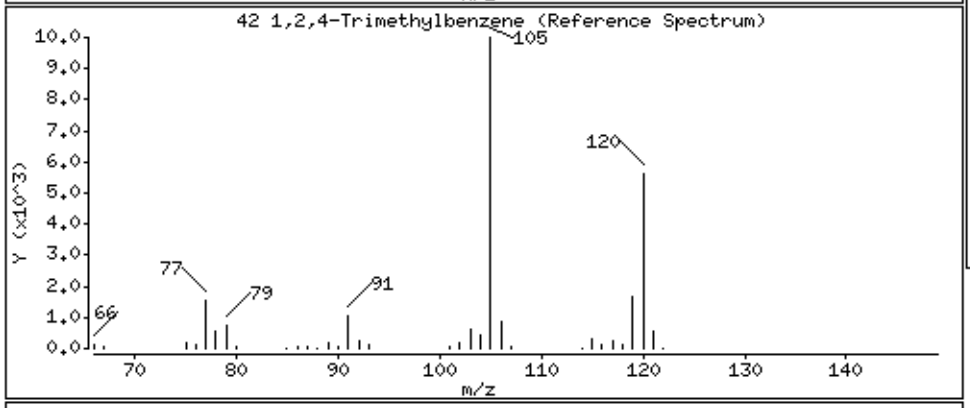
Concentration: 4.65958 ug

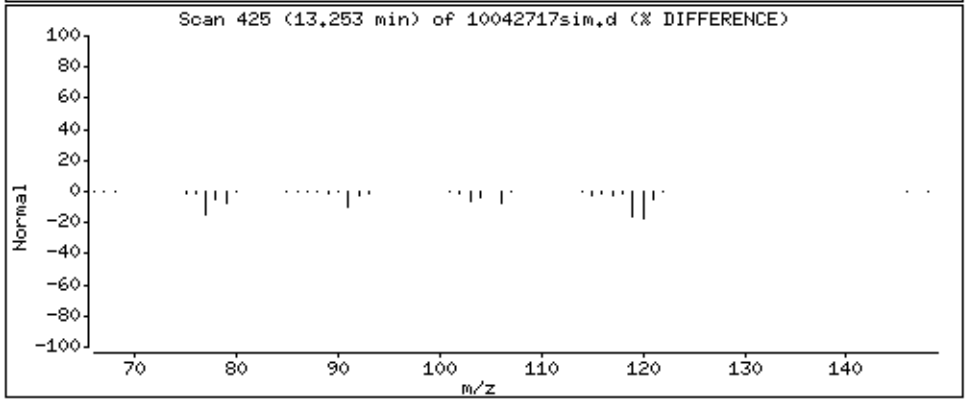












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

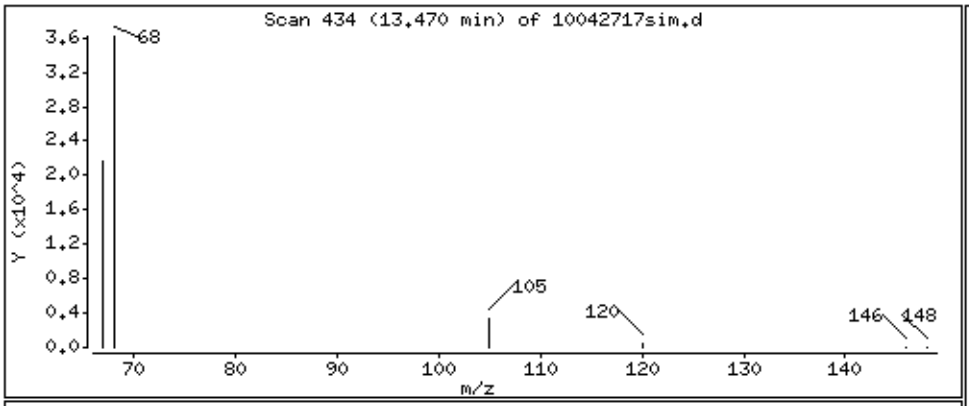
Operator: gm

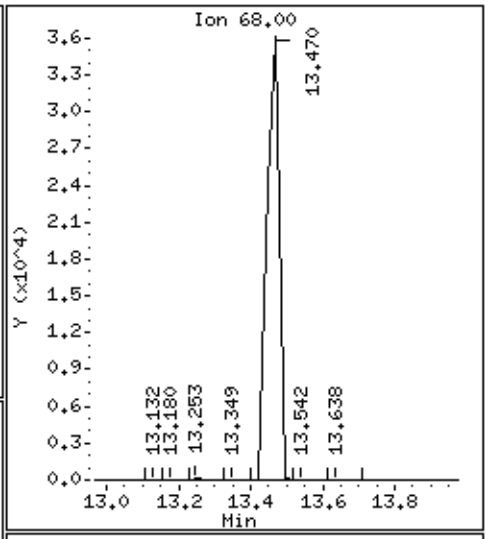
Column phase: DB-5.625

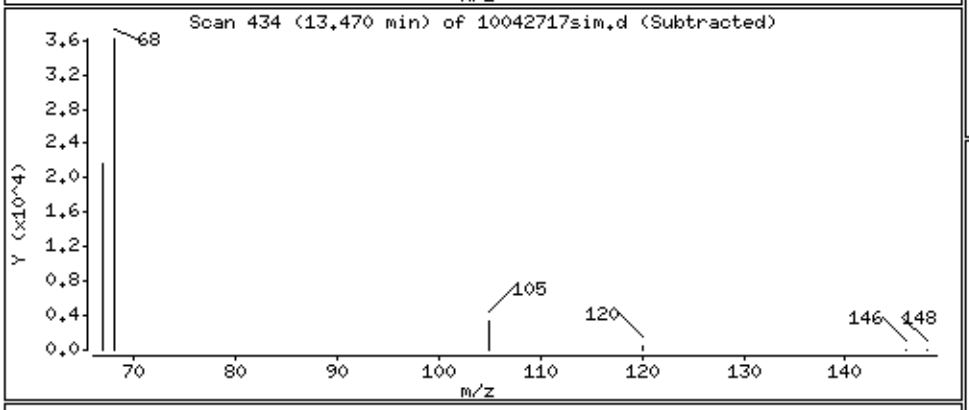
Column diameter: 0.25

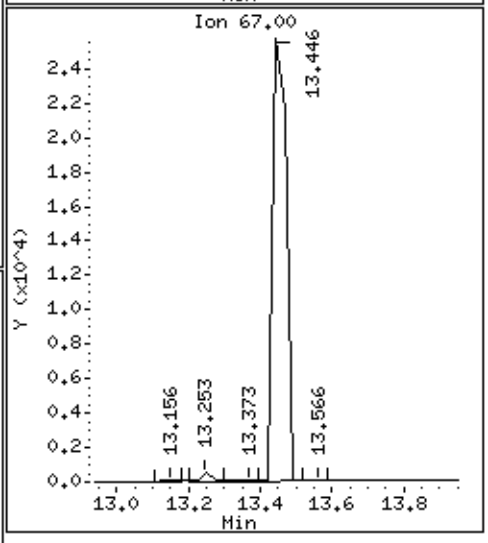
43 R-(+)-Limonene

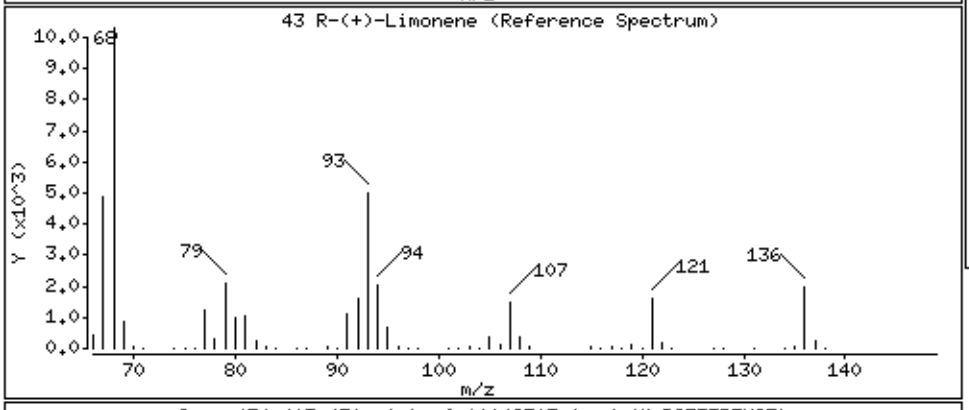
Concentration: 4.53449 ug

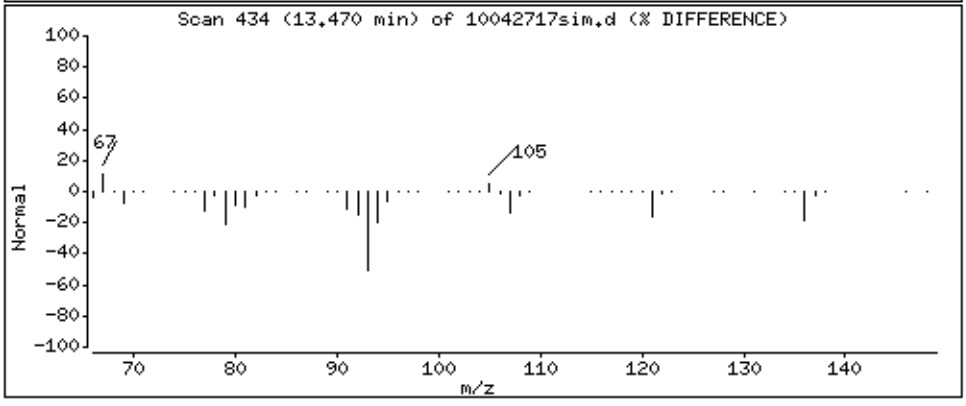












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

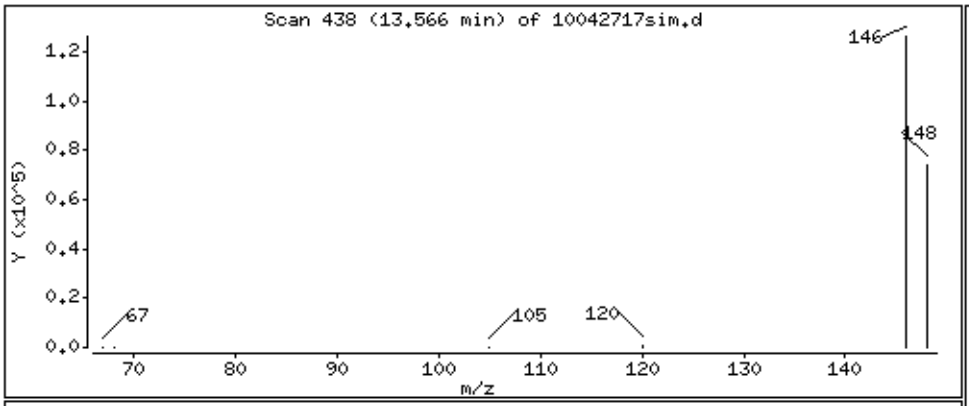
Operator: gm

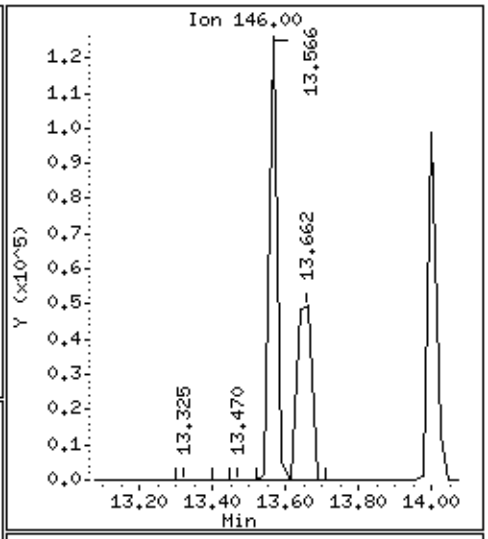
Column phase: DB-5.625

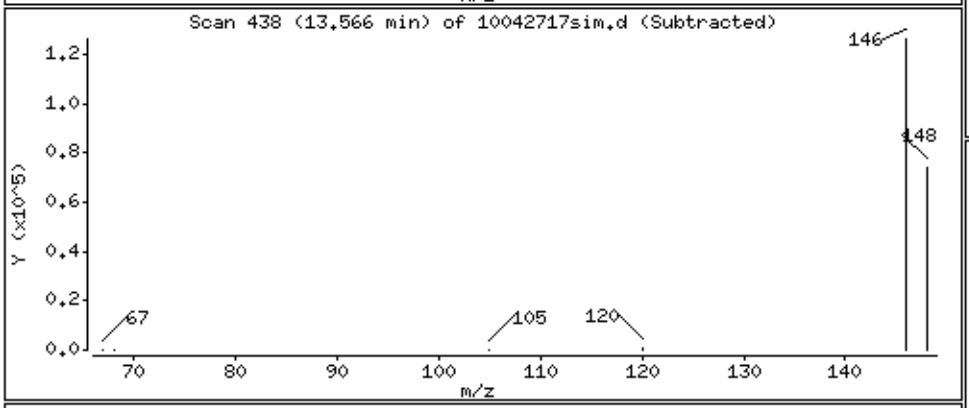
Column diameter: 0.25

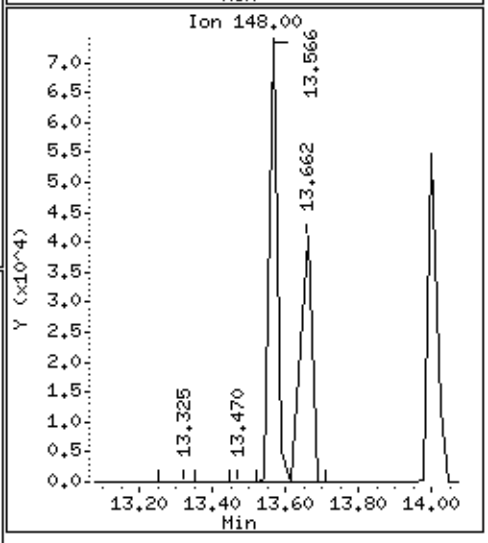
44 1,3-Dichlorobenzene

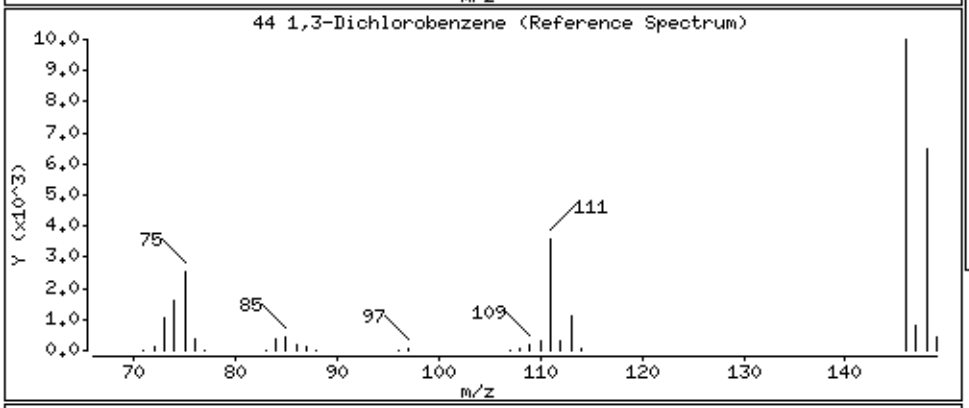
Concentration: 4.54649 ug

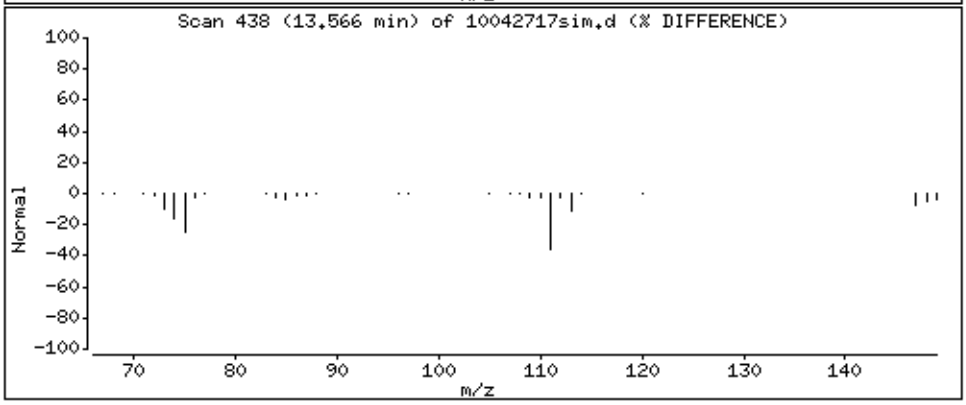












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

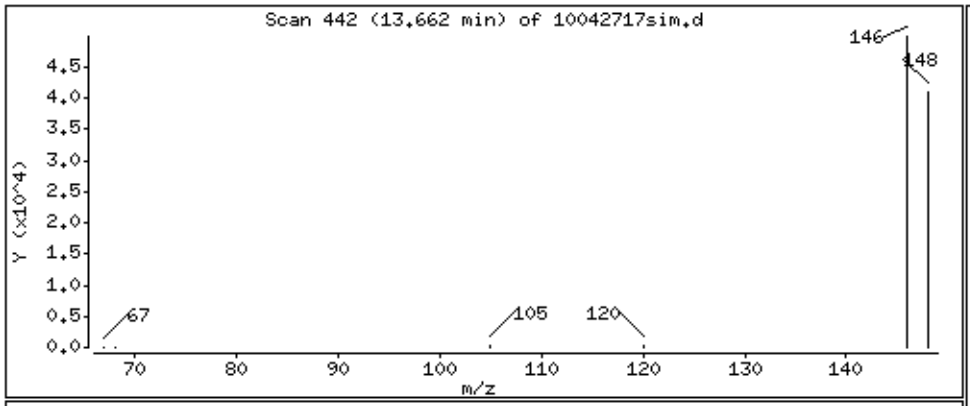
Operator: gm

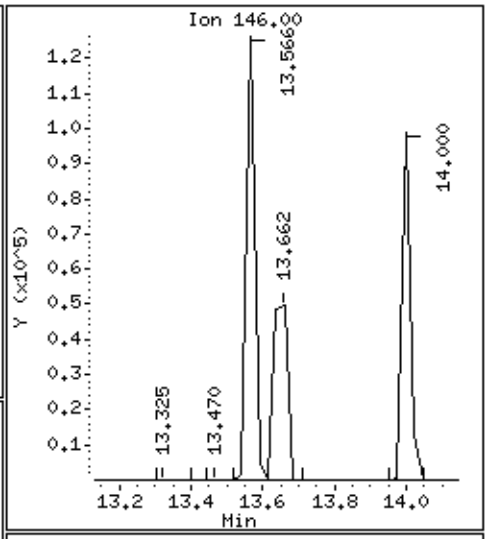
Column phase: DB-5.625

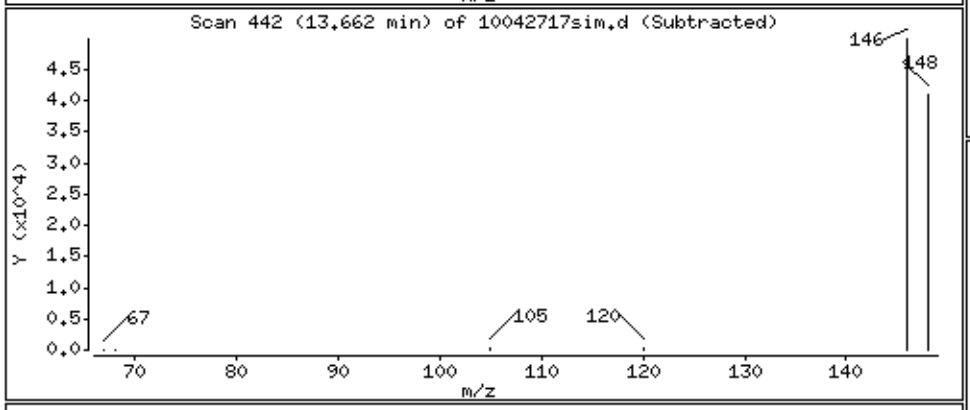
Column diameter: 0.25

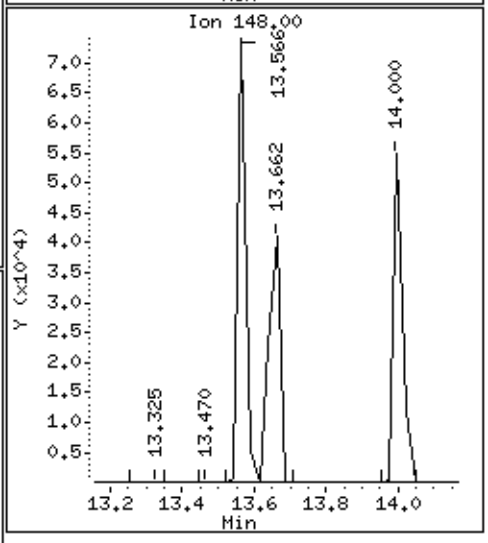
45 1,4-Dichlorobenzene

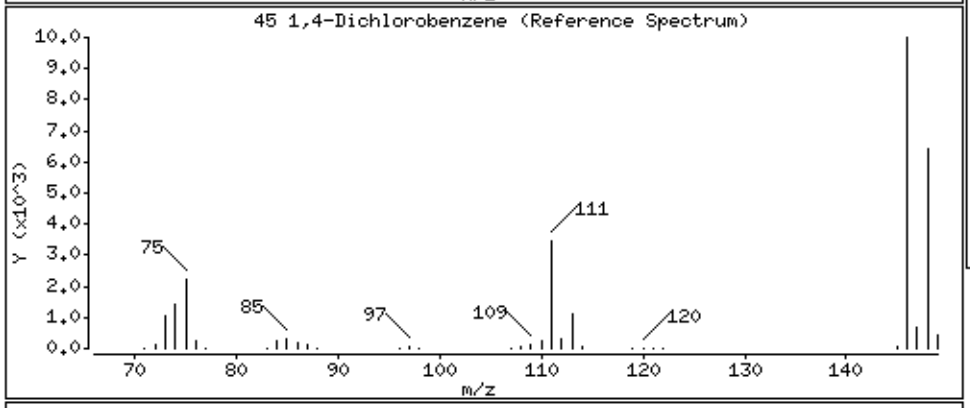
Concentration: 4.40788 ug

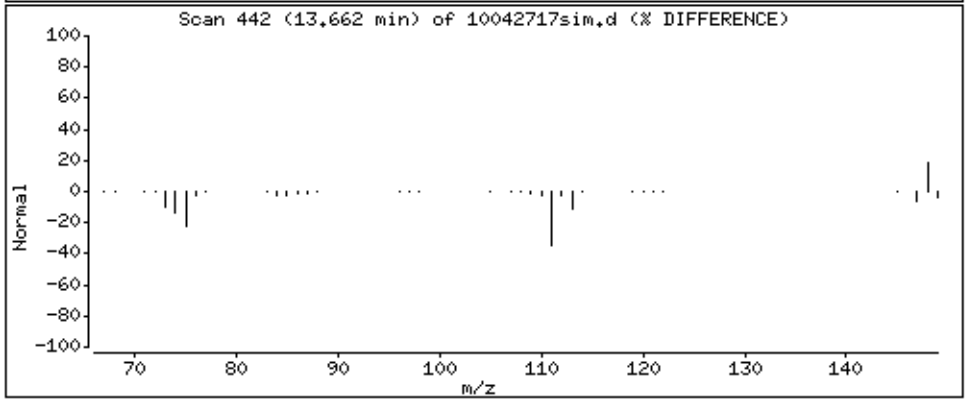












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

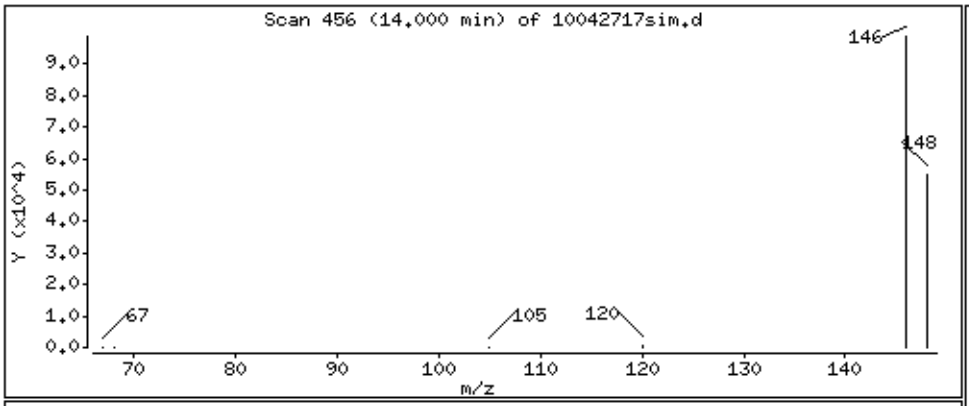
Operator: gm

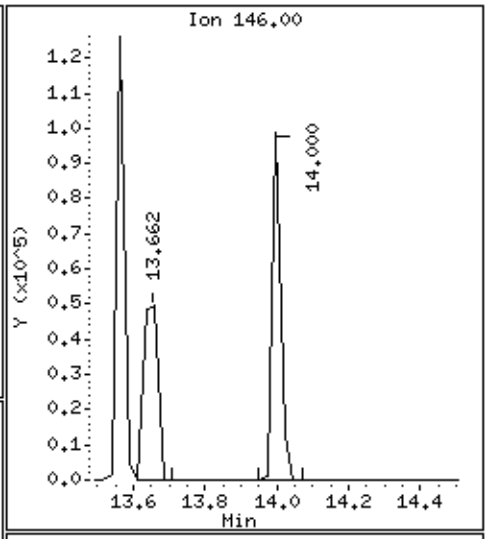
Column phase: DB-5.625

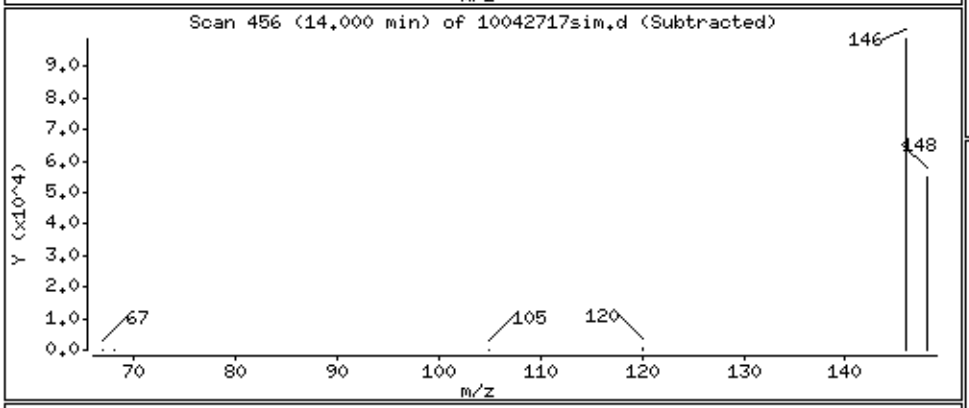
Column diameter: 0.25

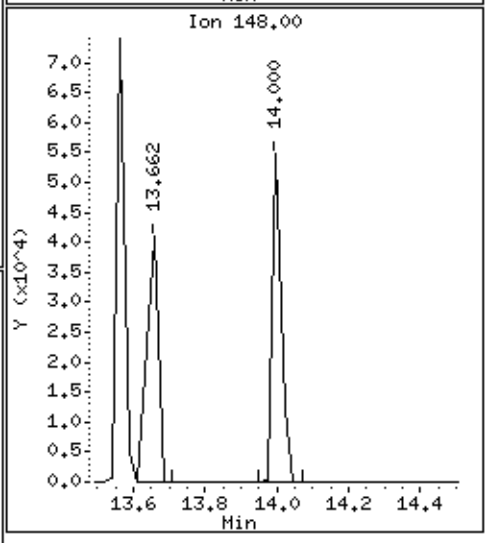
46 1,2-Dichlorobenzene

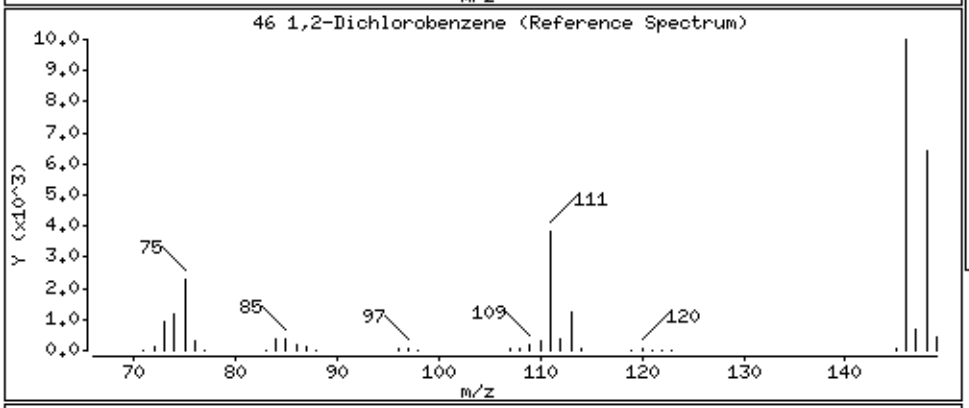
Concentration: 4.43048 ug

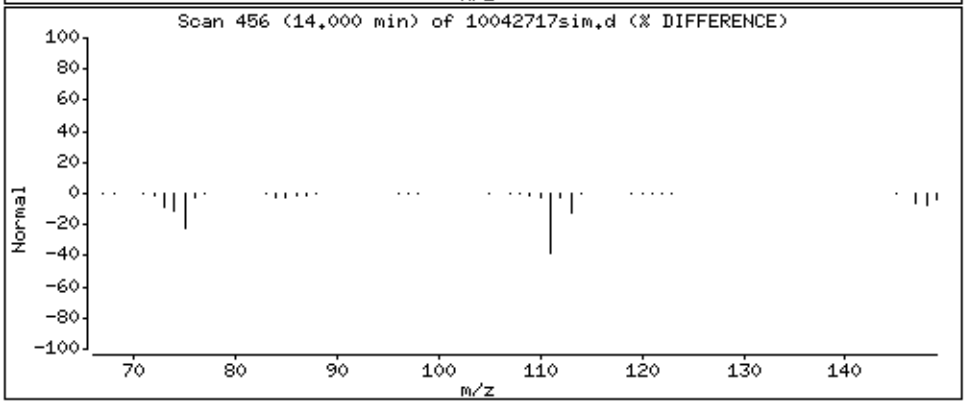












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

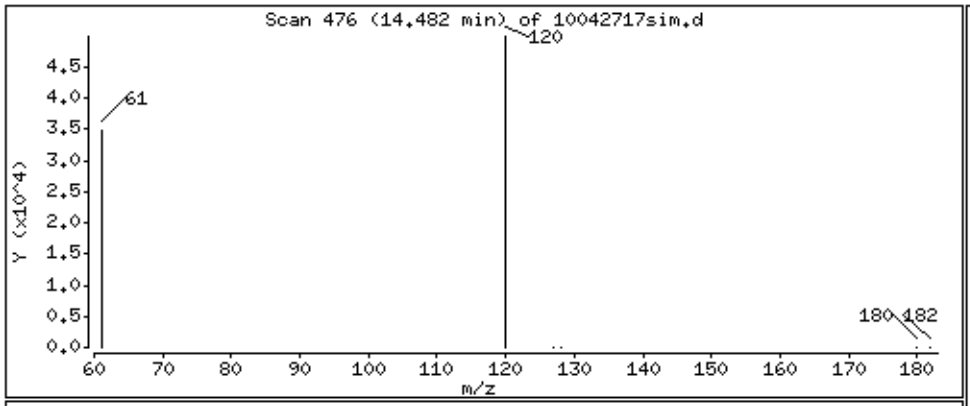
Operator: gm

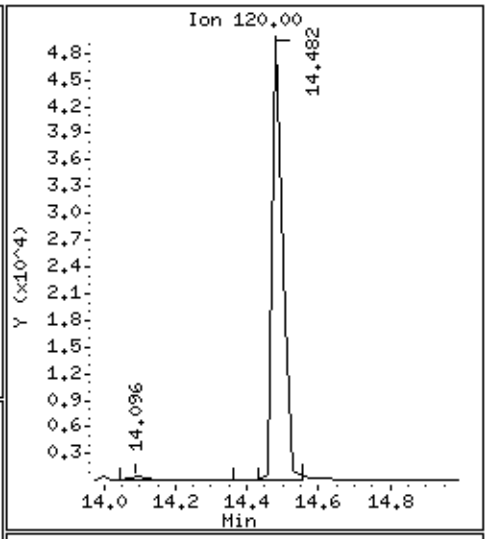
Column phase: DB-5.625

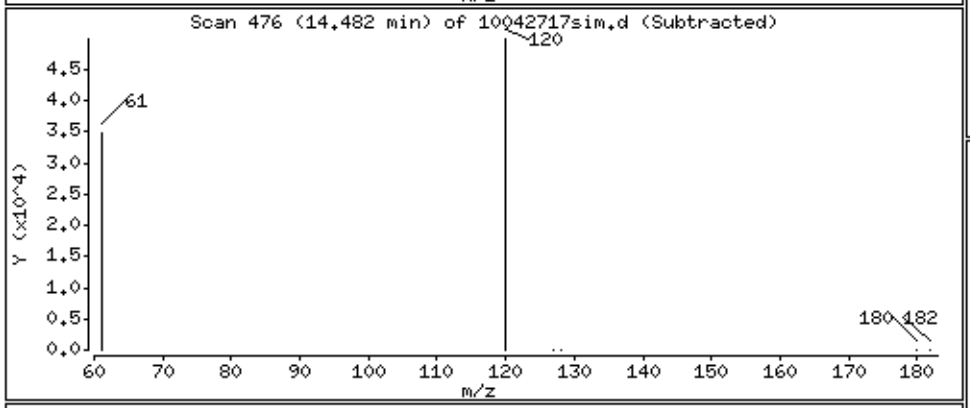
Column diameter: 0.25

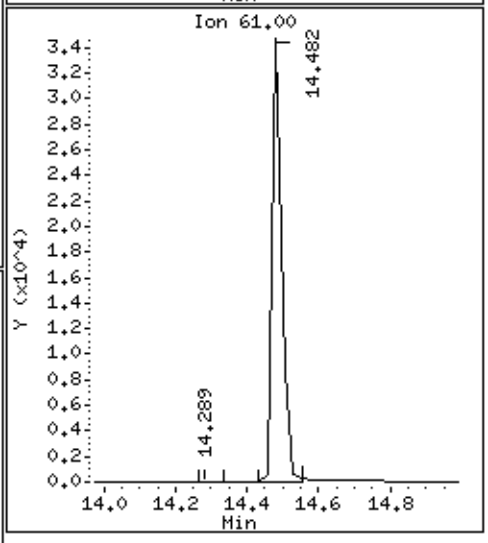
47 1,4-Dithiane

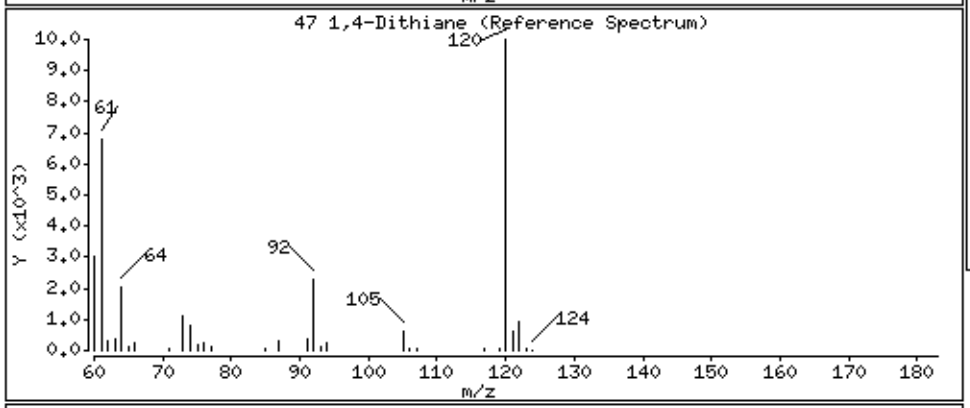
Concentration: 4.44807 ug

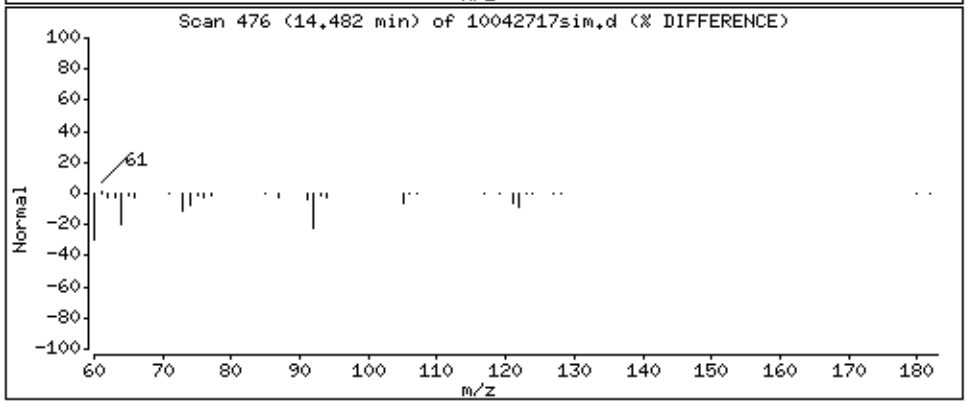












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

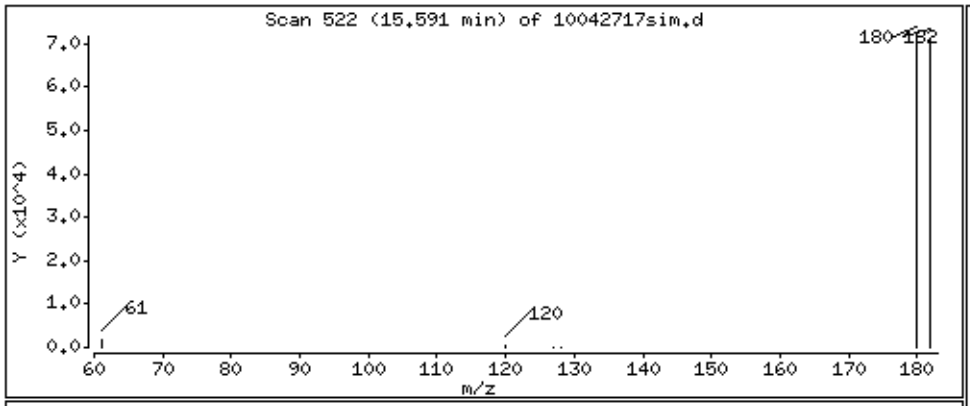
Operator: gm

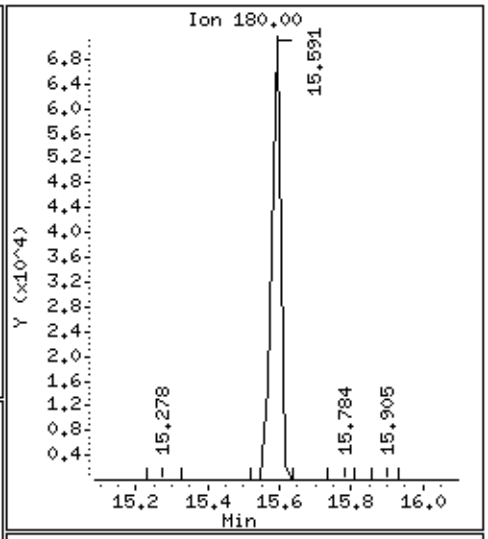
Column phase: DB-5.625

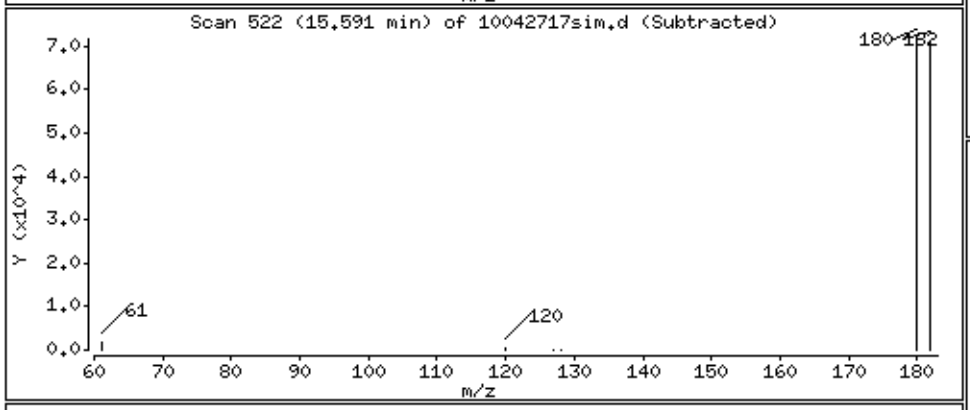
Column diameter: 0.25

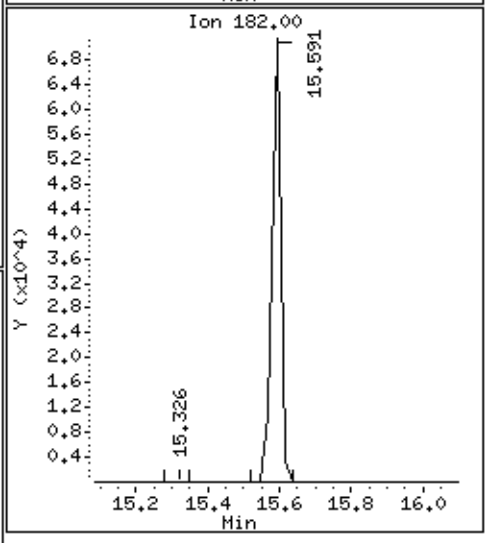
48 1,2,4-Trichlorobenzene

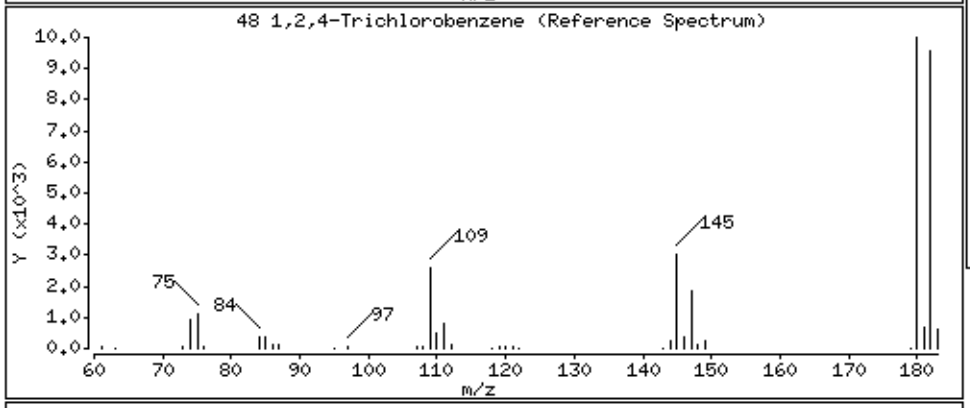
Concentration: 4.31674 ug

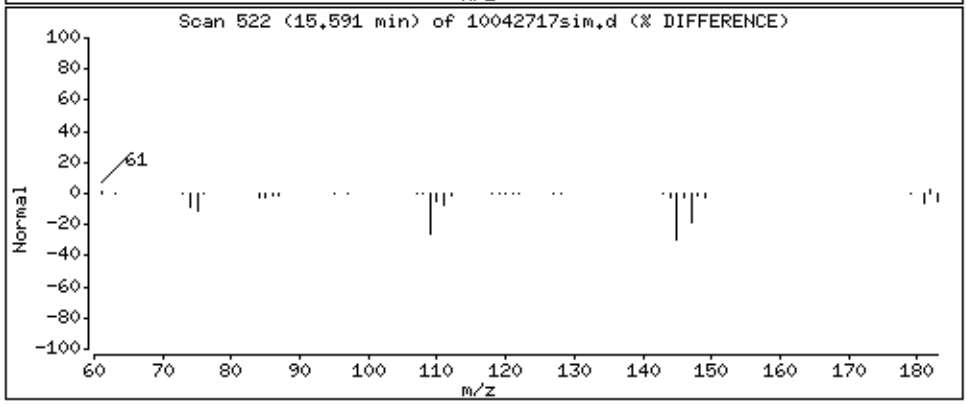












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

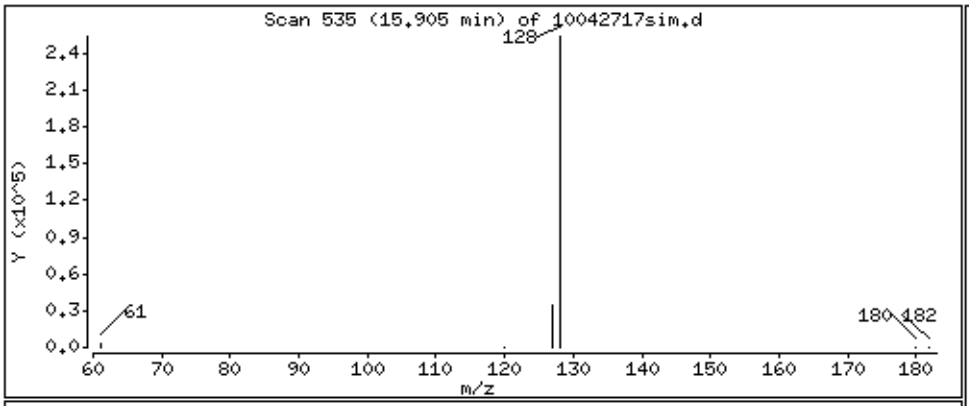
Operator: gm

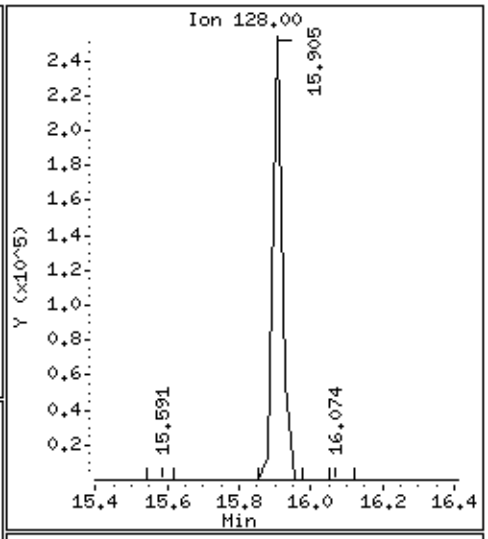
Column phase: DB-5.625

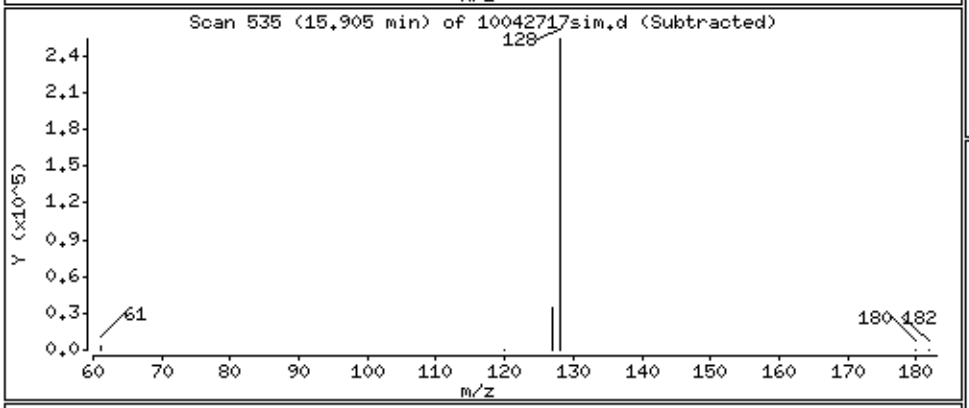
Column diameter: 0.25

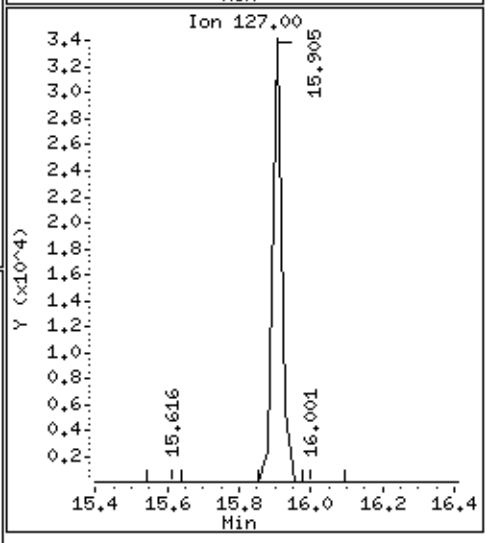
49 Naphthalene

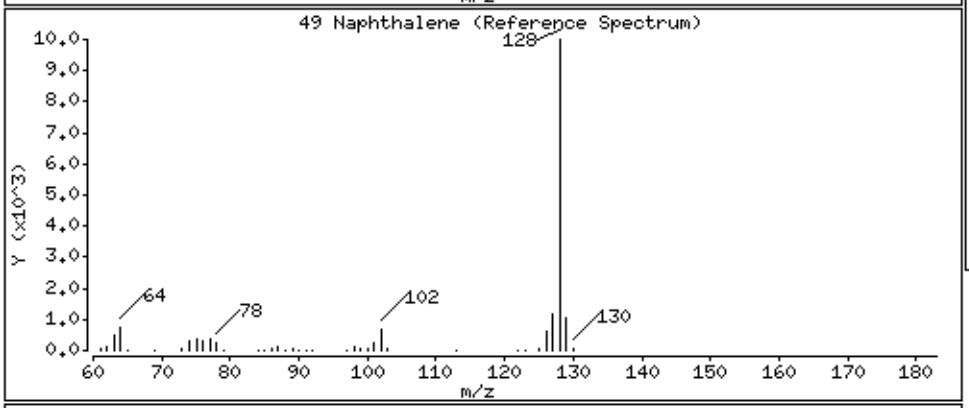
Concentration: 4.49882 ug

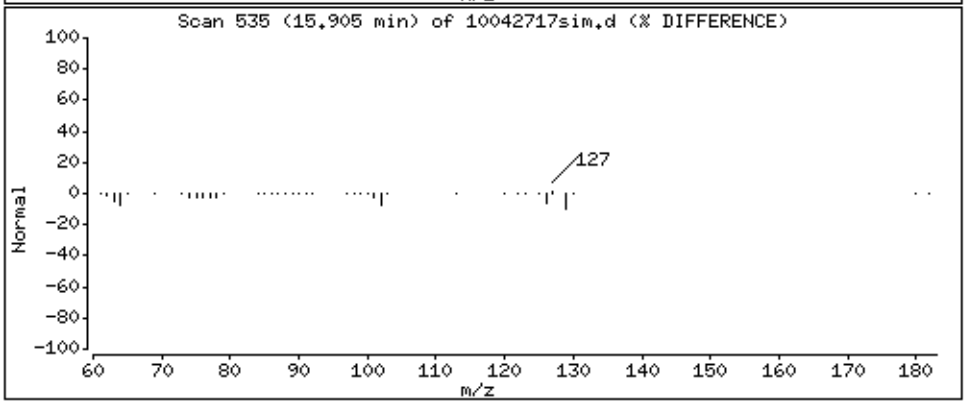












Data File: /chem/msd10.i/27Apr2015.b/10042717sim.d

Date : 27-APR-2015 14:15

Client ID: ICV

Instrument: msd10.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

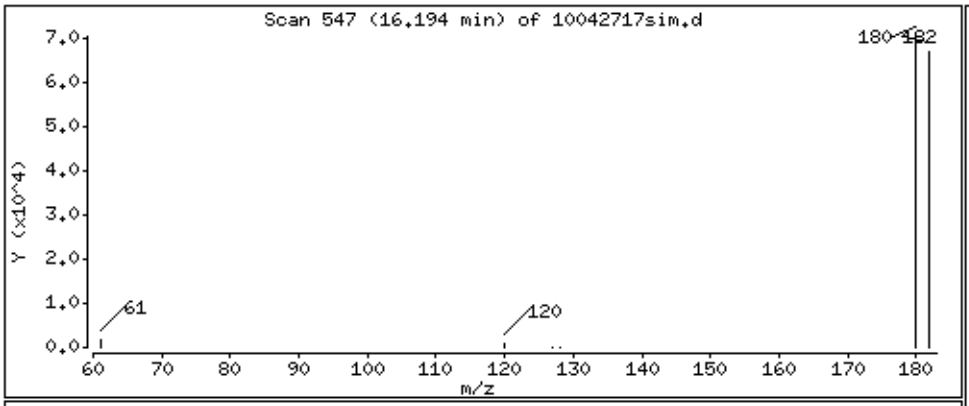
Operator: gm

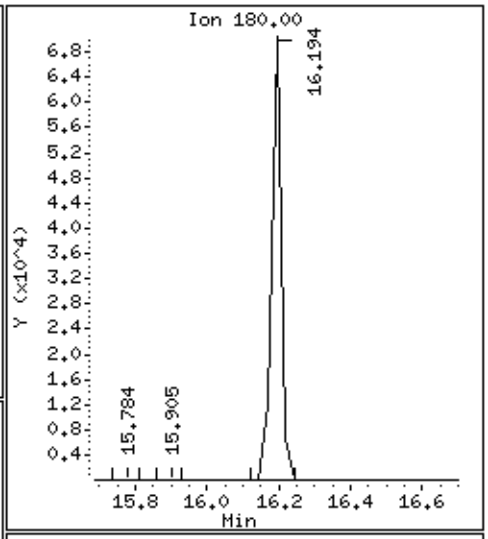
Column phase: DB-5.625

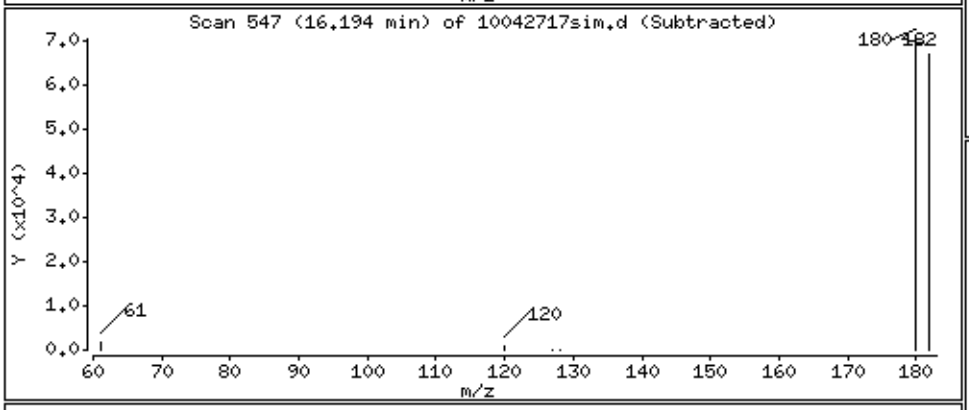
Column diameter: 0.25

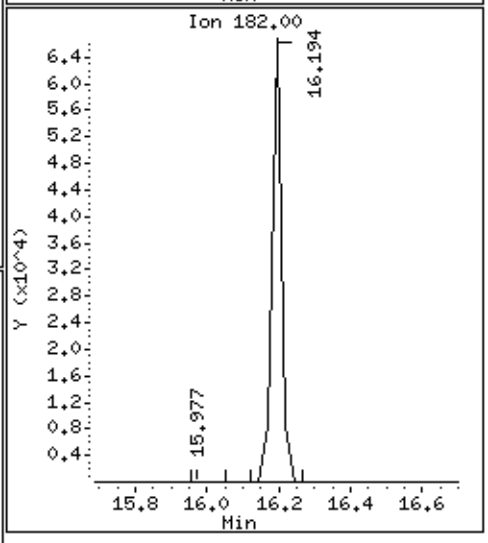
50 1,2,3-Trichlorobenzene

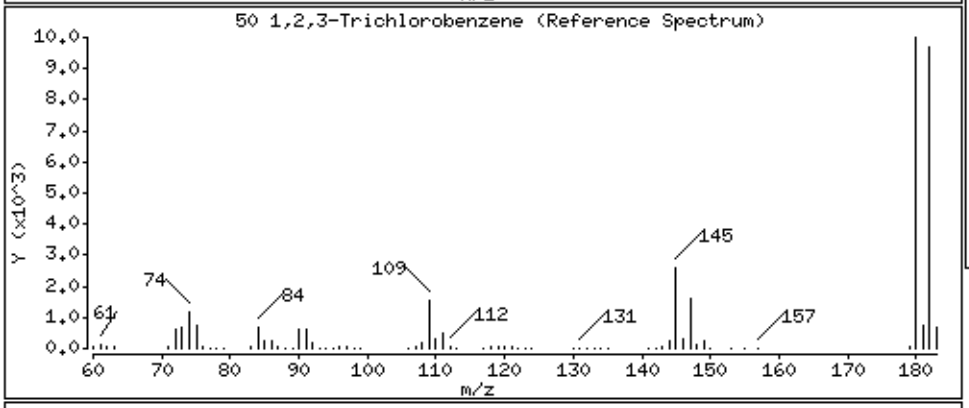
Concentration: 4.41412 ug

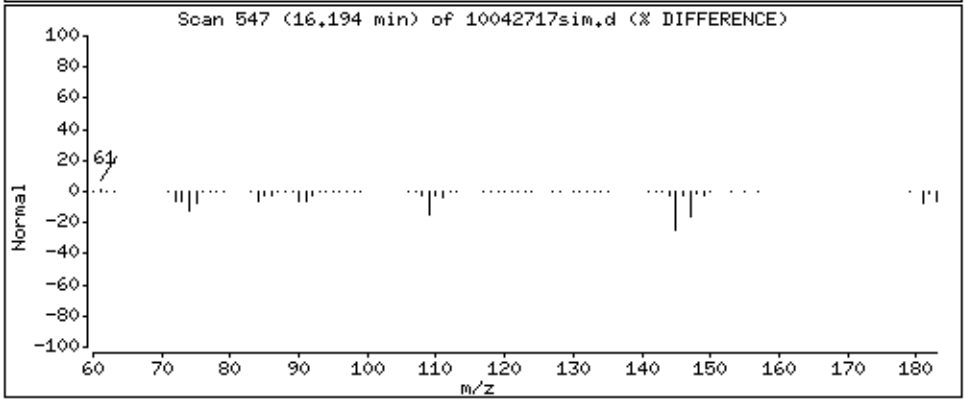












Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msd10.i/27Apr2015.b/10042703sim.d
Lab Smp Id: 2595-224-0.05>0.025 Client Smp ID: Level 1
Inj Date : 27-APR-2015 08:40
Operator : gm Inst ID: msd10.i
Smp Info : ;2595-224-0.05>0.025;Level 1
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Meth Date : 27-Apr-2015 10:03 gmash Quant Type: ISTD
Cal Date : 27-APR-2015 08:40 Cal File: 10042703sim.d
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mpxylene.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
* 29 2-Fluorotoluene	109	10.153	10.153	(1.000)	171218	5.00000	
$ 26 Toluene-d8	98	9.839	9.839	(0.969)	154344	5.00000	5.01322(A)
34 m,p-Xylene	106	11.613	11.639	(1.144)	988	0.05000	0.0481389

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd10.i
Lab File ID: 10042703sim.d
Lab Smp Id: 2595-224-0.05>0.025
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

Calibration Date: 27-APR-2015
Calibration Time: 08:40
Client Smp ID: Level 1
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	171218	85609	342436	171218	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msd10.i/27Apr2015.b/10042703sim.d

Date : 27-APR-2015 08:40

Client ID: Level 1

Instrument: msd10.i

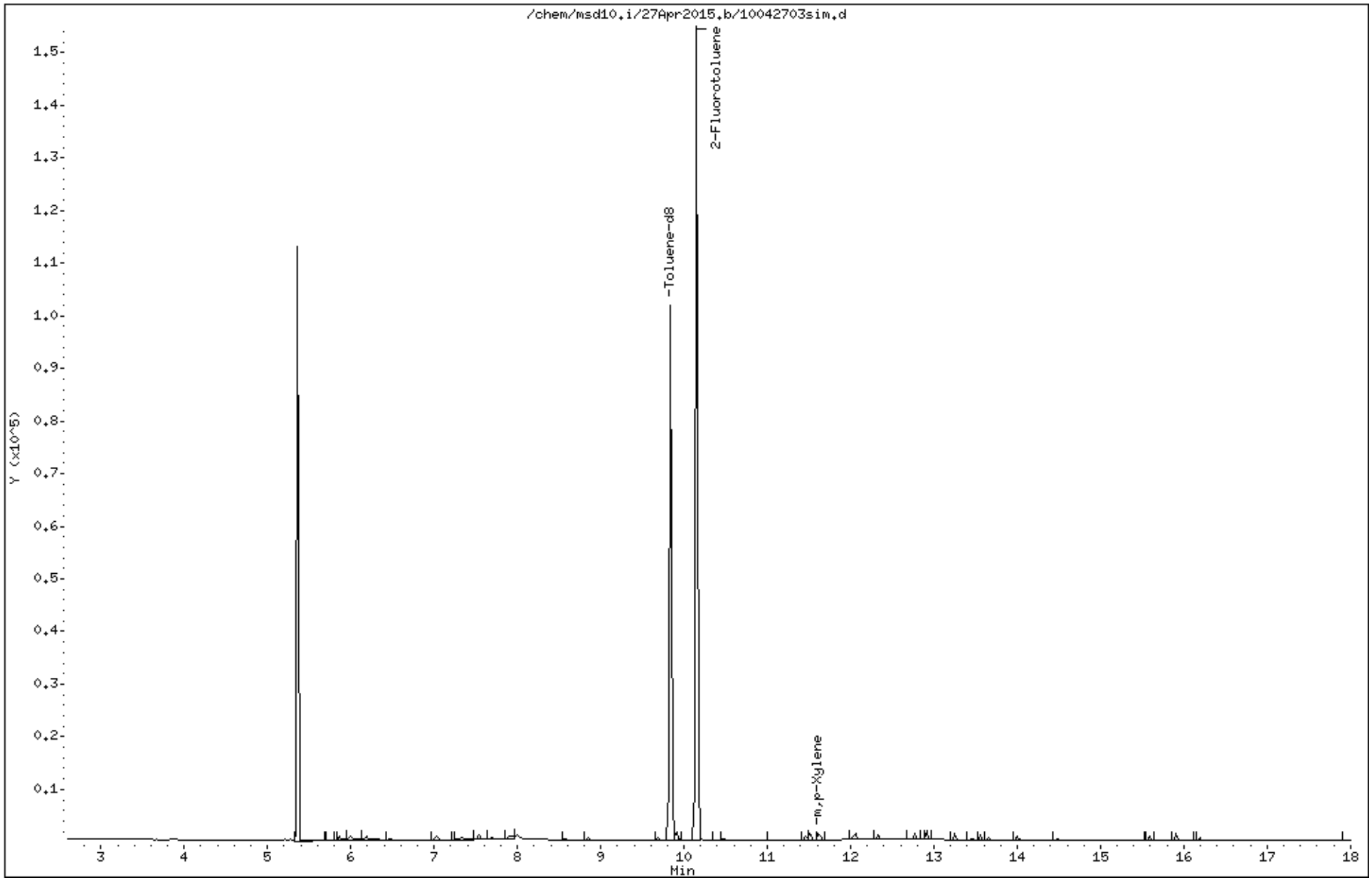
Sample Info: ;2595-224-0.05>0.025;Level 1

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msd10.i/27Apr2015.b/10042704sim.d
Lab Smp Id: 2595-224-0.05 Client Smp ID: Level 2
Inj Date : 27-APR-2015 09:04
Operator : gm Inst ID: msd10.i
Smp Info : ;2595-224-0.05;Level 2
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Meth Date : 27-Apr-2015 10:24 gmash Quant Type: ISTD
Cal Date : 27-APR-2015 09:04 Cal File: 10042704sim.d
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0.05.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
7	MTBE	73	6.024	6.079	(0.593)	1374	0.05000	0.0548296
9	Hexane	57	6.216	6.271	(0.612)	1344	0.05000	0.0546634
10	Halothane	117	6.378	6.401	(0.628)	257	0.05000	0.0593021
11	1,1-Dichloroethane-SPCC	63	6.474	6.522	(0.638)	793	0.05000	0.0524024(M)
14	cis-1,2-Dichloroethene	96	7.058	7.080	(0.695)	443	0.05000	0.0540528(M)
13	2-Butanone	72	7.036	7.080	(0.693)	295	0.05000	0.0541262
15	Chloroform-CCC	83	7.352	7.383	(0.724)	710	0.05000	0.0527846(M)
16	Cyclohexane	84	7.537	7.568	(0.742)	1052	0.05000	0.0541962
17	1,1,1-Trichloroethane	97	7.537	7.568	(0.742)	923	0.05000	0.0544148
18	Carbon Tetrachloride	117	7.691	7.722	(0.758)	847	0.05000	0.0607740
20	1,2-Dichloroethane	62	8.000	8.030	(0.788)	1005	0.05000	0.0619315
21	Heptane	71	8.030	8.030	(0.791)	625	0.05000	0.0566314
22	Trichloroethene	130	8.562	8.586	(0.843)	708	0.05000	0.0571276
24	Methyl Methacrylate	69	8.851	8.851	(0.872)	629	0.05000	0.0544205
$ 26	Toluene-d8	98	9.839	9.839	(0.969)	188045	5.00000	4.99827
28	Toluene-CCC	92	9.912	9.912	(0.976)	1974	0.05000	0.0551046

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	29 2-Fluorotoluene	109	10.153	10.153	(1.000)	209382	5.00000	
	30 1,1,2-Trichloroethane	97	10.370	10.394	(1.021)	646	0.05000	0.0557925
	31 Tetrachloroethene	164	10.466	10.490	(1.031)	618	0.05000	0.0554020
	32 Chlorobenzene	112	11.459	11.459	(1.129)	2385	0.05000	0.0542626
	33 Ethylbenzene-CCC	106	11.510	11.510	(1.134)	1211	0.05000	0.0527437
	209 1,1,1,2-Tetrachloroethane	131	11.536	11.536	(1.136)	777	0.05000	0.0515080(a)
	34 m,p-Xylene	106	11.613	11.639	(1.144)	2562	0.10000	0.108242
	36 o-Xylene	106	12.062	12.061	(1.188)	1205	0.05000	0.0532949
	37 Styrene	104	12.062	12.089	(1.188)	2273	0.05000	0.0577458(a)
	38 a-Pinene	93	12.336	12.336	(1.215)	1683	0.05000	0.0534692
	39 1,1,2,2-Tetrachloroethane-SPC	83	12.693	12.720	(1.250)	1037	0.05000	0.0563954
	40 Propylbenzene	91	12.748	12.775	(1.256)	3243	0.05000	0.0555174
	210 1,2,3-Trichloropropane	110	12.775	12.803	(1.258)	394	0.05000	0.0507177(aM)
	41 1,3,5-Trimethylbenzene	105	12.913	12.913	(1.272)	4131	0.05000	0.0542778
	42 1,2,4-Trimethylbenzene	105	13.253	13.253	(1.305)	3463	0.05000	0.0543540
	43 R-(+)-Limonene	68	13.470	13.470	(1.327)	892	0.05000	(a)
	44 1,3-Dichlorobenzene	146	13.566	13.566	(1.336)	2264	0.05000	0.0536807
	45 1,4-Dichlorobenzene	146	13.639	13.662	(1.343)	1685	0.05000	0.0542339
	46 1,2-Dichlorobenzene	146	14.000	14.024	(1.379)	1978	0.05000	0.0539222
	47 1,4-Dithiane	120	14.482	14.506	(1.426)	1114	0.05000	0.0539723
	48 1,2,4-Trichlorobenzene	180	15.592	15.591	(1.536)	1538	0.05000	0.0529599
	49 Naphthalene	128	15.905	15.929	(1.567)	5214	0.05000	0.0527768
	50 1,2,3-Trichlorobenzene	180	16.195	16.194	(1.595)	1465	0.05000	0.0518382

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd10.i
Lab File ID: 10042704sim.d
Lab Smp Id: 2595-224-0.05
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

Calibration Date: 27-APR-2015
Calibration Time: 09:04
Client Smp ID: Level 2
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	209382	104691	418764	209382	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msd10.i/27Apr2015.b/10042704sim.d

Date : 27-APR-2015 09:04

Client ID: Level 2

Instrument: msd10.i

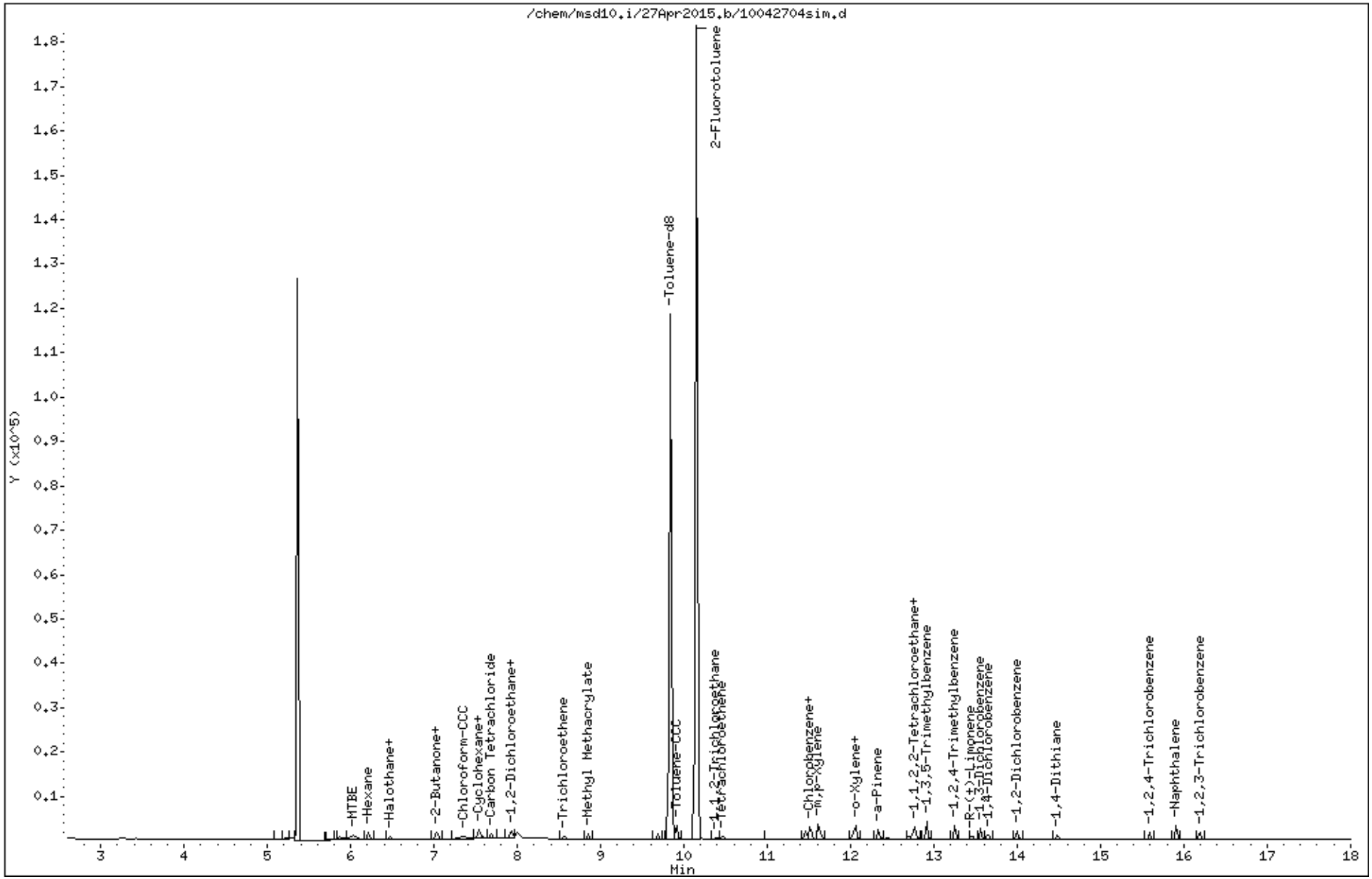
Sample Info: ;2595-224-0.05;Level 2

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msd10.i/27Apr2015.b/10042705sim.d
Lab Smp Id: 2595-224-0.10 Client Smp ID: Level 3
Inj Date : 27-APR-2015 09:27
Operator : gm Inst ID: msd10.i
Smp Info : ;2595-224-0.10;Level 3
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Meth Date : 27-Apr-2015 10:24 gmash Quant Type: ISTD
Cal Date : 27-APR-2015 09:27 Cal File: 10042705sim.d
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0.1.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
1	Chloromethane	50	3.227	3.251	(0.318)	148	0.10000	0.105718
2	Vinyl Chloride	62	3.420	3.444	(0.337)	343	0.10000	0.120311
3	Ethanol	45	4.696	4.696	(0.463)	171	0.10000	0.100926
4	1,1-Dichloroethene-CCC	96	5.116	5.116	(0.504)	420	0.10000	0.121021
5	Acetone	58	5.229	5.229	(0.515)	297	0.10000	0.116068(M)
6	2-Propanol	45	5.273	5.296	(0.519)	864	0.10000	0.113117
7	MTBE	73	5.996	6.079	(0.591)	2194	0.10000	0.111068
8	trans-1,2-Dichloroethene	96	6.024	6.133	(0.593)	619	0.10000	0.116636(H)
9	Hexane	57	6.188	6.271	(0.610)	2061	0.10000	0.106341
10	Halothane	117	6.377	6.401	(0.628)	358	0.10000	0.104796
11	1,1-Dichloroethane-SPCC	63	6.474	6.522	(0.638)	1359	0.10000	0.113926(H)
12	Ethyl Acetate	70	7.013	7.058	(0.691)	188	0.10000	0.0953125(aM)
13	2-Butanone	72	7.036	7.080	(0.693)	466	0.10000	0.108466
14	cis-1,2-Dichloroethene	96	7.036	7.080	(0.693)	732	0.10000	0.113305
15	Chloroform-CCC	83	7.321	7.383	(0.721)	1139	0.10000	0.107423
16	Cyclohexane	84	7.537	7.568	(0.742)	1674	0.10000	0.109404

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
17	1,1,1-Trichloroethane	97	7.537	7.568	(0.742)	1451	0.10000	0.108519
18	Carbon Tetrachloride	117	7.691	7.722	(0.758)	1129	0.10000	0.102766
19	Benzene	78	7.938	7.938	(0.782)	3287	0.10000	0.136529
20	1,2-Dichloroethane	62	7.999	8.030	(0.788)	1314	0.10000	0.102722
21	Heptane	71	7.999	8.030	(0.788)	937	0.10000	0.107706
22	Trichloroethene	130	8.562	8.586	(0.843)	1036	0.10000	0.106046
24	Methyl Methacrylate	69	8.851	8.851	(0.872)	975	0.10000	0.107014
25	4-Methyl-2-pentanone	85	9.695	9.695	(0.955)	422	0.10000	0.111930
$ 26	Toluene-d8	98	9.839	9.839	(0.969)	148160	5.00000	4.99589
28	Toluene-CCC	92	9.912	9.912	(0.976)	3024	0.10000	0.107089
* 29	2-Fluorotoluene	109	10.153	10.153	(1.000)	165050	5.00000	
30	1,1,2-Trichloroethane	97	10.394	10.394	(1.024)	965	0.10000	0.105729
31	Tetrachloroethene	164	10.466	10.490	(1.031)	931	0.10000	0.105879
32	Chlorobenzene	112	11.459	11.459	(1.129)	3733	0.10000	0.107744
33	Ethylbenzene-CCC	106	11.510	11.510	(1.134)	1989	0.10000	0.109897
209	1,1,1,2-Tetrachloroethane	131	11.536	11.536	(1.136)	1217	0.10000	0.102345
34	m,p-Xylene	106	11.613	11.639	(1.144)	4022	0.20000	0.215566
36	o-Xylene	106	12.061	12.061	(1.188)	1912	0.10000	0.107278
37	Styrene	104	12.061	12.089	(1.188)	3236	0.10000	0.104293
38	a-Pinene	93	12.336	12.336	(1.215)	2671	0.10000	0.107651
39	1,1,2,2-Tetrachloroethane-SPC	83	12.693	12.720	(1.250)	1556	0.10000	0.107349
40	Propylbenzene	91	12.775	12.775	(1.258)	4930	0.10000	0.107066
210	1,2,3-Trichloropropane	110	12.775	12.803	(1.258)	728	0.10000	0.118883
41	1,3,5-Trimethylbenzene	105	12.913	12.913	(1.272)	6481	0.10000	0.108027
42	1,2,4-Trimethylbenzene	105	13.253	13.253	(1.305)	5412	0.10000	0.107761
43	R-(+)-Limonene	68	13.470	13.470	(1.327)	1424	0.10000	(a)
44	1,3-Dichlorobenzene	146	13.566	13.566	(1.336)	3588	0.10000	0.107924
45	1,4-Dichlorobenzene	146	13.662	13.662	(1.346)	2636	0.10000	0.107632
46	1,2-Dichlorobenzene	146	14.000	14.024	(1.379)	3135	0.10000	0.108418
47	1,4-Dithiane	120	14.482	14.506	(1.426)	1769	0.10000	0.108727
48	1,2,4-Trichlorobenzene	180	15.591	15.591	(1.536)	2544	0.10000	0.111130
49	Naphthalene	128	15.905	15.929	(1.567)	8632	0.10000	0.110843
50	1,2,3-Trichlorobenzene	180	16.194	16.194	(1.595)	2471	0.10000	0.110920

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd10.i
Lab File ID: 10042705sim.d
Lab Smp Id: 2595-224-0.10
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

Calibration Date: 27-APR-2015
Calibration Time: 09:27
Client Smp ID: Level 3
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	165050	82525	330100	165050	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msd10.i/27Apr2015.b/10042705sim.d

Date : 27-APR-2015 09:27

Client ID: Level 3

Instrument: msd10.i

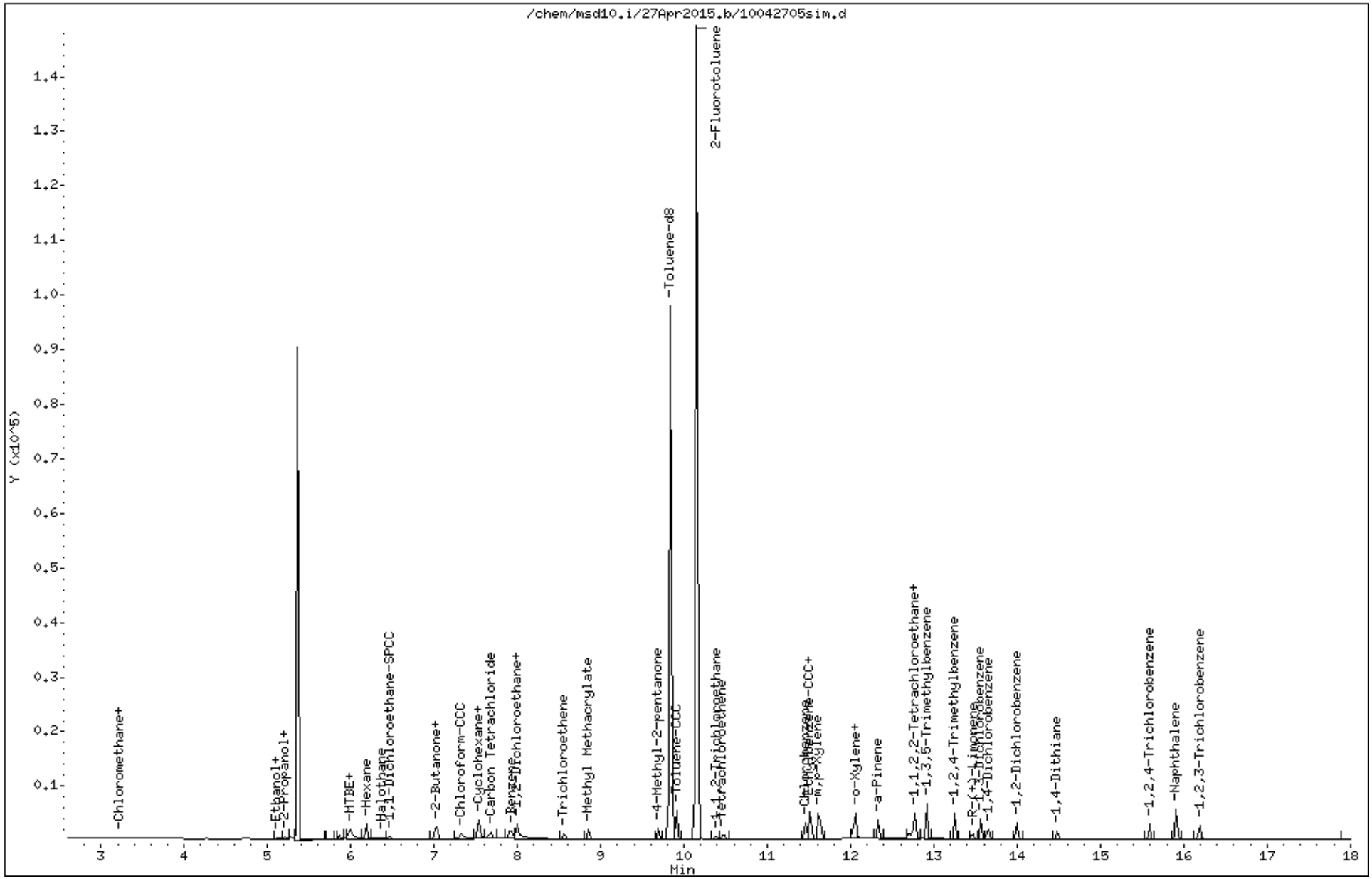
Sample Info: ;2595-224-0.10;Level 3

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msd10.i/27Apr2015.b/10042706sim.d
Lab Smp Id: 2595-224-0.20 Client Smp ID: Level 4
Inj Date : 27-APR-2015 09:51
Operator : gm Inst ID: msd10.i
Smp Info : ;2595-224-0.20;Level 4
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Meth Date : 27-Apr-2015 10:24 gmash Quant Type: ISTD
Cal Date : 27-APR-2015 09:51 Cal File: 10042706sim.d
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0.2.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
1	Chloromethane	50	3.227	3.251	(0.318)	287	0.20000	0.188563
2	Vinyl Chloride	62	3.420	3.444	(0.337)	494	0.20000	0.159377
3	Ethanol	45	4.696	4.696	(0.463)	365	0.20000	0.198147
4	1,1-Dichloroethene-CCC	96	5.117	5.116	(0.504)	596	0.20000	0.157958
5	Acetone	58	5.229	5.229	(0.515)	467	0.20000	0.167864(M)
6	2-Propanol	45	5.273	5.296	(0.519)	1443	0.20000	0.173766
7	MTBE	73	5.996	6.079	(0.591)	3405	0.20000	0.158546
8	trans-1,2-Dichloroethene	96	6.024	6.133	(0.593)	962	0.20000	0.166727(H)
9	Hexane	57	6.188	6.271	(0.610)	3554	0.20000	0.168665
10	Halothane	117	6.377	6.401	(0.628)	569	0.20000	0.153200
11	1,1-Dichloroethane-SPCC	63	6.450	6.522	(0.635)	2108	0.20000	0.162539
12	Ethyl Acetate	70	7.013	7.058	(0.691)	449	0.20000	0.209375
13	2-Butanone	72	7.036	7.080	(0.693)	778	0.20000	0.166562
14	cis-1,2-Dichloroethene	96	7.036	7.080	(0.693)	1104	0.20000	0.157179
15	Chloroform-CCC	83	7.321	7.383	(0.721)	2006	0.20000	0.174016
16	Cyclohexane	84	7.537	7.568	(0.742)	2735	0.20000	0.164407

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
17	1,1,1-Trichloroethane	97	7.537	7.568	(0.742)	2403	0.20000	0.165302
18	Carbon Tetrachloride	117	7.691	7.722	(0.758)	1808	0.20000	0.151371
19	Benzene	78	7.938	7.938	(0.782)	5235	0.20000	0.200000
20	1,2-Dichloroethane	62	7.999	8.030	(0.788)	2042	0.20000	0.146829
21	Heptane	71	7.999	8.030	(0.788)	1495	0.20000	0.158062
22	Trichloroethene	130	8.562	8.586	(0.843)	1693	0.20000	0.159397
24	Methyl Methacrylate	69	8.851	8.851	(0.872)	1667	0.20000	0.168290
25	4-Methyl-2-pentanone	85	9.695	9.695	(0.955)	722	0.20000	0.176140
$ 26	Toluene-d8	98	9.839	9.839	(0.969)	160856	5.00000	4.98891
28	Toluene-CCC	92	9.912	9.912	(0.976)	5078	0.20000	0.165403
* 29	2-Fluorotoluene	109	10.153	10.153	(1.000)	179444	5.00000	
30	1,1,2-Trichloroethane	97	10.394	10.394	(1.024)	1641	0.20000	0.165372
31	Tetrachloroethene	164	10.466	10.490	(1.031)	1593	0.20000	0.166634
32	Chlorobenzene	112	11.459	11.459	(1.129)	6308	0.20000	0.167461
33	Ethylbenzene-CCC	106	11.510	11.510	(1.134)	3330	0.20000	0.169231
209	1,1,1,2-Tetrachloroethane	131	11.536	11.536	(1.136)	2447	0.20000	0.189277
34	m,p-Xylene	106	11.639	11.639	(1.146)	6644	0.40000	0.327533
36	o-Xylene	106	12.061	12.061	(1.188)	3338	0.20000	0.172264
37	Styrene	104	12.061	12.089	(1.188)	5412	0.20000	0.160431
38	a-Pinene	93	12.336	12.336	(1.215)	4608	0.20000	0.170822
39	1,1,2,2-Tetrachloroethane-SPC	83	12.693	12.720	(1.250)	2517	0.20000	0.159720
40	Propylbenzene	91	12.775	12.775	(1.258)	8200	0.20000	0.163797
210	1,2,3-Trichloropropane	110	12.775	12.803	(1.258)	1061	0.20000	0.159364
41	1,3,5-Trimethylbenzene	105	12.913	12.913	(1.272)	10882	0.20000	0.166834
42	1,2,4-Trimethylbenzene	105	13.253	13.253	(1.305)	9122	0.20000	0.167063
43	R-(+)-Limonene	68	13.470	13.470	(1.327)	2426	0.20000	(a)
44	1,3-Dichlorobenzene	146	13.566	13.566	(1.336)	6124	0.20000	0.169429
45	1,4-Dichlorobenzene	146	13.663	13.662	(1.346)	4468	0.20000	0.167801
46	1,2-Dichlorobenzene	146	14.000	14.024	(1.379)	5265	0.20000	0.167475
47	1,4-Dithiane	120	14.482	14.506	(1.426)	2948	0.20000	0.166657
48	1,2,4-Trichlorobenzene	180	15.591	15.591	(1.536)	4129	0.20000	0.165900
49	Naphthalene	128	15.905	15.929	(1.567)	14157	0.20000	0.167207
50	1,2,3-Trichlorobenzene	180	16.194	16.194	(1.595)	4137	0.20000	0.170808

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd10.i
Lab File ID: 10042706sim.d
Lab Smp Id: 2595-224-0.20
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

Calibration Date: 27-APR-2015
Calibration Time: 09:51
Client Smp ID: Level 4
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	179444	89722	358888	179444	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msd10.i/27Apr2015.b/10042706sim.d

Date : 27-APR-2015 09:51

Client ID: Level 4

Instrument: msd10.i

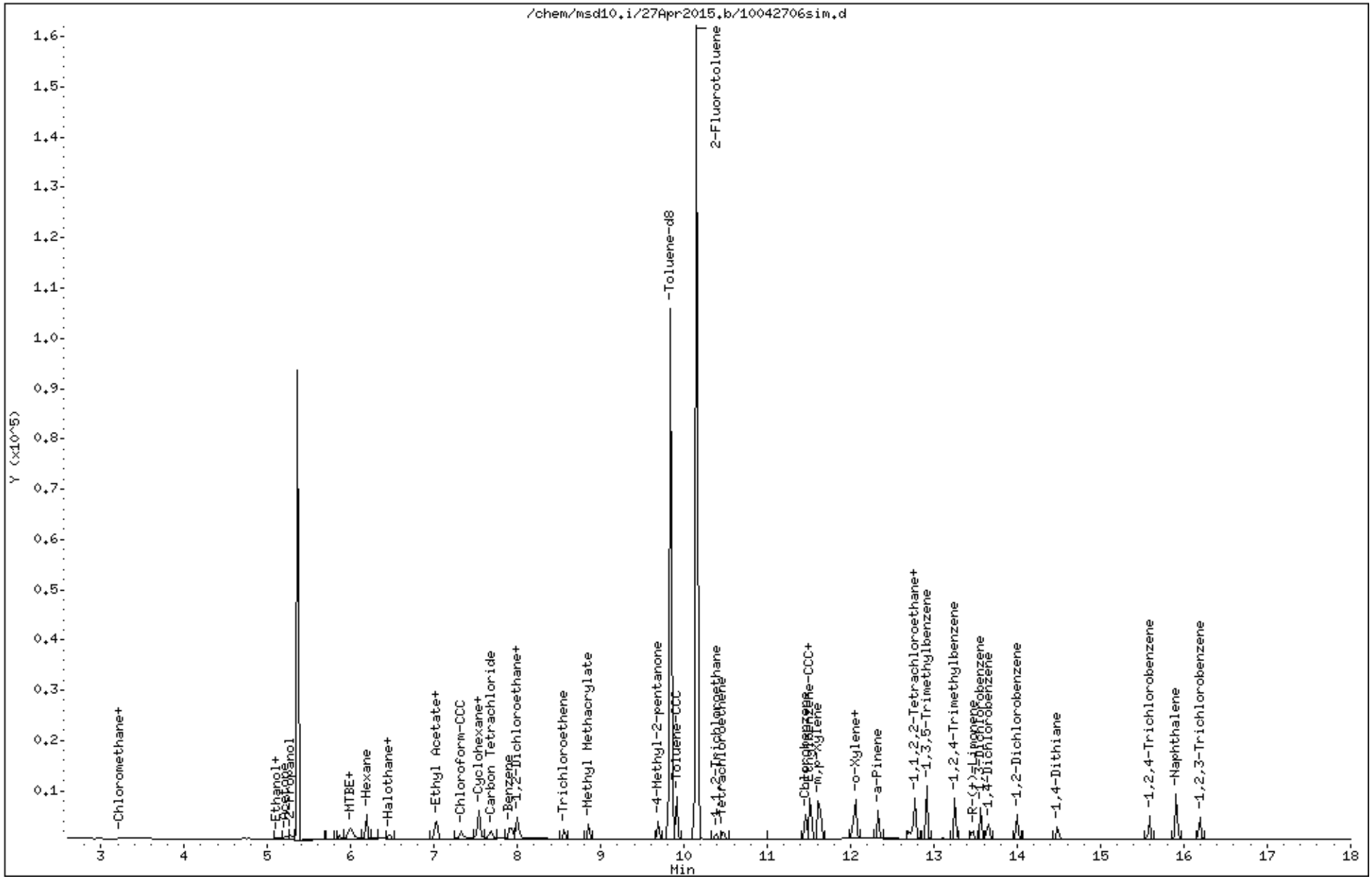
Sample Info: ;2595-224-0.20;Level 4

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msd10.i/27Apr2015.b/10042715sim.d
Lab Smp Id: 2595-224-0.5 Client Smp ID: Level 5
Inj Date : 27-APR-2015 13:25
Operator : gm Inst ID: msd10.i
Smp Info : ;2595-224-0.5;Level 5
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Meth Date : 27-Apr-2015 13:48 gmash Quant Type: ISTD
Cal Date : 27-APR-2015 13:25 Cal File: 10042715sim.d
Als bottle: 15 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
1 Chloromethane	50	3.227	3.227	(0.318)	939	0.50000	0.460240
2 Vinyl Chloride	62	3.444	3.420	(0.339)	1775	0.50000	0.488738
3 Ethanol	45	4.696	4.696	(0.463)	1212	0.50000	0.519730
4 1,1-Dichloroethene-CCC	96	5.116	5.117	(0.504)	2510	0.50000	0.538178
5 Acetone	58	5.206	5.206	(0.513)	1939	0.50000	0.511808(M)
6 2-Propanol	45	5.273	5.273	(0.519)	5004	0.50000	0.460642
7 MTBE	73	6.024	5.996	(0.593)	13762	0.50000	0.541299
8 trans-1,2-Dichloroethene	96	6.051	6.051	(0.596)	4077	0.50000	0.556412
9 Hexane	57	6.216	6.216	(0.612)	14129	0.50000	0.601834
10 Halothane	117	6.377	6.377	(0.628)	2539	0.50000	0.541120
11 1,1-Dichloroethane-SPCC	63	6.474	6.474	(0.638)	8710	0.50000	0.547276
12 Ethyl Acetate	70	7.013	7.013	(0.691)	1469	0.50000	0.578866
13 2-Butanone	72	7.036	7.036	(0.693)	3028	0.50000	0.536323
14 cis-1,2-Dichloroethene	96	7.058	7.058	(0.695)	5030	0.50000	0.572733
15 Chloroform-CCC	83	7.352	7.352	(0.724)	7831	0.50000	0.541733
16 Cyclohexane	84	7.537	7.537	(0.742)	11444	0.50000	0.571726

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
17	1,1,1-Trichloroethane	97	7.537	7.537	(0.742)	9086	0.50000	0.518873
18	Carbon Tetrachloride	117	7.691	7.691	(0.758)	9369	0.50000	0.599476
19	Benzene	78	7.938	7.938	(0.782)	25995	0.50000	0.649499
20	1,2-Dichloroethane	62	7.999	7.999	(0.788)	9839	0.50000	0.575229
21	Heptane	71	8.030	8.030	(0.791)	6834	0.50000	0.574518
22	Trichloroethene	130	8.562	8.562	(0.843)	7114	0.50000	0.565345
24	Methyl Methacrylate	69	8.851	8.851	(0.872)	7666	0.50000	0.584721
25	4-Methyl-2-pentanone	85	9.695	9.695	(0.955)	3336	0.50000	0.599031
$ 26	Toluene-d8	98	9.839	9.839	(0.969)	221806	5.00000	4.96485
28	Toluene-CCC	92	9.912	9.912	(0.976)	22263	0.50000	0.588040
* 29	2-Fluorotoluene	109	10.152	10.153	(1.000)	247240	5.00000	
30	1,1,2-Trichloroethane	97	10.369	10.370	(1.021)	7356	0.50000	0.593813
31	Tetrachloroethene	164	10.466	10.466	(1.031)	7136	0.50000	0.594419
32	Chlorobenzene	112	11.458	11.459	(1.129)	28556	0.50000	0.600773
33	Ethylbenzene-CCC	106	11.510	11.510	(1.134)	15425	0.50000	0.593799
209	1,1,1,2-Tetrachloroethane	131	11.536	11.536	(1.136)	9238	0.50000	0.569530
34	m,p-Xylene	106	11.613	11.613	(1.144)	31303	1.00000	1.15192
36	o-Xylene	106	12.061	12.062	(1.188)	15233	0.50000	0.572589
37	Styrene	104	12.061	12.062	(1.188)	25979	0.50000	0.585296
38	a-Pinene	93	12.336	12.336	(1.215)	21885	0.50000	0.596356
39	1,1,2,2-Tetrachloroethane-SPC	83	12.693	12.693	(1.250)	11496	0.50000	0.588784
40	Propylbenzene	91	12.748	12.748	(1.256)	40369	0.50000	0.577296
210	1,2,3-Trichloropropane	110	12.775	12.775	(1.258)	4910	0.50000	0.614961
41	1,3,5-Trimethylbenzene	105	12.912	12.913	(1.272)	52219	0.50000	0.607062
42	1,2,4-Trimethylbenzene	105	13.253	13.253	(1.305)	43148	0.50000	0.601181
43	R-(+)-Limonene	68	13.470	13.470	(1.327)	11919	0.50000	0.569694
44	1,3-Dichlorobenzene	146	13.566	13.566	(1.336)	27233	0.50000	0.592359
45	1,4-Dichlorobenzene	146	13.662	13.638	(1.346)	20546	0.50000	0.583786
46	1,2-Dichlorobenzene	146	14.000	14.000	(1.379)	23412	0.50000	0.584397
47	1,4-Dithiane	120	14.482	14.482	(1.426)	13779	0.50000	0.554268
48	1,2,4-Trichlorobenzene	180	15.591	15.592	(1.536)	19003	0.50000	0.583246
49	Naphthalene	128	15.905	15.905	(1.567)	66509	0.50000	0.587548
50	1,2,3-Trichlorobenzene	180	16.194	16.194	(1.595)	18504	0.50000	0.581703

QC Flag Legend

M - Compound response manually integrated.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd10.i
Lab File ID: 10042715sim.d
Lab Smp Id: 2595-224-0.5
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

Calibration Date: 27-APR-2015
Calibration Time: 11:01
Client Smp ID: Level 5
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	216118	108059	432236	247240	14.40

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msd10.i/27Apr2015.b/10042715sim.d

Page 1

Date : 27-APR-2015 13:25

Client ID: Level 5

Instrument: msd10.i

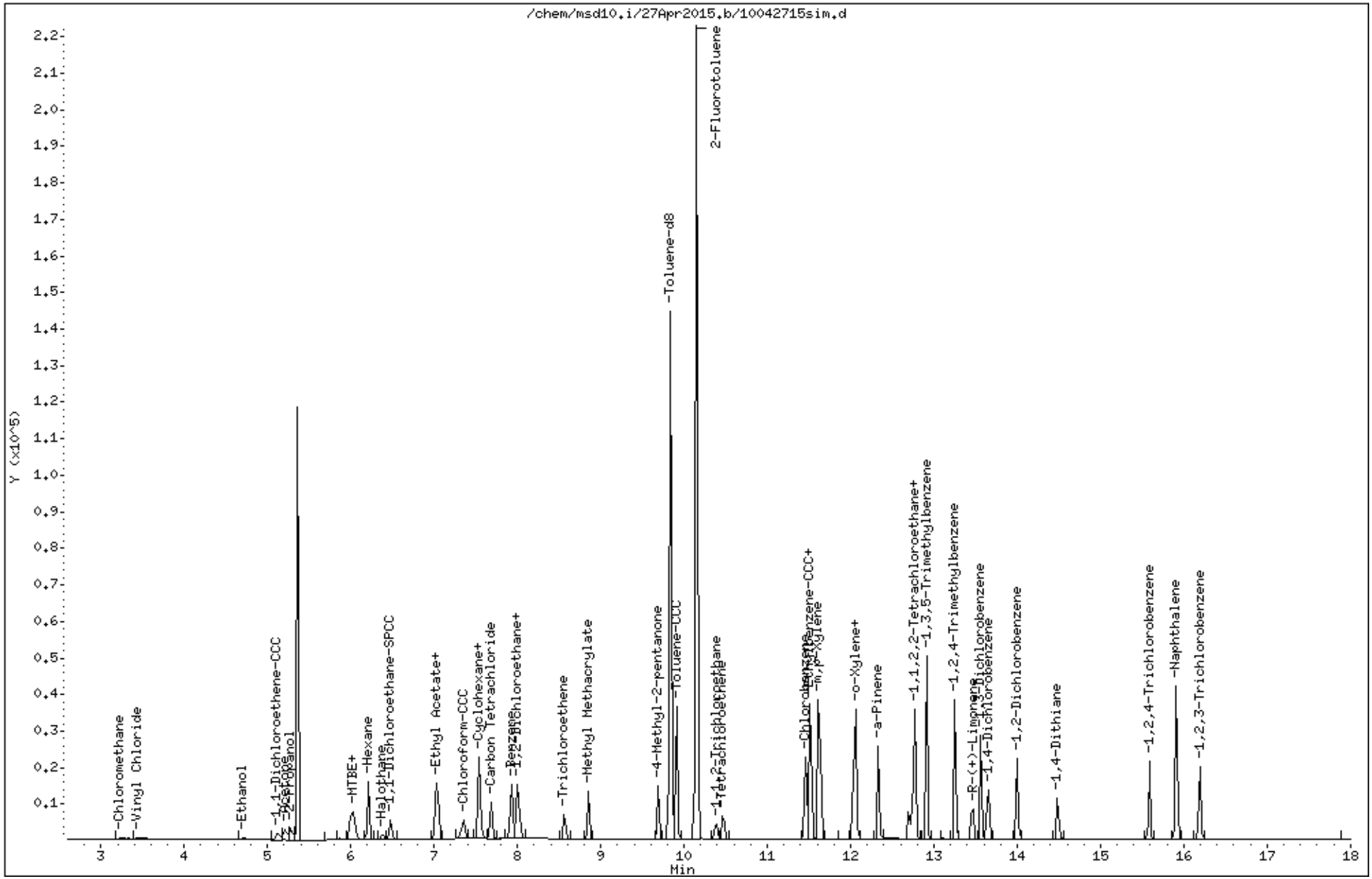
Sample Info: ;2595-224-0.5;Level 5

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msd10.i/27Apr2015.b/10042708sim.d
Lab Smp Id: 2595-224-1.0 Client Smp ID: Level 6
Inj Date : 27-APR-2015 10:38
Operator : gm Inst ID: msd10.i
Smp Info : ;2595-224-1.0;Level 6
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Meth Date : 27-Apr-2015 11:56 gmash Quant Type: ISTD
Cal Date : 27-APR-2015 10:38 Cal File: 10042708sim.d
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
1 Chloromethane	50	3.227	3.227	(0.318)	1482	1.00000	0.838905
2 Vinyl Chloride	62	3.420	3.420	(0.337)	2682	1.00000	0.818802
3 Ethanol	45	4.696	4.696	(0.463)	1674	1.00000	0.858182
4 1,1-Dichloroethene-CCC	96	5.117	5.117	(0.504)	3260	1.00000	0.802461
5 Acetone	58	5.206	5.206	(0.513)	2867	1.00000	0.877226(M)
6 2-Propanol	45	5.273	5.273	(0.519)	7161	1.00000	0.806965
7 MTBE	73	5.996	5.996	(0.591)	20858	1.00000	0.970162
8 trans-1,2-Dichloroethene	96	6.051	6.051	(0.596)	5820	1.00000	0.969930
9 Hexane	57	6.189	6.216	(0.610)	17720	1.00000	0.873360
10 Halothane	117	6.377	6.377	(0.628)	3664	1.00000	0.939284
11 1,1-Dichloroethane-SPCC	63	6.474	6.474	(0.638)	12250	1.00000	0.933658
12 Ethyl Acetate	70	7.013	7.013	(0.691)	2019	1.00000	0.956139
13 2-Butanone	72	7.036	7.036	(0.693)	4184	1.00000	0.905058
14 cis-1,2-Dichloroethene	96	7.036	7.058	(0.693)	6682	1.00000	0.932735
15 Chloroform-CCC	83	7.321	7.352	(0.721)	11276	1.00000	0.944263
16 Cyclohexane	84	7.537	7.537	(0.742)	15991	1.00000	1.02108

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
17	1,1,1-Trichloroethane	97	7.537	7.537	(0.742)	14451	1.00000	1.03760
18	Carbon Tetrachloride	117	7.691	7.691	(0.758)	11226	1.00000	0.888164
19	Benzene	78	7.938	7.938	(0.782)	29606	1.00000	0.892788
20	1,2-Dichloroethane	62	7.999	7.999	(0.788)	12159	1.00000	0.853466
21	Heptane	71	7.999	8.030	(0.788)	8487	1.00000	0.881876
22	Trichloroethene	130	8.562	8.562	(0.843)	9877	1.00000	0.971533
24	Methyl Methacrylate	69	8.851	8.851	(0.872)	10178	1.00000	0.991496
25	4-Methyl-2-pentanone	85	9.695	9.695	(0.955)	4362	1.00000	1.00954
$ 26	Toluene-d8	98	9.839	9.839	(0.969)	169982	5.00000	5.04578(A)
28	Toluene-CCC	92	9.912	9.912	(0.976)	29851	1.00000	0.993690
* 29	2-Fluorotoluene	109	10.153	10.153	(1.000)	186693	5.00000	
30	1,1,2-Trichloroethane	97	10.370	10.370	(1.021)	9935	1.00000	1.00578
31	Tetrachloroethene	164	10.466	10.466	(1.031)	9612	1.00000	1.01512
32	Chlorobenzene	112	11.459	11.459	(1.129)	37929	1.00000	1.01659
33	Ethylbenzene-CCC	106	11.510	11.510	(1.134)	20707	1.00000	1.03986
209	1,1,1,2-Tetrachloroethane	131	11.536	11.536	(1.136)	12842	1.00000	1.00873
34	m,p-Xylene	106	11.613	11.613	(1.144)	41441	2.00000	2.00880
36	o-Xylene	106	12.062	12.062	(1.188)	20279	1.00000	1.02790
37	Styrene	104	12.062	12.062	(1.188)	34269	1.00000	0.998923
38	a-Pinene	93	12.336	12.336	(1.215)	28930	1.00000	1.04044
39	1,1,2,2-Tetrachloroethane-SPC	83	12.693	12.693	(1.250)	15114	1.00000	0.984252
40	Propylbenzene	91	12.748	12.748	(1.256)	54441	1.00000	1.05074
210	1,2,3-Trichloropropane	110	12.775	12.775	(1.258)	6517	1.00000	0.998597
41	1,3,5-Trimethylbenzene	105	12.913	12.913	(1.272)	71681	1.00000	1.05781
42	1,2,4-Trimethylbenzene	105	13.253	13.253	(1.305)	59812	1.00000	1.06104
43	R-(+)-Limonene	68	13.470	13.470	(1.327)	15509	1.00000	1.04096
44	1,3-Dichlorobenzene	146	13.566	13.566	(1.336)	38396	1.00000	1.05231
45	1,4-Dichlorobenzene	146	13.638	13.638	(1.343)	27277	1.00000	1.02040
46	1,2-Dichlorobenzene	146	14.000	14.000	(1.379)	32997	1.00000	1.04780
47	1,4-Dithiane	120	14.482	14.482	(1.426)	18698	1.00000	1.01716
48	1,2,4-Trichlorobenzene	180	15.592	15.592	(1.536)	25571	1.00000	1.03345
49	Naphthalene	128	15.905	15.905	(1.567)	88752	1.00000	1.03520
50	1,2,3-Trichlorobenzene	180	16.194	16.194	(1.595)	25147	1.00000	1.03819

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd10.i
Lab File ID: 10042708sim.d
Lab Smp Id: 2595-224-1.0
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

Calibration Date: 27-APR-2015
Calibration Time: 11:01
Client Smp ID: Level 6
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	216118	108059	432236	186693	-13.62

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msd10.i/27Apr2015.b/10042708sim.d

Page 1

Date : 27-APR-2015 10:38

Client ID: Level 6

Instrument: msd10.i

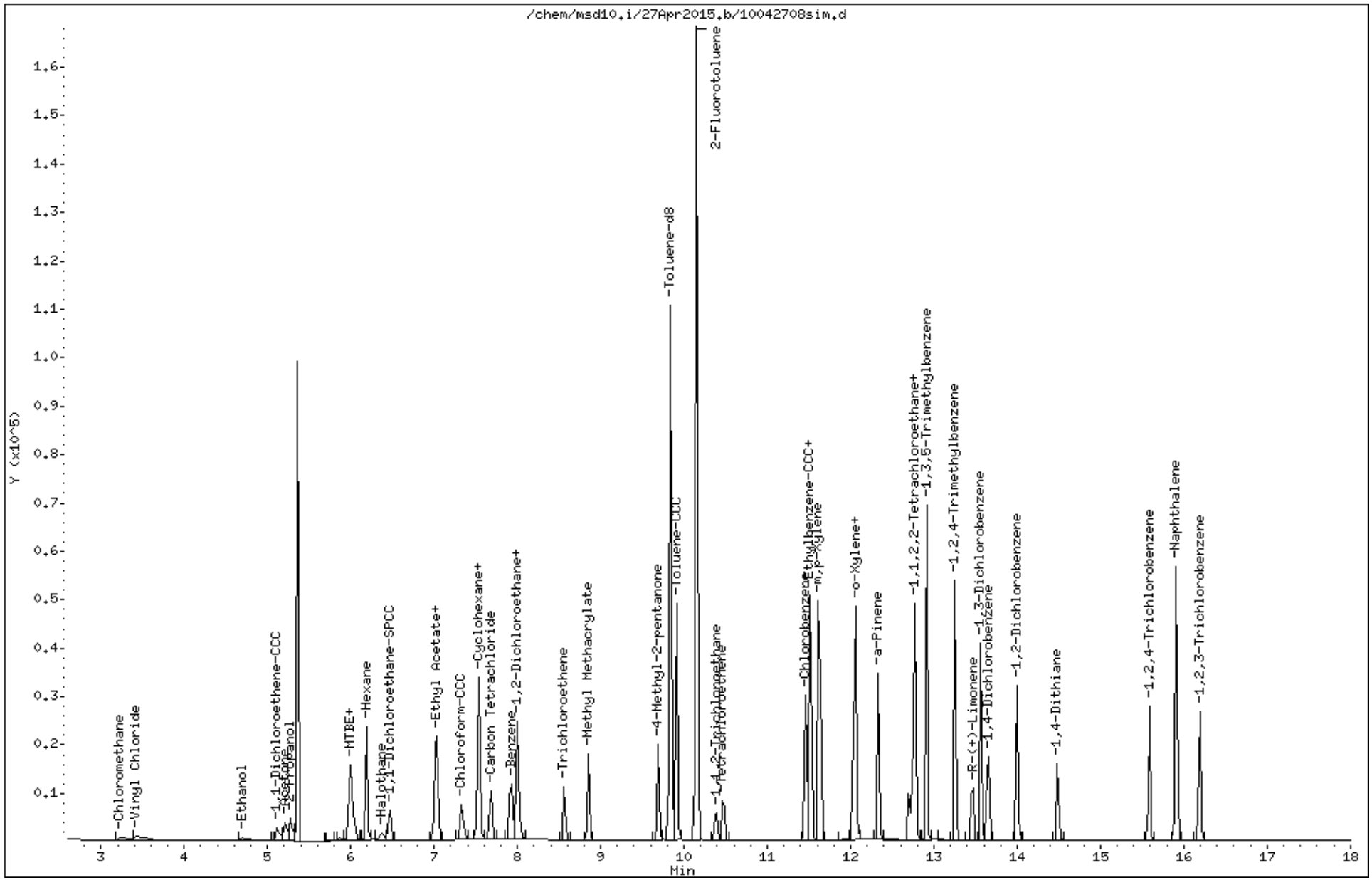
Sample Info: ;2595-224-1.0;Level 6

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msd10.i/27Apr2015.b/10042709sim.d
Lab Smp Id: 2595-224-5.0 Client Smp ID: Level 7
Inj Date : 27-APR-2015 11:01
Operator : gm Inst ID: msd10.i
Smp Info : ;2595-224-5.0;Level 7
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Meth Date : 27-Apr-2015 14:05 gmash Quant Type: ISTD
Cal Date : 27-APR-2015 11:01 Cal File: 10042709sim.d
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
1	Chloromethane	50	3.227	3.227	(0.318)	9253	5.00000	5.18835(M)
2	Vinyl Chloride	62	3.420	3.420	(0.337)	14494	5.00000	4.56556
3	Ethanol	45	4.696	4.696	(0.463)	9468	5.00000	4.64474
4	1,1-Dichloroethene-CCC	96	5.117	5.117	(0.504)	22605	5.00000	5.54479
5	Acetone	58	5.206	5.206	(0.513)	16773	5.00000	5.06487
6	2-Propanol	45	5.273	5.273	(0.519)	46491	5.00000	4.89602
7	MTBE	73	5.996	5.996	(0.591)	95241	5.00000	4.28556
8	trans-1,2-Dichloroethene	96	6.051	6.051	(0.596)	28961	5.00000	4.52165(H)
9	Hexane	57	6.216	6.216	(0.612)	95034	5.00000	4.63097
10	Halothane	117	6.377	6.377	(0.628)	18997	5.00000	4.63174
11	1,1-Dichloroethane-SPCC	63	6.474	6.474	(0.638)	62255	5.00000	4.47497
12	Ethyl Acetate	70	7.013	7.013	(0.691)	9714	5.00000	4.37907
13	2-Butanone	72	7.036	7.036	(0.693)	21709	5.00000	4.39884
14	cis-1,2-Dichloroethene	96	7.058	7.058	(0.695)	34843	5.00000	4.53866
15	Chloroform-CCC	83	7.352	7.352	(0.724)	54967	5.00000	4.35009
16	Cyclohexane	84	7.537	7.537	(0.742)	75506	5.00000	4.31538

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
17	1,1,1-Trichloroethane	97	7.537	7.537	(0.742)	66003	5.00000	4.31201
18	Carbon Tetrachloride	117	7.691	7.691	(0.758)	66168	5.00000	4.84344
19	Benzene	78	7.938	7.938	(0.782)	165041	5.00000	4.71746
20	1,2-Dichloroethane	62	7.999	7.999	(0.788)	70528	5.00000	4.71714
21	Heptane	71	8.030	8.030	(0.791)	44681	5.00000	4.29714
22	Trichloroethene	130	8.562	8.562	(0.843)	47743	5.00000	4.34048
24	Methyl Methacrylate	69	8.851	8.851	(0.872)	51764	5.00000	4.51685
25	4-Methyl-2-pentanone	85	9.695	9.695	(0.955)	22657	5.00000	4.65429
$ 26	Toluene-d8	98	9.839	9.839	(0.969)	194677	5.00000	4.98512
28	Toluene-CCC	92	9.912	9.912	(0.976)	146012	5.00000	4.41204
* 29	2-Fluorotoluene	109	10.153	10.153	(1.000)	216118	5.00000	
30	1,1,2-Trichloroethane	97	10.370	10.370	(1.021)	48308	5.00000	4.46123
31	Tetrachloroethene	164	10.466	10.466	(1.031)	46343	5.00000	4.41621
32	Chlorobenzene	112	11.459	11.459	(1.129)	183414	5.00000	4.41441
33	Ethylbenzene-CCC	106	11.510	11.510	(1.134)	100857	5.00000	4.44169
209	1,1,1,2-Tetrachloroethane	131	11.536	11.536	(1.136)	63211	5.00000	4.45819
34	m,p-Xylene	106	11.613	11.613	(1.144)	213353	10.0000	8.98179
36	o-Xylene	106	12.062	12.062	(1.188)	102007	5.00000	4.38647
37	Styrene	104	12.062	12.062	(1.188)	181449	5.00000	4.67665
38	a-Pinene	93	12.336	12.336	(1.215)	147183	5.00000	4.58822
39	1,1,2,2-Tetrachloroethane-SPC	83	12.693	12.693	(1.250)	76406	5.00000	4.47676
40	Propylbenzene	91	12.748	12.748	(1.256)	273923	5.00000	4.48133
210	1,2,3-Trichloropropane	110	12.775	12.775	(1.258)	31735	5.00000	4.54708
41	1,3,5-Trimethylbenzene	105	12.913	12.913	(1.272)	366779	5.00000	4.87795
42	1,2,4-Trimethylbenzene	105	13.253	13.253	(1.305)	300280	5.00000	4.78629
43	R-(+)-Limonene	68	13.470	13.470	(1.327)	81740	5.00000	4.46955
44	1,3-Dichlorobenzene	146	13.566	13.566	(1.336)	187046	5.00000	4.65442
45	1,4-Dichlorobenzene	146	13.638	13.638	(1.343)	137817	5.00000	4.47978
46	1,2-Dichlorobenzene	146	14.000	14.000	(1.379)	160117	5.00000	4.57230
47	1,4-Dithiane	120	14.482	14.482	(1.426)	100618	5.00000	4.63026
48	1,2,4-Trichlorobenzene	180	15.592	15.592	(1.536)	125588	5.00000	4.40966
49	Naphthalene	128	15.905	15.905	(1.567)	453293	5.00000	4.58110
50	1,2,3-Trichlorobenzene	180	16.194	16.194	(1.595)	124802	5.00000	4.48833

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd10.i
Lab File ID: 10042709sim.d
Lab Smp Id: 2595-224-5.0
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

Calibration Date: 27-APR-2015
Calibration Time: 11:01
Client Smp ID: Level 7
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	216118	108059	432236	216118	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msd10.i/27Apr2015.b/10042709sim.d

Page 1

Date : 27-APR-2015 11:01

Client ID: Level 7

Instrument: msd10.i

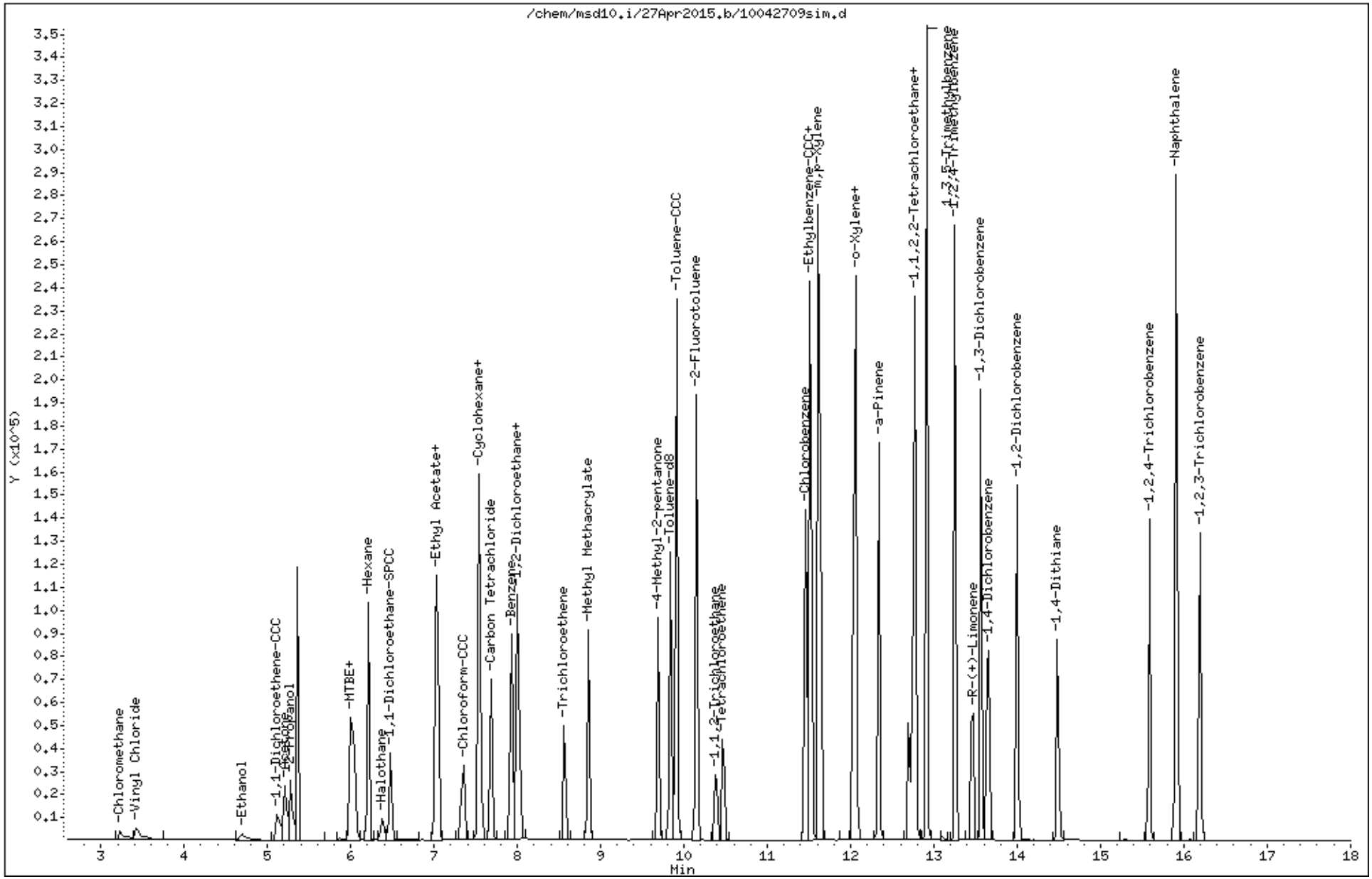
Sample Info: ;2595-224-5.0;Level 7

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msd10.i/27Apr2015.b/10042710sim.d
Lab Smp Id: 2595-224-20 Client Smp ID: Level 8
Inj Date : 27-APR-2015 11:25
Operator : gm Inst ID: msd10.i
Smp Info : ;2595-224-20;Level 8
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Meth Date : 27-Apr-2015 11:53 gmash Quant Type: ISTD
Cal Date : 27-APR-2015 11:25 Cal File: 10042710sim.d
Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
1	Chloromethane	50	3.227	3.227	(0.318)	41181	20.0000	17.8631
2	Vinyl Chloride	62	3.420	3.420	(0.337)	79506	20.0000	18.6002
3	Ethanol	45	4.696	4.696	(0.463)	46783	20.0000	18.3784
4	1,1-Dichloroethene-CCC	96	5.117	5.117	(0.504)	109550	20.0000	20.6640
5	Acetone	58	5.206	5.206	(0.513)	84050	20.0000	20.5080
6	2-Propanol	45	5.273	5.273	(0.519)	227646	20.0000	19.6578
7	MTBE	73	6.024	5.996	(0.593)	465667	20.0000	16.5975
8	trans-1,2-Dichloroethene	96	6.079	6.051	(0.599)	144638	20.0000	18.4712
9	Hexane	57	6.243	6.216	(0.615)	352642	20.0000	13.3186
10	Halothane	117	6.377	6.377	(0.628)	94738	20.0000	18.6106
11	1,1-Dichloroethane-SPCC	63	6.498	6.474	(0.640)	314839	20.0000	18.3880
12	Ethyl Acetate	70	7.036	7.013	(0.693)	48665	20.0000	17.6604
13	2-Butanone	72	7.058	7.036	(0.695)	110922	20.0000	18.3865
14	cis-1,2-Dichloroethene	96	7.058	7.058	(0.695)	171223	20.0000	18.3151
15	Chloroform-CCC	83	7.352	7.352	(0.724)	316382	20.0000	20.3023
16	Cyclohexane	84	7.568	7.537	(0.745)	304114	20.0000	14.8805

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
17	1,1,1-Trichloroethane	97	7.568	7.537	(0.745)	284180	20.0000	15.6357
18	Carbon Tetrachloride	117	7.691	7.691	(0.758)	315128	20.0000	19.1051
19	Benzene	78	7.938	7.938	(0.782)	952212	20.0000	22.0038
20	1,2-Dichloroethane	62	7.999	7.999	(0.788)	352362	20.0000	18.9528
21	Heptane	71	8.030	8.030	(0.791)	268368	20.0000	21.3688
22	Trichloroethene	130	8.586	8.562	(0.846)	215266	20.0000	16.2257
24	Methyl Methacrylate	69	8.851	8.851	(0.872)	247292	20.0000	18.4601
25	4-Methyl-2-pentanone	85	9.695	9.695	(0.955)	102877	20.0000	18.2454
$ 26	Toluene-d8	98	9.839	9.839	(0.969)	223311	5.00000	5.07962(A)
28	Toluene-CCC	92	9.912	9.912	(0.976)	652192	20.0000	16.6365
* 29	2-Fluorotoluene	109	10.153	10.153	(1.000)	243631	5.00000	
30	1,1,2-Trichloroethane	97	10.370	10.370	(1.021)	214530	20.0000	16.6424
31	Tetrachloroethene	164	10.466	10.466	(1.031)	206674	20.0000	16.7258
32	Chlorobenzene	112	11.459	11.459	(1.129)	816684	20.0000	16.7735
33	Ethylbenzene-CCC	106	11.510	11.510	(1.134)	448437	20.0000	17.2566
209	1,1,1,2-Tetrachloroethane	131	11.536	11.536	(1.136)	281380	20.0000	16.9368
34	m,p-Xylene	106	11.613	11.613	(1.144)	949992	40.0000	35.2875
36	o-Xylene	106	12.061	12.062	(1.188)	451232	20.0000	17.5266
37	Styrene	104	12.061	12.062	(1.188)	800810	20.0000	17.8877
38	a-Pinene	93	12.336	12.336	(1.215)	642132	20.0000	17.6965
39	1,1,2,2-Tetrachloroethane-SPC	83	12.693	12.693	(1.250)	333969	20.0000	16.6659
40	Propylbenzene	91	12.748	12.748	(1.256)	1251145	20.0000	18.5043
210	1,2,3-Trichloropropane	110	12.775	12.775	(1.258)	134953	20.0000	15.8460
41	1,3,5-Trimethylbenzene	105	12.913	12.913	(1.272)	1575756	20.0000	17.8191
42	1,2,4-Trimethylbenzene	105	13.253	13.253	(1.305)	1304546	20.0000	17.7336
43	R-(+)-Limonene	68	13.470	13.470	(1.327)	356327	20.0000	18.3271
44	1,3-Dichlorobenzene	146	13.566	13.566	(1.336)	800924	20.0000	16.8208
45	1,4-Dichlorobenzene	146	13.663	13.638	(1.346)	594202	20.0000	17.0335
46	1,2-Dichlorobenzene	146	14.000	14.000	(1.379)	685748	20.0000	16.6864
47	1,4-Dithiane	120	14.482	14.482	(1.426)	455001	20.0000	18.9672
48	1,2,4-Trichlorobenzene	180	15.591	15.592	(1.536)	539134	20.0000	16.6969
49	Naphthalene	128	15.905	15.905	(1.567)	1936362	20.0000	17.3072
50	1,2,3-Trichlorobenzene	180	16.194	16.194	(1.595)	528516	20.0000	16.7203

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd10.i
Lab File ID: 10042710sim.d
Lab Smp Id: 2595-224-20
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

Calibration Date: 27-APR-2015
Calibration Time: 11:01
Client Smp ID: Level 8
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	216118	108059	432236	243631	12.73

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msd10.i/27Apr2015.b/10042710sim.d

Date : 27-APR-2015 11:25

Client ID: Level 8

Instrument: msd10.i

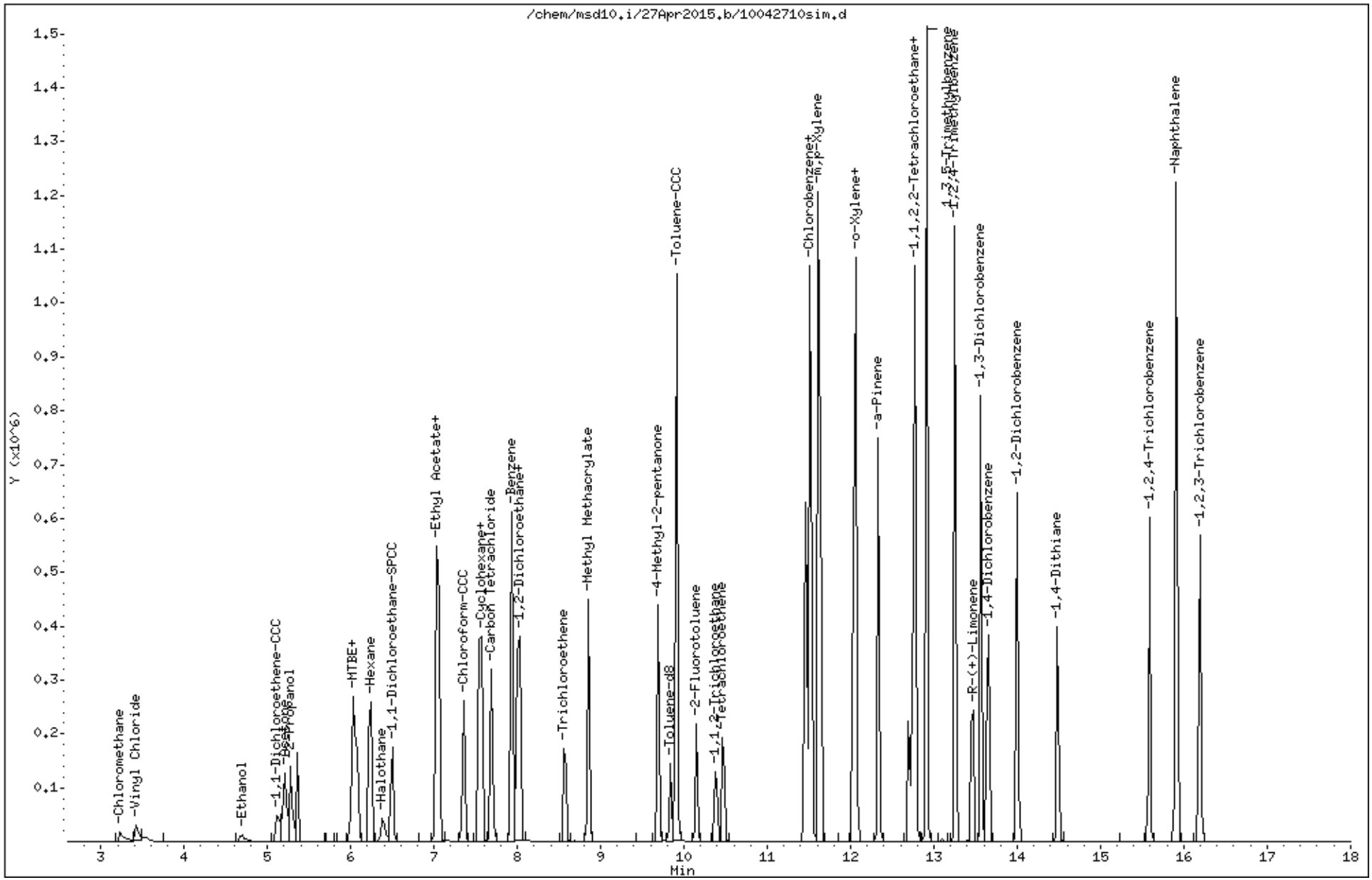
Sample Info: ;2595-224-20;Level 8

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msd10.i/27Apr2015.b/10042711sim.d
Lab Smp Id: 2595-224-50 Client Smp ID: Level 9
Inj Date : 27-APR-2015 11:48
Operator : gm Inst ID: msd10.i
Smp Info : ;2595-224-50;Level 9
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Meth Date : 27-Apr-2015 12:23 gmash Quant Type: ISTD
Cal Date : 27-APR-2015 11:48 Cal File: 10042711sim.d
Als bottle: 11 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all-cm.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
2 Vinyl Chloride	62	3.420	3.420	(0.337)	160256	50.0000	43.7041
3 Ethanol	45	4.697	4.696	(0.463)	107173	50.0000	48.3369
4 1,1-Dichloroethene-CCC	96	5.117	5.117	(0.504)	169721	50.0000	38.0126
5 Acetone	58	5.206	5.206	(0.513)	164006	50.0000	44.6829
6 2-Propanol	45	5.274	5.273	(0.519)	497667	50.0000	49.1980
7 MTBE	73	5.996	5.996	(0.591)	1053302	50.0000	43.6426
8 trans-1,2-Dichloroethene	96	6.051	6.051	(0.596)	336199	50.0000	49.1584
9 Hexane	57	6.189	6.216	(0.610)	709214	50.0000	32.1429
10 Halothane	117	6.377	6.377	(0.628)	189467	50.0000	43.3081
11 1,1-Dichloroethane-SPCC	63	6.474	6.474	(0.638)	637452	50.0000	43.3190
12 Ethyl Acetate	70	7.013	7.013	(0.691)	99598	50.0000	42.3234
13 2-Butanone	72	7.036	7.036	(0.693)	226078	50.0000	43.5728
14 cis-1,2-Dichloroethene	96	7.036	7.058	(0.693)	351404	50.0000	43.6904
15 Chloroform-CCC	83	7.322	7.352	(0.721)	550590	50.0000	41.3381
16 Cyclohexane	84	7.537	7.537	(0.742)	842044	50.0000	47.3928
17 1,1,1-Trichloroethane	97	7.537	7.537	(0.742)	737231	50.0000	46.7437

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	18	Carbon Tetrachloride	117	7.691	7.691	(0.758)	644831	50.0000	45.2424
	19	Benzene	78	7.938	7.938	(0.782)	1606673	50.0000	43.4933
	20	1,2-Dichloroethane	62	8.000	7.999	(0.788)	676763	50.0000	42.4573
	21	Heptane	71	8.030	8.030	(0.791)	463950	50.0000	43.0199
	22	Trichloroethene	130	8.562	8.562	(0.843)	486806	50.0000	42.7610
	24	Methyl Methacrylate	69	8.851	8.851	(0.872)	550259	50.0000	47.2654
	25	4-Methyl-2-pentanone	85	9.695	9.695	(0.955)	237156	50.0000	48.2950
$	26	Toluene-d8	98	9.839	9.839	(0.969)	193429	5.00000	5.02097
	28	Toluene-CCC	92	9.912	9.912	(0.976)	1518894	50.0000	44.8838
*	29	2-Fluorotoluene	109	10.153	10.153	(1.000)	213383	5.00000	
	30	1,1,2-Trichloroethane	97	10.394	10.370	(1.024)	495659	50.0000	44.5816
	31	Tetrachloroethene	164	10.466	10.466	(1.031)	485282	50.0000	45.4260
	32	Chlorobenzene	112	11.459	11.459	(1.129)	1972284	50.0000	46.6876
	33	Ethylbenzene-CCC	106	11.510	11.510	(1.134)	1145110	50.0000	50.2730
	209	1,1,1,2-Tetrachloroethane	131	11.536	11.536	(1.136)	684292	50.0000	47.3795
	34	m,p-Xylene	106	11.639	11.613	(1.146)	2314355	100.000	98.3549
	36	o-Xylene	106	12.062	12.062	(1.188)	1176230	50.0000	51.8825
	37	Styrene	104	12.062	12.062	(1.188)	1767139	50.0000	45.6307
	38	a-Pinene	93	12.336	12.336	(1.215)	1579174	50.0000	49.7282
	39	1,1,2,2-Tetrachloroethane-SPC	83	12.693	12.693	(1.250)	769872	50.0000	44.5478
	40	Propylbenzene	91	12.775	12.748	(1.258)	3002659	50.0000	50.6152
	210	1,2,3-Trichloropropane	110	12.775	12.775	(1.258)	303632	50.0000	41.6743
	41	1,3,5-Trimethylbenzene	105	12.913	12.913	(1.272)	3769869	50.0000	48.8359
	42	1,2,4-Trimethylbenzene	105	13.253	13.253	(1.305)	3141359	50.0000	48.9080
	43	R-(+)-Limonene	68	13.470	13.470	(1.327)	939969	50.0000	54.0744
	44	1,3-Dichlorobenzene	146	13.566	13.566	(1.336)	1975282	50.0000	47.6789
	45	1,4-Dichlorobenzene	146	13.663	13.638	(1.346)	1455181	50.0000	47.9118
	46	1,2-Dichlorobenzene	146	14.000	14.000	(1.379)	1712362	50.0000	47.8642
	47	1,4-Dithiane	120	14.482	14.482	(1.426)	1165790	50.0000	54.7354
	48	1,2,4-Trichlorobenzene	180	15.592	15.592	(1.536)	1396162	50.0000	49.4462
	49	Naphthalene	128	15.905	15.905	(1.567)	5002028	50.0000	50.9126
	50	1,2,3-Trichlorobenzene	180	16.195	16.194	(1.595)	1386076	50.0000	50.0580

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd10.i
Lab File ID: 10042711sim.d
Lab Smp Id: 2595-224-50
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

Calibration Date: 27-APR-2015
Calibration Time: 11:01
Client Smp ID: Level 9
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	216118	108059	432236	213383	-1.27

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msd10.i/27Apr2015.b/10042711sim.d

Date : 27-APR-2015 11:48

Client ID: Level 9

Sample Info: ;2595-224-50;Level 9

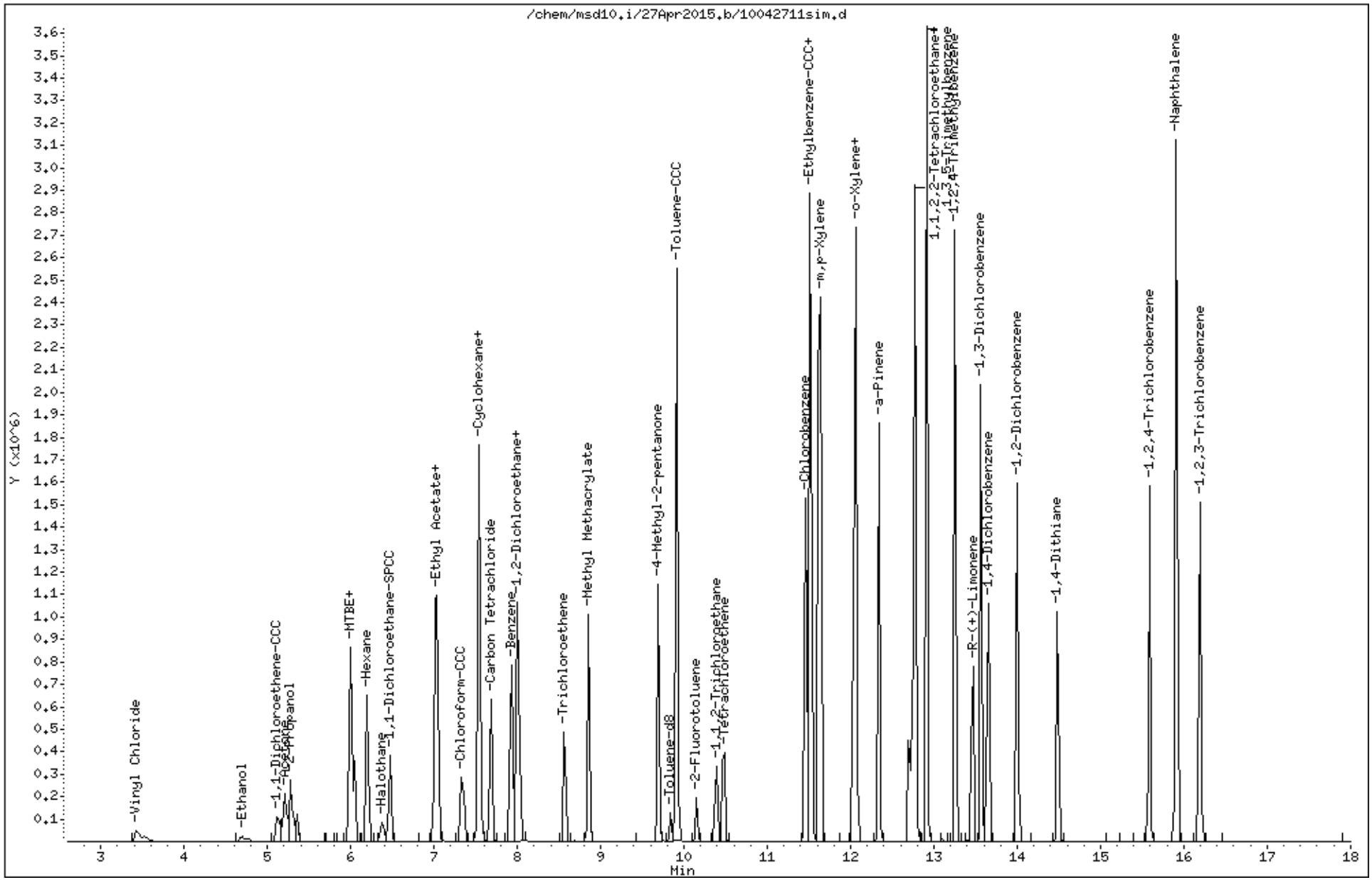
Volume Injected (uL): 1.0

Column phase: DB-5.625

Instrument: msd10.i

Operator: gm

Column diameter: 0.25



Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msd10.i/27Apr2015.b/10042712sim.d
Lab Smp Id: 2595-224-500>100 Client Smp ID: Level 10
Inj Date : 27-APR-2015 12:14
Operator : gm Inst ID: msd10.i
Smp Info : ;2595-224-500>100;Level 10
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Meth Date : 27-Apr-2015 12:39 gmash Quant Type: ISTD
Cal Date : 27-APR-2015 12:14 Cal File: 10042712sim.d
Als bottle: 12 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 100.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
2 Vinyl Chloride	62	3.420	3.420	(0.337)	301600	100.000	77.4744
3 Ethanol	45	4.672	4.696	(0.460)	212210	100.000	88.7462
4 1,1-Dichloroethene-CCC	96	5.117	5.117	(0.504)	402955	100.000	84.2160
5 Acetone	58	5.206	5.206	(0.513)	346074	100.000	87.5706
6 2-Propanol	45	5.273	5.273	(0.519)	1057510	100.000	95.9533
7 MTBE	73	5.996	5.996	(0.591)	2021478	100.000	78.4897
8 trans-1,2-Dichloroethene	96	6.051	6.051	(0.596)	666816	100.000	90.2189
9 Hexane	57	6.216	6.216	(0.612)	1867337	100.000	79.2360
10 Halothane	117	6.377	6.377	(0.628)	410862	100.000	87.0861
11 1,1-Dichloroethane-SPCC	63	6.474	6.474	(0.638)	1384353	100.000	87.2215
12 Ethyl Acetate	70	7.013	7.013	(0.691)	219213	100.000	86.6308
13 2-Butanone	72	7.036	7.036	(0.693)	494359	100.000	88.2280
14 cis-1,2-Dichloroethene	96	7.058	7.058	(0.695)	768135	100.000	88.4146
15 Chloroform-CCC	83	7.352	7.352	(0.724)	1202465	100.000	84.0315
16 Cyclohexane	84	7.537	7.537	(0.742)	1694717	100.000	88.3151
17 1,1,1-Trichloroethane	97	7.537	7.537	(0.742)	1491494	100.000	87.6328

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	18	Carbon Tetrachloride	117	7.691	7.691	(0.758)	1452234	100.000	93.7128
	19	Benzene	78	7.938	7.938	(0.782)	3636682	100.000	91.1621
	20	1,2-Dichloroethane	62	7.999	7.999	(0.788)	1508896	100.000	87.7119
	21	Heptane	71	8.030	8.030	(0.791)	1028186	100.000	88.2775
	22	Trichloroethene	130	8.562	8.562	(0.843)	1050080	100.000	85.6805
	24	Methyl Methacrylate	69	8.851	8.851	(0.872)	1198369	100.000	94.5729
	25	4-Methyl-2-pentanone	85	9.695	9.695	(0.955)	512843	100.000	95.8675
$	26	Toluene-d8	98	9.839	9.839	(0.969)	210382	5.00000	4.98518
	28	Toluene-CCC	92	9.912	9.912	(0.976)	3217602	100.000	88.0624
*	29	2-Fluorotoluene	109	10.153	10.153	(1.000)	233828	5.00000	
	30	1,1,2-Trichloroethane	97	10.370	10.370	(1.021)	1051579	100.000	87.6463
	31	Tetrachloroethene	164	10.466	10.466	(1.031)	1025924	100.000	88.8579
	32	Chlorobenzene	112	11.459	11.459	(1.129)	4025056	100.000	88.2290
	33	Ethylbenzene-CCC	106	11.510	11.510	(1.134)	2291090	100.000	92.6346
	209	1,1,1,2-Tetrachloroethane	131	11.536	11.536	(1.136)	1416770	100.000	90.5732
	34	m,p-Xylene	106	11.639	11.613	(1.146)	4839832	200.000	188.860
	36	o-Xylene	106	12.062	12.062	(1.188)	2482274	100.000	99.9266
	37	Styrene	104	12.062	12.062	(1.188)	3744887	100.000	89.4125
	38	a-Pinene	93	12.336	12.336	(1.215)	3200837	100.000	92.8081
	39	1,1,2,2-Tetrachloroethane-SPC	83	12.693	12.693	(1.250)	1672863	100.000	89.4947
	40	Propylbenzene	91	12.775	12.748	(1.258)	6984184	100.000	106.556(A)
	210	1,2,3-Trichloropropane	110	12.775	12.775	(1.258)	619221	100.000	79.5419
	41	1,3,5-Trimethylbenzene	105	12.913	12.913	(1.272)	7350140	100.000	88.1748
	42	1,2,4-Trimethylbenzene	105	13.253	13.253	(1.305)	5953932	100.000	86.0655
	43	R-(+)-Limonene	68	13.470	13.470	(1.327)	2136376	100.000	109.928(A)
	44	1,3-Dichlorobenzene	146	13.566	13.566	(1.336)	3800937	100.000	85.2663
	45	1,4-Dichlorobenzene	146	13.663	13.638	(1.346)	3151825	100.000	95.2612
	46	1,2-Dichlorobenzene	146	14.000	14.000	(1.379)	3379046	100.000	87.5360
	47	1,4-Dithiane	120	14.482	14.482	(1.426)	2381222	100.000	101.797
	48	1,2,4-Trichlorobenzene	180	15.592	15.592	(1.536)	2960090	100.000	96.1305
	49	Naphthalene	128	15.905	15.905	(1.567)	10223324	100.000	95.4935(A)
	50	1,2,3-Trichlorobenzene	180	16.194	16.194	(1.595)	2852540	100.000	94.6414

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd10.i
Lab File ID: 10042712sim.d
Lab Smp Id: 2595-224-500>100
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

Calibration Date: 27-APR-2015
Calibration Time: 11:01
Client Smp ID: Level 10
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	216118	108059	432236	233828	8.19

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msd10.i/27Apr2015.b/10042712sim.d

Date : 27-APR-2015 12:14

Client ID: Level 10

Sample Info: ;2595-224-500>100;Level 10

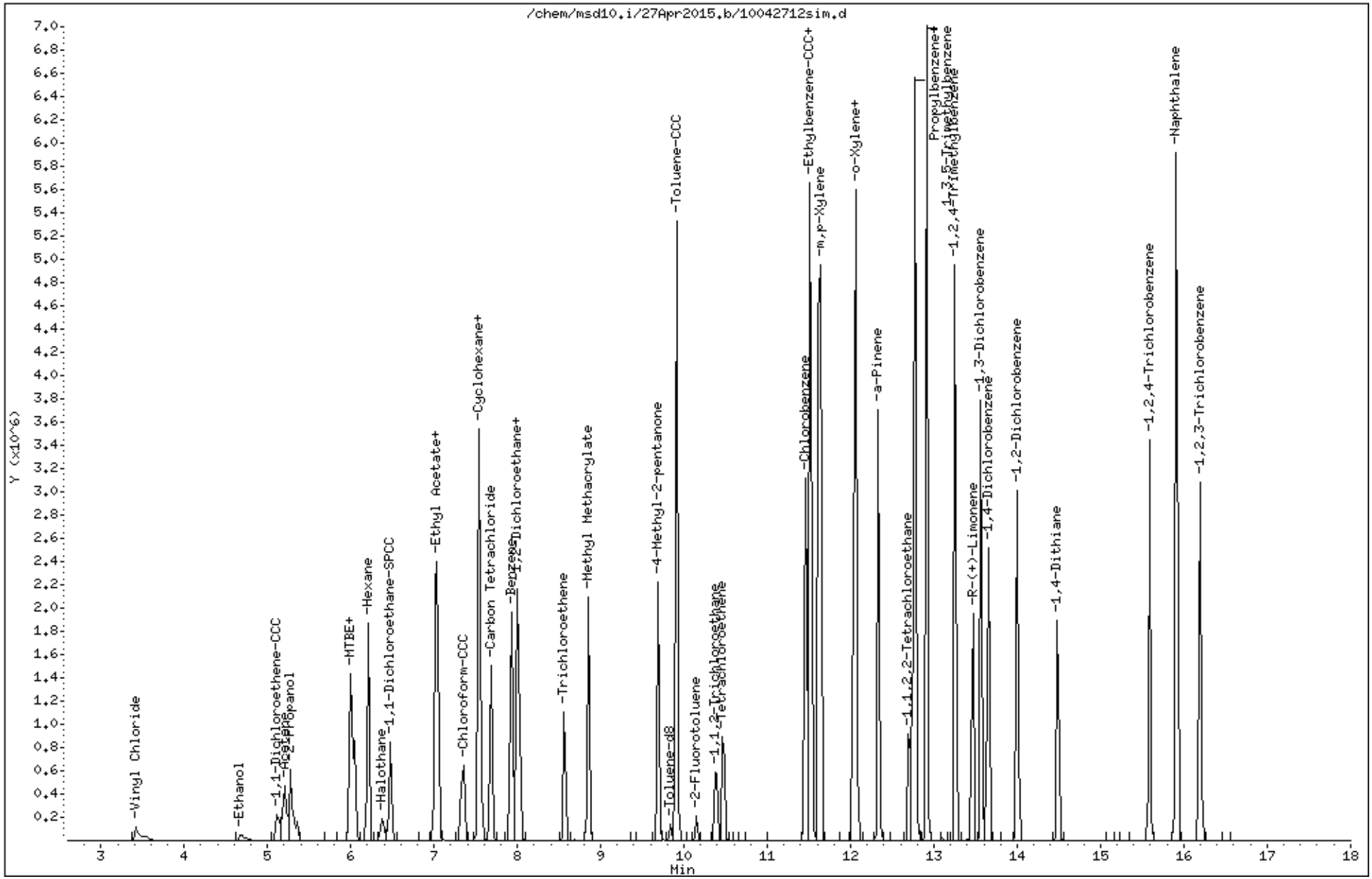
Volume Injected (uL): 1.0

Column phase: DB-5.625

Instrument: msd10.i

Operator: gm

Column diameter: 0.25



Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msd10.i/27Apr2015.b/10042713sim.d
Lab Smp Id: 2595-224-500>200 Client Smp ID: Level 11
Inj Date : 27-APR-2015 12:37
Operator : gm Inst ID: msd10.i
Smp Info : ;2595-224-500>200;Level 11
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Meth Date : 27-Apr-2015 13:07 gmash Quant Type: ISTD
Cal Date : 27-APR-2015 12:37 Cal File: 10042713sim.d
Als bottle: 13 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 200.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
2 Vinyl Chloride	62	3.444	3.420	(0.339)	485022	200.000	140.599
3 Ethanol	45	4.696	4.696	(0.463)	348267	200.000	162.216(A)
4 1,1-Dichloroethene-CCC	96	5.116	5.117	(0.504)	576438	200.000	136.303
5 Acetone	58	5.206	5.206	(0.513)	555160	200.000	156.962
6 2-Propanol	45	5.273	5.273	(0.519)	1823673	200.000	182.064
7 MTBE	73	5.996	5.996	(0.591)	3323808	200.000	144.735
8 trans-1,2-Dichloroethene	96	6.024	6.051	(0.593)	934844	200.000	142.564
9 Hexane	57	6.188	6.216	(0.610)	3498888	200.000	164.711
10 Halothane	117	6.377	6.377	(0.628)	651978	200.000	154.192
11 1,1-Dichloroethane-SPCC	63	6.450	6.474	(0.635)	2133560	200.000	150.304
12 Ethyl Acetate	70	7.013	7.013	(0.691)	347778	200.000	153.857
13 2-Butanone	72	7.036	7.036	(0.693)	781090	200.000	155.434
14 cis-1,2-Dichloroethene	96	7.036	7.058	(0.693)	1209486	200.000	155.244
15 Chloroform-CCC	83	7.321	7.352	(0.721)	2122123	200.000	164.541
16 Cyclohexane	84	7.537	7.537	(0.742)	2990026	200.000	172.163
17 1,1,1-Trichloroethane	97	7.537	7.537	(0.742)	2666237	200.000	173.009

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
18	Carbon Tetrachloride	117	7.691	7.691	(0.758)	2065906	200.000	149.153
19	Benzene	78	7.938	7.938	(0.782)	5417042	200.000	152.739
20	1,2-Dichloroethane	62	7.999	7.999	(0.788)	2108019	200.000	137.930
21	Heptane	71	8.030	8.030	(0.791)	1649027	200.000	157.674
22	Trichloroethene	130	8.562	8.562	(0.843)	1806791	200.000	163.648
24	Methyl Methacrylate	69	8.851	8.851	(0.872)	2005514	200.000	174.638
25	4-Methyl-2-pentanone	85	9.695	9.695	(0.955)	878699	200.000	180.864
$ 26	Toluene-d8	98	9.839	9.839	(0.969)	196295	5.00000	5.05546(A)
28	Toluene-CCC	92	9.912	9.912	(0.976)	5548733	200.000	168.162
* 29	2-Fluorotoluene	109	10.152	10.153	(1.000)	214899	5.00000	
30	1,1,2-Trichloroethane	97	10.394	10.370	(1.024)	1816366	200.000	167.681
31	Tetrachloroethene	164	10.490	10.466	(1.033)	1799243	200.000	172.184
32	Chlorobenzene	112	11.458	11.459	(1.129)	7059800	200.000	171.086(A)
33	Ethylbenzene-CCC	106	11.510	11.510	(1.134)	4097369	200.000	182.056
209	1,1,1,2-Tetrachloroethane	131	11.536	11.536	(1.136)	2382598	200.000	168.623
34	m,p-Xylene	106	11.639	11.613	(1.146)	9550627	400.000	405.003(A)
36	o-Xylene	106	12.061	12.062	(1.188)	5020852	200.000	217.754(A)
37	Styrene	104	12.089	12.062	(1.191)	6053451	200.000	157.262(A)
38	a-Pinene	93	12.336	12.336	(1.215)	5243544	200.000	165.428(A)
39	1,1,2,2-Tetrachloroethane-SPC	83	12.720	12.693	(1.253)	2980966	200.000	175.850
210	1,2,3-Trichloropropane	110	12.803	12.775	(1.261)	1074406	200.000	154.006
41	1,3,5-Trimethylbenzene	105	12.912	12.913	(1.272)	10824022	200.000	145.559(A)
42	1,2,4-Trimethylbenzene	105	13.253	13.253	(1.305)	9712568	200.000	156.459(A)
43	R-(+)-Limonene	68	13.470	13.470	(1.327)	4498916	200.000	251.884(A)
44	1,3-Dichlorobenzene	146	13.566	13.566	(1.336)	6192470	200.000	154.935
45	1,4-Dichlorobenzene	146	13.662	13.638	(1.346)	6247465	200.000	204.897
46	1,2-Dichlorobenzene	146	14.000	14.000	(1.379)	5790660	200.000	166.281
47	1,4-Dithiane	120	14.482	14.482	(1.426)	4322125	200.000	201.045
48	1,2,4-Trichlorobenzene	180	15.591	15.592	(1.536)	5445701	200.000	193.160
49	Naphthalene	128	15.905	15.905	(1.567)	18335838	200.000	187.636(A)
50	1,2,3-Trichlorobenzene	180	16.194	16.194	(1.595)	5219298	200.000	189.516

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd10.i
Lab File ID: 10042713sim.d
Lab Smp Id: 2595-224-500>200
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

Calibration Date: 27-APR-2015
Calibration Time: 11:01
Client Smp ID: Level 11
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	216118	108059	432236	214899	-0.56

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msd10.i/27Apr2015.b/10042713sim.d

Date : 27-APR-2015 12:37

Client ID: Level 11

Sample Info: ;2595-224-500>200;Level 11

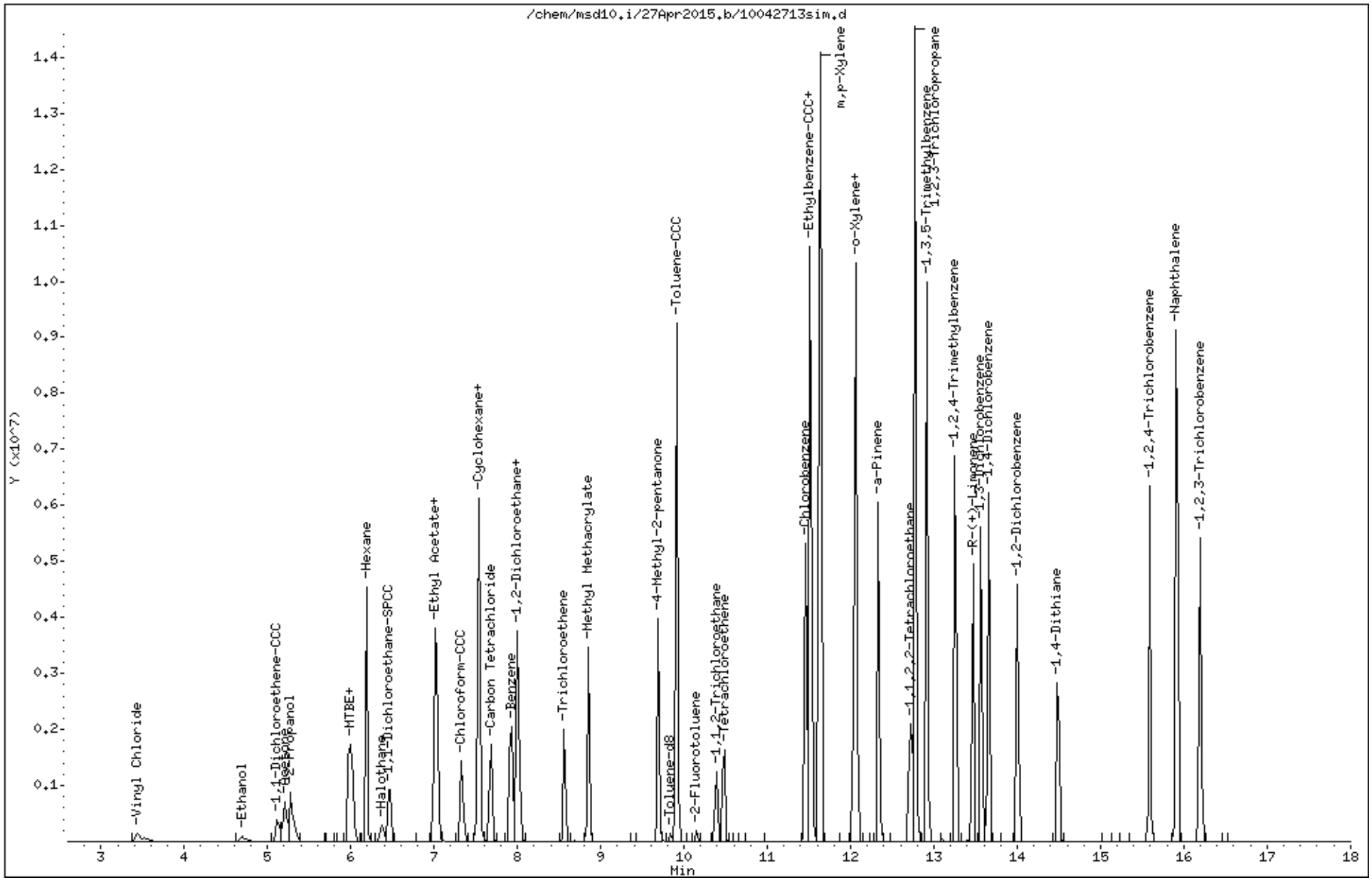
Volume Injected (uL): 1.0

Column phase: DB-5.625

Instrument: msd10.i

Operator: gm

Column diameter: 0.25



Instrument: MSD-10
Analysis: Passive SE GC/MS (Rad 130)
extraction Date: 12/17/14
Std. ID: 2595-199-5-0
(20µL Spiked)
Sample Final Volume: 20mL

Report Date : 18-Dec-2014 07:48

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd10.i/17Dec2014.b/104r1210.m/104r1210b.m
Batch File: /chem/msd10.i/17Dec2014.b
Inst ID: msd10.i

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07
FILENAME:	10121705sim	10121706sim	10121707sim	10121708sim	10121709sim	10121710sim	I0121711sim
INJ.DATE:	17-DEC-2014	17-DEC-2014	17-DEC-2014	17-DEC-2014	17-DEC-2014	17-DEC-2014	17-DEC-2014
INJ.TIME:	09:03	09:27	09:50	10:14	10:37	11:01	11:25

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	AVG CONC	STD DEV	MDL (ng)	MDL (ug)	RL (ug)	Amt. Spiked (ug)
1 Chloromethane	✓ 73.47	✓ 84.34	✓ 94.56	✓ 81.05	✓ 82.41	✓ 77.86	✓ 85.28	✓ 82.71	✓ 6.60	✓ 20.75	-0.02075	0.40	0.10
2 Vinyl Chloride	81.06	90.68	93.63	99.19	99.09	82.30	93.63	91.37	7.30	22.95	-0.02295	0.40	
3 Ethanol	66.04	66.83	67.27	91.42	86.99	56.54	67.56	71.81	12.55	39.45	-0.03945	1.0	
4 1,1-Dichloroethene-CCC	87.19	93.27	98.86	98.31	102.23	87.40	94.80	94.58	5.75	18.08	-0.01808	0.40	
5 Acetone	129.28	132.84	131.04	140.24	136.60	131.61	143.51	135.02	5.28	16.58	-0.01658	0.20	
6 2-Propanol	101.16	77.85	97.58	83.93	92.54	96.80	102.25	93.16	9.12	28.67	-0.02867	0.20	
7 MTBE	108.46	109.14	126.75	125.56	129.53	108.67	119.98	118.30	9.37	29.45	-0.02945	0.10	
8 trans-1,2-Dichloroethe	98.33	88.12	58.22	76.85	78.44	83.24	75.58	79.83	12.37	38.89	-0.03889	0.20	
9 Hexane	143.02	116.33	97.23	109.13	103.29	115.15	103.83	112.57	15.04	47.27	-0.04727	0.10	
10 Halothane	98.57	101.88	108.59	111.24	116.76	100.85	106.51	106.34	6.43	20.21	-0.02021		
11 1,1-Dichloroethane-SPC	97.26	112.09	122.70	113.30	114.17	111.06	105.20	110.83	7.92	24.88	-0.02488		
12 Ethyl Acetate	100.97	105.09	110.29	110.06	117.02	101.18	105.69	107.18	5.71	17.96	-0.01796		
13 2-Butanone	99.12	108.75	110.07	115.11	116.83	102.95	108.82	108.81	6.24	19.62	-0.01962		
14 cis-1,2-Dichloroethene	97.24	99.34	103.87	118.80	123.15	97.78	116.78	108.14	11.07	34.79	-0.03479		
15 Chloroform-CCC	118.14	118.85	115.18	125.63	125.76	128.01	127.91	122.78	5.25	16.50	-0.01650		
16 Cyclohexane	97.95	101.13	111.98	109.76	116.64	111.10	115.65	109.17	7.08	22.24	-0.02224		
17 1,1,1-Trichloroethane	95.23	101.86	115.25	111.68	116.71	103.55	105.13	107.06	7.79	24.50	-0.02450		

Reviewer 1 _____ Date: 12/18/14
Reviewer 2 _____ Date: 12/18/14

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd10.i/17Dec2014.b/104r1210.m/104r1210b.m
Batch File: /chem/msd10.i/17Dec2014.b
Inst ID: msd10.i

	Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	AVG CONC	STD DEV	MDL (ng)	MDL (ug)
	18 Carbon Tetrachloride	110.59	106.55	107.58	111.86	108.22	106.70	103.12	107.80	2.86	8.99	0.00899
	19 Benzene	202.81	202.93	171.15	224.68	213.48	207.64	199.47	203.16	16.47	51.78	0.05178
	20 1,2-Dichloroethane	115.91	122.88	101.09	132.29	128.65	123.59	116.34	120.11	10.28	32.32	0.03232
	21 Heptane	109.88	110.22	139.27	114.42	127.61	107.80	118.32	118.22	11.46	36.02	0.03602
	22 Trichloroethene	98.42	107.43	110.65	107.86	108.90	107.62	107.79	106.95	3.92	12.33	0.01233
	23 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	24 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	25 4-Methyl-2-pentanone	92.50	92.17	95.60	97.34	97.09	93.71	93.01	94.49	2.17	6.83	0.00683
$	26 Toluene-d8	10.18	10.28	10.33	10.27	10.31	10.33	10.32	10.29	0.05	0.17	-Sum
	27 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	28 Toluene-CCC	165.36	163.08	167.28	171.88	169.08	163.22	159.84	165.68	4.07	12.81	0.01281
*	29 2-Fluorotoluene	10000.00	10000.00	10000.00	10000.00	10000.00	10000.00	10000.00	10000.00	0.00	0.00	-IS
	30 1,1,2-Trichloroethane	98.96	102.37	108.96	112.05	108.25	103.66	102.44	105.24	4.60	14.47	-0.01447
	31 Tetrachloroethene	105.25	106.97	111.06	117.14	114.32	109.44	105.52	109.96	4.53	14.23	-0.01423
	32 Chlorobenzene	92.41	92.00	94.21	99.01	98.14	93.18	91.61	94.37	3.01	9.45	-0.00945
	33 Ethylbenzene-CCC	112.19	111.05	115.56	117.12	116.09	114.72	108.22	113.56	3.19	10.03	-0.01003
	209 1,1,1,2-Tetrachloroeth	99.94	99.54	103.55	107.41	103.94	99.93	99.40	101.96	3.08	9.67	-0.00967
	34 m,p-Xylene	240.94	239.81	250.30	258.67	249.20	243.32	233.66	245.13	8.24	25.89	-0.02589
	35 n-Butyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	36 o-Xylene	93.69	99.17	105.76	104.51	105.93	100.47	98.19	101.10	4.55	14.30	-0.01430
	37 Styrene	18.96	19.49	22.46	26.33	24.53	23.02	21.11	22.27	2.65	8.33	-0.00833
	38 a-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

RL (ug)
0.10
0.40
0.10
0.20
0.10

Anti. Spiked (ug)
0.10

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd10.i/17Dec2014.b/104r1210.m/104r1210b.m
Batch File: /chem/msd10.i/17Dec2014.b
Inst ID: msd10.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	AVG CONC	STD DEV	MDL (ng)	MDL (µg)
39 1,1,2,2-Tetrachloroeth	102.31	104.49	104.58	110.73	110.07	105.35	103.48	105.86	3.25	10.22	0.01022
40 Propylbenzene	97.33	97.48	103.34	106.41	102.42	100.70	98.76	100.92	3.36	10.56	0.01056
210 1,2,3-Trichloropropane	100.53	103.33	105.90	107.02	108.80	113.69	109.18	106.92	4.27	13.41	0.01341
41 1,3,5-Trimethylbenzene	108.40	108.87	106.51	115.96	112.54	110.28	108.52	110.16	3.16	9.95	0.00995
42 1,2,4-Trimethylbenzene	109.02	116.24	110.46	120.64	115.37	113.37	117.61	114.67	4.05	12.74	0.01274
43 R-(+)-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
44 1,3-Dichlorobenzene	85.11	87.72	85.91	92.29	94.07	89.02	84.96	88.44	3.58	11.26	0.01126
45 1,4-Dichlorobenzene	79.94	82.71	86.64	92.56	89.36	86.89	82.40	85.79	4.39	13.80	0.01380
46 1,2-Dichlorobenzene	75.94	77.73	77.76	85.72	82.19	79.97	76.95	79.47	3.45	10.85	0.01085
47 1,4-Dithiane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
48 1,2,4-Trichlorobenzene	63.52	66.90	65.96	72.03	72.60	71.75	65.67	68.35	3.68	11.58	0.01158
49 Naphthalene	8.26	7.13	6.68	8.02	7.73	7.31	6.71	7.41	0.62	1.95	0.00195
50 1,2,3-Trichlorobenzene	50.52	54.36	53.24	62.68	59.77	60.68	52.95	56.31	4.65	14.60	0.01460
51 2,2,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

RL (µg) 0.10

Amt. Spiked (µg) 0.10

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd10.i Injection Date: 27-APR-2015 11:01
Lab File ID: 10042709sima.d Init. Cal. Date(s): 27-APR-2015 27-APR-2015
Analysis Type: AIR Init. Cal. Times: 08:40 13:25
Lab Sample ID: 2595-224-5.0 Quant Type: ISTD
Method: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m

	COMPOUND	RRF / AMOUNT	RF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	1 Chloromethane	0.04126	0.04281	0.020	-3.76701	40.00000	Averaged
	2 Vinyl Chloride	0.07345	0.06707	0.050	8.68880	40.00000	Averaged
	3 Ethanol	0.04716	0.04381	0.030	7.10514	30.00000	Averaged
	4 1,1-Dichloroethene-CCC	0.09432	0.10460	0.050	-10.89574	30.00000	Averaged
	5 Acetone	0.07662	0.07761	0.040	-1.29734	30.00000	Averaged
	6 2-Propanol	0.21969	0.21512	0.050	2.07955	30.00000	Averaged
	7 MTBE	0.51416	0.44069	0.050	14.28883	30.00000	Averaged
	8 trans-1,2-Dichloroethene	0.14818	0.13401	0.050	9.56691	30.00000	Averaged
	9 Hexane	0.47477	0.43973	0.020	7.38050	30.00000	Averaged
	10 Halothane	0.09489	0.08790	0.050	7.36530	30.00000	Averaged
	11 1,1-Dichloroethane-SPCC	0.32186	0.28806	0.050	10.50056	20.00000	Averaged
	12 Ethyl Acetate	0.05132	0.04495	0.050	12.41860	30.00000	Averaged
	13 2-Butanone	0.11418	0.10045	0.050	12.02325	30.00000	Averaged
	14 cis-1,2-Dichloroethene	0.17761	0.16122	0.050	9.22674	20.00000	Averaged
	15 Chloroform-CCC	0.29234	0.25434	0.050	12.99822	20.00000	Averaged
	16 Cyclohexane	0.40480	0.34937	0.050	13.69239	30.00000	Averaged
	17 1,1,1-Trichloroethane	0.35413	0.30540	0.050	13.75982	20.00000	Averaged
	18 Carbon Tetrachloride	0.31606	0.30617	0.050	3.13112	20.00000	Averaged
	19 Benzene	0.80940	0.76366	0.050	5.65082	30.00000	Averaged
	20 1,2-Dichloroethane	0.34591	0.32634	0.050	5.65712	20.00000	Averaged
	21 Heptane	0.24056	0.20674	0.050	14.05714	20.00000	Averaged
	22 Trichloroethene	0.25448	0.22091	0.050	13.19044	20.00000	Averaged
	24 Methyl Methacrylate	0.26514	0.23952	0.050	9.66297	30.00000	Averaged
	25 4-Methyl-2-pentanone	0.11262	0.10484	0.050	6.91422	30.00000	Averaged
$	26 Toluene-d8	0.90348	0.90079	0.050	0.29763	30.00000	Averaged
	28 Toluene-CCC	0.76565	0.67561	0.050	11.75910	20.00000	Averaged
	30 1,1,2-Trichloroethane	0.25052	0.22353	0.050	10.77536	20.00000	Averaged
	31 Tetrachloroethene	0.24278	0.21443	0.050	11.67576	20.00000	Averaged
	32 Chlorobenzene	0.96125	0.84868	0.050	11.71172	20.00000	Averaged
	33 Ethylbenzene-CCC	0.52534	0.46668	0.050	11.16626	20.00000	Averaged
	209 1,1,1,2-Tetrachloroethane	0.32803	0.29248	0.050	10.83617	30.00000	Averaged
	34 m,p-Xylene	0.54956	0.49360	0.050	10.18211	20.00000	Averaged
	36 o-Xylene	0.53801	0.47200	0.050	12.27056	30.00000	Averaged
	37 Styrene	0.89763	0.83958	0.050	6.46693	30.00000	Averaged
	38 a-Pinene	0.74215	0.68103	0.050	8.23553	30.00000	Averaged
	39 1,1,2,2-Tetrachloroethane-S	0.39486	0.35354	0.050	10.46470	30.00000	Averaged

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd10.i Injection Date: 27-APR-2015 11:01
Lab File ID: 10042709sima.d Init. Cal. Date(s): 27-APR-2015 27-APR-2015
Analysis Type: AIR Init. Cal. Times: 08:40 13:25
Lab Sample ID: 2595-224-5.0 Quant Type: ISTD
Method: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m

COMPOUND	RRF / AMOUNT	RF5	MIN RRF	MIN %D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
40 Propylbenzene	1.41417	1.26747	0.050	10.37343	20.00000	Averaged
210 1,2,3-Trichloropropane	0.16147	0.14684	0.050	9.05847	30.00000	Averaged
41 1,3,5-Trimethylbenzene	1.73959	1.69712	0.050	2.44107	20.00000	Averaged
42 1,2,4-Trimethylbenzene	1.45146	1.38943	0.050	4.27418	20.00000	Averaged
43 R-(+)-Limonene	0.42311	0.37822	0.050	10.60896	30.00000	Averaged
44 1,3-Dichlorobenzene	0.92974	0.86548	0.050	6.91160	30.00000	Averaged
45 1,4-Dichlorobenzene	0.71175	0.63769	0.050	10.40435	30.00000	Averaged
46 1,2-Dichlorobenzene	0.81018	0.74088	0.050	8.55399	30.00000	Averaged
47 1,4-Dithiane	0.50275	0.46557	0.050	7.39475	30.00000	Averaged
48 1,2,4-Trichlorobenzene	0.65890	0.58111	0.050	11.80668	30.00000	Averaged
49 Naphthalene	2.28922	2.09743	0.050	8.37794	30.00000	Averaged
50 1,2,3-Trichlorobenzene	0.64330	0.57747	0.050	10.23338	30.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 8.99165
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msd10.i/27Apr2015.b/10042709sima.d
Lab Smp Id: 2595-224-5.0 Client Smp ID: CCV
Inj Date : 27-APR-2015 11:01
Operator : gm Inst ID: msd10.i
Smp Info : ;2595-224-5.0;Level 7
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Meth Date : 27-Apr-2015 13:49 gmash Quant Type: ISTD
Cal Date : 27-APR-2015 13:25 Cal File: 10042715sim.d
Als bottle: 9 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
1	Chloromethane	50	3.227	3.227	(0.318)	9253	5.00000	5.18835(M)
2	Vinyl Chloride	62	3.420	3.420	(0.337)	14494	5.00000	4.56556
3	Ethanol	45	4.696	4.696	(0.463)	9468	5.00000	4.64474
4	1,1-Dichloroethene-CCC	96	5.117	5.117	(0.504)	22605	5.00000	5.54479
5	Acetone	58	5.206	5.206	(0.513)	16773	5.00000	5.06487
6	2-Propanol	45	5.273	5.273	(0.519)	46491	5.00000	4.89602
7	MTBE	73	5.996	5.996	(0.591)	95241	5.00000	4.28556
8	trans-1,2-Dichloroethene	96	6.051	6.051	(0.596)	28961	5.00000	4.52165(H)
9	Hexane	57	6.216	6.216	(0.612)	95034	5.00000	4.63097
10	Halothane	117	6.377	6.377	(0.628)	18997	5.00000	4.63174
11	1,1-Dichloroethane-SPCC	63	6.474	6.474	(0.638)	62255	5.00000	4.47497
12	Ethyl Acetate	70	7.013	7.013	(0.691)	9714	5.00000	4.37907
13	2-Butanone	72	7.036	7.036	(0.693)	21709	5.00000	4.39884
14	cis-1,2-Dichloroethene	96	7.058	7.058	(0.695)	34843	5.00000	4.53866
15	Chloroform-CCC	83	7.352	7.352	(0.724)	54967	5.00000	4.35009
16	Cyclohexane	84	7.537	7.537	(0.742)	75506	5.00000	4.31538

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
17	1,1,1-Trichloroethane	97	7.537	7.537	(0.742)	66003	5.00000	4.31201
18	Carbon Tetrachloride	117	7.691	7.691	(0.758)	66168	5.00000	4.84344
19	Benzene	78	7.938	7.938	(0.782)	165041	5.00000	4.71746
20	1,2-Dichloroethane	62	7.999	7.999	(0.788)	70528	5.00000	4.71714
21	Heptane	71	8.030	8.030	(0.791)	44681	5.00000	4.29714
22	Trichloroethene	130	8.562	8.562	(0.843)	47743	5.00000	4.34048
24	Methyl Methacrylate	69	8.851	8.851	(0.872)	51764	5.00000	4.51685
25	4-Methyl-2-pentanone	85	9.695	9.695	(0.955)	22657	5.00000	4.65429
$ 26	Toluene-d8	98	9.839	9.839	(0.969)	194677	5.00000	4.98512
28	Toluene-CCC	92	9.912	9.912	(0.976)	146012	5.00000	4.41204
* 29	2-Fluorotoluene	109	10.153	10.153	(1.000)	216118	5.00000	
30	1,1,2-Trichloroethane	97	10.370	10.370	(1.021)	48308	5.00000	4.46123
31	Tetrachloroethene	164	10.466	10.466	(1.031)	46343	5.00000	4.41621
32	Chlorobenzene	112	11.459	11.459	(1.129)	183414	5.00000	4.41441
33	Ethylbenzene-CCC	106	11.510	11.510	(1.134)	100857	5.00000	4.44169
209	1,1,1,2-Tetrachloroethane	131	11.536	11.536	(1.136)	63211	5.00000	4.45819
34	m,p-Xylene	106	11.613	11.613	(1.144)	213353	10.0000	8.98179
36	o-Xylene	106	12.062	12.062	(1.188)	102007	5.00000	4.38647
37	Styrene	104	12.062	12.062	(1.188)	181449	5.00000	4.67665
38	a-Pinene	93	12.336	12.336	(1.215)	147183	5.00000	4.58822
39	1,1,2,2-Tetrachloroethane-SPC	83	12.693	12.693	(1.250)	76406	5.00000	4.47676
40	Propylbenzene	91	12.748	12.748	(1.256)	273923	5.00000	4.48133
210	1,2,3-Trichloropropane	110	12.775	12.775	(1.258)	31735	5.00000	4.54708
41	1,3,5-Trimethylbenzene	105	12.913	12.913	(1.272)	366779	5.00000	4.87795
42	1,2,4-Trimethylbenzene	105	13.253	13.253	(1.305)	300280	5.00000	4.78629
43	R-(+)-Limonene	68	13.470	13.470	(1.327)	81740	5.00000	4.46955
44	1,3-Dichlorobenzene	146	13.566	13.566	(1.336)	187046	5.00000	4.65442
45	1,4-Dichlorobenzene	146	13.638	13.638	(1.343)	137817	5.00000	4.47978
46	1,2-Dichlorobenzene	146	14.000	14.000	(1.379)	160117	5.00000	4.57230
47	1,4-Dithiane	120	14.482	14.482	(1.426)	100618	5.00000	4.63026
48	1,2,4-Trichlorobenzene	180	15.592	15.592	(1.536)	125588	5.00000	4.40966
49	Naphthalene	128	15.905	15.905	(1.567)	453293	5.00000	4.58110
50	1,2,3-Trichlorobenzene	180	16.194	16.194	(1.595)	124802	5.00000	4.48833

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd10.i
Lab File ID: 10042709sima.d
Lab Smp Id: 2595-224-5.0
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

Calibration Date: 27-APR-2015
Calibration Time: 11:01
Client Smp ID: CCV
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	216118	108059	432236	216118	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msd10.i/27Apr2015.b/10042709sima.d

Date : 27-APR-2015 11:01

Client ID: CCV

Instrument: msd10.i

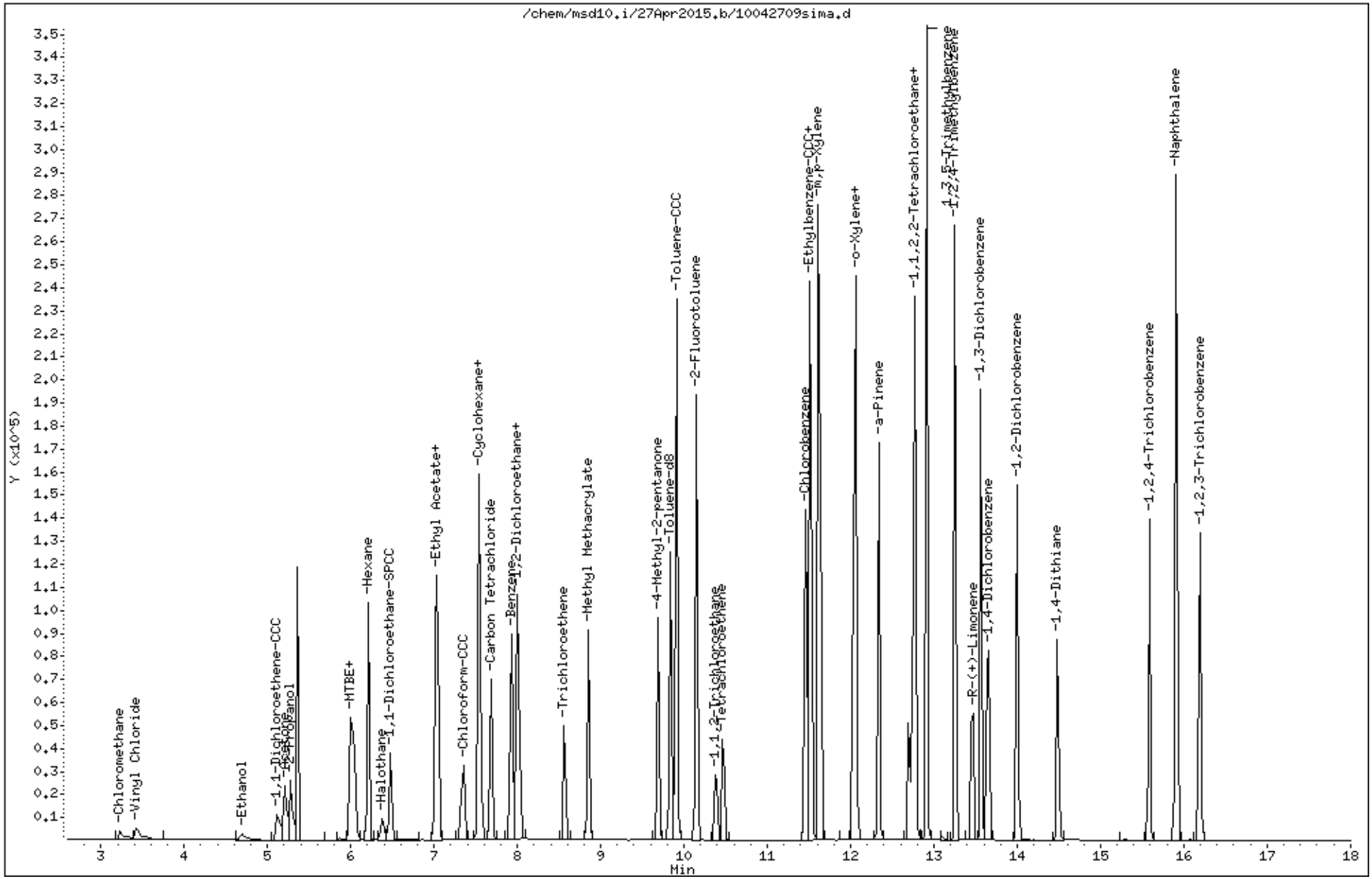
Sample Info: ;2595-224-5.0;Level 7

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



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Client Sample ID: LCS

Lab ID#: 1504459R1-07A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**10042722sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/27/15 04:13 PM**	
		Date of Extraction: 4/27/15	

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	84	70-130
Benzene	88	70-130
1,2-Dichloroethane	84	70-130
Trichloroethene	86	70-130
Toluene	90	70-130
Tetrachloroethene	90	70-130
Ethyl Benzene	98	70-130
m,p-Xylene	92	70-130
o-Xylene	86	70-130
Naphthalene	9.3	5-80
1,1-Dichloroethane	80	70-130
1,1-Dichloroethene	68 Q	70-130
cis-1,2-Dichloroethene	80	70-130
trans-1,2-Dichloroethene	90	70-130
1,1,2-Trichloroethane	89	70-130
1,2,4-Trimethylbenzene	94	70-130
1,3,5-Trimethylbenzene	100	70-130
Vinyl Chloride	51	50-140

Q = Exceeds Quality Control limits.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 27Apr2015
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 1504283/459 Client Smp ID: LCS
Level: MED Operator: gm
Data Type: MS DATA SampleType: LCS
SpikeList File: RadLCS-CM.spk Quant Type: ISTD
Sublist File: all-cm.sub
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

	SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2	Vinyl Chloride	10.0000	5.11850	51.19	50-140
3	Ethanol	10.0000	4.54969	45.50*	50-130
4	1,1-Dichloroethene	10.0000	6.84620	68.46*	70-130
5	Acetone	10.0000	4.77562	47.76*	70-130
6	2-Propanol	10.0000	5.77826	57.78	50-130
7	MTBE	10.0000	7.74232	77.42	70-130
8	trans-1,2-Dichloro	10.0000	9.01951	90.20	70-130
9	Hexane	10.0000	6.84779	68.48*	70-130
10	Halothane	10.0000	7.75831	77.58	70-130
11	1,1-Dichloroethane	10.0000	7.95569	79.56	70-130
12	Ethyl Acetate	10.0000	7.93401	79.34	70-130
13	2-Butanone	10.0000	7.65890	76.59	70-130
14	cis-1,2-Dichloroet	10.0000	8.00944	80.09	70-130
15	Chloroform-CCC	10.0000	7.80142	78.01	70-130
16	Cyclohexane	10.0000	9.27795	92.78	70-130
17	1,1,1-Trichloroeth	10.0000	8.38548	83.85	70-130
18	Carbon Tetrachlori	10.0000	8.94906	89.49	70-130
19	Benzene	10.0000	8.78254	87.83	70-130
20	1,2-Dichloroethane	10.0000	8.36536	83.65	70-130
21	Heptane	10.0000	9.36393	93.64	70-130
22	Trichloroethene	10.0000	8.60263	86.03	70-130
24	Methyl Methacrylat	10.0000	8.74583	87.46	70-130
25	4-Methyl-2-pentano	10.0000	9.49657	94.97	70-130
28	Toluene-CCC	10.0000	8.96590	89.66	70-130
30	1,1,2-Trichloroeth	10.0000	8.91486	89.15	70-130
31	Tetrachloroethene	10.0000	9.01468	90.15	70-130
32	Chlorobenzene	10.0000	8.44831	84.48	70-130
33	Ethylbenzene-CCC	10.0000	9.82448	98.24	70-130
209	1,1,1,2-Tetrachlor	10.0000	9.62868	96.29	70-130
34	m,p-Xylene	20.0000	18.4410	92.21	70-130
36	o-Xylene	10.0000	8.62050	86.20	70-130
37	Styrene	10.0000	5.39151	53.92	20-100
38	a-Pinene	10.0000	11.4706	114.71	70-130

	SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
39	1,1,2,2-Tetrachlor	10.0000	8.37351	83.74	70-130
40	Propylbenzene	10.0000	9.02976	90.30	70-130
210	1,2,3-Trichloropro	10.0000	8.58096	85.81	70-130
41	1,3,5-Trimethylben	10.0000	9.99074	99.91	70-130
42	1,2,4-Trimethylben	10.0000	9.41148	94.11	70-130
43	R-(+)-Limonene	10.0000	9.83110	98.31	70-130
44	1,3-Dichlorobenzen	10.0000	7.95040	79.50	50-110
45	1,4-Dichlorobenzen	10.0000	7.54206	75.42	50-110
46	1,2-Dichlorobenzen	10.0000	7.03991	70.40	50-110
47	1,4-Dithiane	10.0000	8.63157	86.32	50-110
48	1,2,4-Trichloroben	10.0000	5.99078	59.91	20-110
49	Naphthalene	10.0000	0.929912	9.30	5-80
50	1,2,3-Trichloroben	10.0000	4.93620	49.36	20-110

	SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 26	Toluene-d8	10.0000	10.2450	102.45	70-130

Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msd10.i/27Apr2015.b/10042722sim.d
Lab Smp Id: 1504283/459 Client Smp ID: LCS
Inj Date : 27-APR-2015 16:13
Operator : gm Inst ID: msd10.i
Smp Info : ;1504283/459;LCS
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Meth Date : 27-Apr-2015 14:05 gmash Quant Type: ISTD
Cal Date : 27-APR-2015 11:01 Cal File: 10042709sim.d
Als bottle: 21 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all-cm.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug)
2 Vinyl Chloride	62	3.420	3.420	(0.337)	9048	2.55925	5.11850
3 Ethanol	45	4.696	4.696	(0.463)	5164	2.27485	4.54969(R)
4 1,1-Dichloroethene-CCC	96	5.117	5.117	(0.504)	15542	3.42310	6.84620(R)
5 Acetone	58	5.206	5.206	(0.513)	8806	2.38781	4.77562(R)
6 2-Propanol	45	5.273	5.273	(0.519)	30553	2.88913	5.77826
7 MTBE	73	5.996	5.996	(0.591)	95814	3.87116	7.74232
8 trans-1,2-Dichloroethene	96	6.051	6.051	(0.596)	32169	4.50976	9.01951
9 Hexane	57	6.216	6.216	(0.612)	78252	3.42390	6.84779(R)
10 Halothane	117	6.377	6.377	(0.628)	17719	3.87915	7.75831
11 1,1-Dichloroethane-SPCC	63	6.474	6.474	(0.638)	61631	3.97785	7.95569
12 Ethyl Acetate	70	7.013	7.013	(0.691)	9800	3.96701	7.93401
13 2-Butanone	72	7.036	7.036	(0.693)	21048	3.82945	7.65890
14 cis-1,2-Dichloroethene	96	7.058	7.058	(0.695)	34239	4.00472	8.00944
15 Chloroform-CCC	83	7.321	7.352	(0.721)	54893	3.90071	7.80142
16 Cyclohexane	84	7.537	7.537	(0.742)	90397	4.63897	9.27795
17 1,1,1-Trichloroethane	97	7.537	7.537	(0.742)	71475	4.19274	8.38548

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug)
	18 Carbon Tetrachloride	117	7.691	7.691	(0.758)	68079	4.47453	8.94906
	19 Benzene	78	7.938	7.938	(0.782)	171099	4.39127	8.78254
	20 1,2-Dichloroethane	62	7.999	7.999	(0.788)	69648	4.18268	8.36536
	21 Heptane	71	8.030	8.030	(0.791)	54218	4.68196	9.36393
	22 Trichloroethene	130	8.562	8.562	(0.843)	52692	4.30132	8.60263
	24 Methyl Methacrylate	69	8.851	8.851	(0.872)	55813	4.37292	8.74583
	25 4-Methyl-2-pentanone	85	9.695	9.695	(0.955)	25743	4.74829	9.49657
$	26 Toluene-d8	98	9.839	9.839	(0.969)	222789	5.12249	10.2450
	28 Toluene-CCC	92	9.912	9.912	(0.976)	165228	4.48295	8.96590
*	29 2-Fluorotoluene	109	10.153	10.153	(1.000)	240693	5.00000	
	30 1,1,2-Trichloroethane	97	10.394	10.370	(1.024)	53755	4.45743	8.91486
	31 Tetrachloroethene	164	10.466	10.466	(1.031)	52677	4.50734	9.01468
	32 Chlorobenzene	112	11.459	11.459	(1.129)	195466	4.22416	8.44831
	33 Ethylbenzene-CCC	106	11.510	11.510	(1.134)	124225	4.91224	9.82448
	209 1,1,1,2-Tetrachloroethane	131	11.536	11.536	(1.136)	76022	4.81434	9.62868
	34 m,p-Xylene	106	11.639	11.613	(1.146)	243929	9.22052	18.4410
	36 o-Xylene	106	12.062	12.062	(1.188)	111632	4.31025	8.62050
	37 Styrene	104	12.062	12.062	(1.188)	116486	2.69576	5.39151
	38 a-Pinene	93	12.336	12.336	(1.215)	204899	5.73528	11.4706
	39 1,1,2,2-Tetrachloroethane-SPC	83	12.693	12.693	(1.250)	79581	4.18676	8.37351
	40 Propylbenzene	91	12.775	12.748	(1.258)	307355	4.51488	9.02976
	210 1,2,3-Trichloropropane	110	12.775	12.775	(1.258)	33349	4.29048	8.58096
	41 1,3,5-Trimethylbenzene	105	12.913	12.913	(1.272)	418320	4.99537	9.99074
	42 1,2,4-Trimethylbenzene	105	13.253	13.253	(1.305)	328797	4.70574	9.41148
	43 R-(+)-Limonene	68	13.470	13.470	(1.327)	100118	4.91555	9.83110
	44 1,3-Dichlorobenzene	146	13.566	13.566	(1.336)	177916	3.97520	7.95040
	45 1,4-Dichlorobenzene	146	13.663	13.638	(1.346)	129205	3.77103	7.54206
	46 1,2-Dichlorobenzene	146	14.000	14.000	(1.379)	137281	3.51996	7.03991
	47 1,4-Dithiane	120	14.482	14.482	(1.426)	104448	4.31578	8.63157
	48 1,2,4-Trichlorobenzene	180	15.592	15.592	(1.536)	95010	2.99539	5.99078
	49 Naphthalene	128	15.905	15.905	(1.567)	51238	0.46496	0.929912
	50 1,2,3-Trichlorobenzene	180	16.194	16.194	(1.595)	76431	2.46810	4.93620

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd10.i
Lab File ID: 10042722sim.d
Lab Smp Id: 1504283/459
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

Calibration Date: 27-APR-2015
Calibration Time: 11:01
Client Smp ID: LCS
Level: MED
Sample Type: AIR

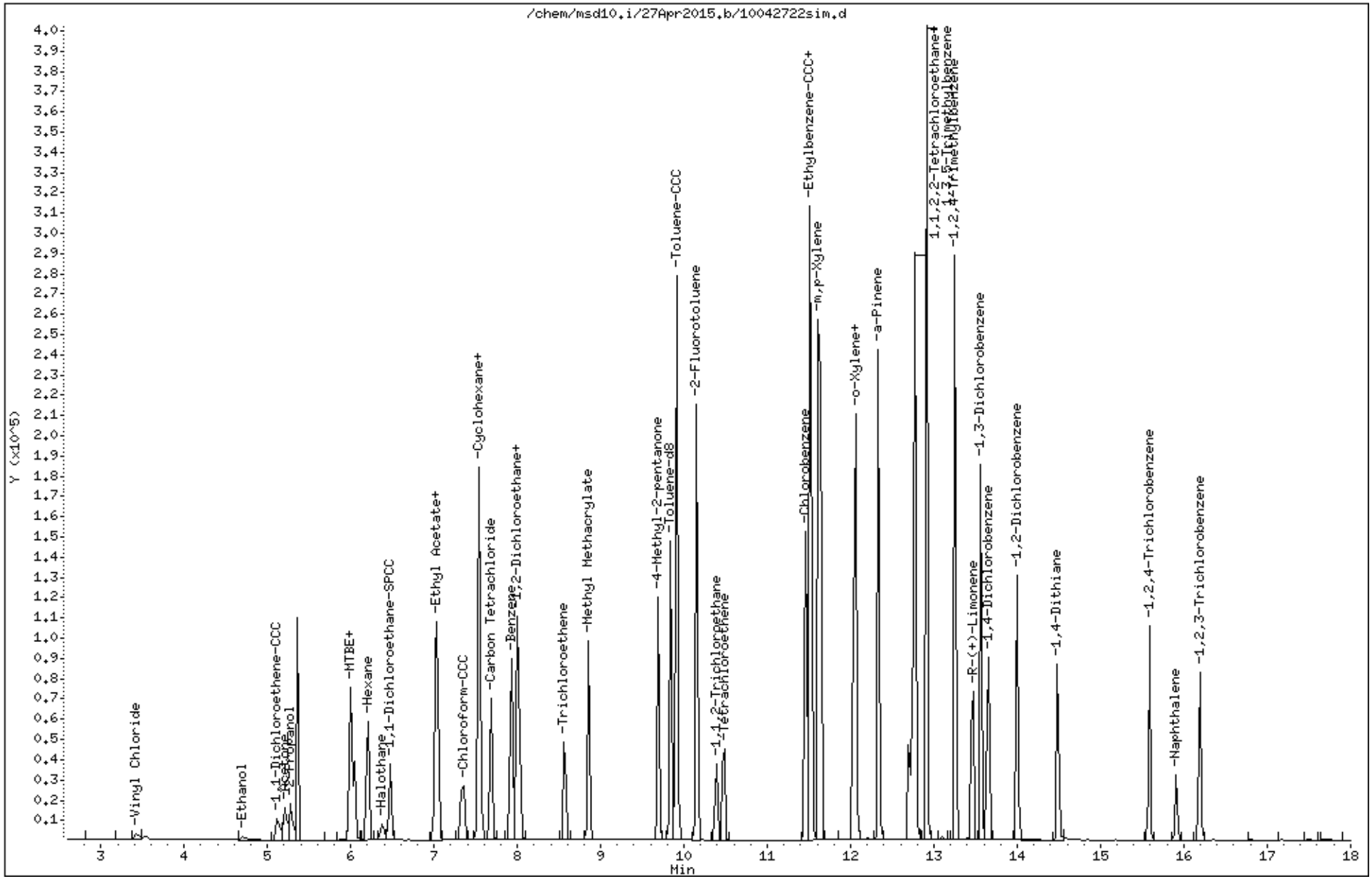
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	216118	108059	432236	240693	11.37

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d
Date : 27-APR-2015 16:13
Client ID: LCS
Sample Info: ;1504283/459;LCS
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msd10.i
Operator: gm
Column diameter: 0.25



Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

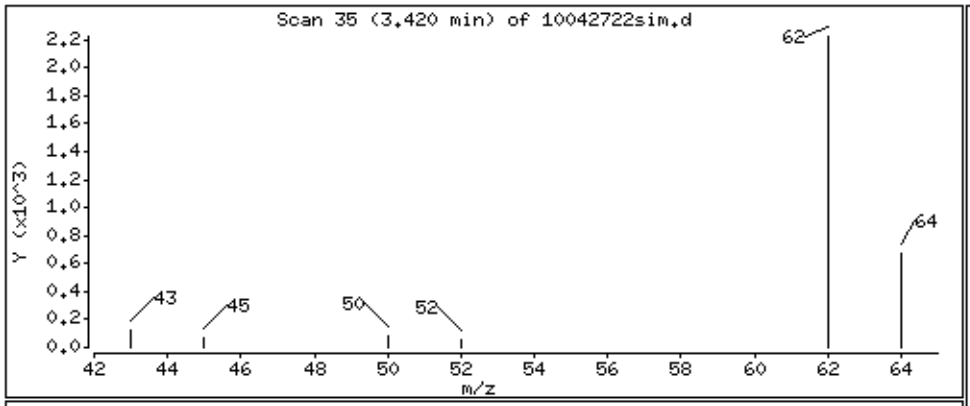
Operator: gm

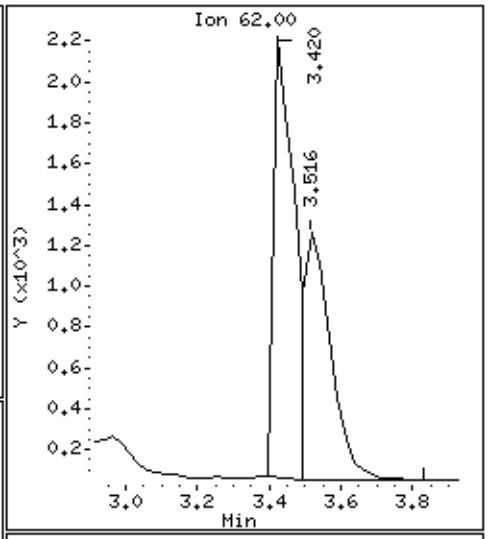
Column phase: DB-5.625

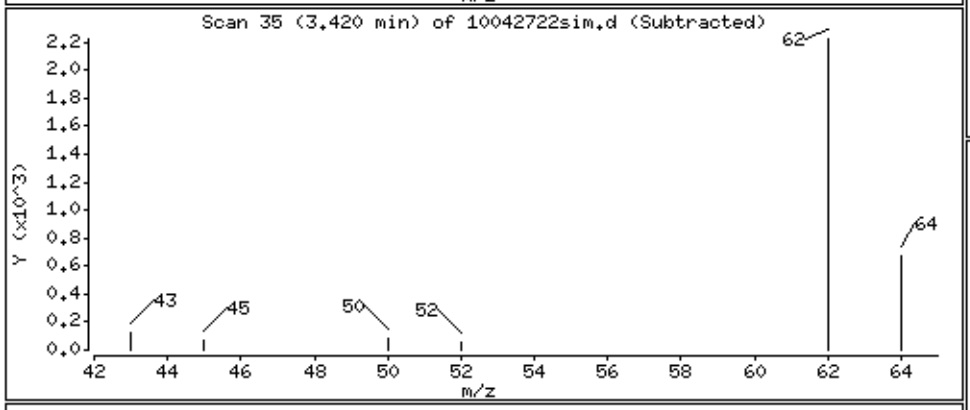
Column diameter: 0.25

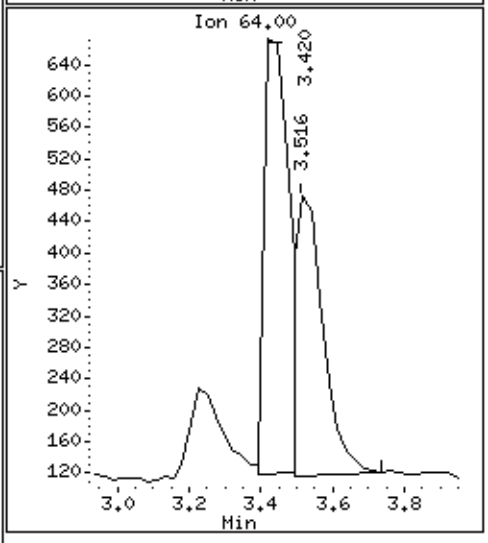
2 Vinyl Chloride

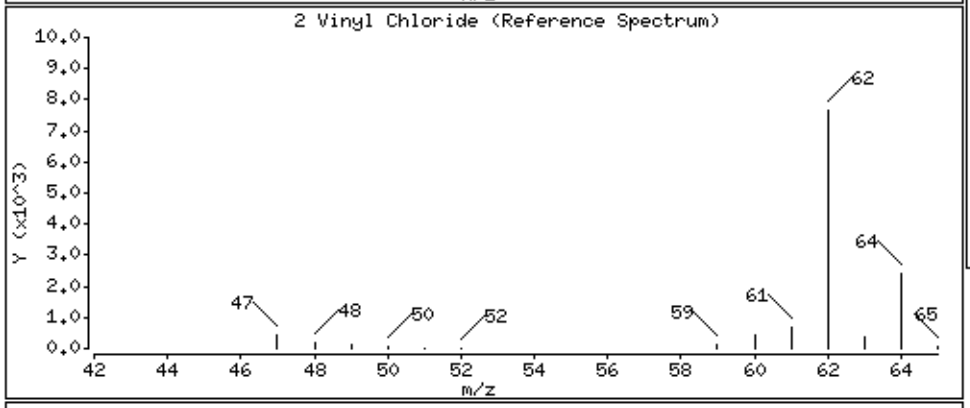
Concentration: 5.11850 ug

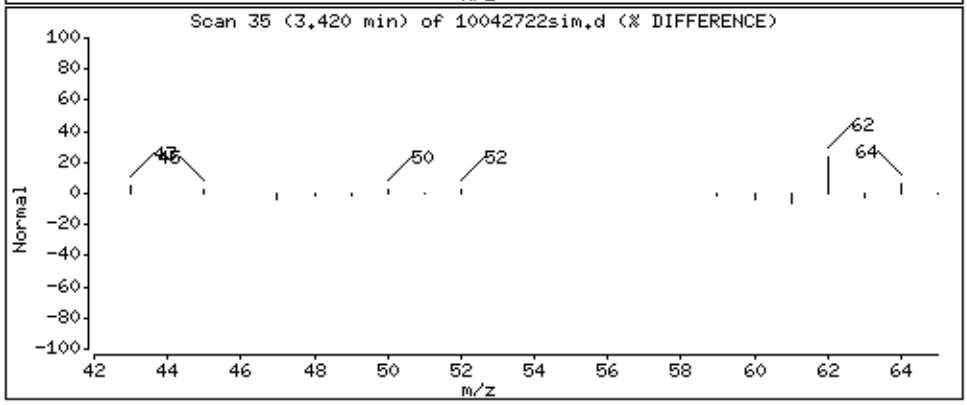












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

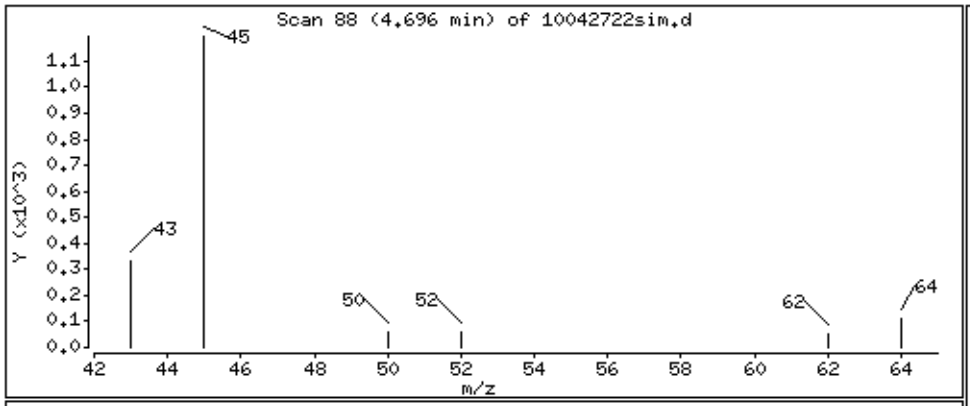
Operator: gm

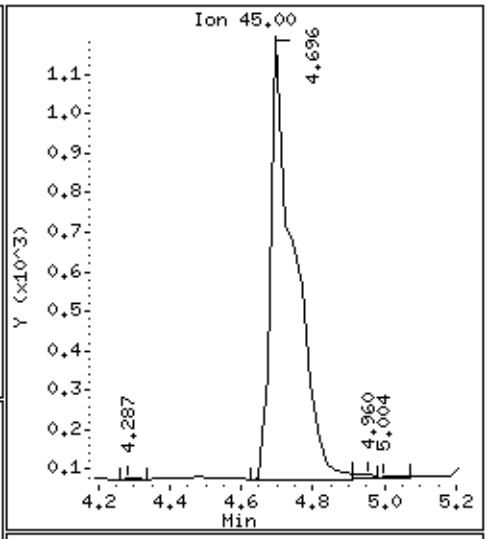
Column phase: DB-5.625

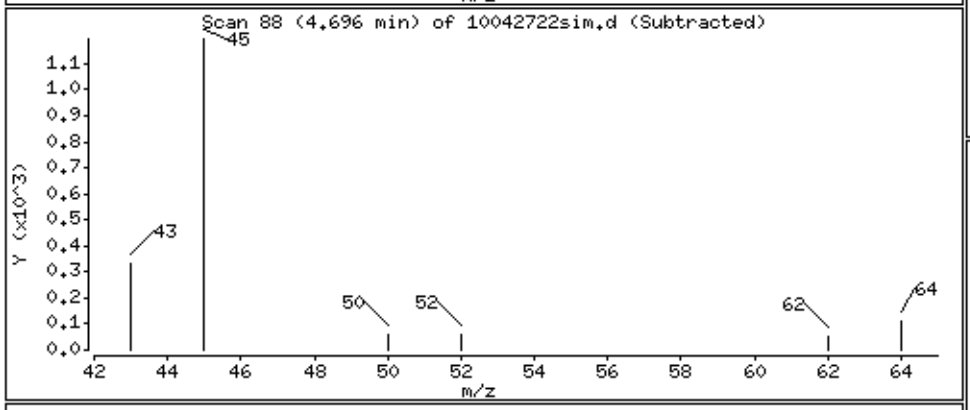
Column diameter: 0.25

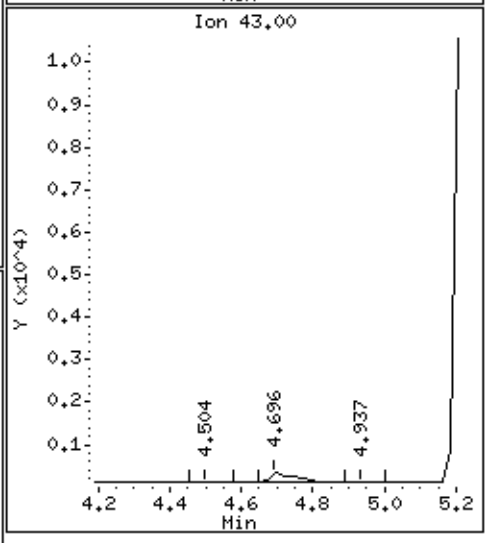
3 Ethanol

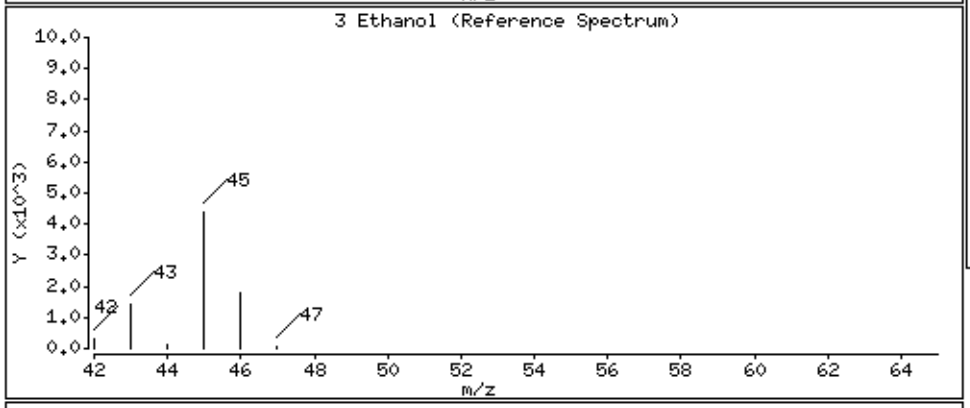
Concentration: 4.54969 ug

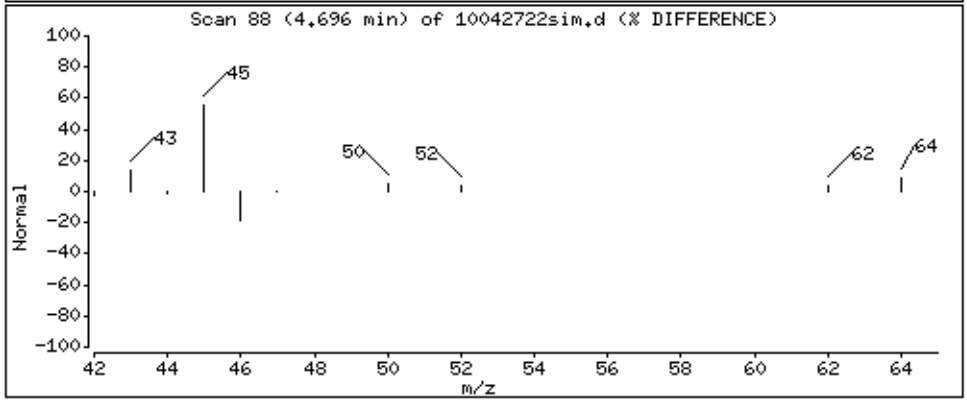












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

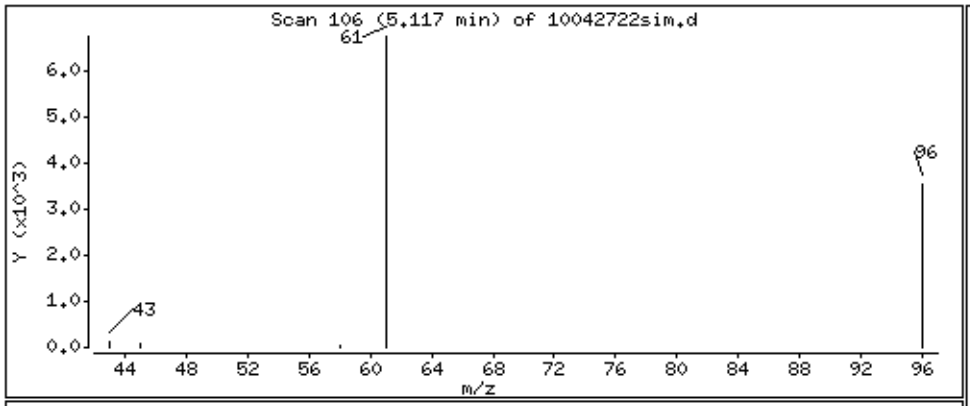
Operator: gm

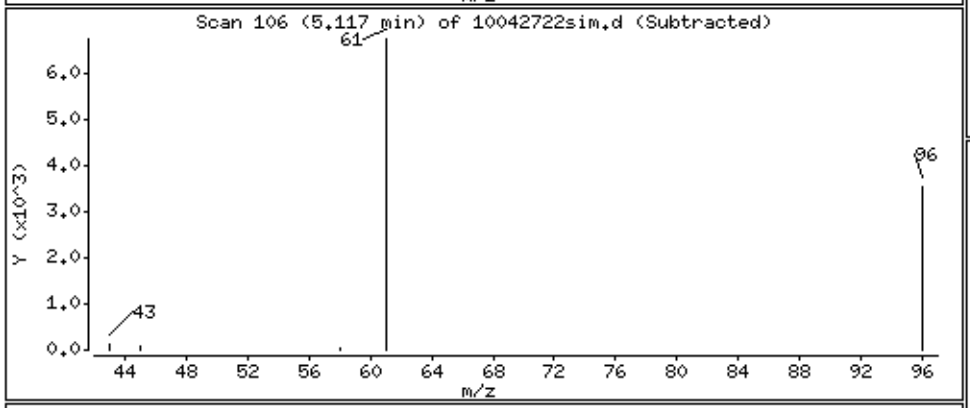
Column phase: DB-5.625

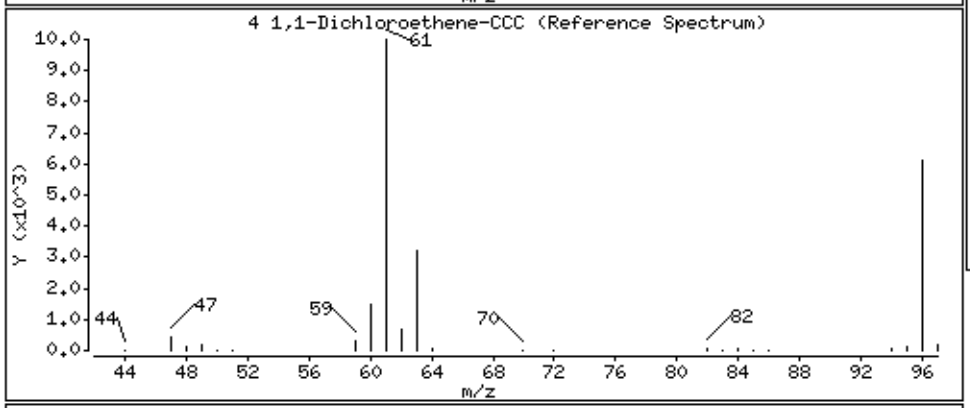
Column diameter: 0.25

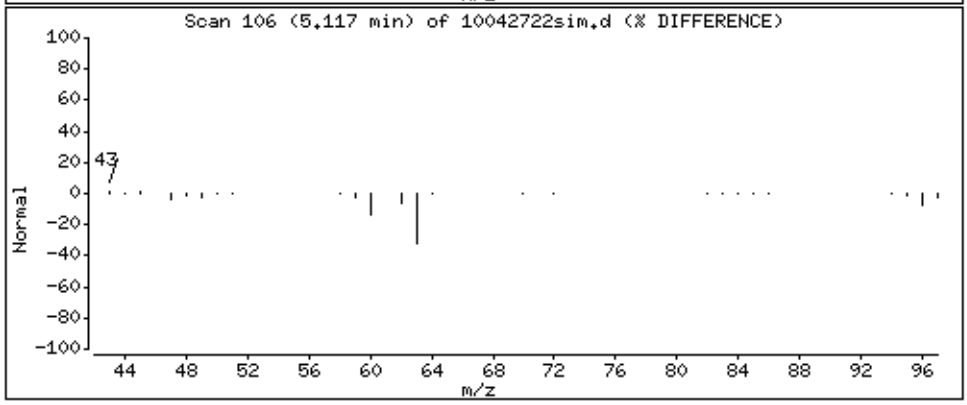
4 1,1-Dichloroethene-CCC

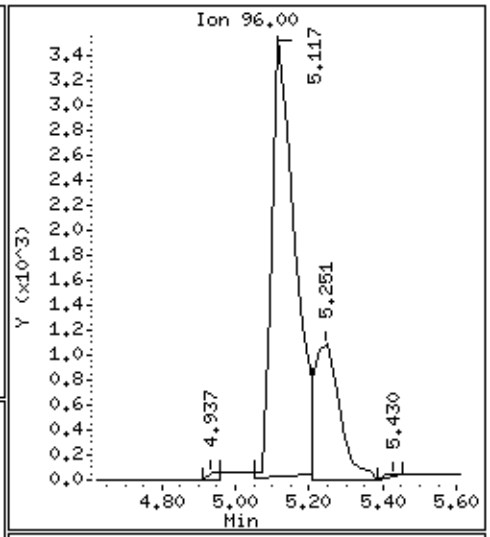
Concentration: 6.84620 ug

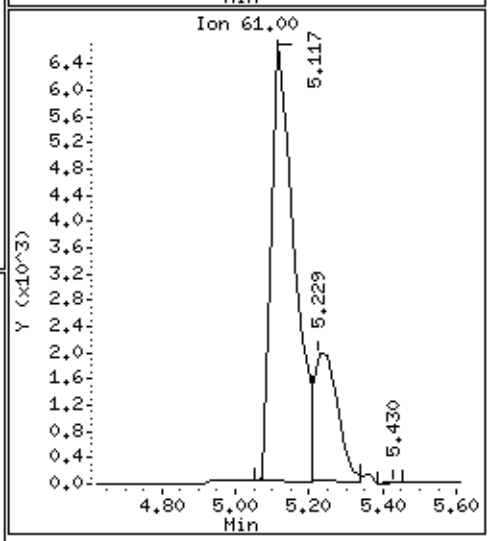












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

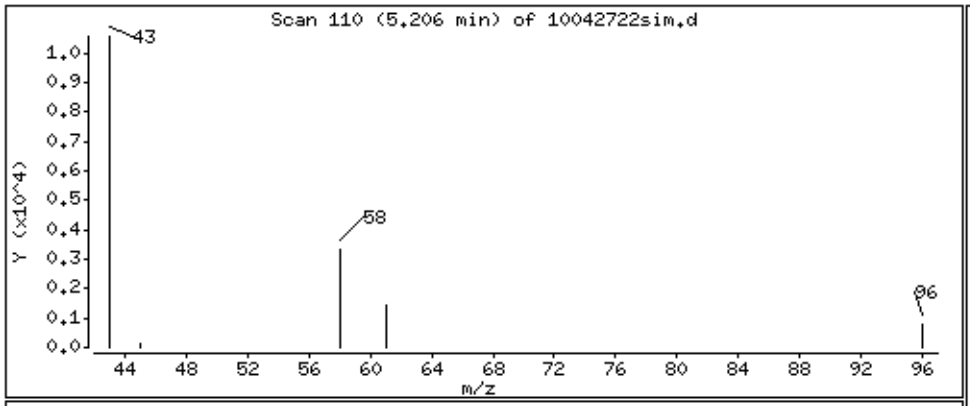
Operator: gm

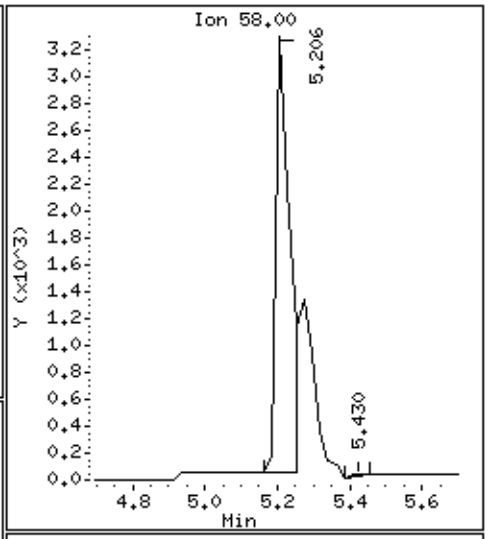
Column phase: DB-5.625

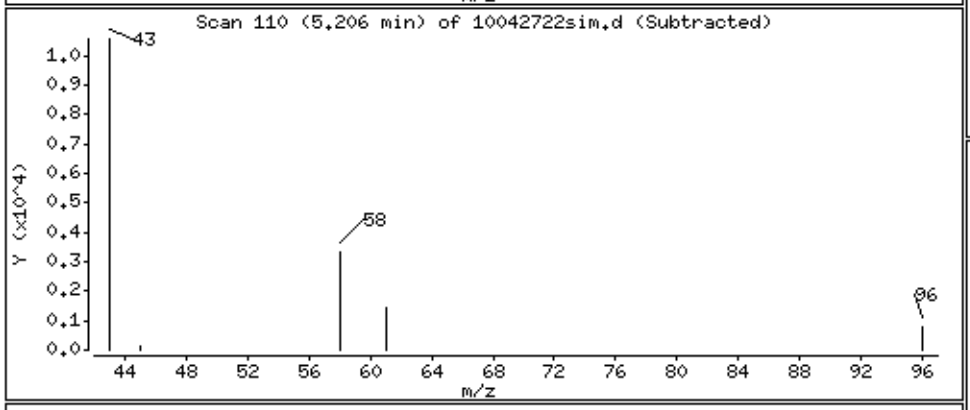
Column diameter: 0.25

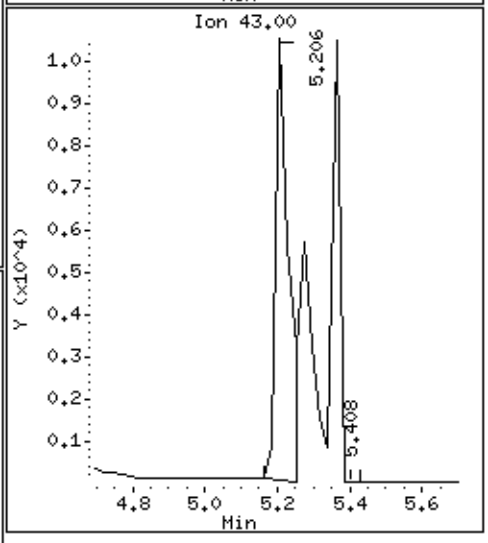
5 Acetone

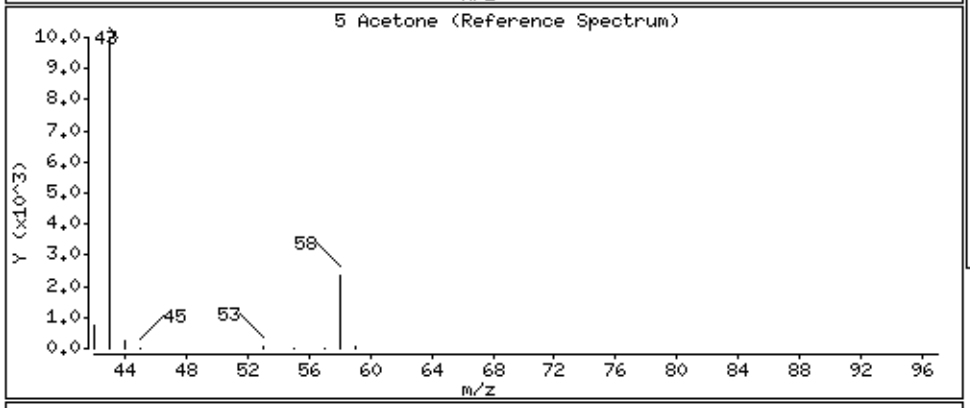
Concentration: 4.77562 ug

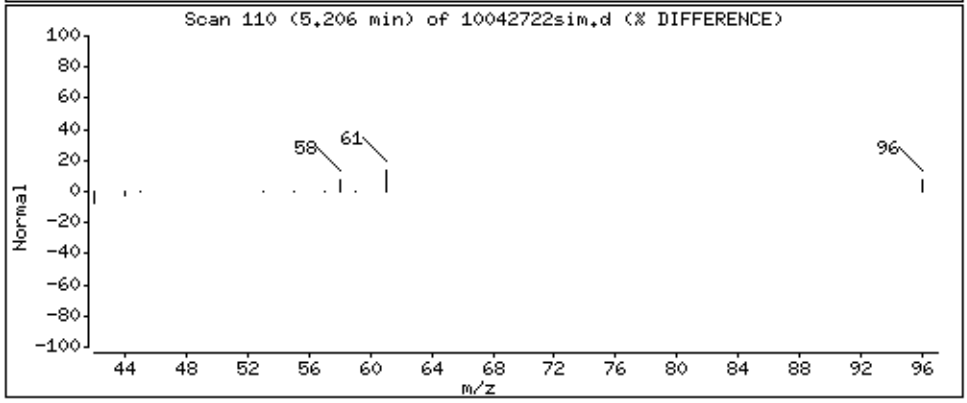












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

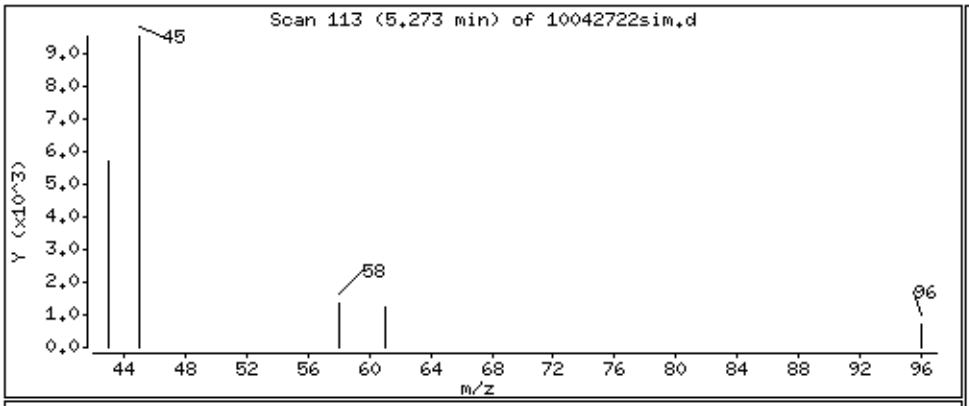
Operator: gm

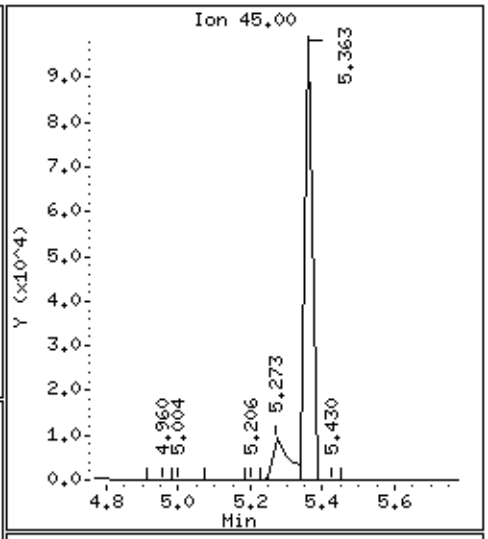
Column phase: DB-5.625

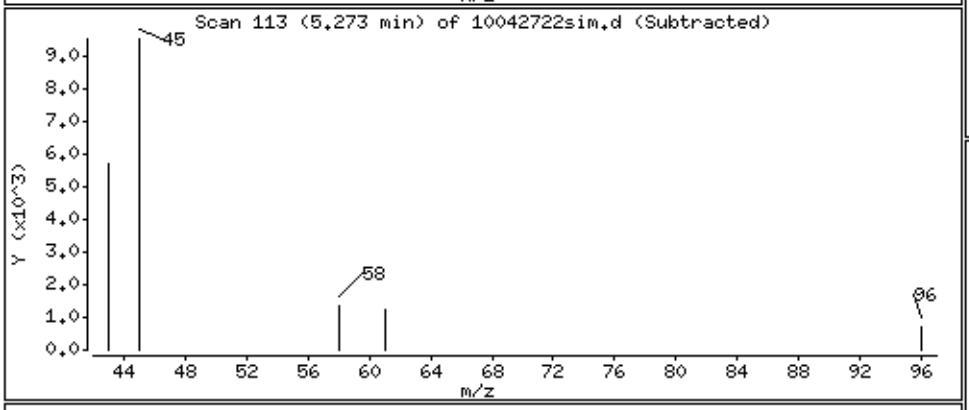
Column diameter: 0.25

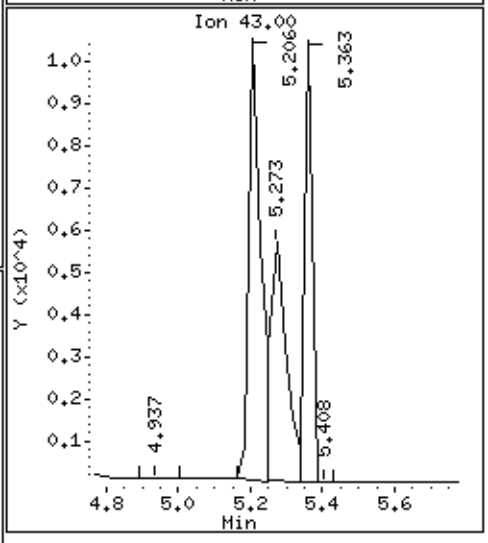
6 2-Propanol

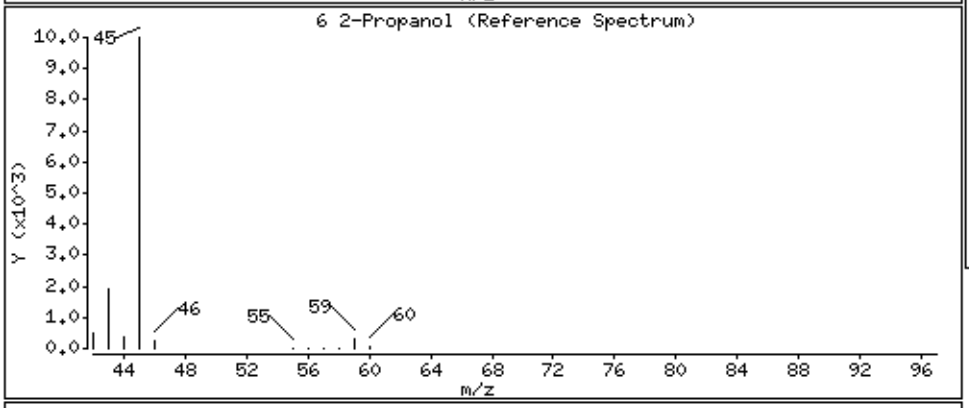
Concentration: 5.77826 ug

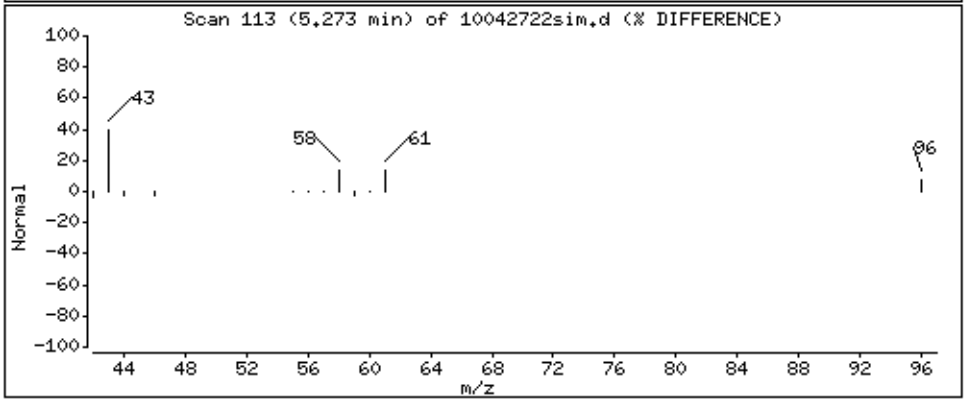












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

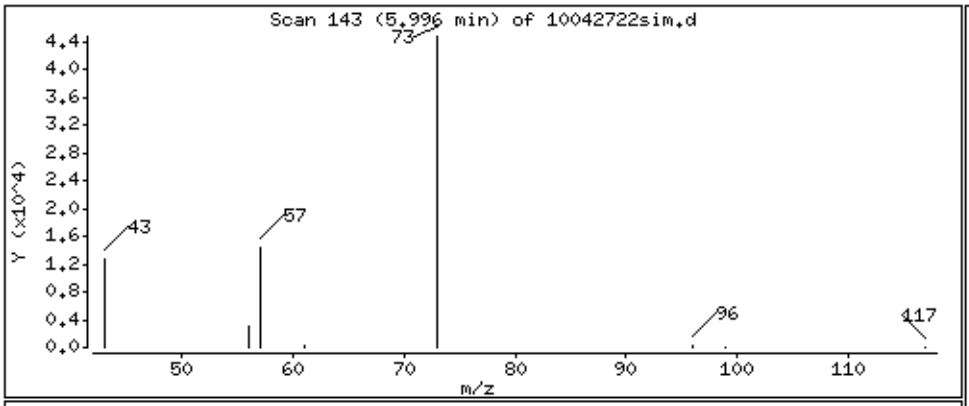
Operator: gm

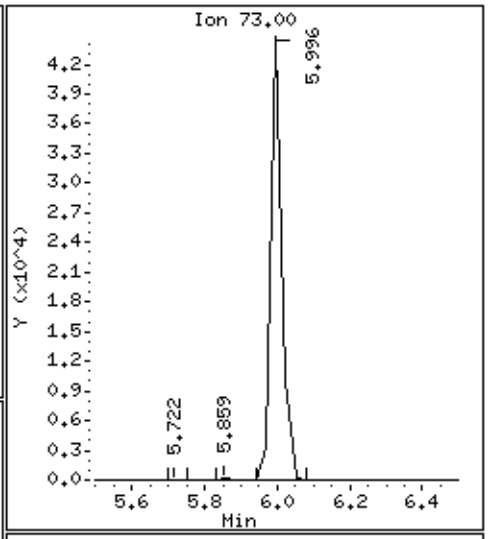
Column phase: DB-5.625

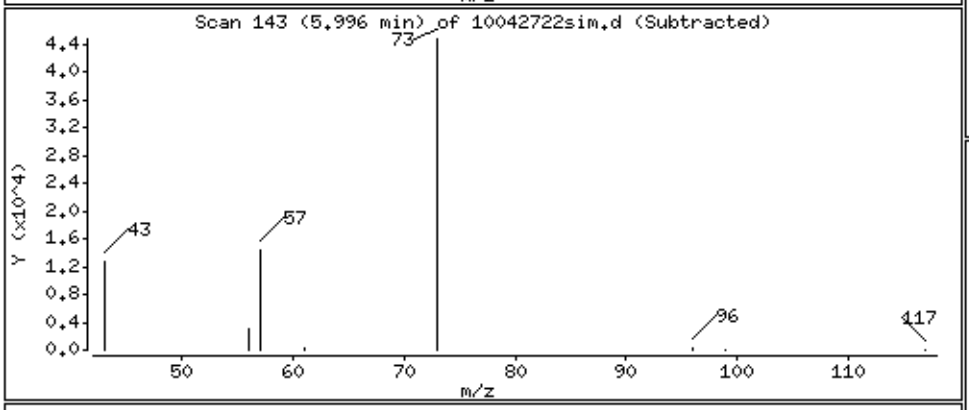
Column diameter: 0.25

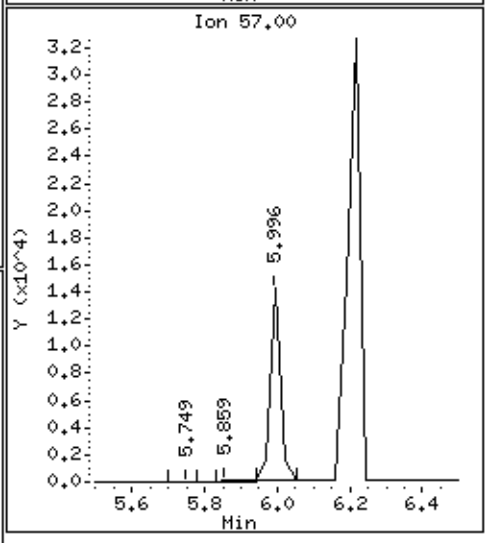
7 MTBE

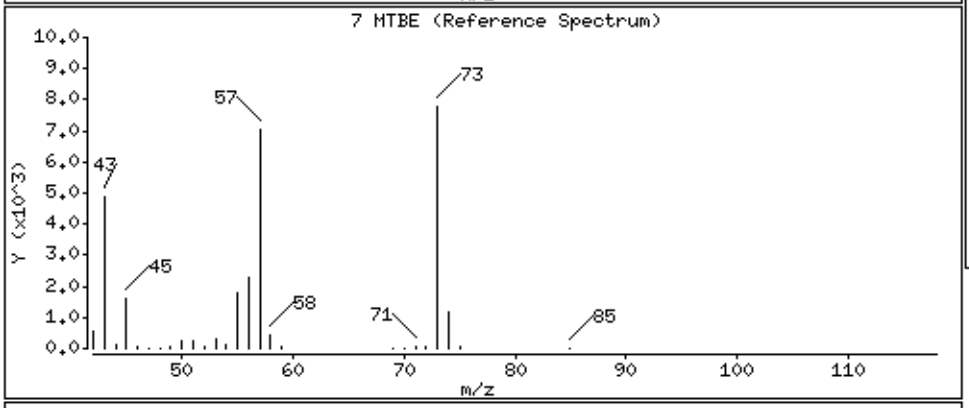
Concentration: 7.74232 ug

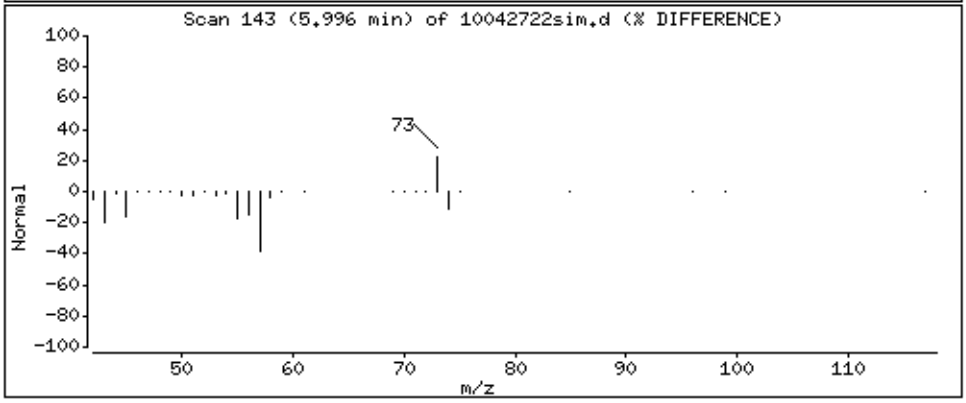












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

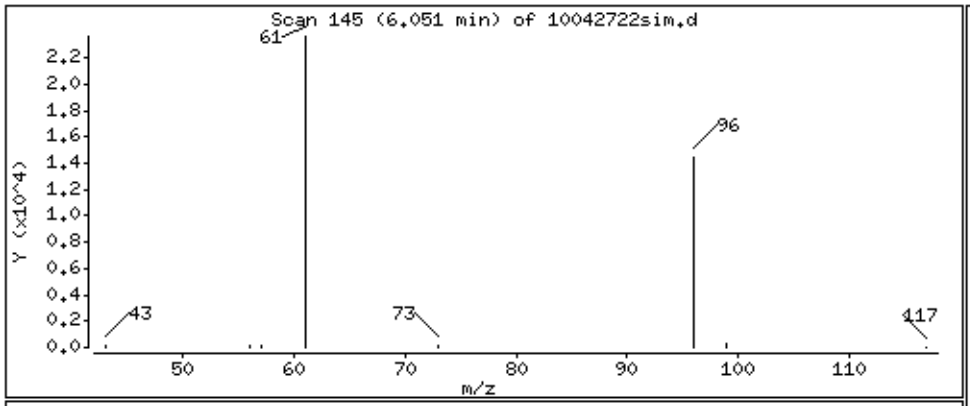
Operator: gm

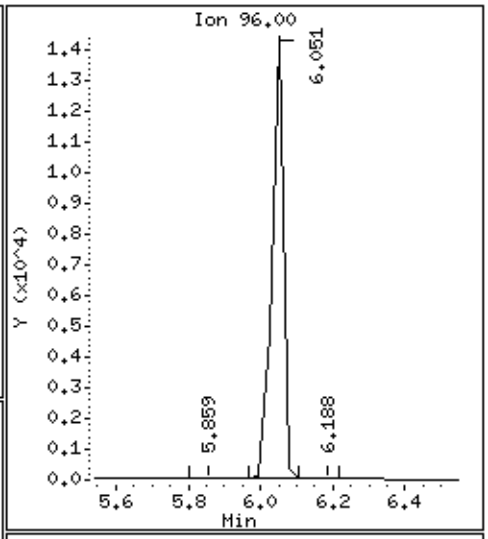
Column phase: DB-5.625

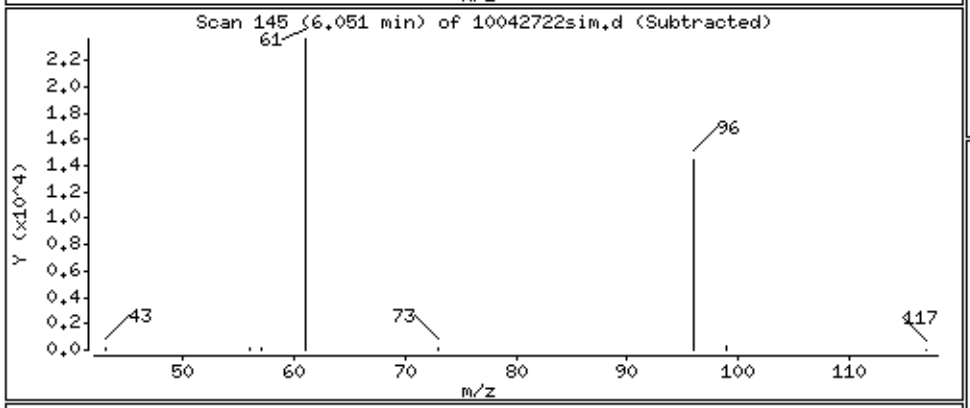
Column diameter: 0.25

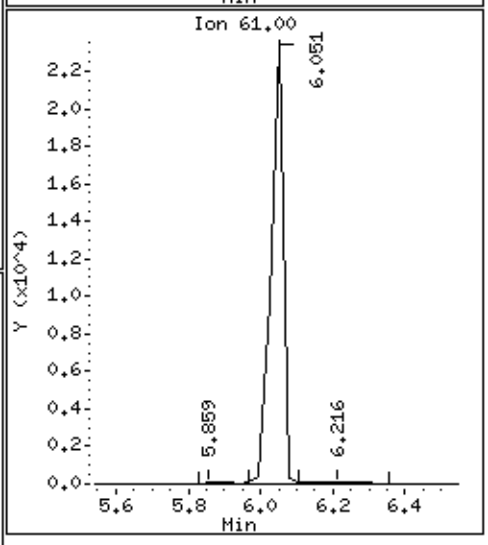
8 trans-1,2-Dichloroethene

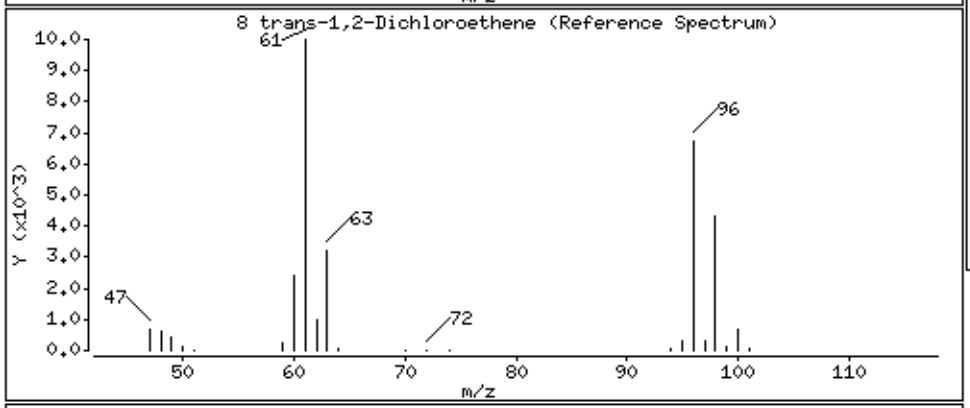
Concentration: 9.01951 ug

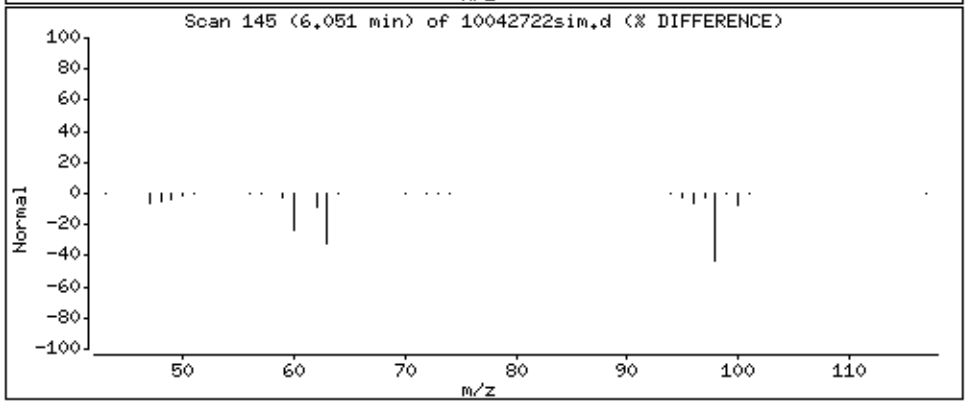












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

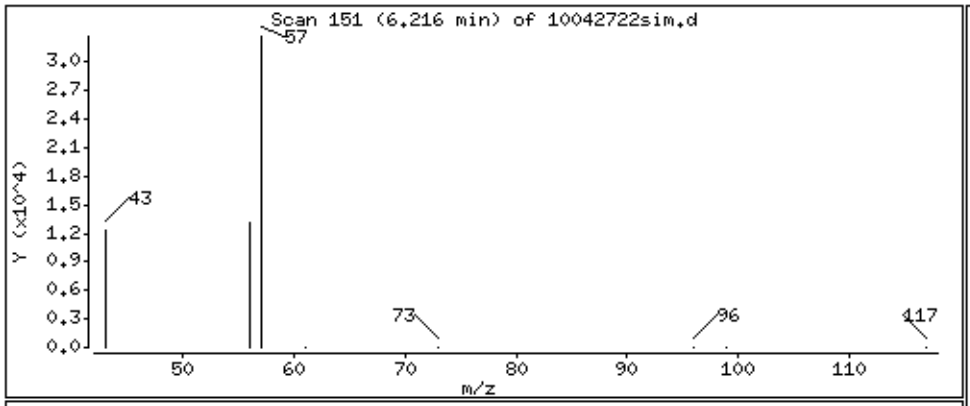
Operator: gm

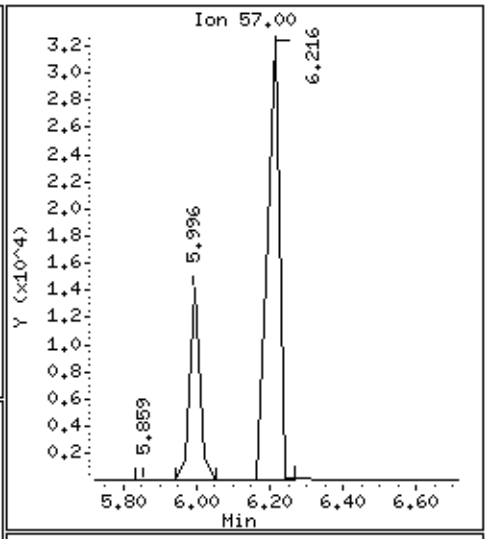
Column phase: DB-5.625

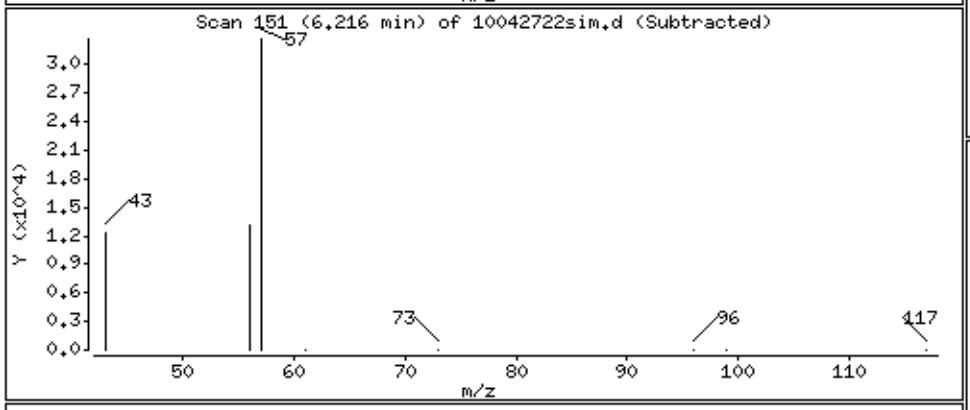
Column diameter: 0.25

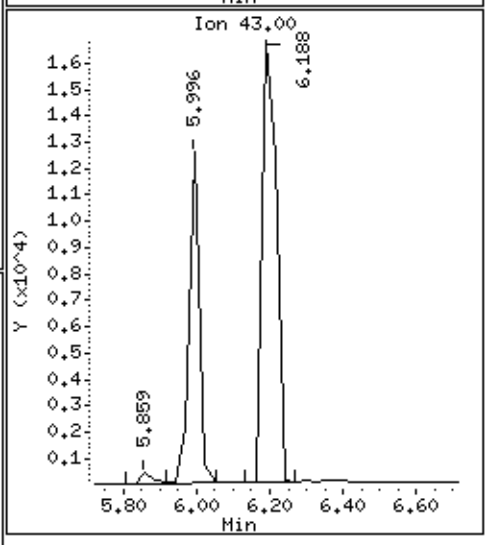
9 Hexane

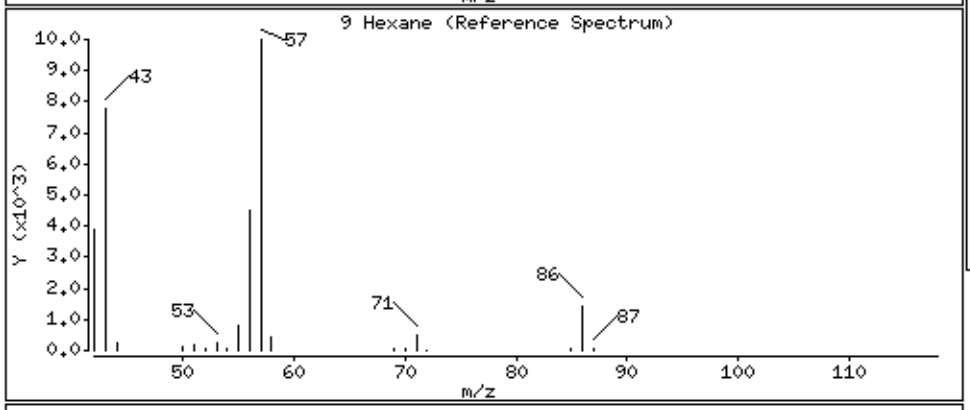
Concentration: 6.84779 ug

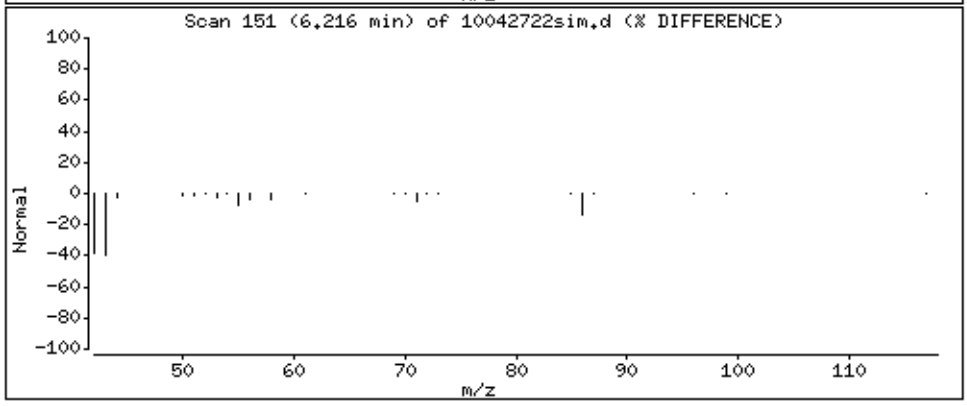












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

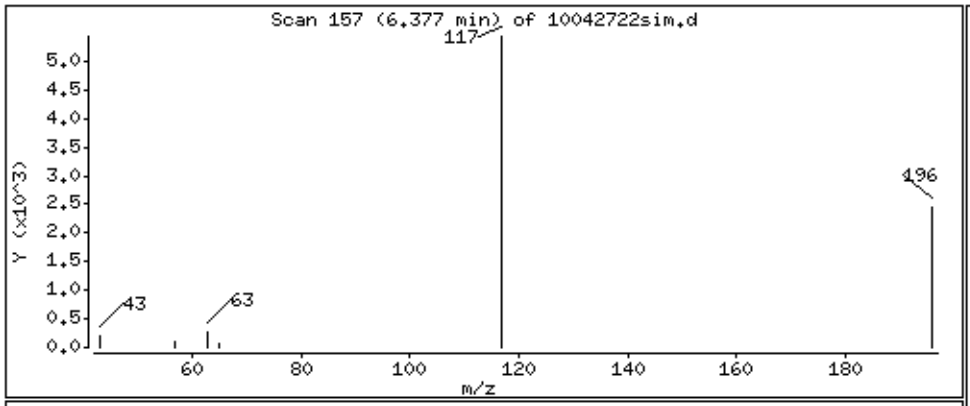
Operator: gm

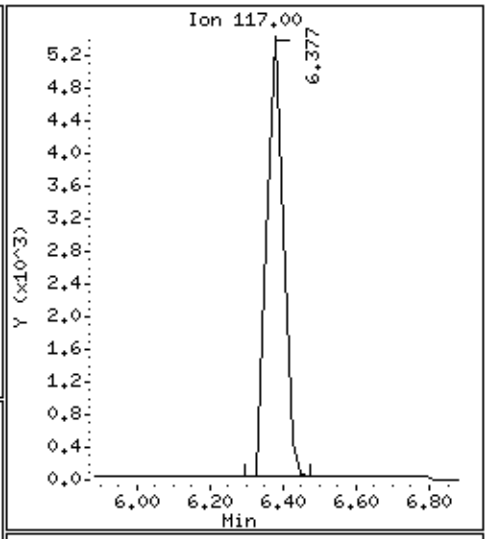
Column phase: DB-5.625

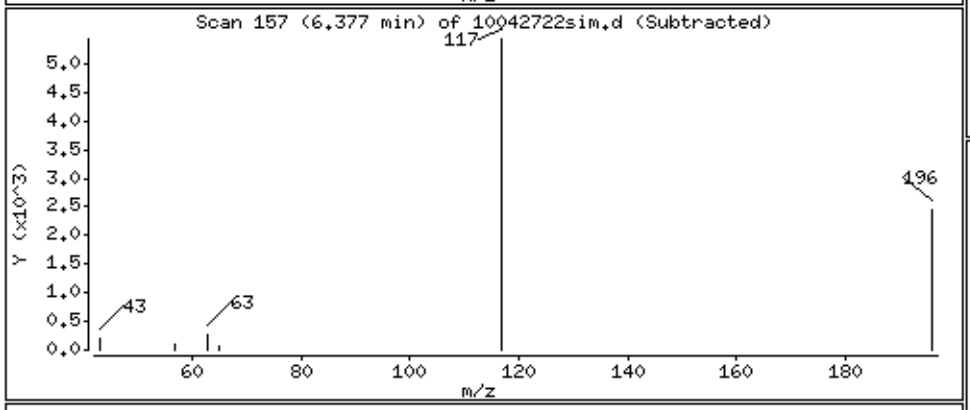
Column diameter: 0.25

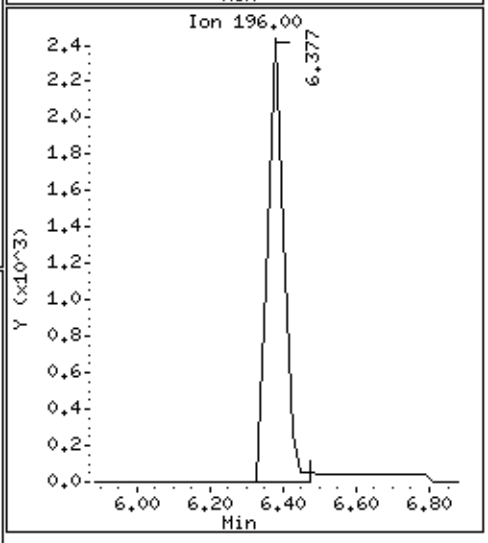
10 Halothane

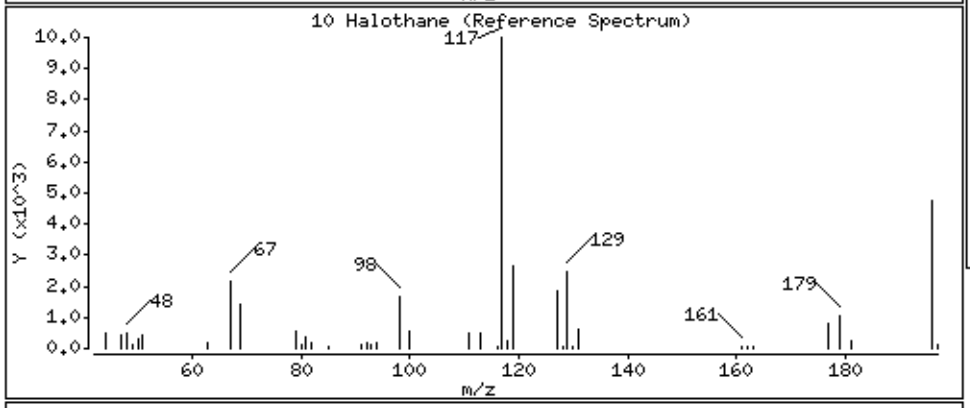
Concentration: 7.75831 ug

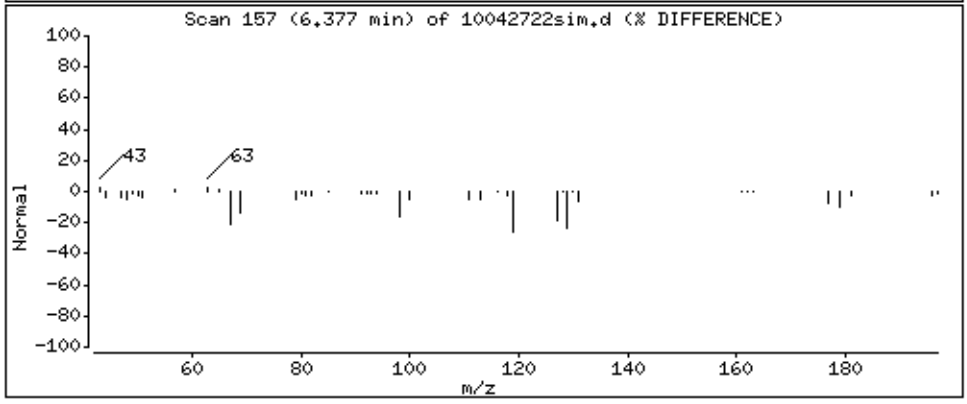












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

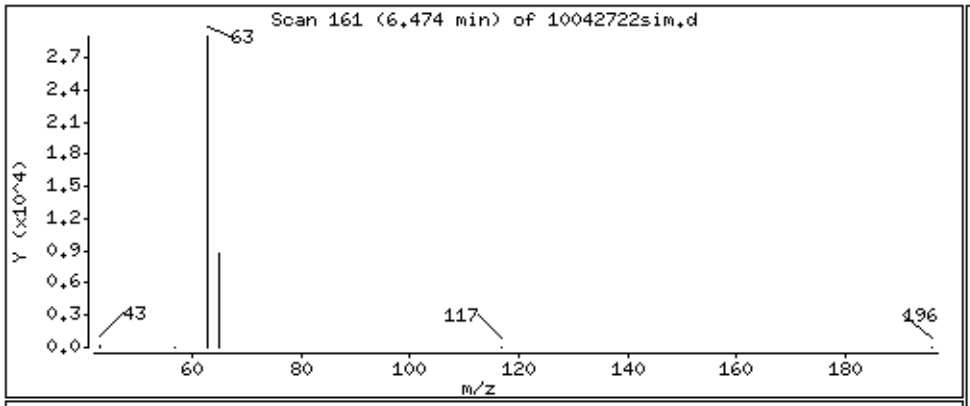
Operator: gm

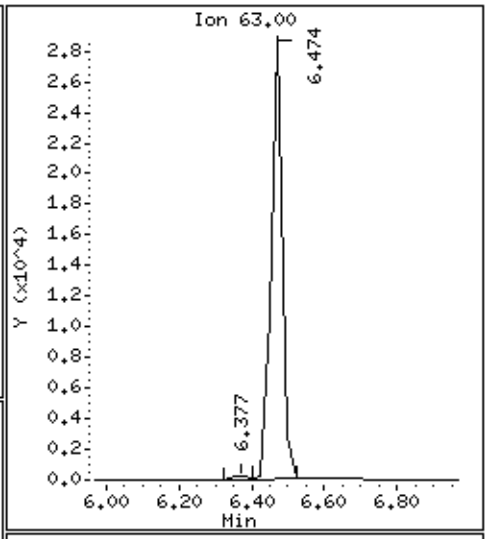
Column phase: DB-5.625

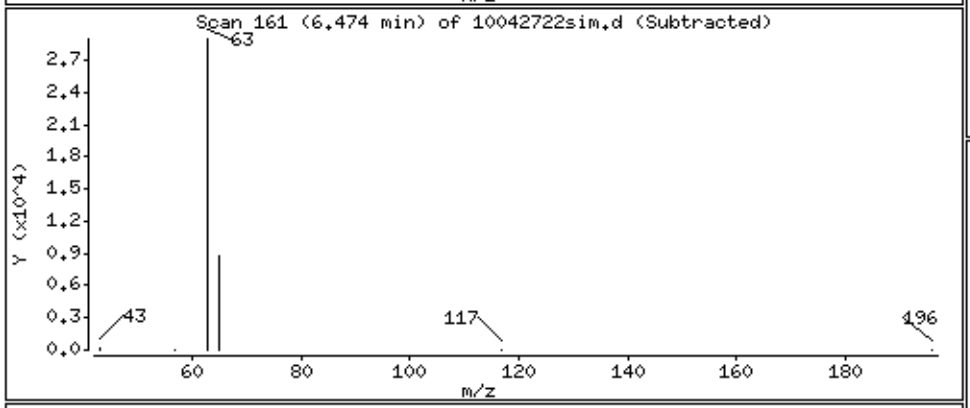
Column diameter: 0.25

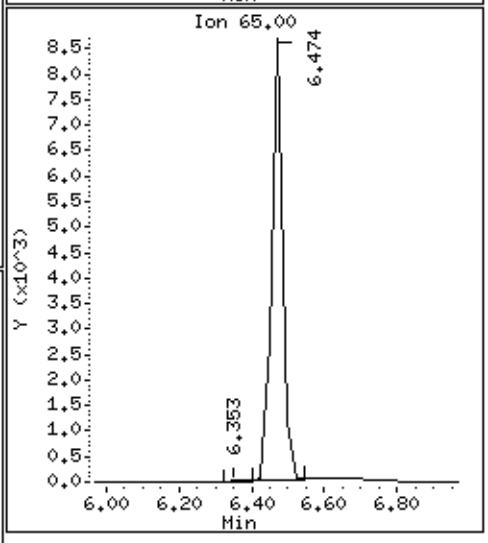
11 1,1-Dichloroethane-SPCC

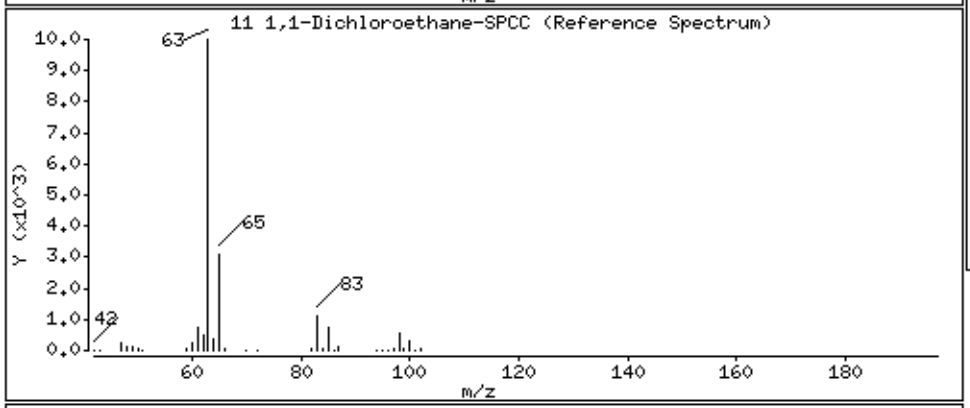
Concentration: 7.95569 ug

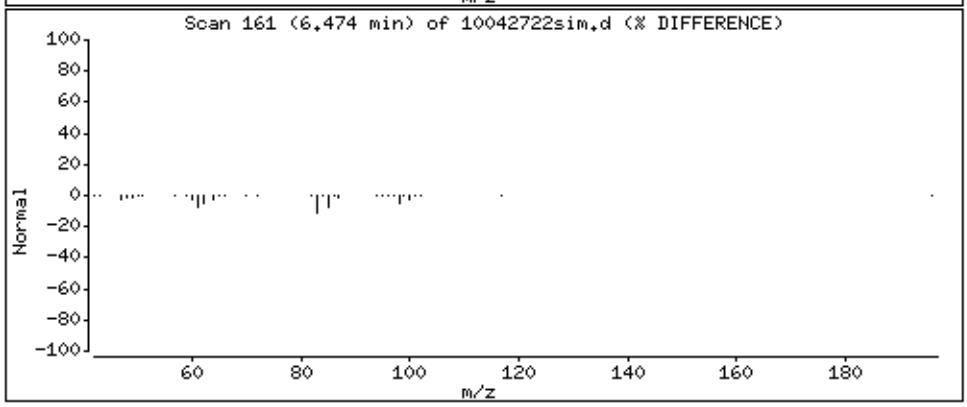












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

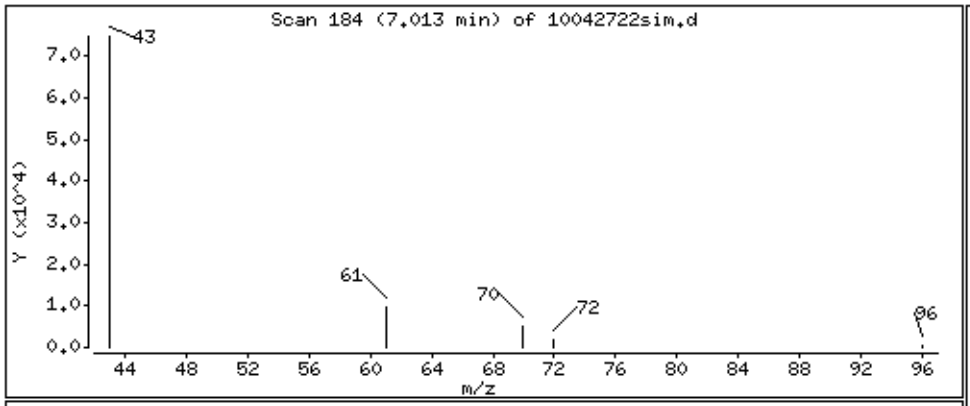
Operator: gm

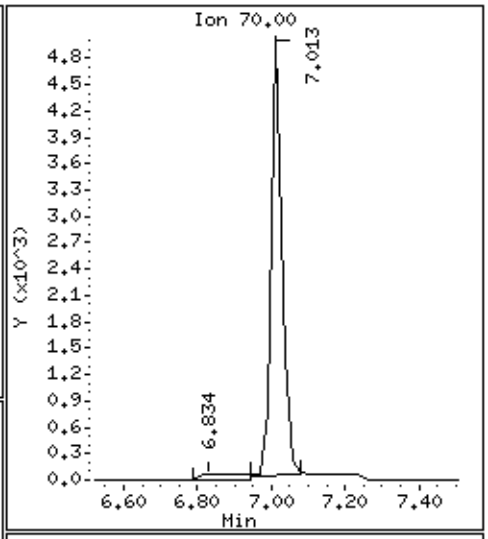
Column phase: DB-5.625

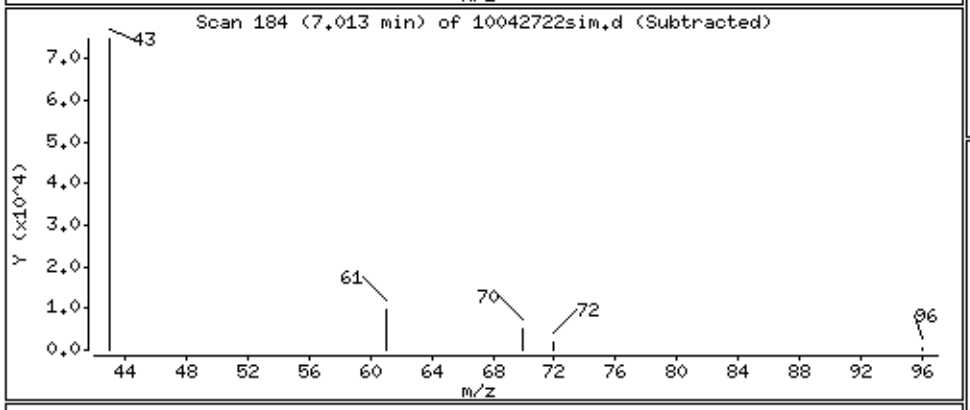
Column diameter: 0.25

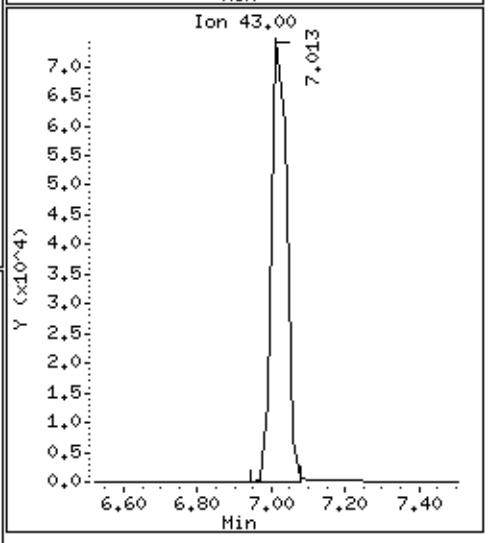
12 Ethyl Acetate

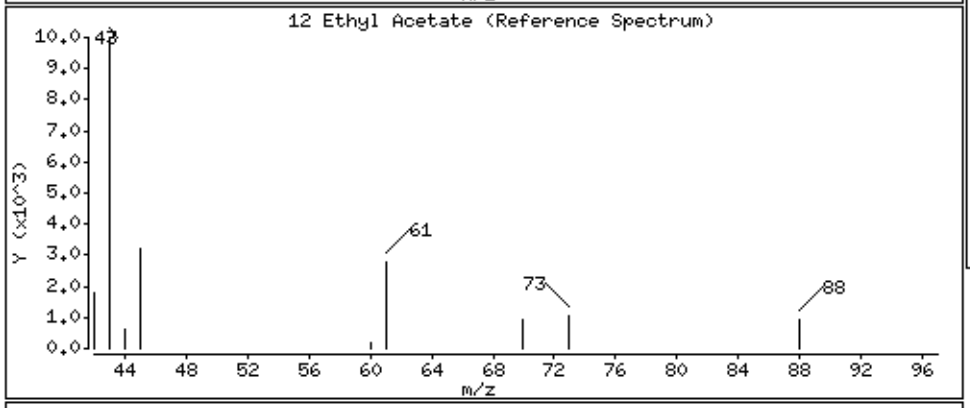
Concentration: 7.93401 ug

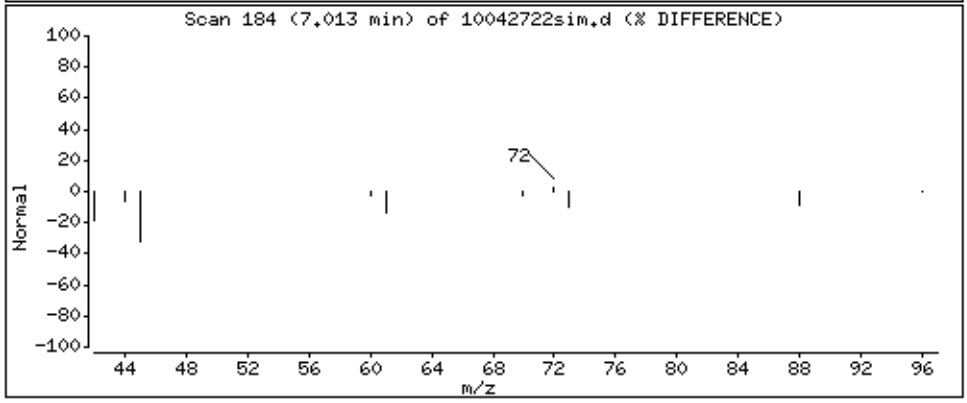












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

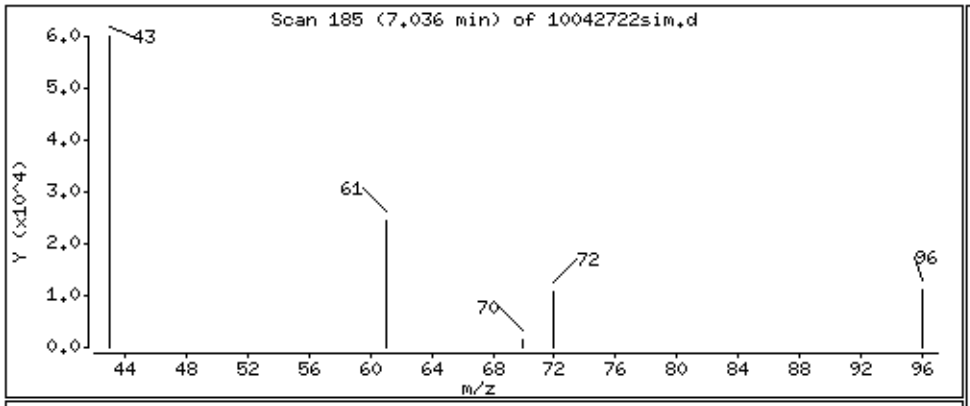
Operator: gm

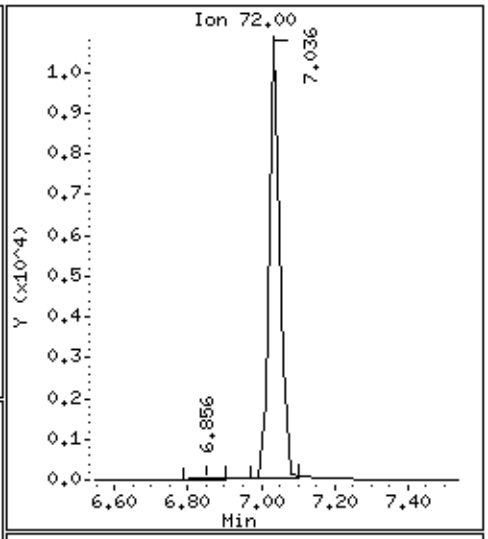
Column phase: DB-5.625

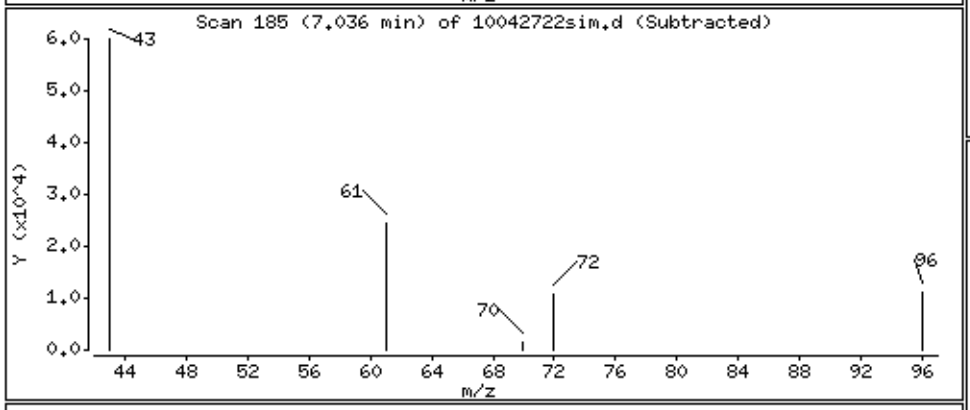
Column diameter: 0.25

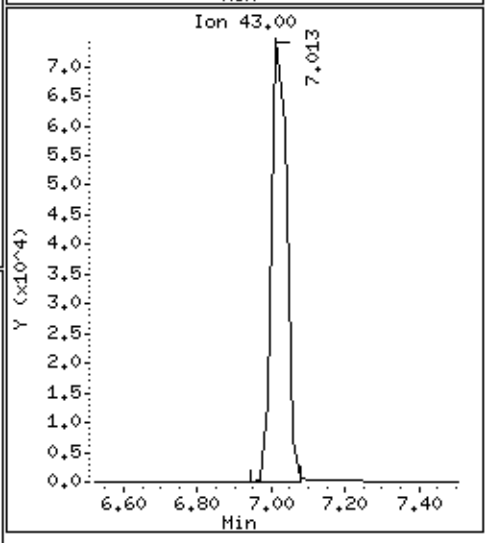
13 2-Butanone

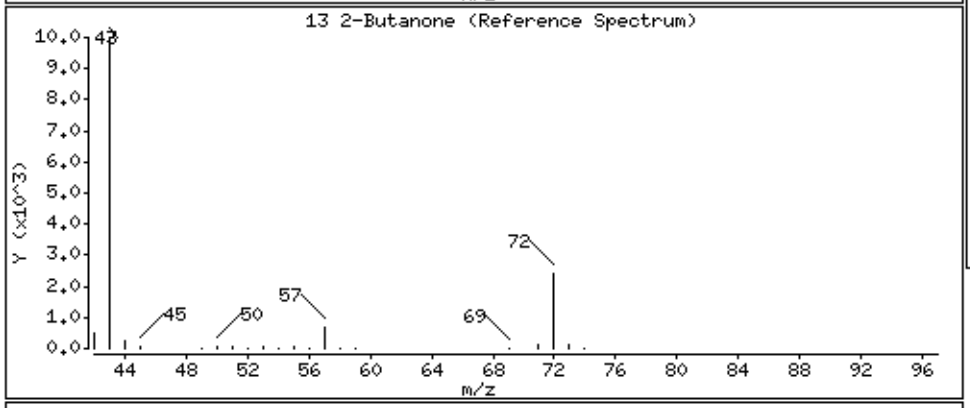
Concentration: 7.65890 ug

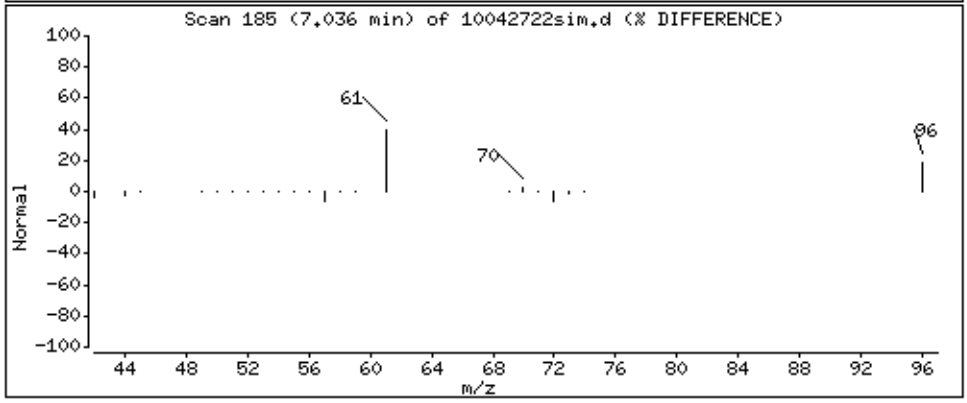












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

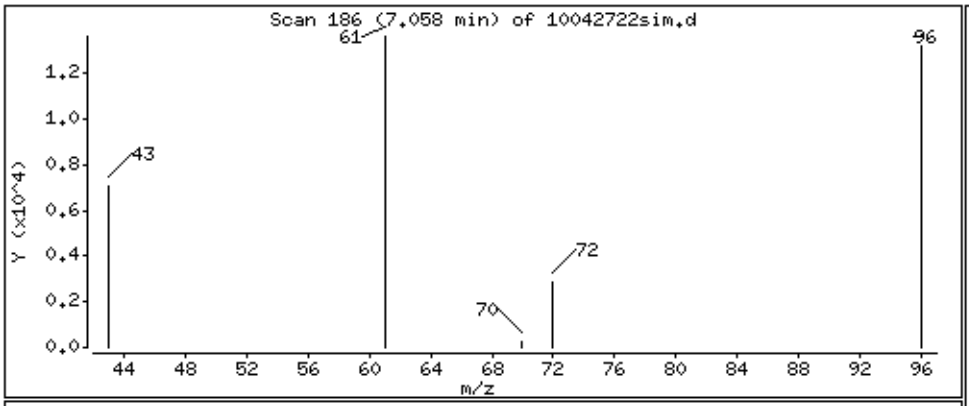
Operator: gm

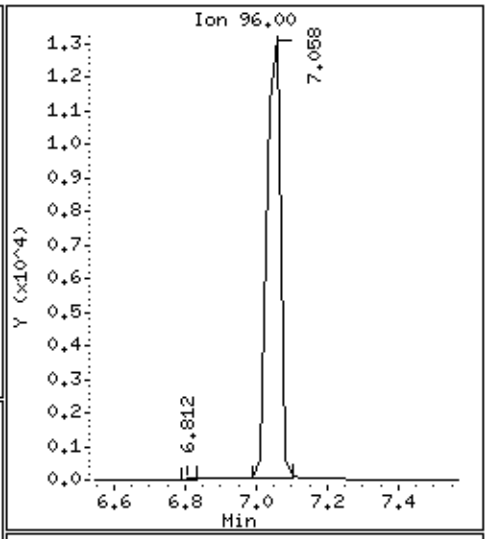
Column phase: DB-5.625

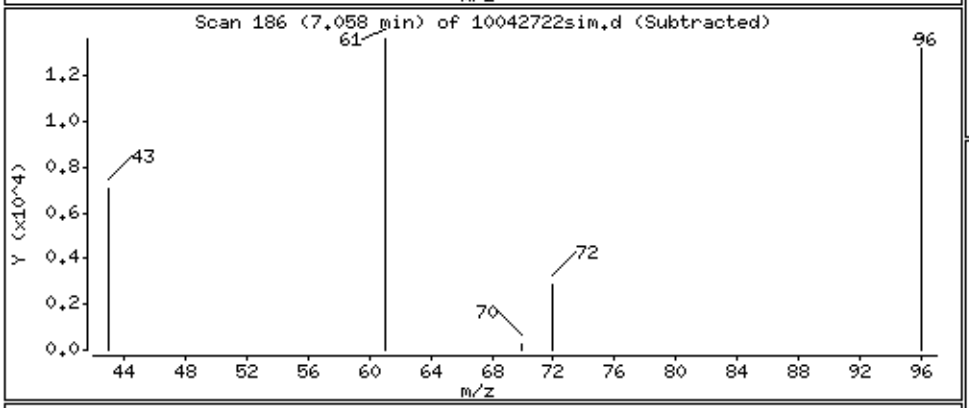
Column diameter: 0.25

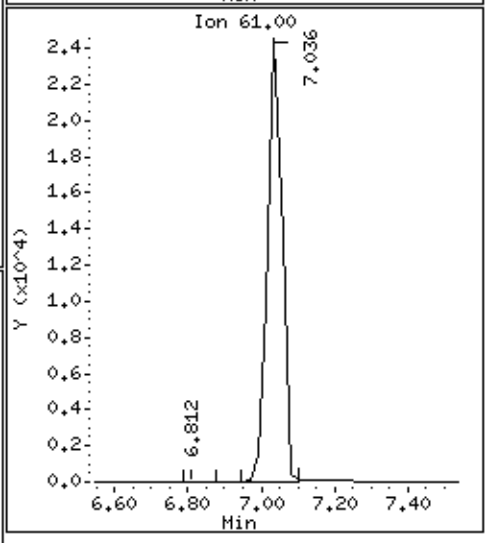
14 cis-1,2-Dichloroethene

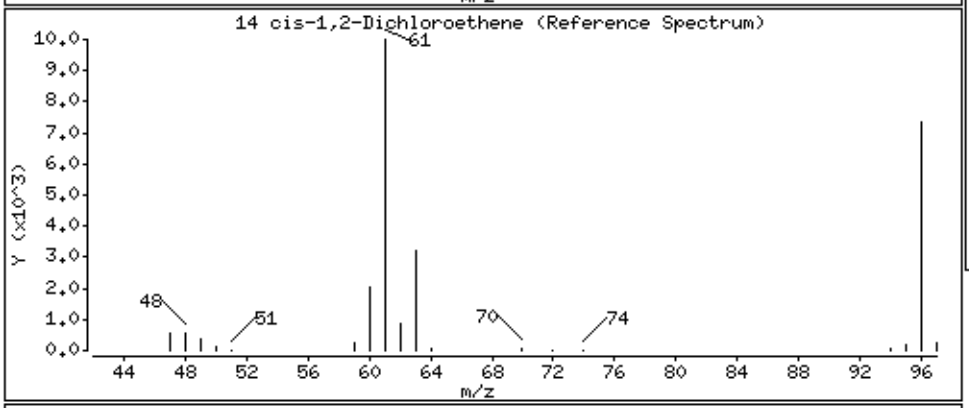
Concentration: 8.00944 ug

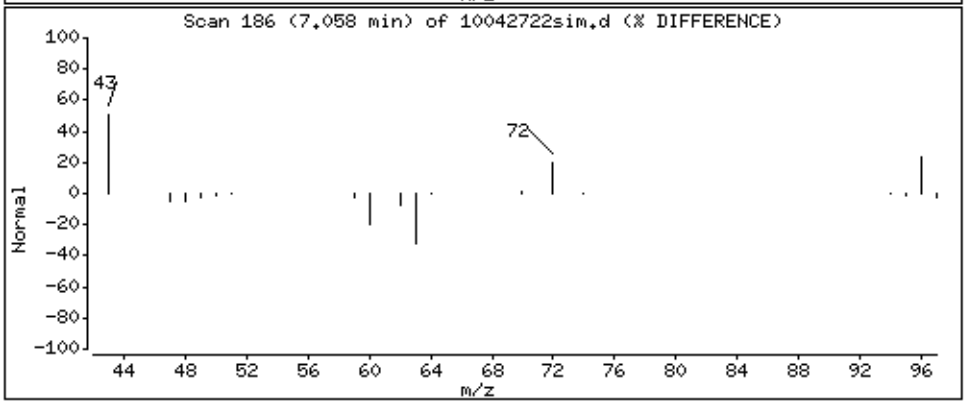












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

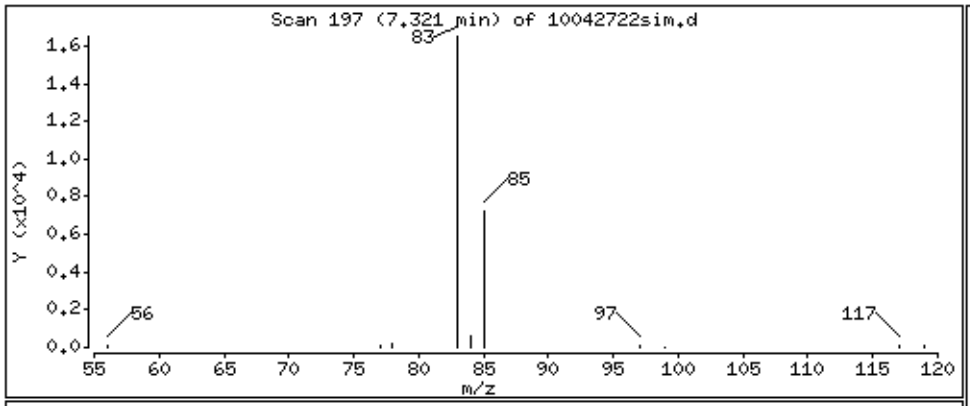
Operator: gm

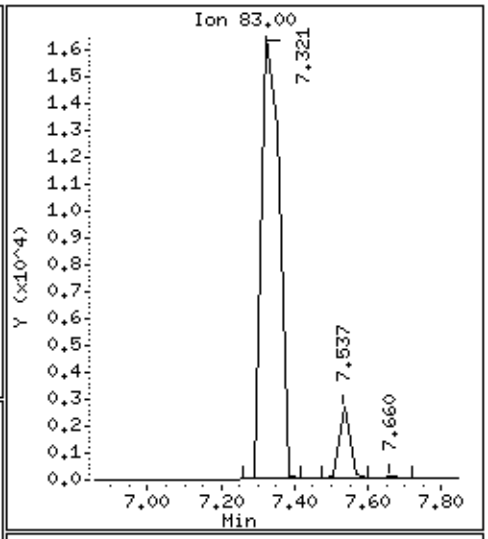
Column phase: DB-5.625

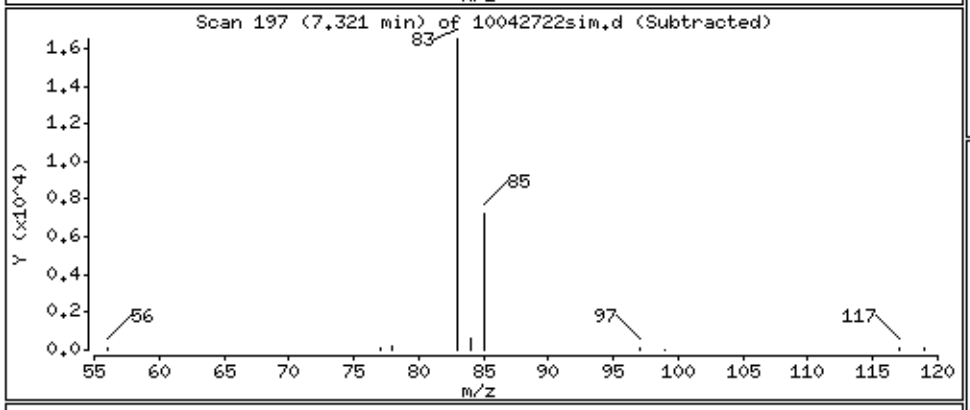
Column diameter: 0.25

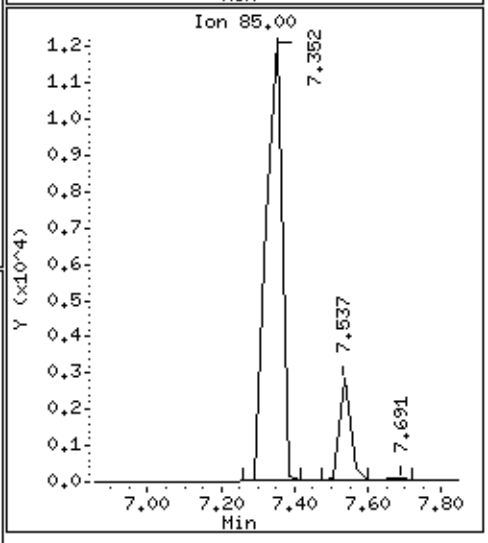
15 Chloroform-CCC

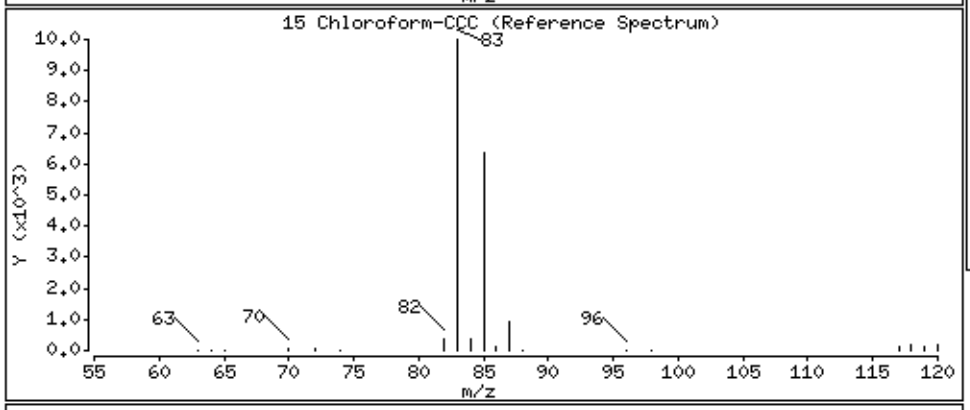
Concentration: 7.80142 ug

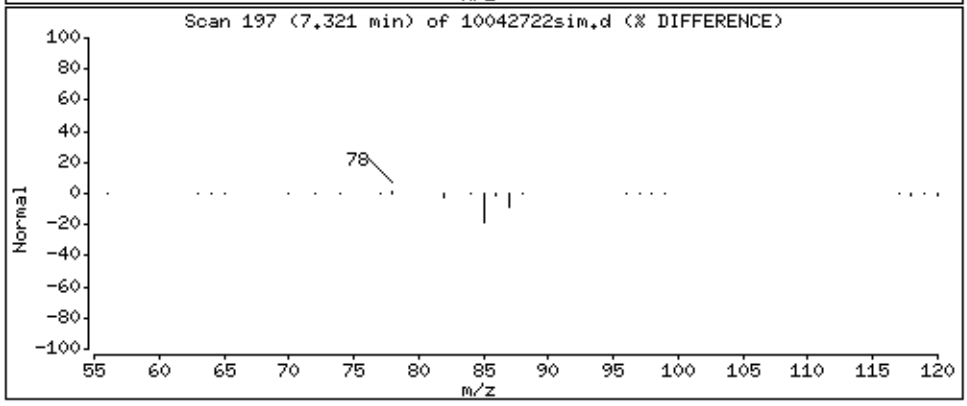












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

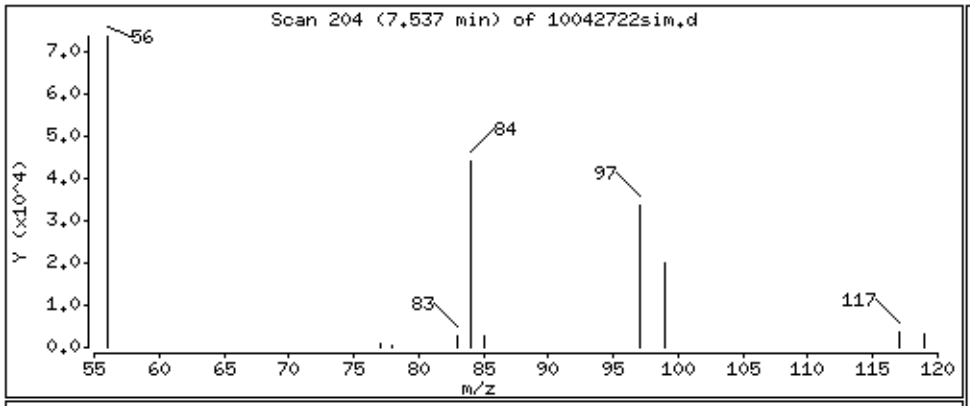
Operator: gm

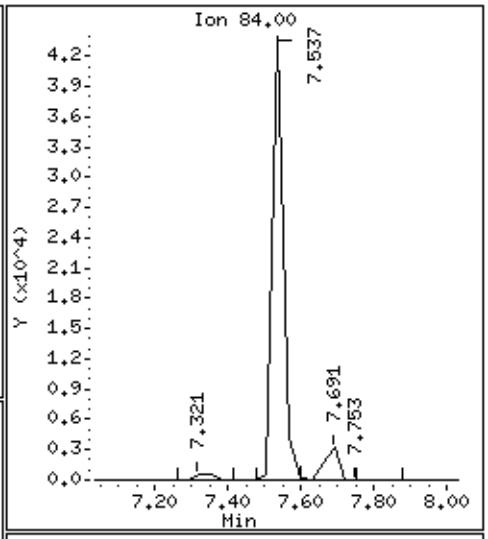
Column phase: DB-5.625

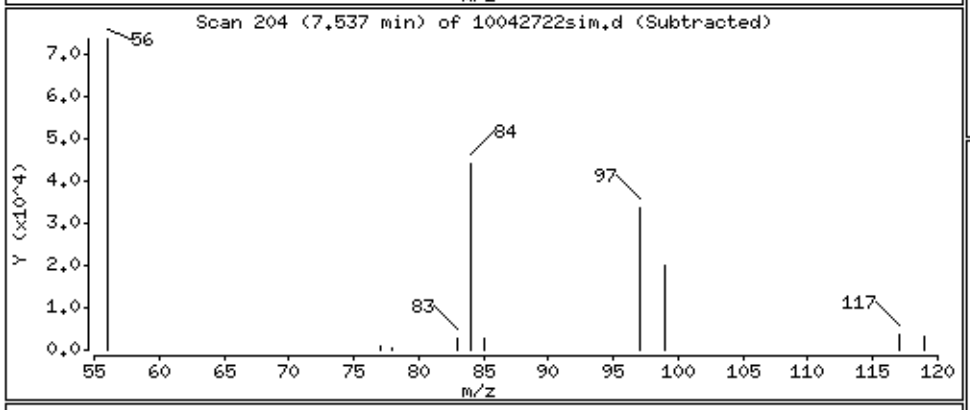
Column diameter: 0.25

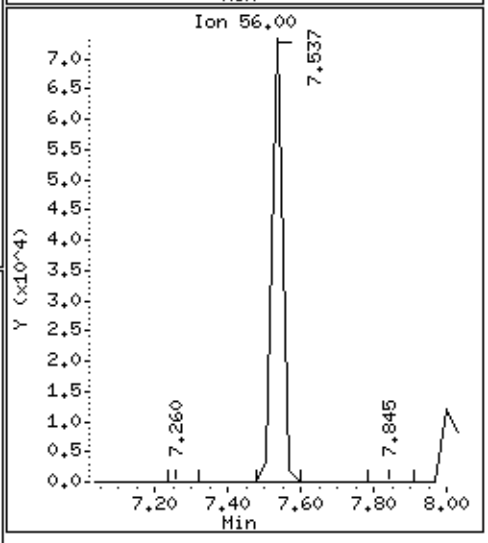
16 Cyclohexane

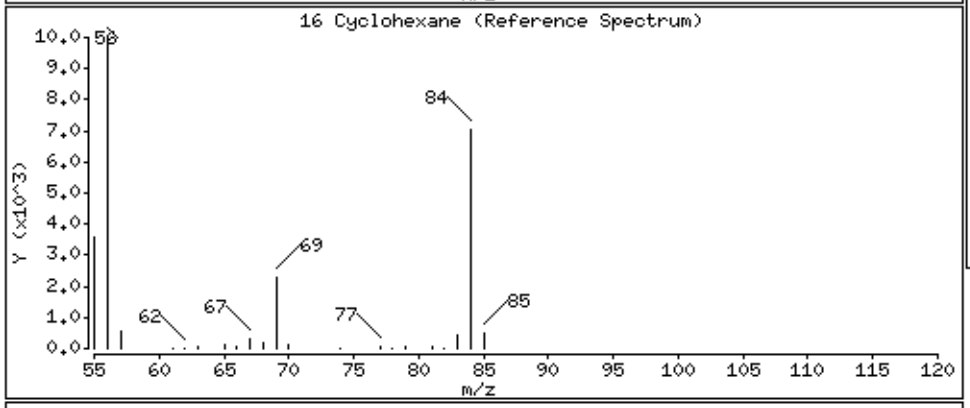
Concentration: 9.27795 ug

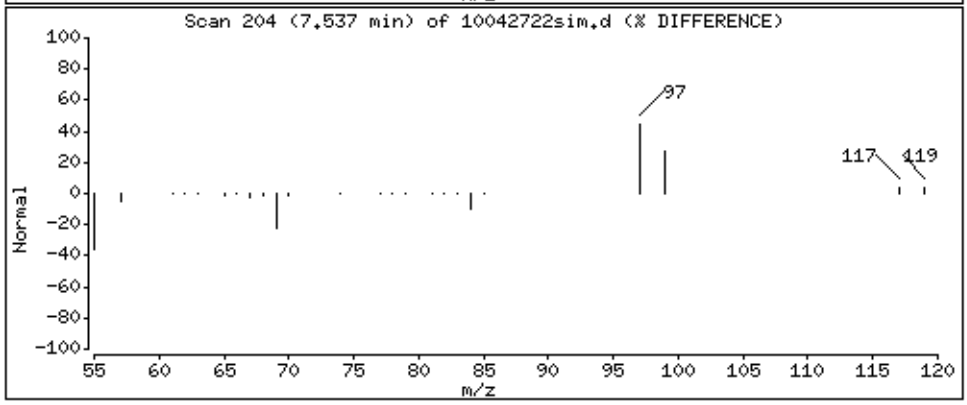












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

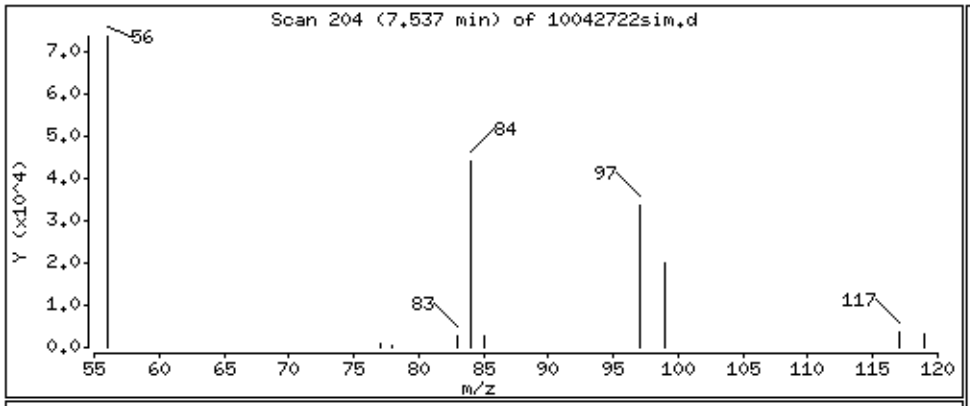
Operator: gm

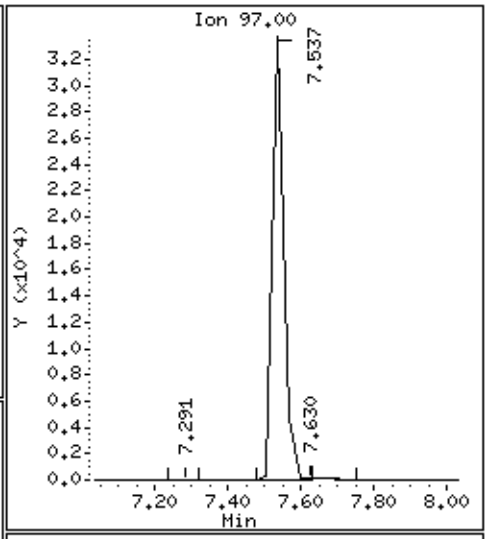
Column phase: DB-5.625

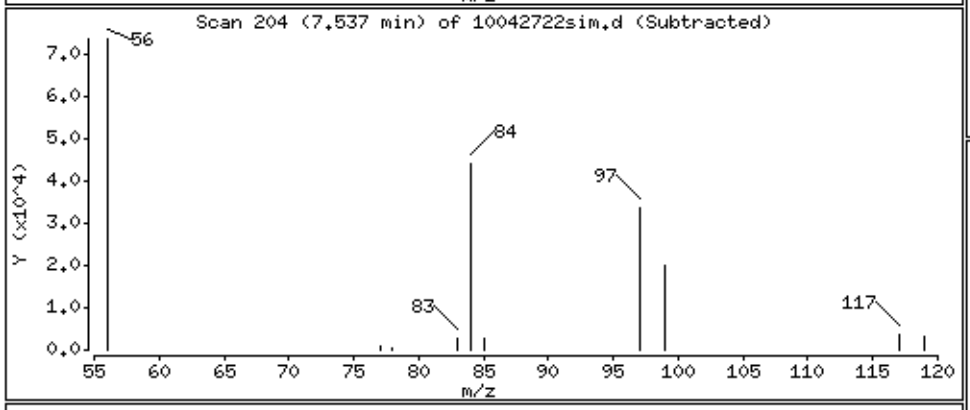
Column diameter: 0.25

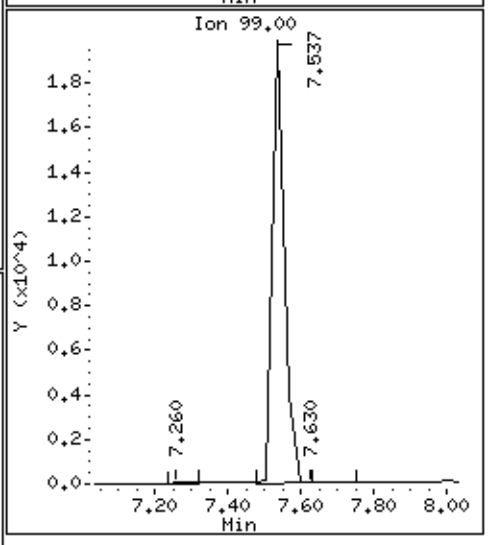
17 1,1,1-Trichloroethane

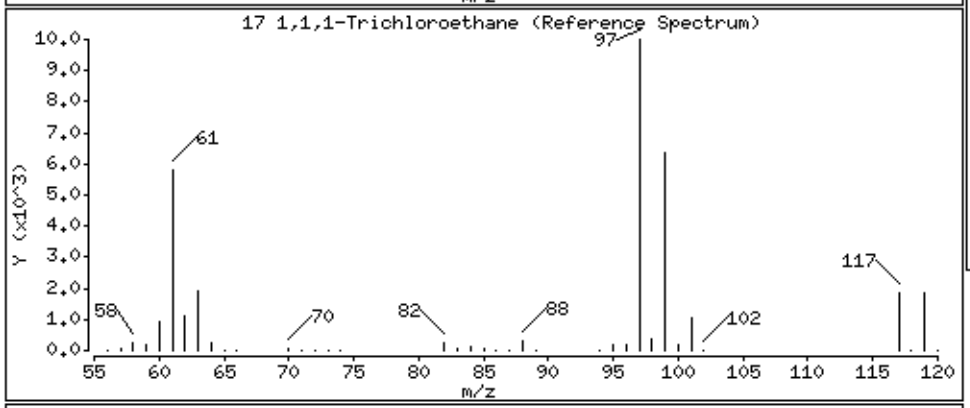
Concentration: 8.38548 ug

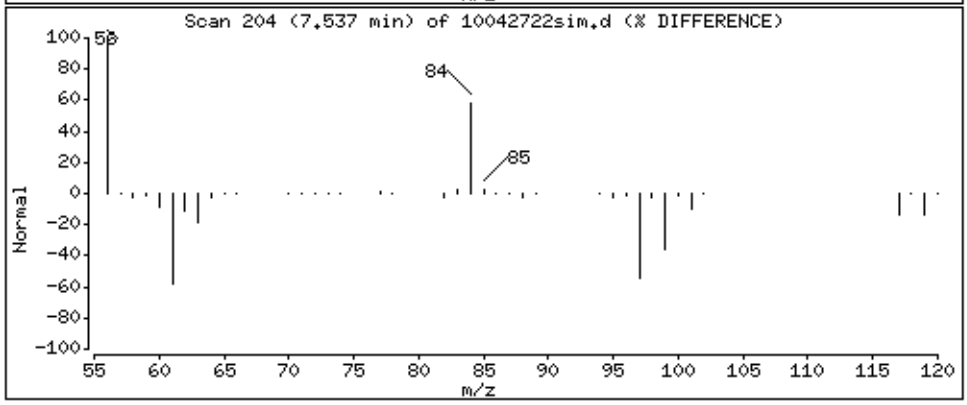












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

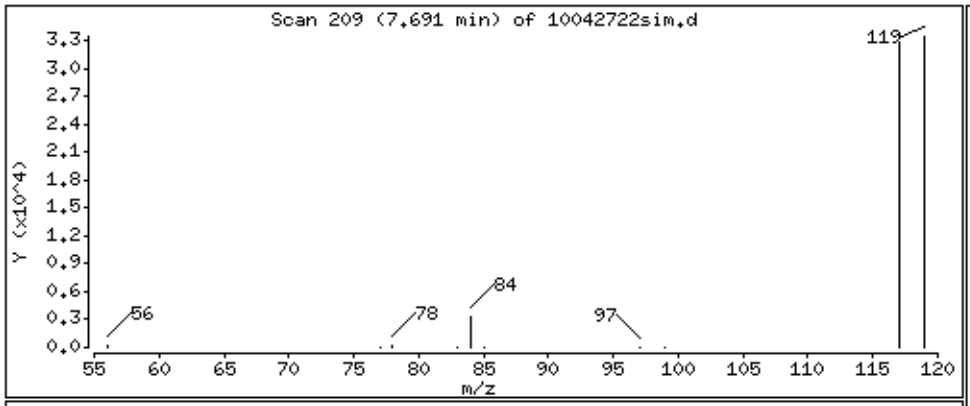
Operator: gm

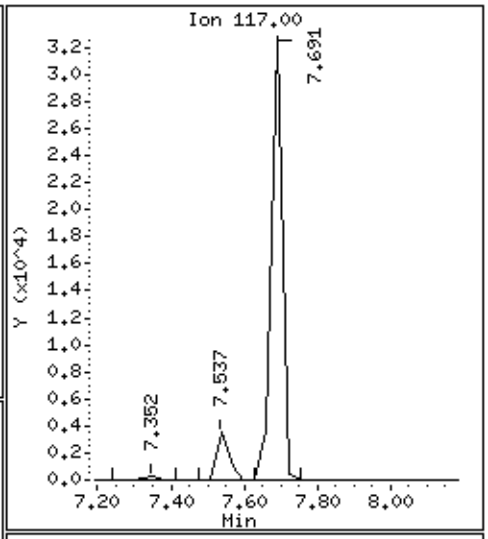
Column phase: DB-5.625

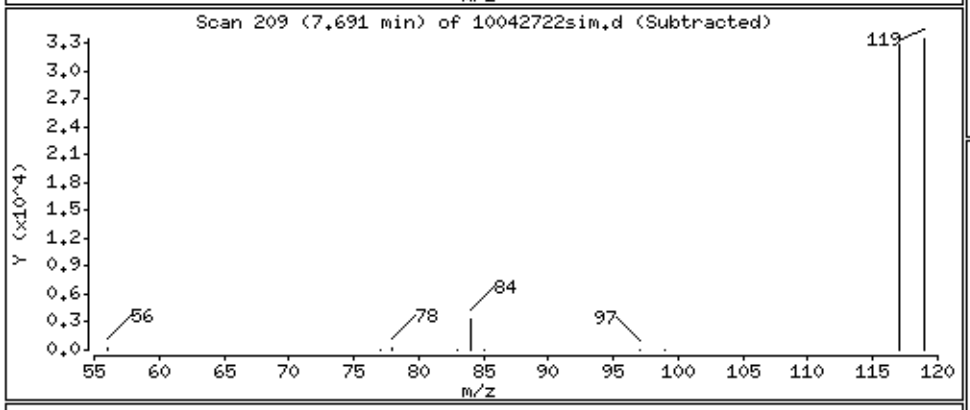
Column diameter: 0.25

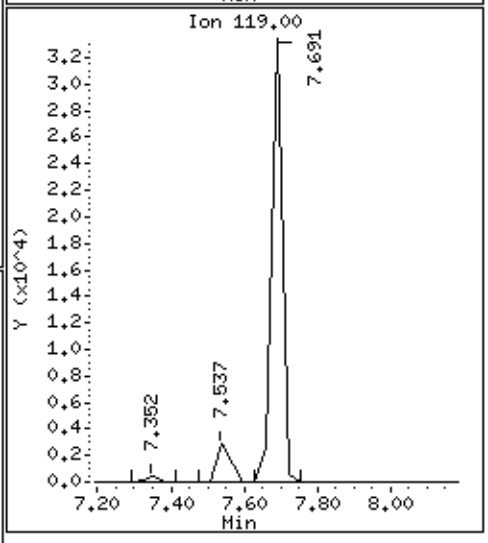
18 Carbon Tetrachloride

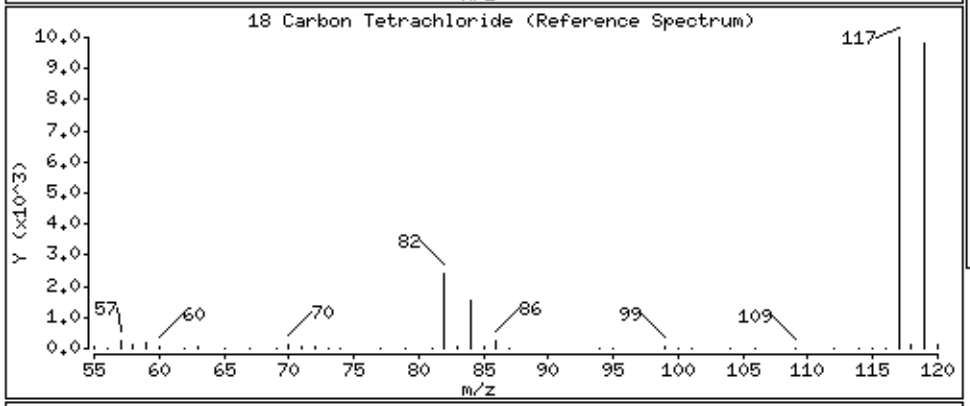
Concentration: 8.94906 ug

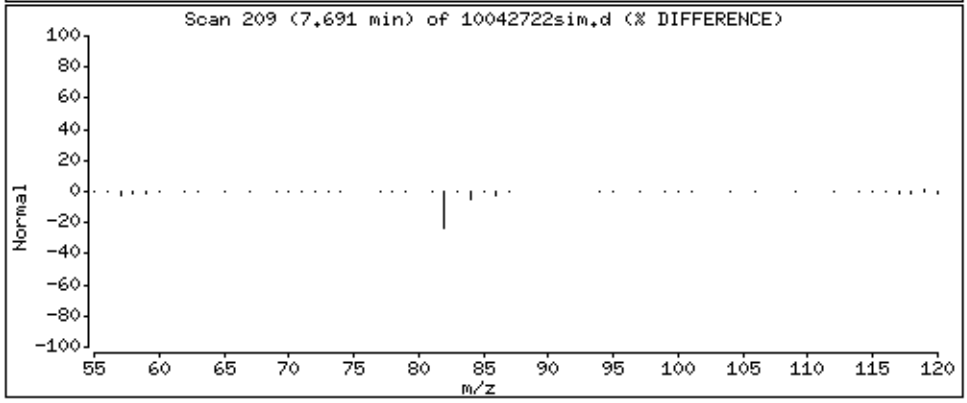












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

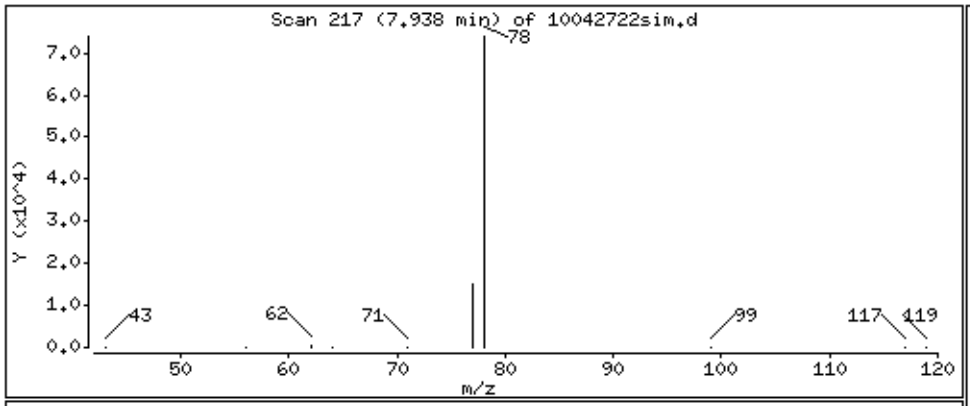
Operator: gm

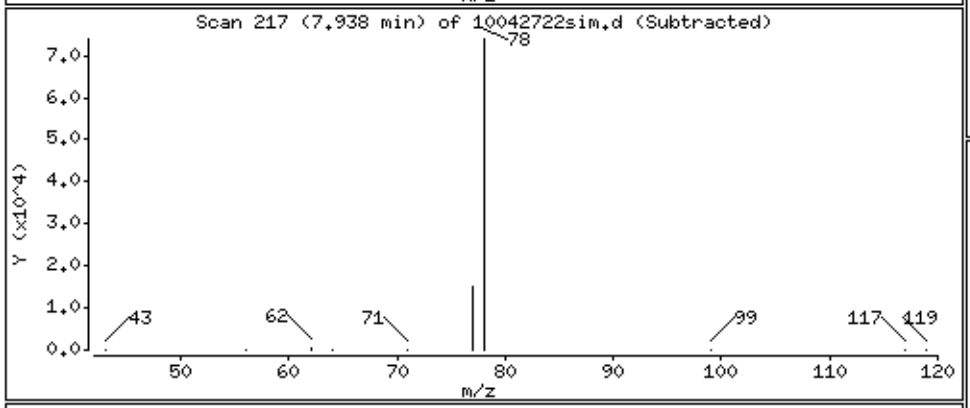
Column phase: DB-5.625

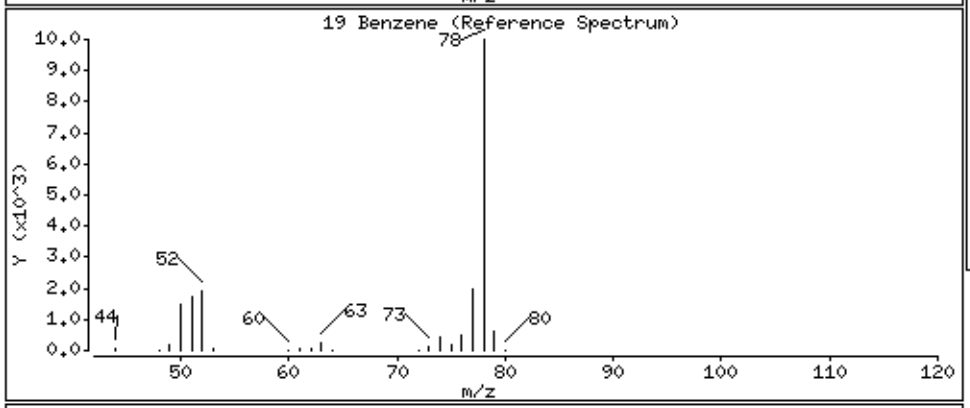
Column diameter: 0.25

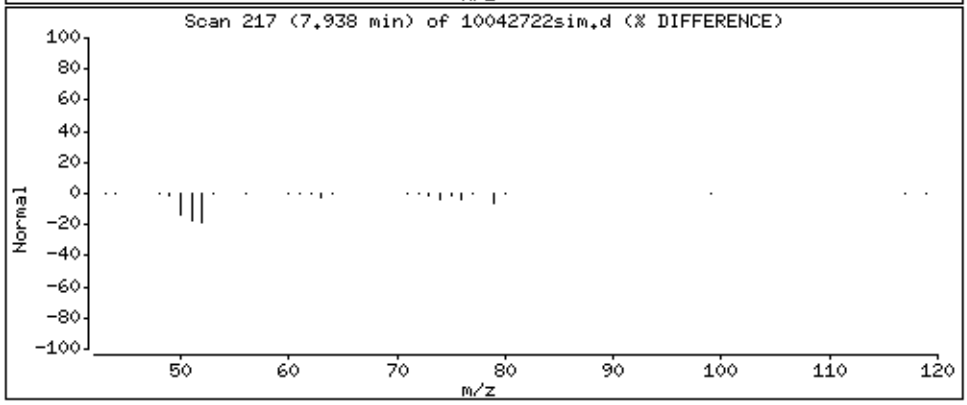
19 Benzene

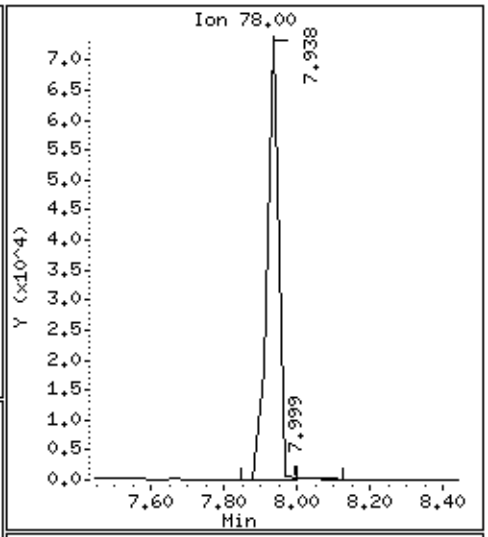
Concentration: 8.78254 ug

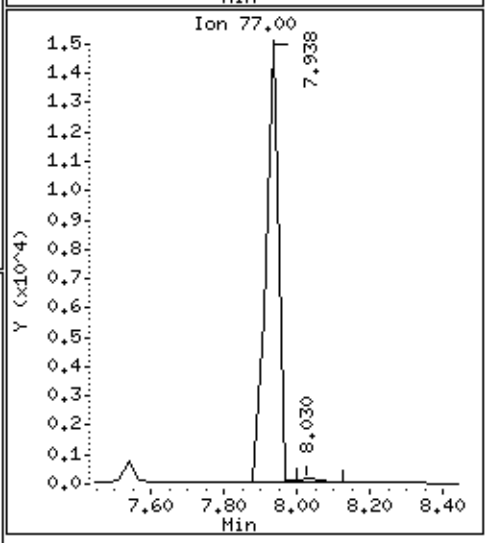












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

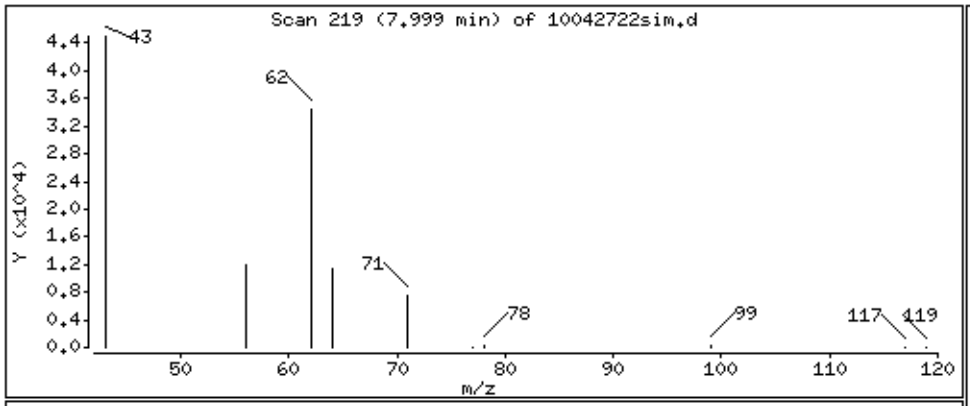
Operator: gm

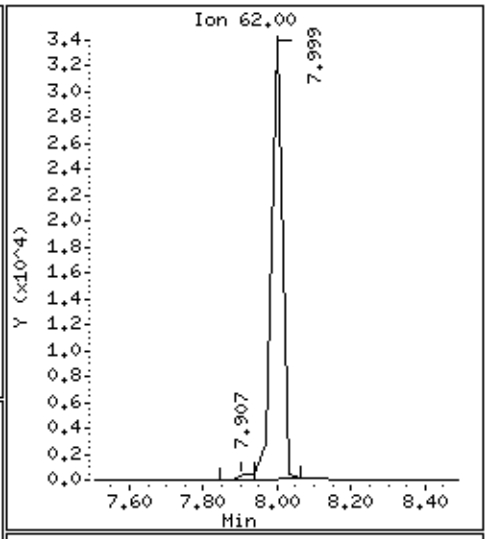
Column phase: DB-5.625

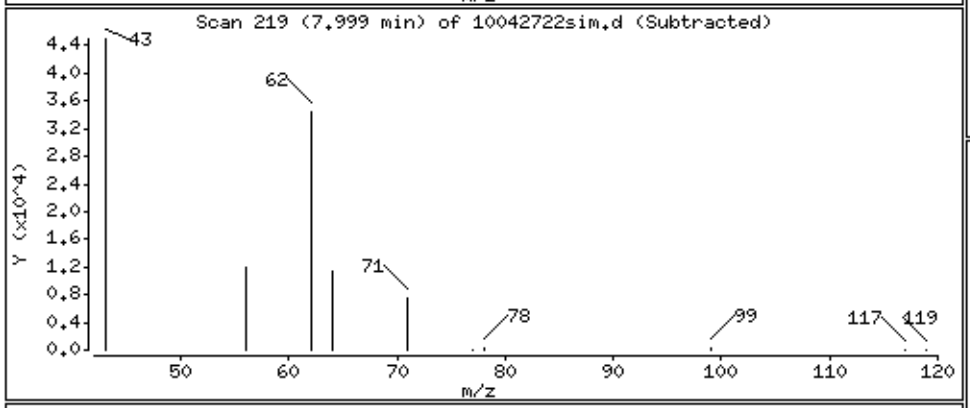
Column diameter: 0.25

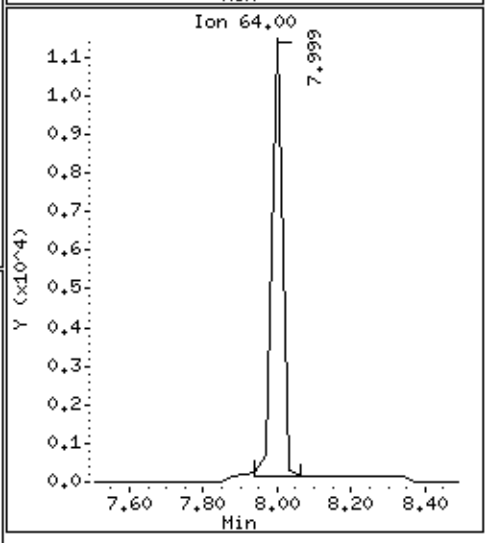
20 1,2-Dichloroethane

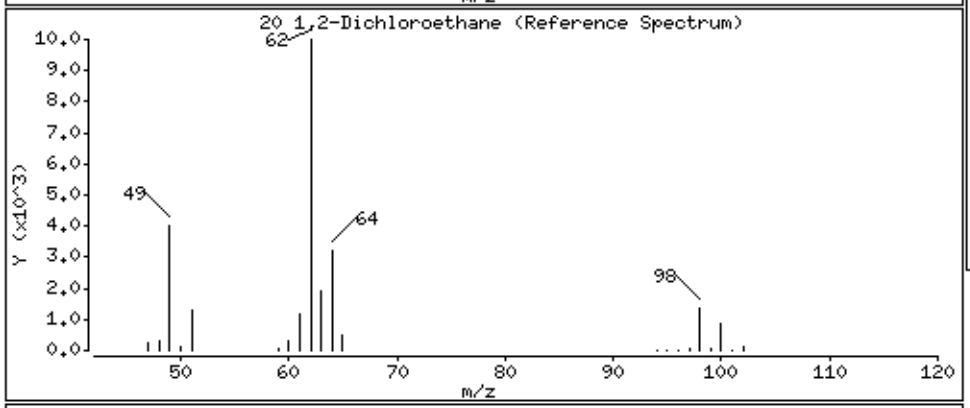
Concentration: 8.36536 ug

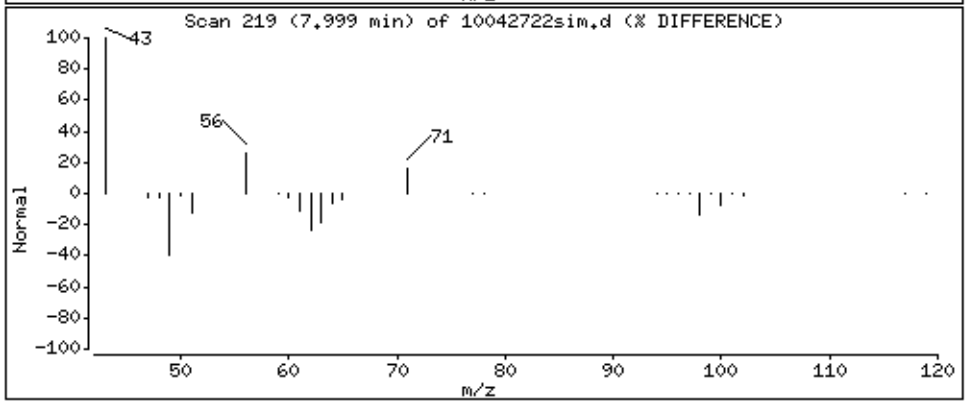












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

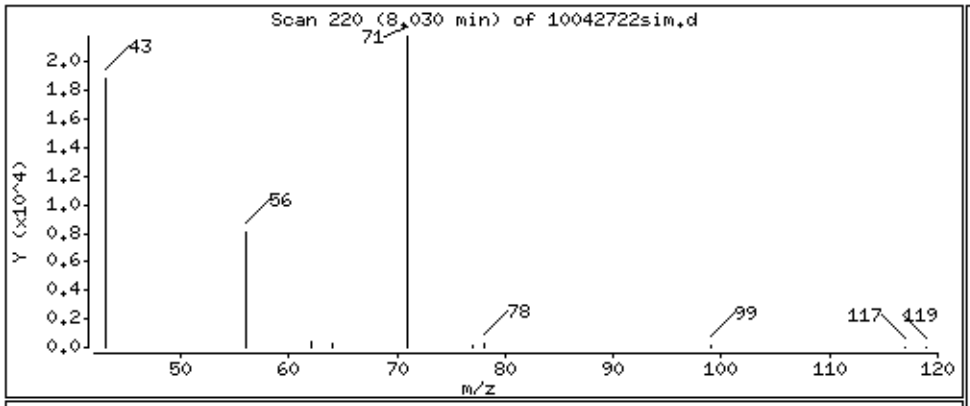
Operator: gm

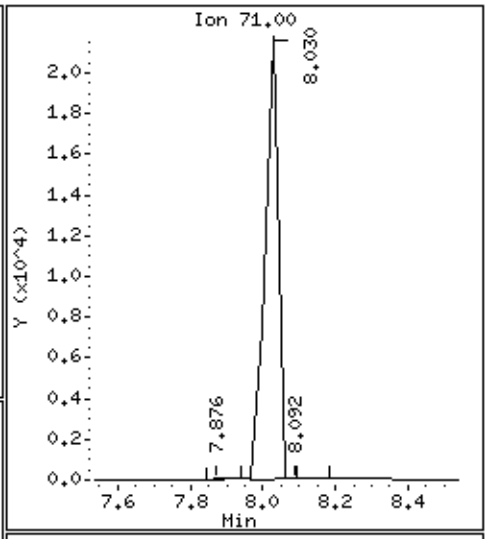
Column phase: DB-5.625

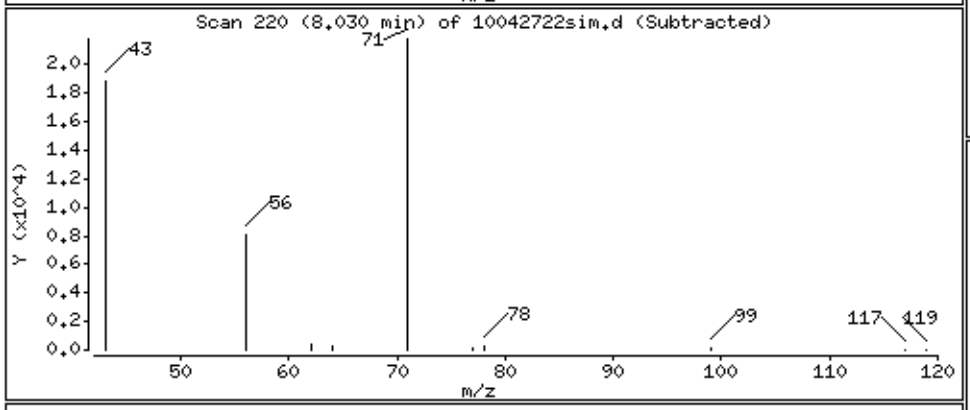
Column diameter: 0.25

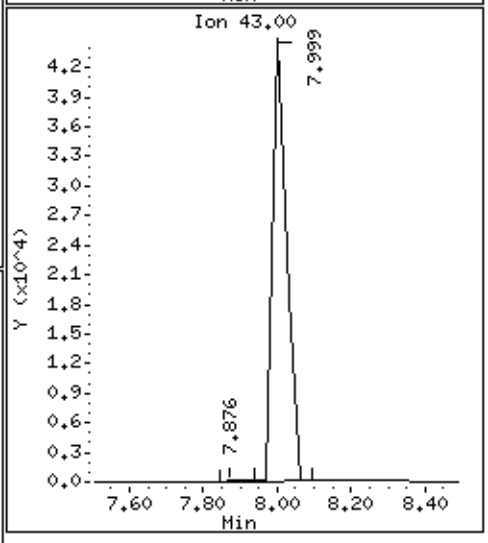
21 Heptane

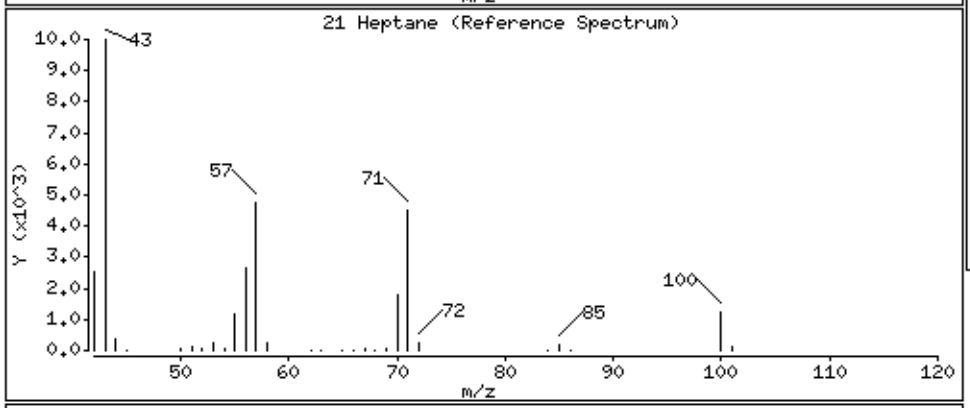
Concentration: 9.36393 ug

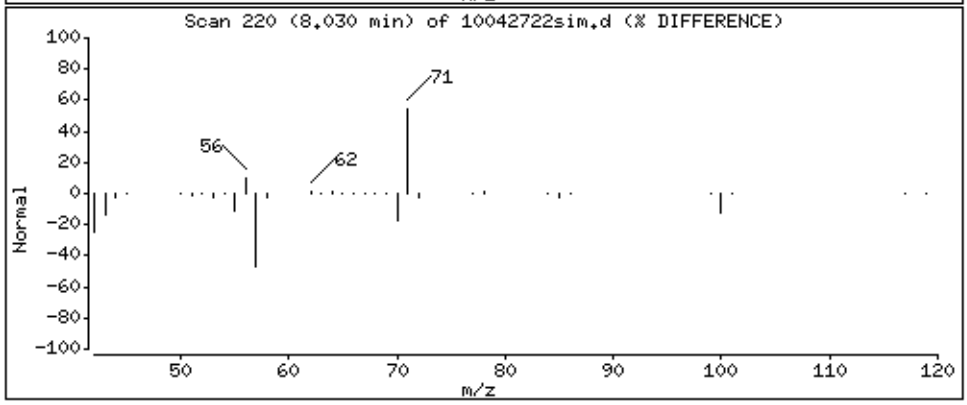












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

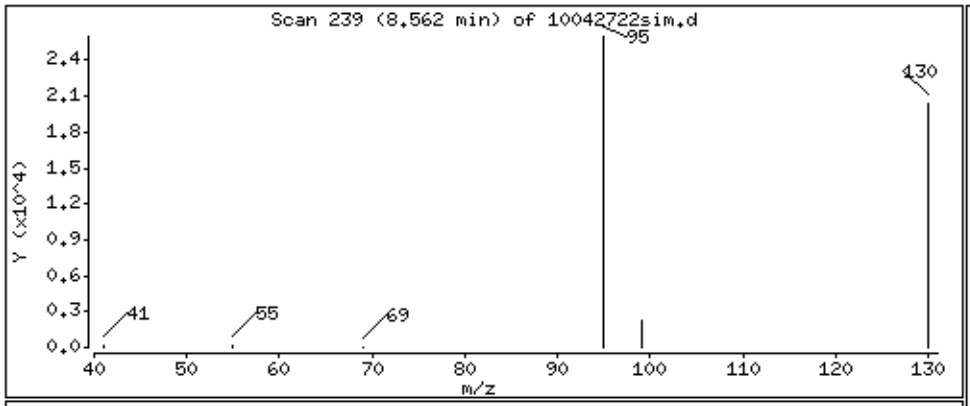
Operator: gm

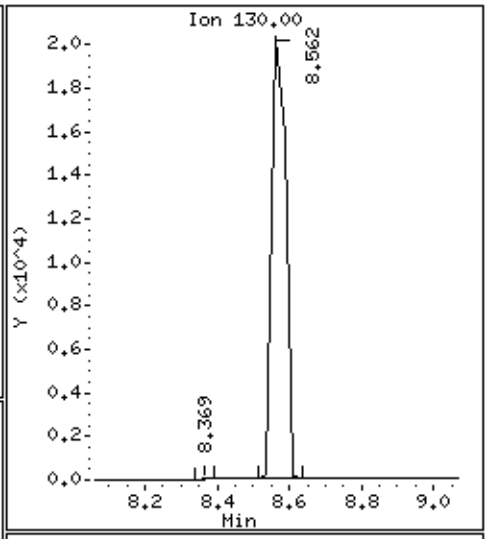
Column phase: DB-5.625

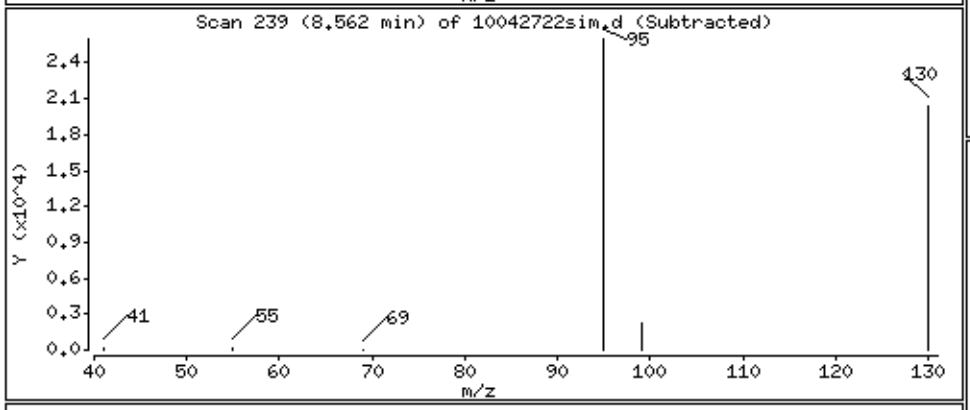
Column diameter: 0.25

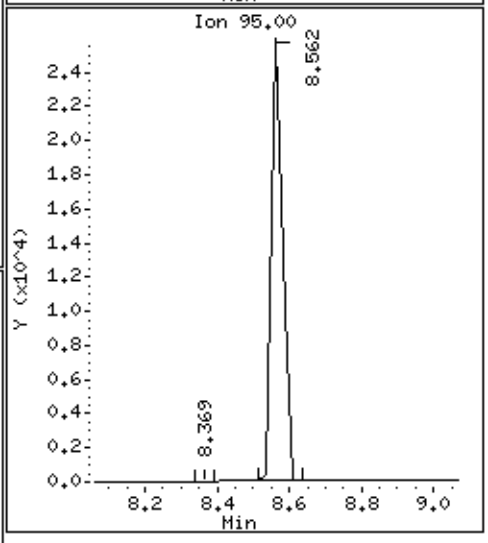
22 Trichloroethene

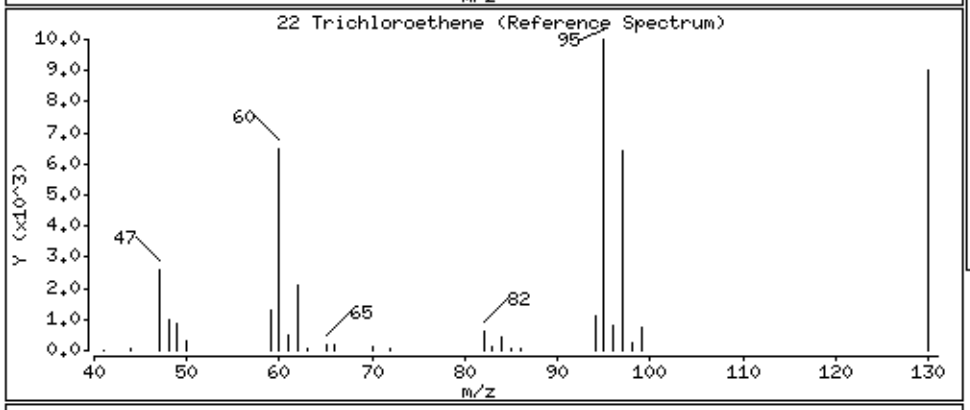
Concentration: 8.60263 ug

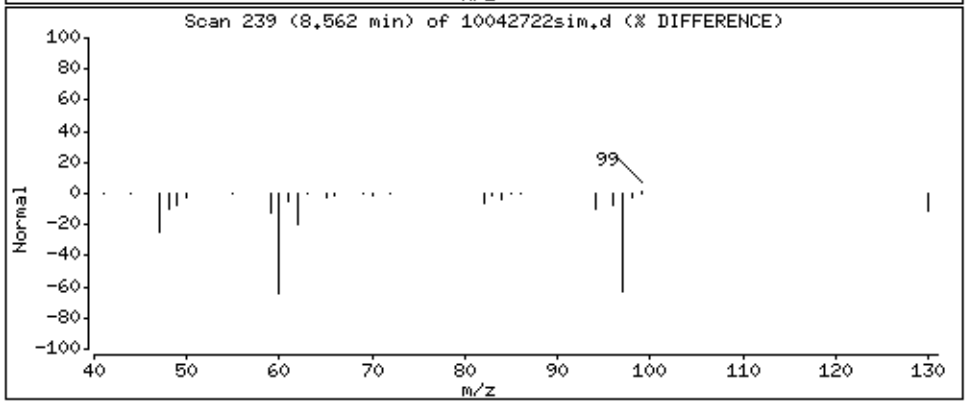












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

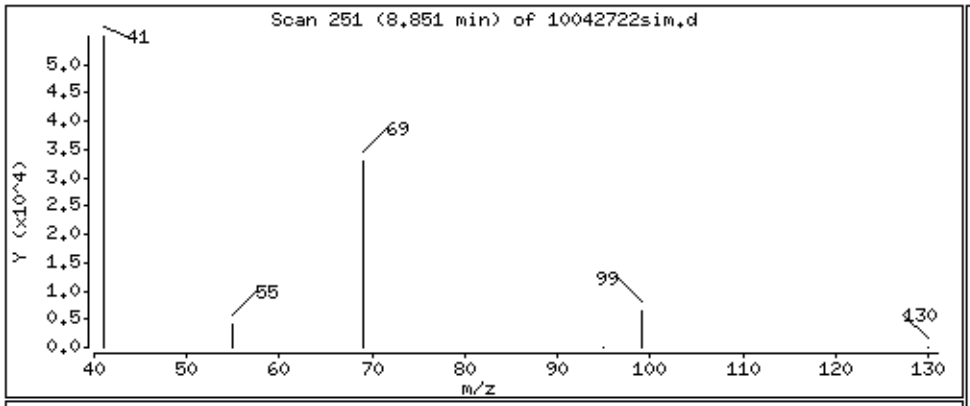
Operator: gm

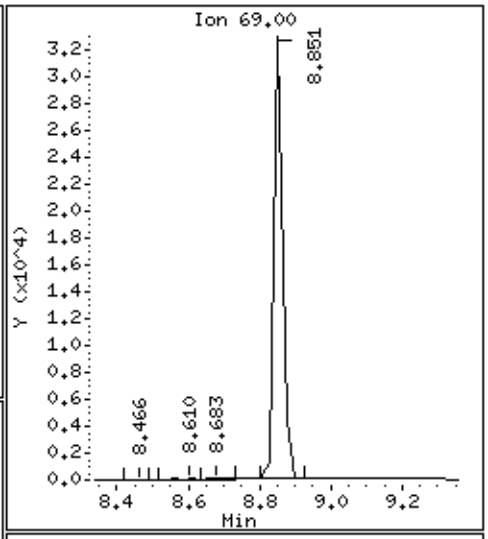
Column phase: DB-5.625

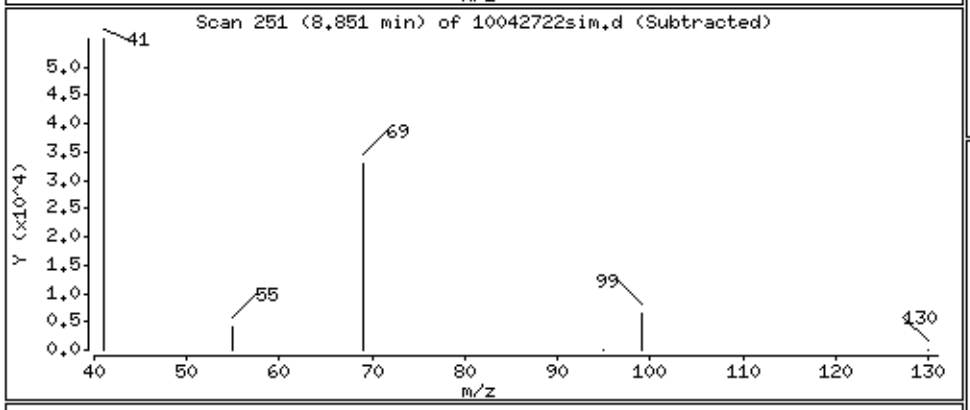
Column diameter: 0.25

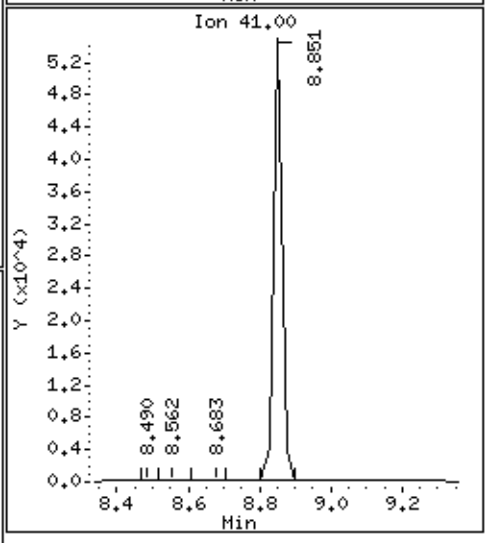
24 Methyl Methacrylate

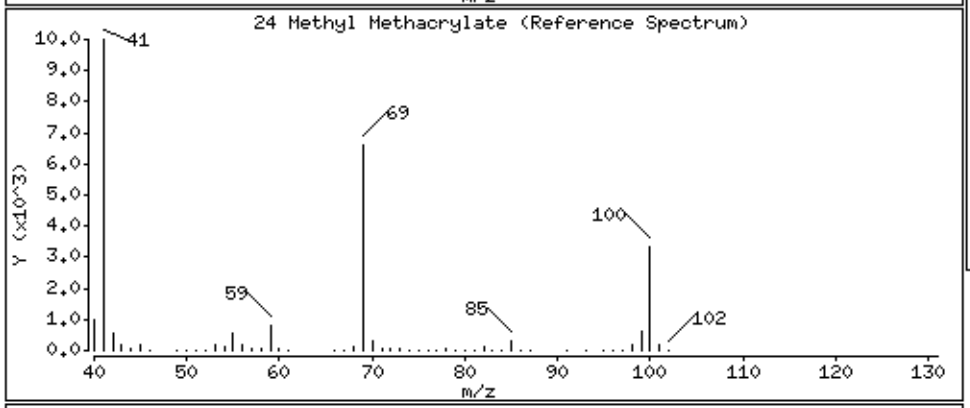
Concentration: 8.74583 ug

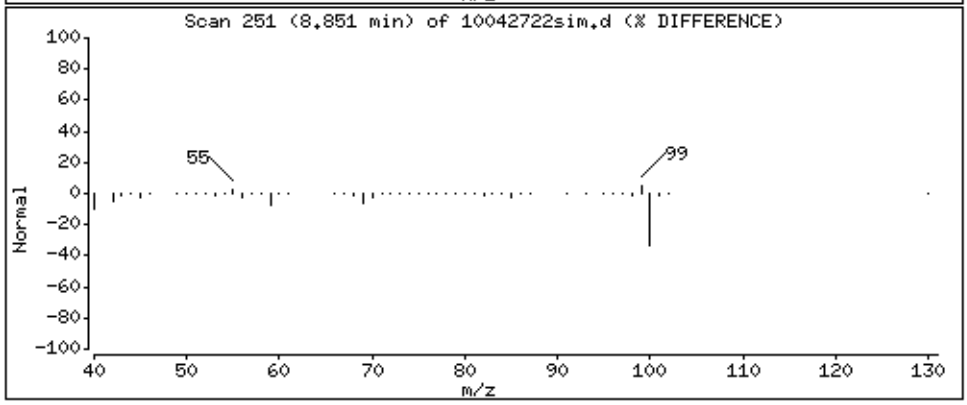












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

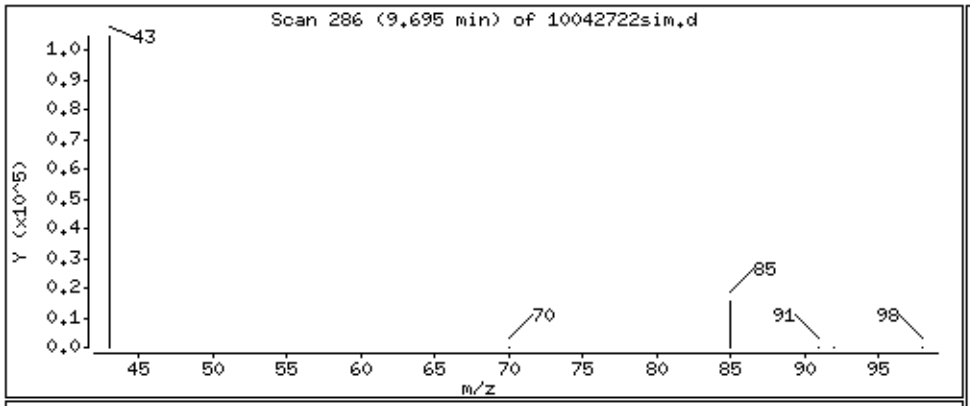
Operator: gm

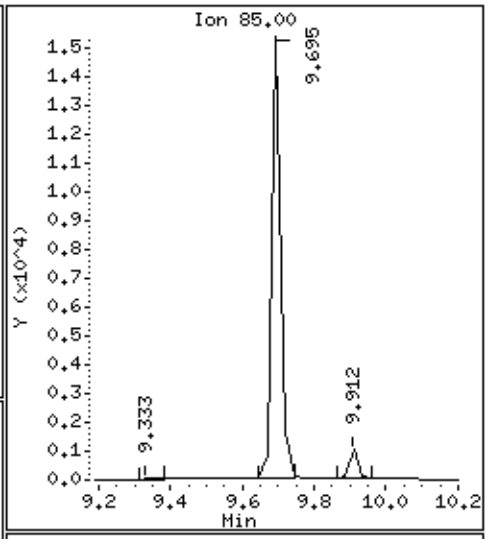
Column phase: DB-5.625

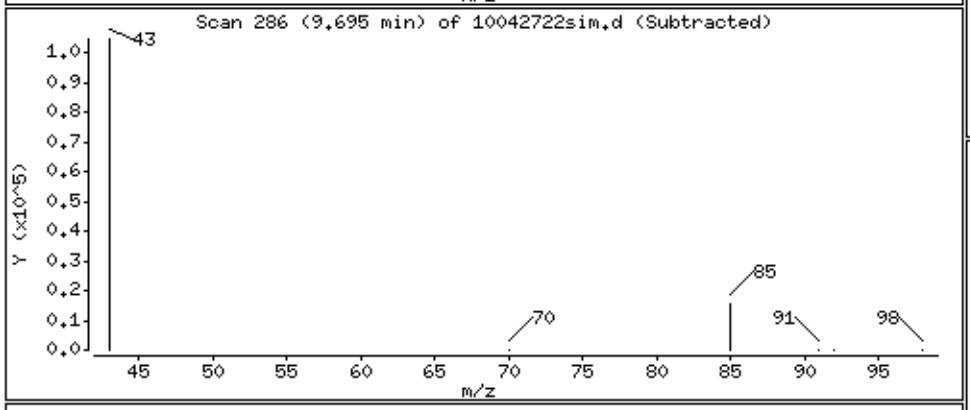
Column diameter: 0.25

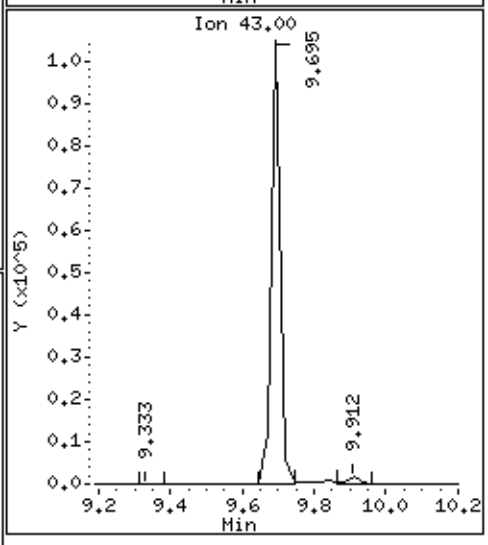
25 4-Methyl-2-pentanone

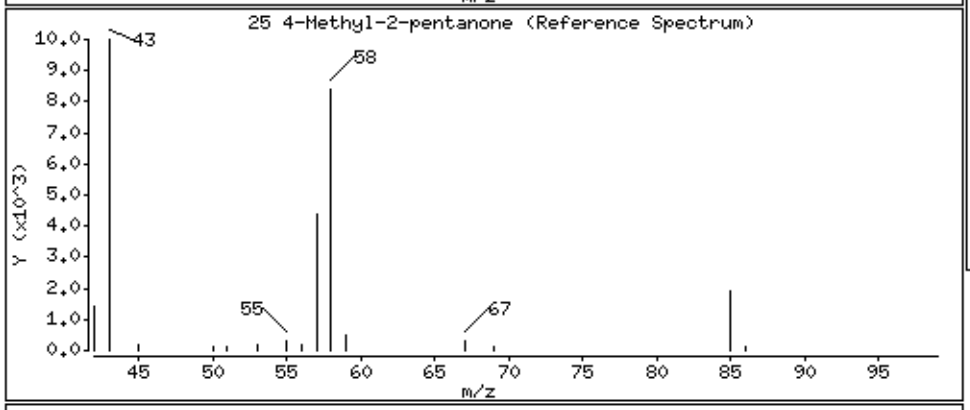
Concentration: 9.49657 ug

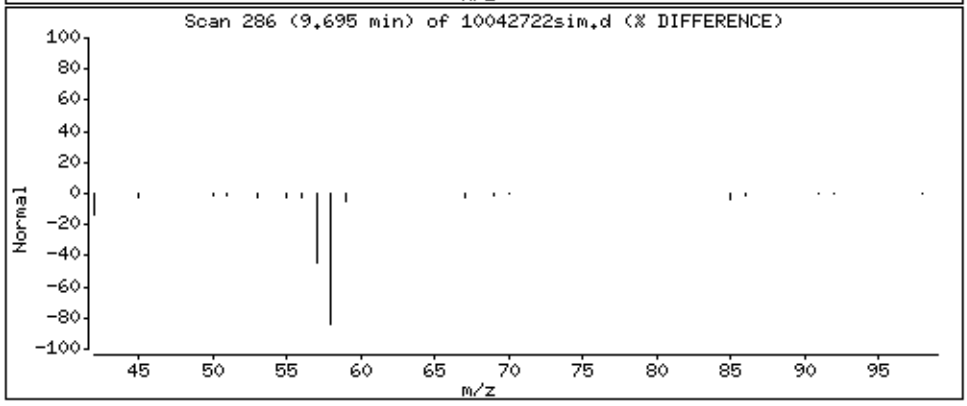












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

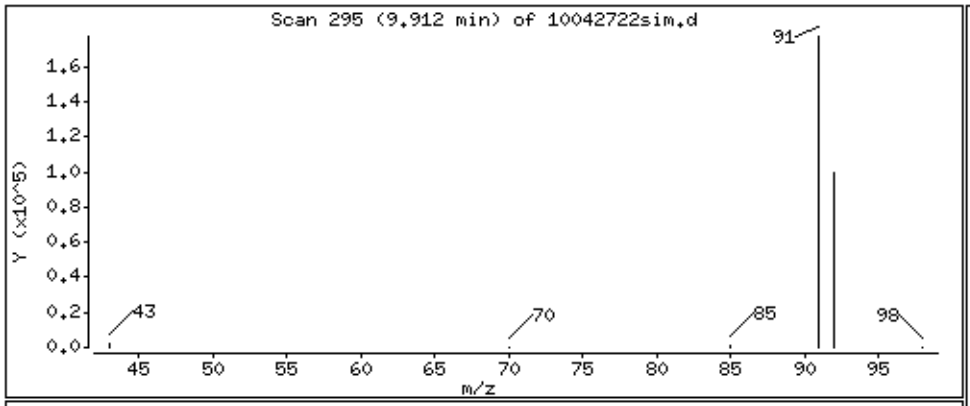
Operator: gm

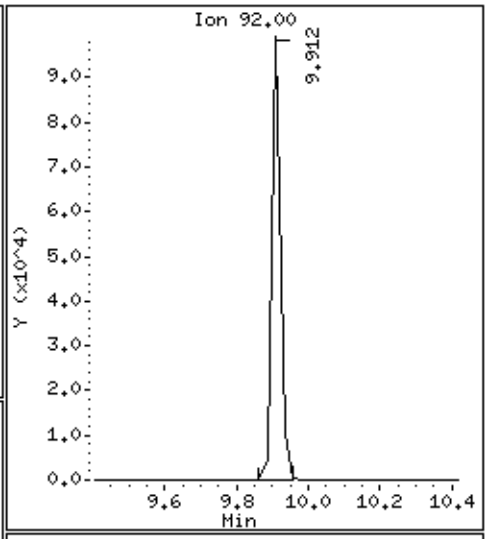
Column phase: DB-5.625

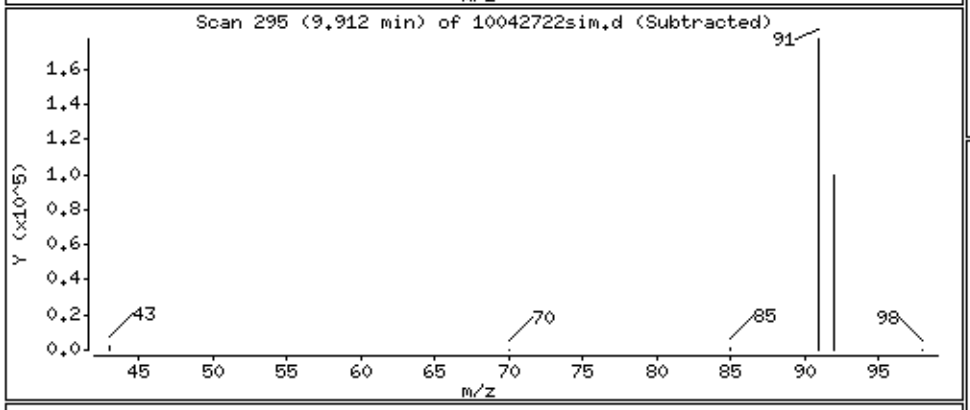
Column diameter: 0.25

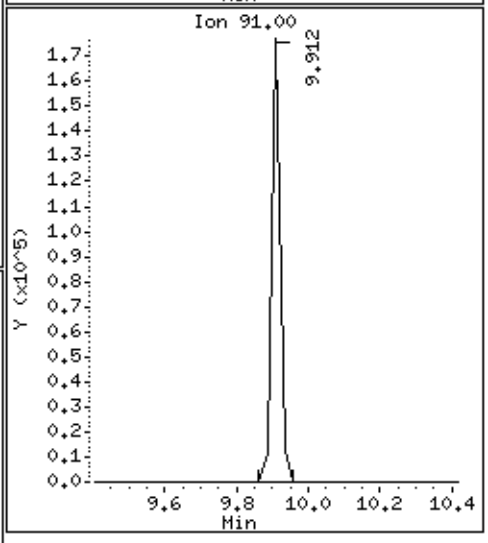
28 Toluene-CCC

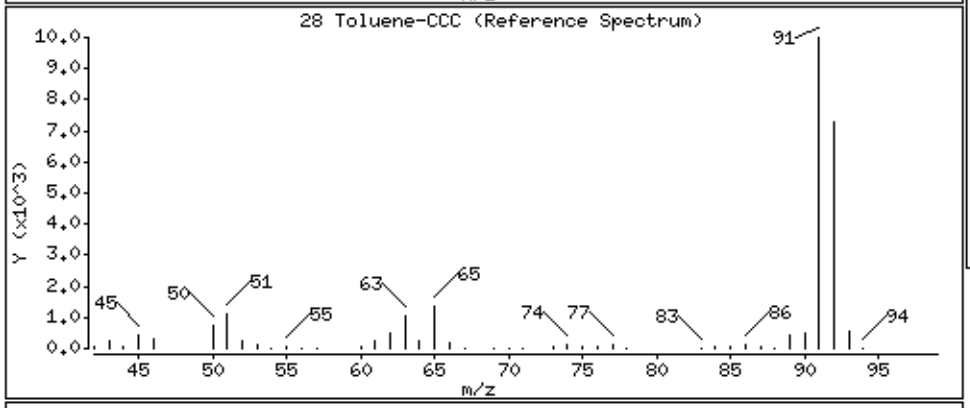
Concentration: 8.96590 ug

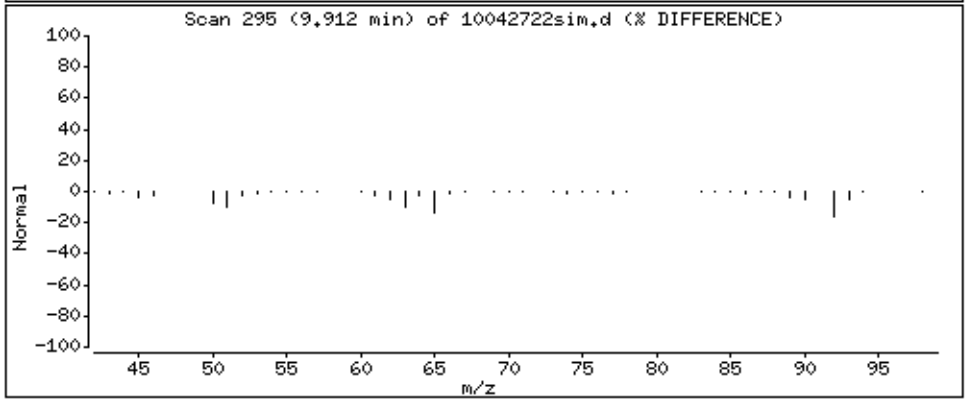












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

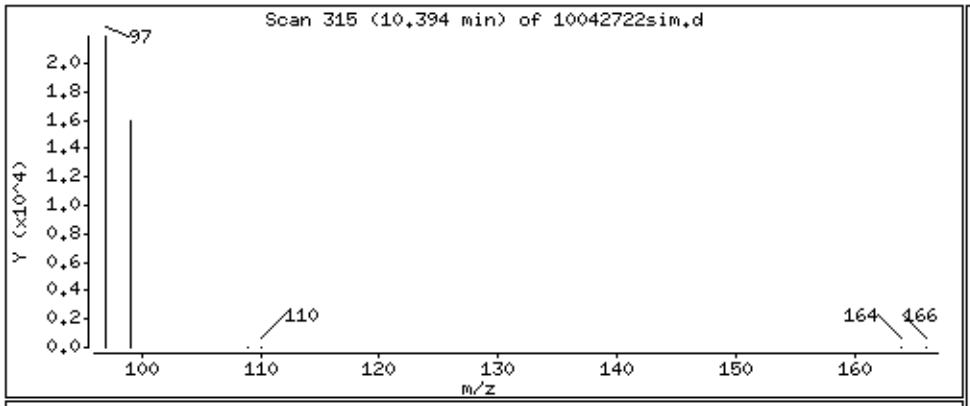
Operator: gm

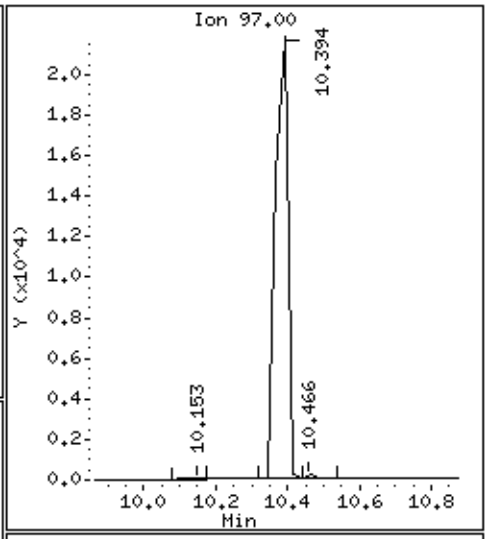
Column phase: DB-5.625

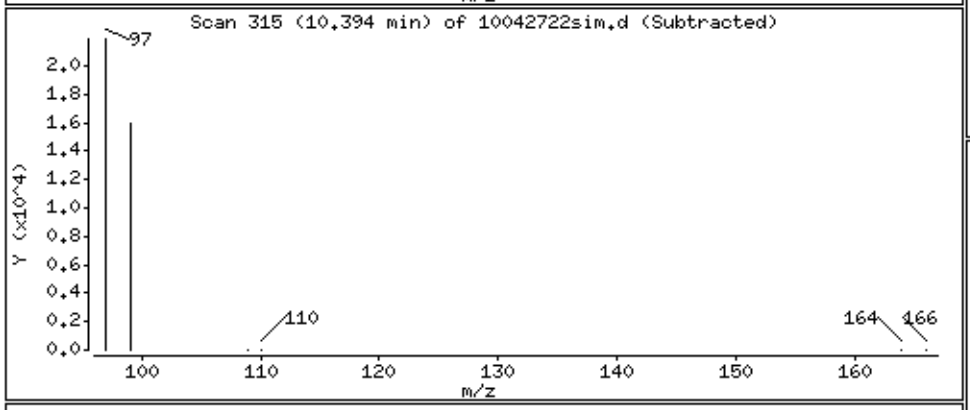
Column diameter: 0.25

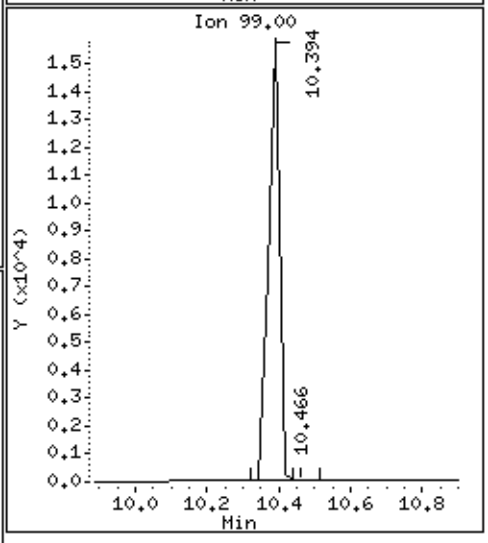
30 1,1,2-Trichloroethane

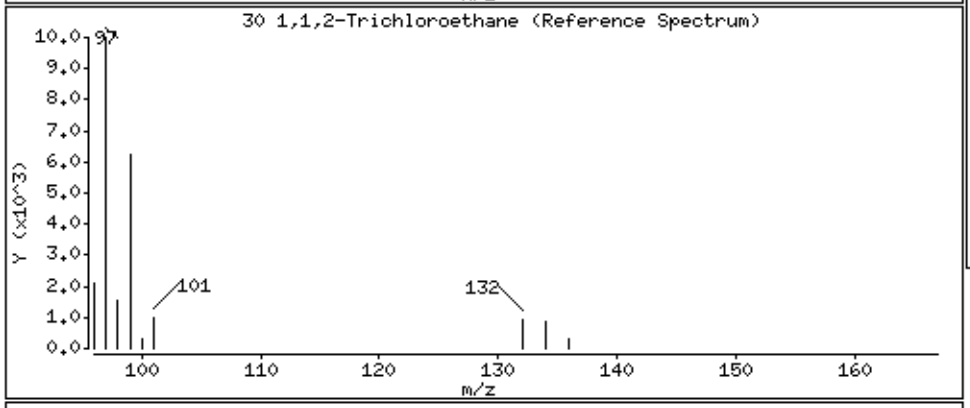
Concentration: 8.91486 ug

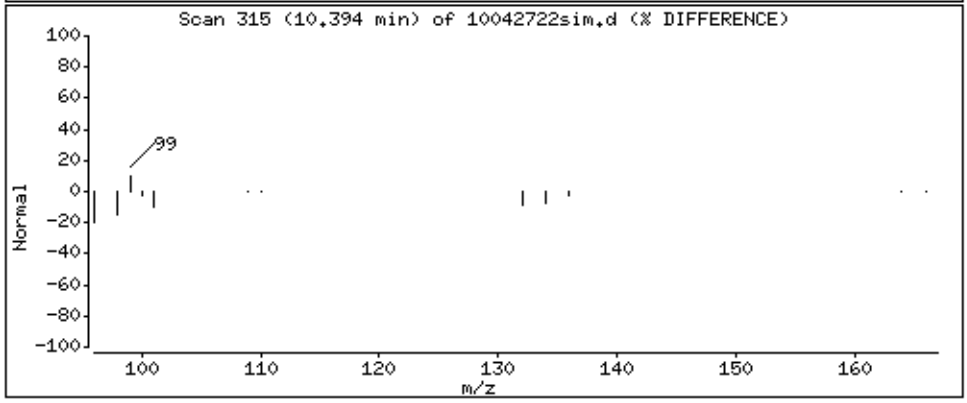












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

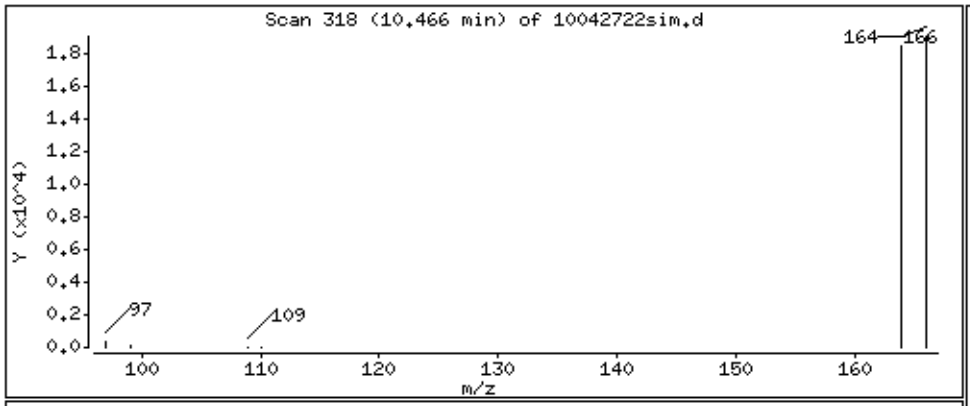
Operator: gm

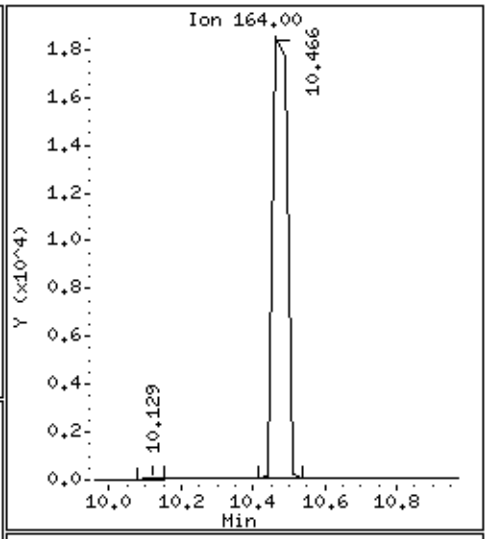
Column phase: DB-5.625

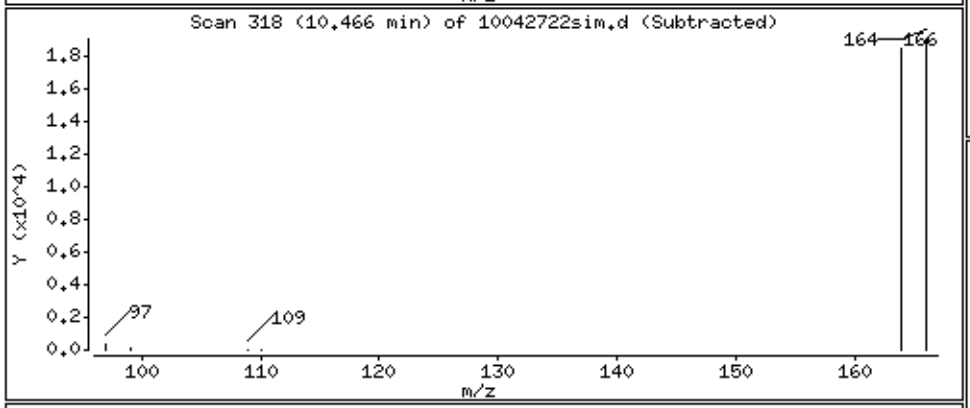
Column diameter: 0.25

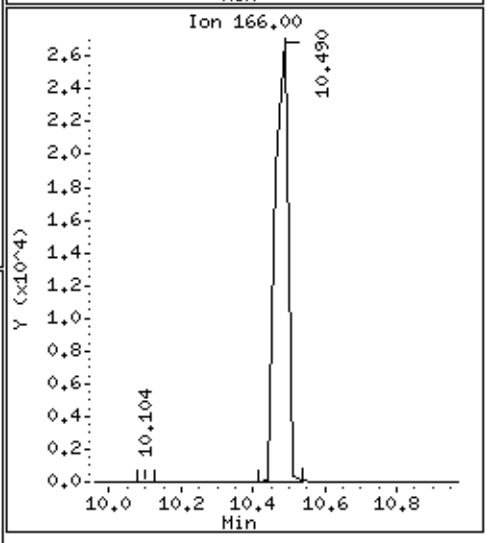
31 Tetrachloroethene

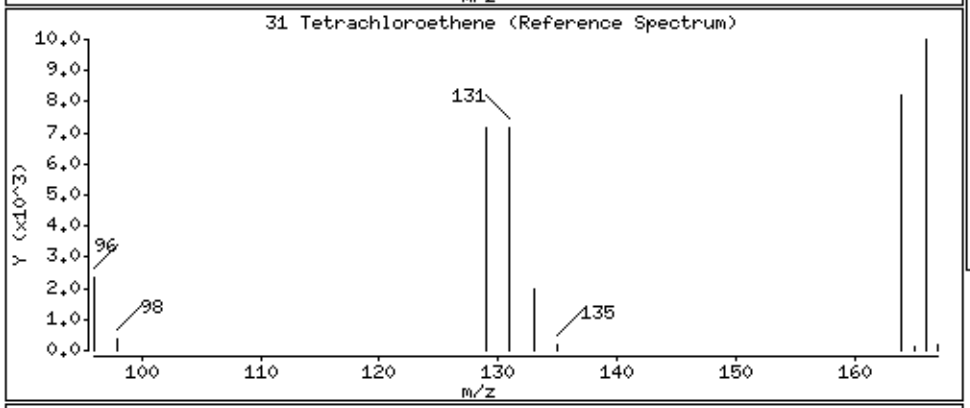
Concentration: 9.01468 ug

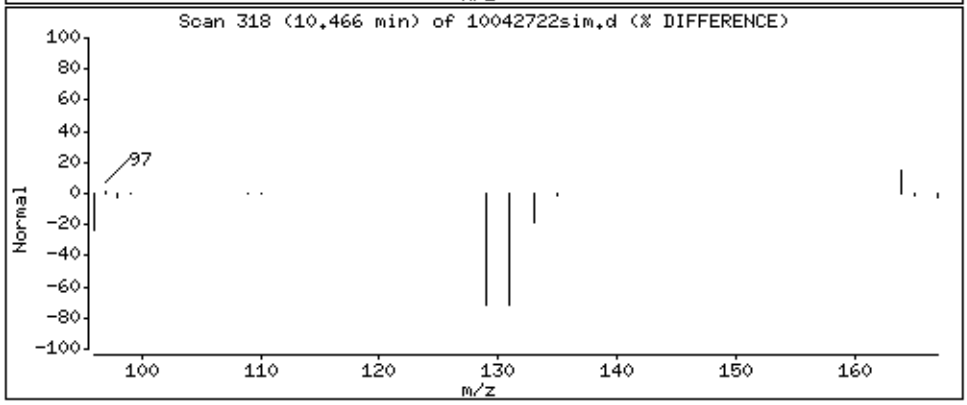












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

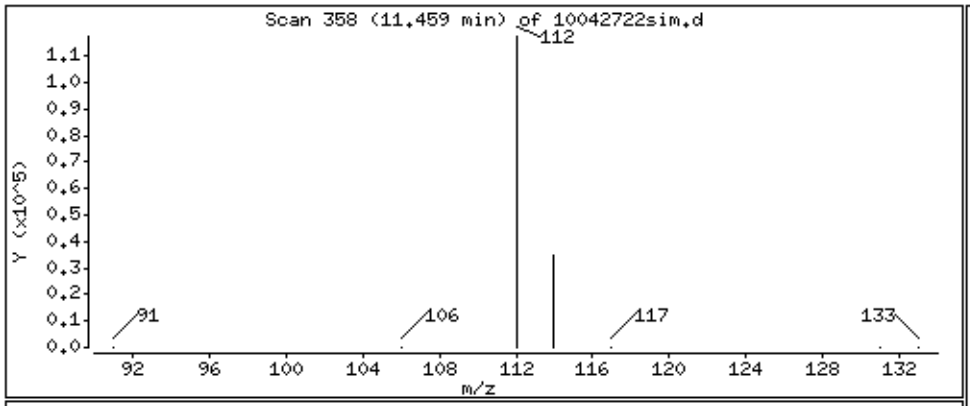
Operator: gm

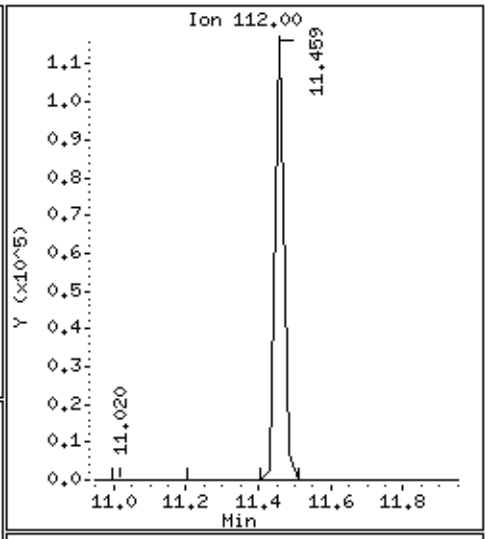
Column phase: DB-5.625

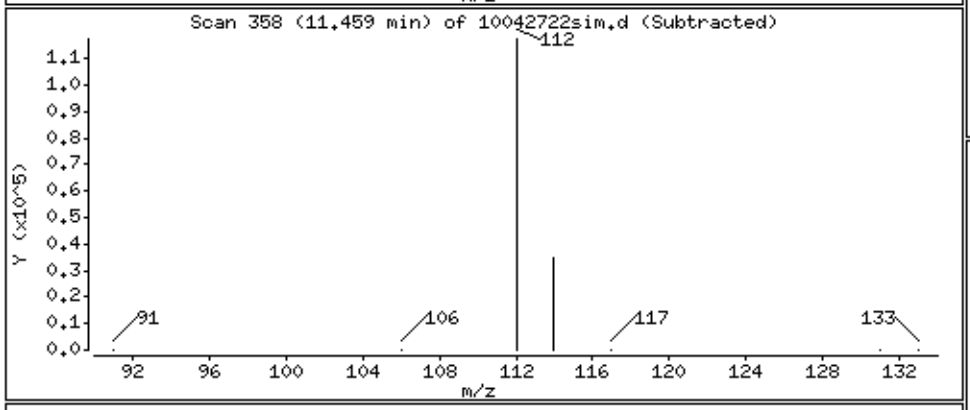
Column diameter: 0.25

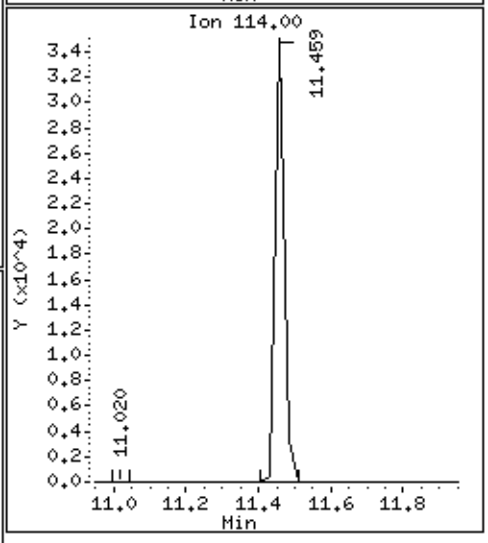
32 Chlorobenzene

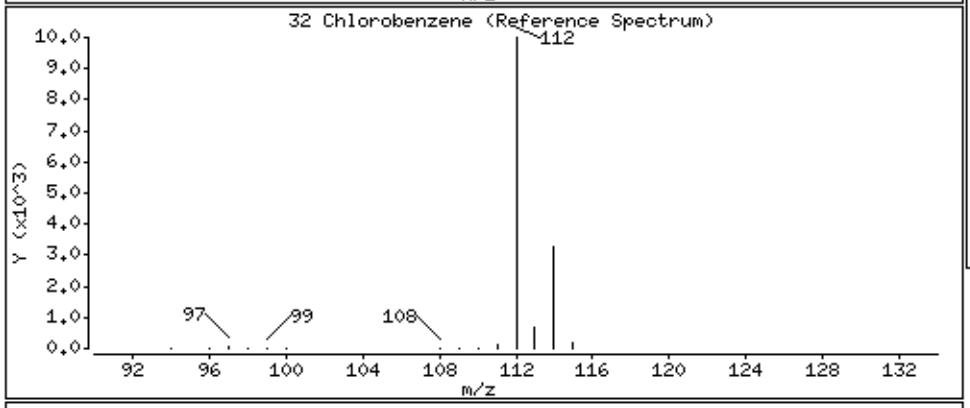
Concentration: 8.44831 ug

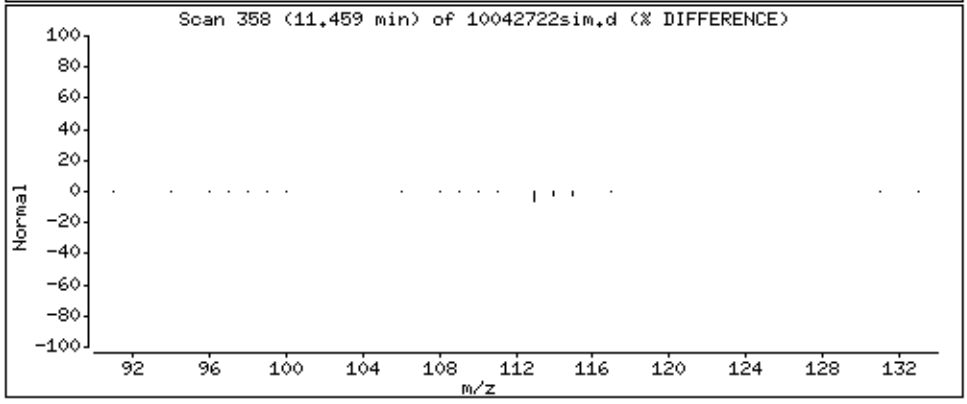












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

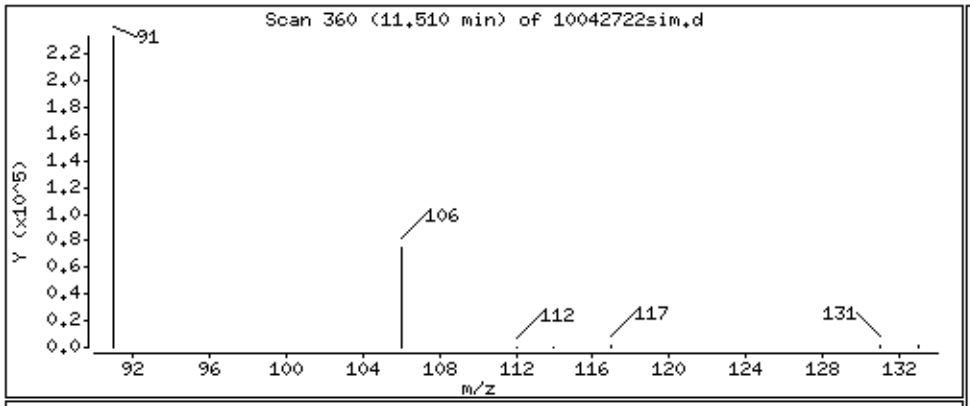
Operator: gm

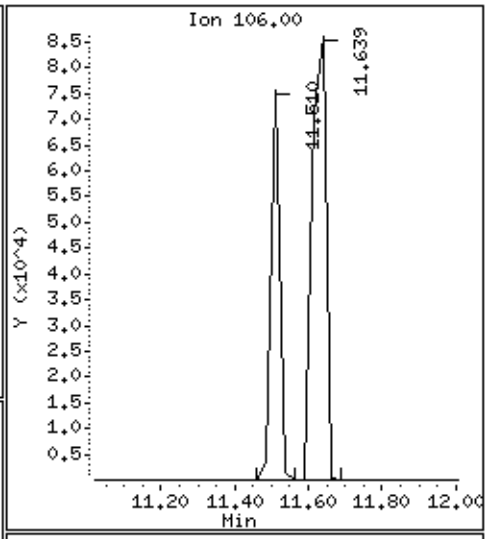
Column phase: DB-5.625

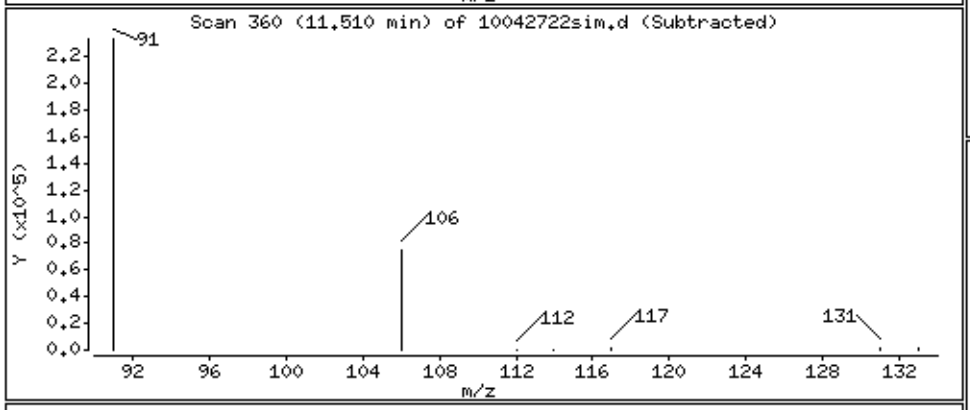
Column diameter: 0.25

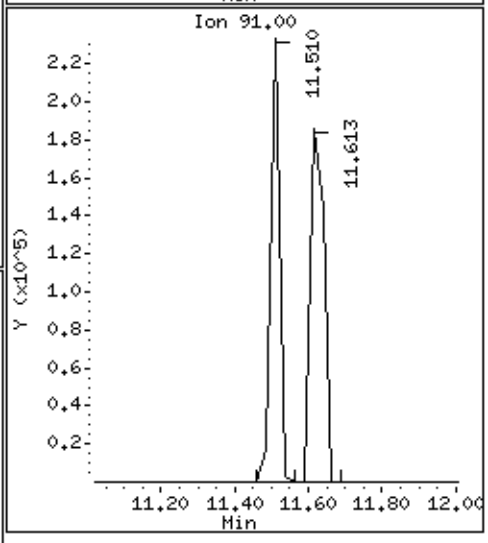
33 Ethylbenzene-CCC

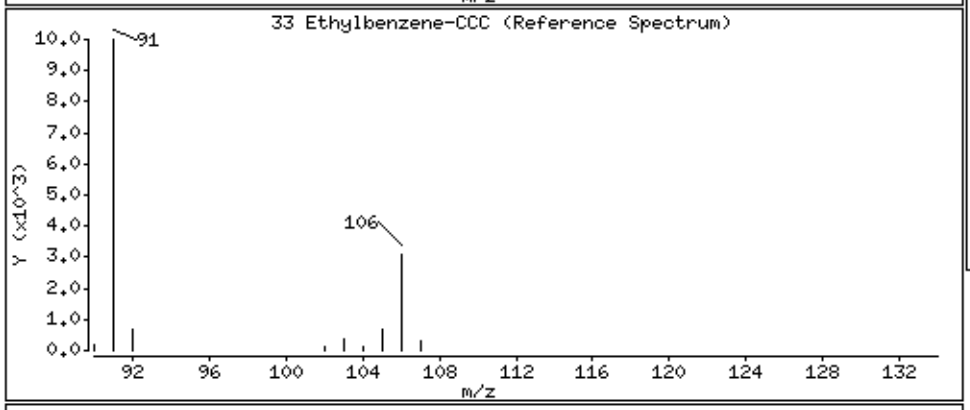
Concentration: 9.82448 ug

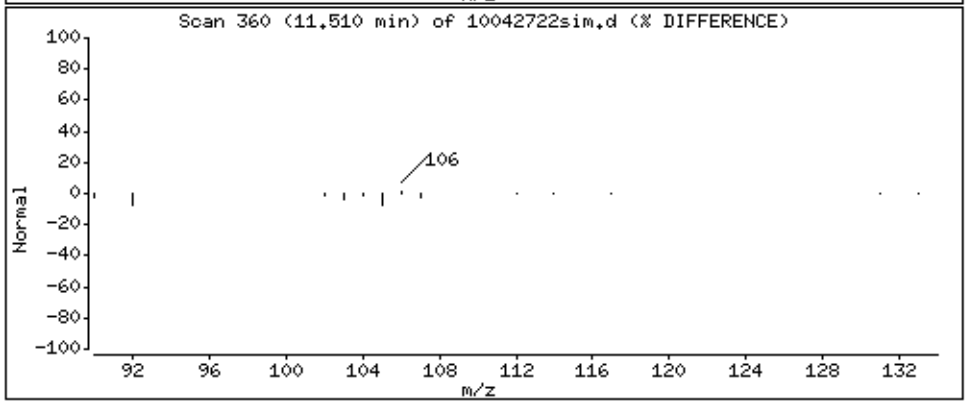












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

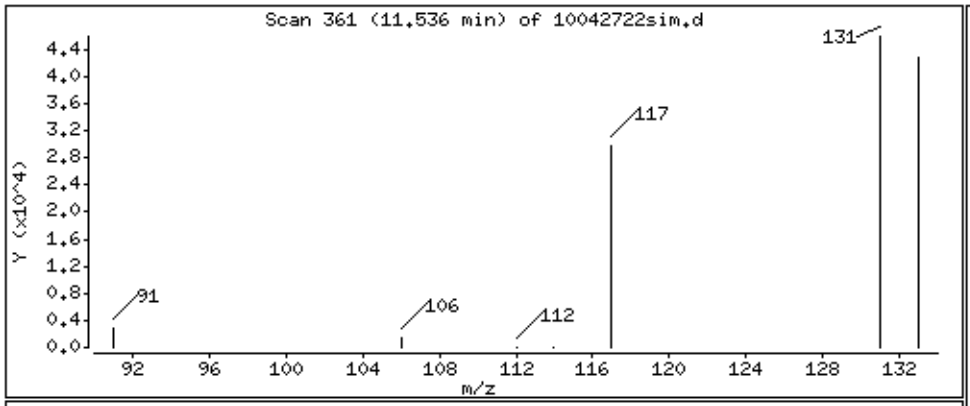
Operator: gm

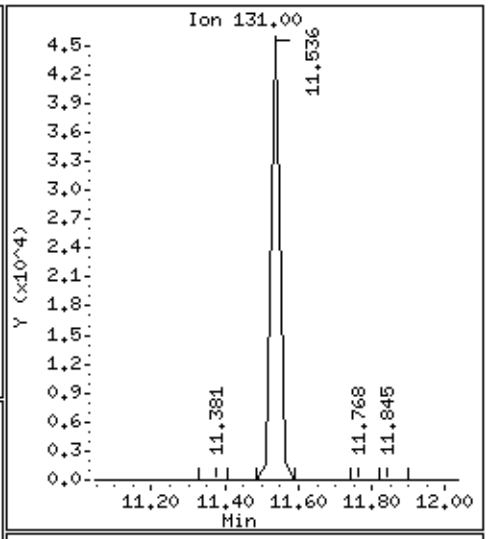
Column phase: DB-5.625

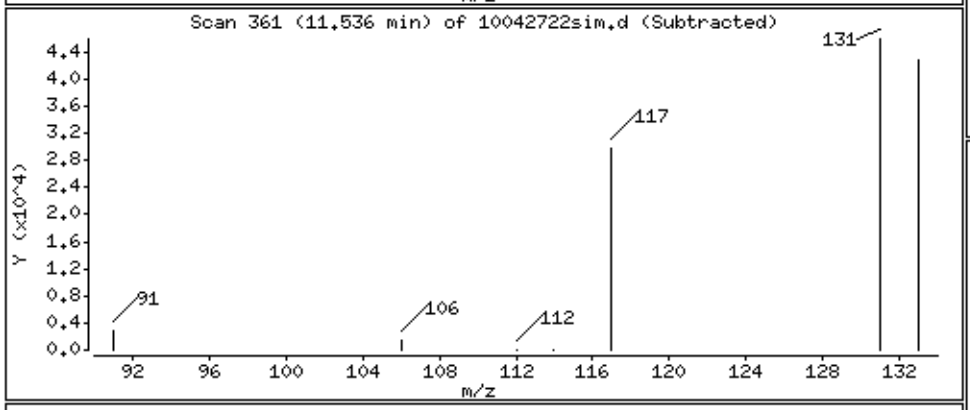
Column diameter: 0.25

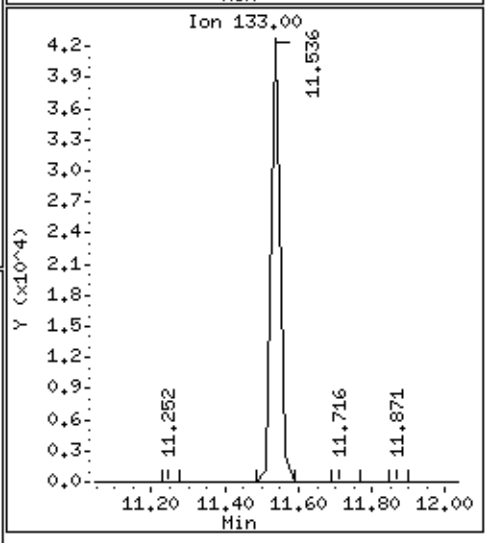
209 1,1,1,2-Tetrachloroethane

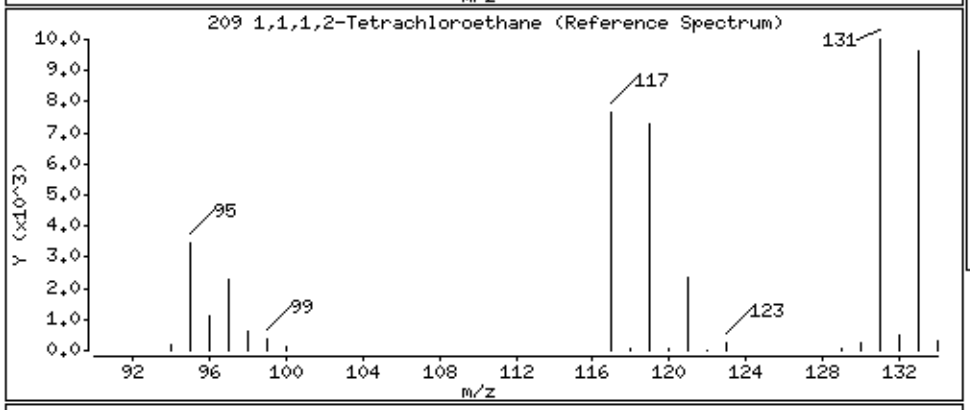
Concentration: 9.62868 ug

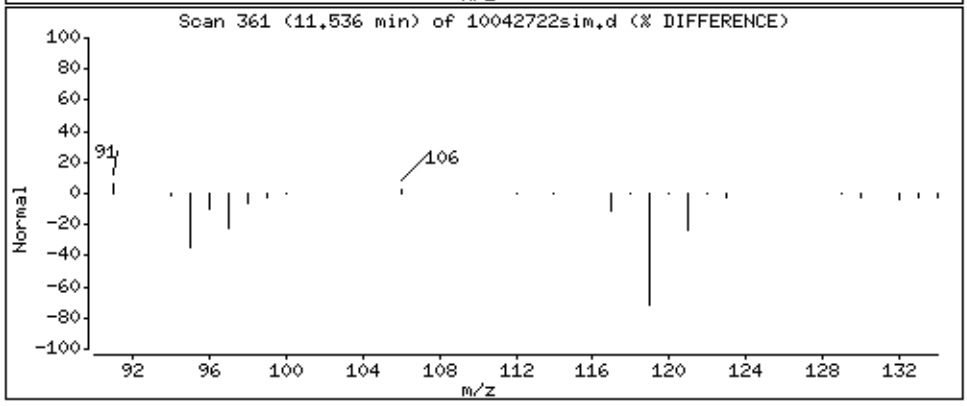












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

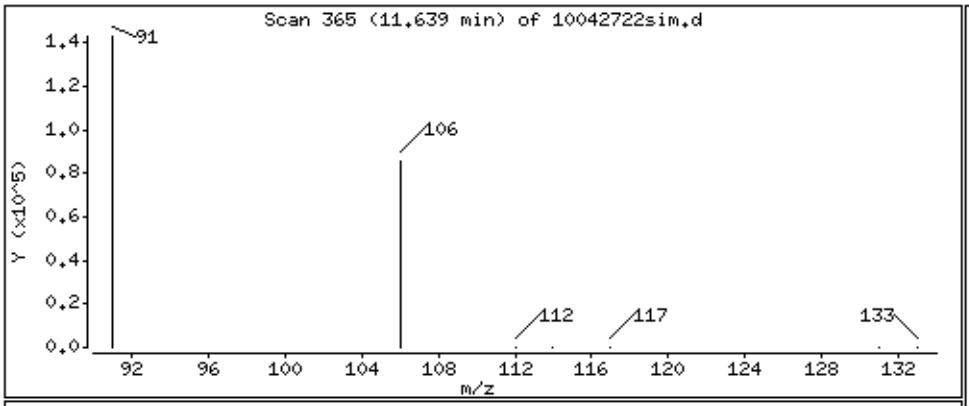
Operator: gm

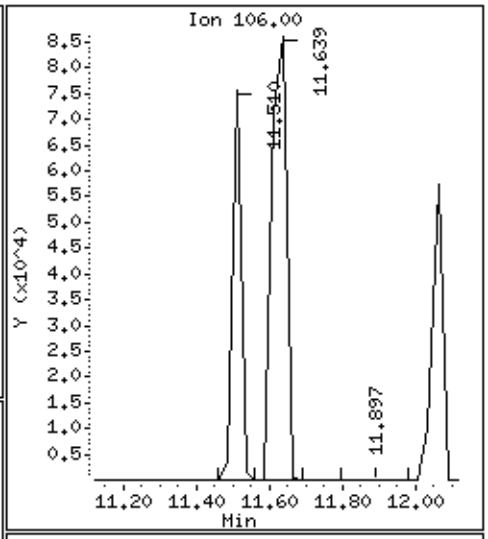
Column phase: DB-5.625

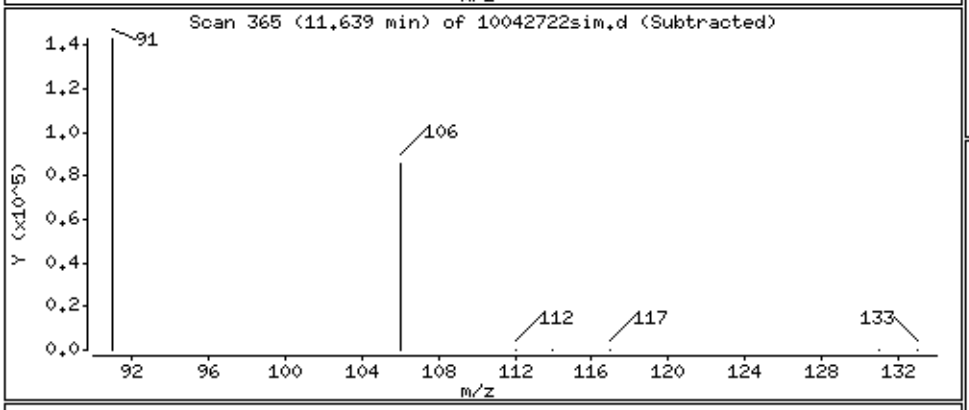
Column diameter: 0.25

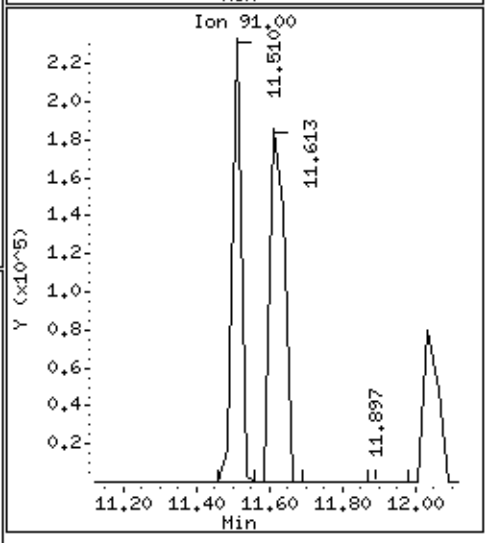
34 m,p-Xylene

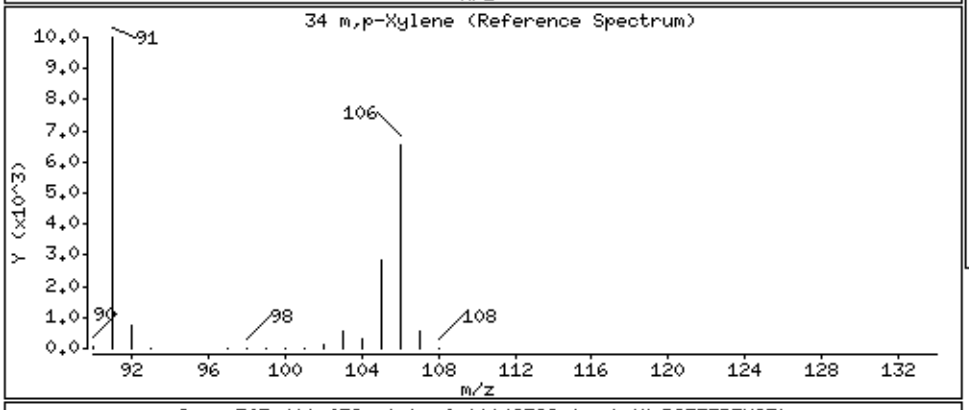
Concentration: 18.4410 ug

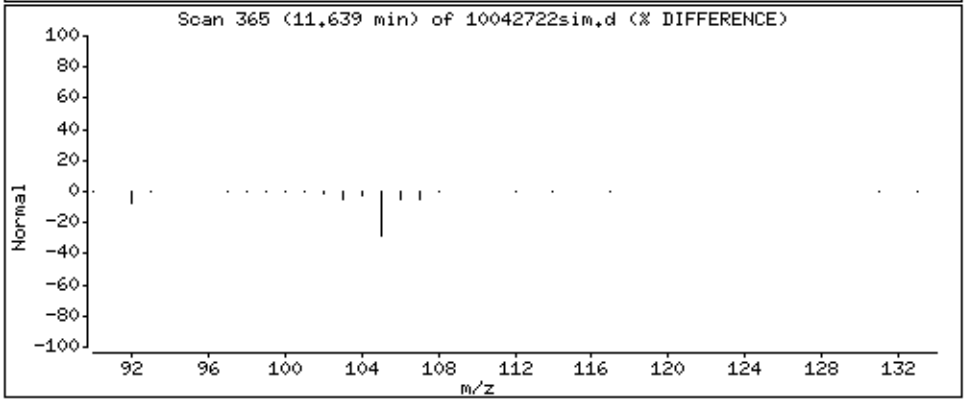












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

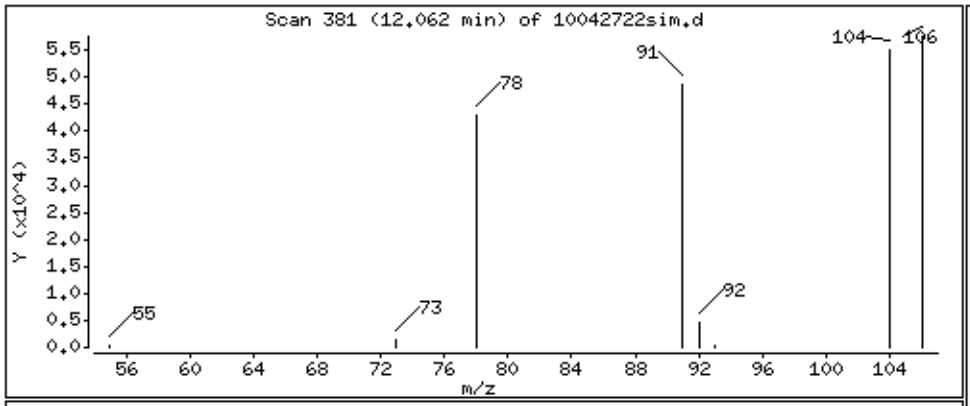
Operator: gm

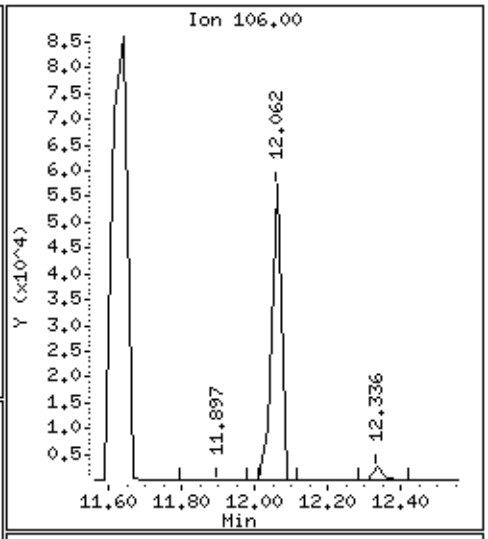
Column phase: DB-5.625

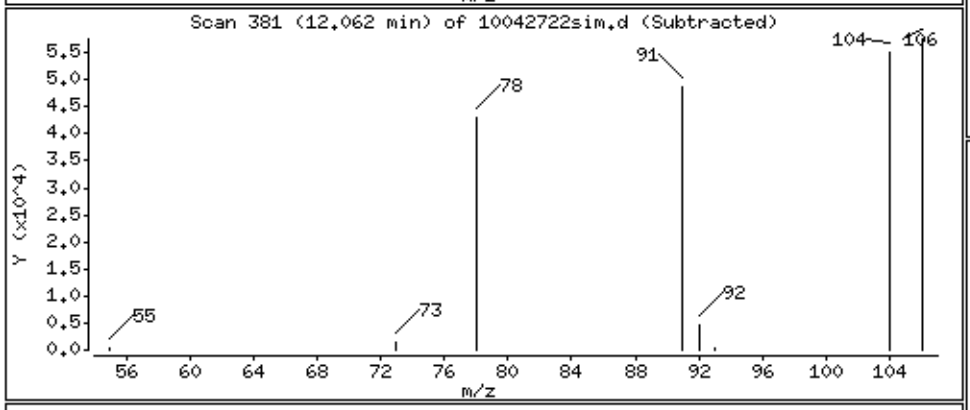
Column diameter: 0.25

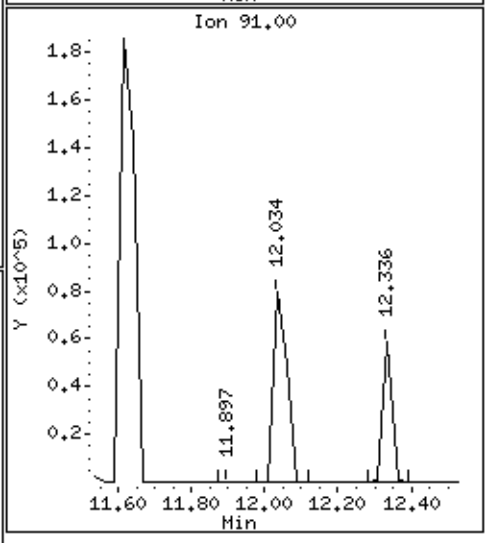
36 o-Xylene

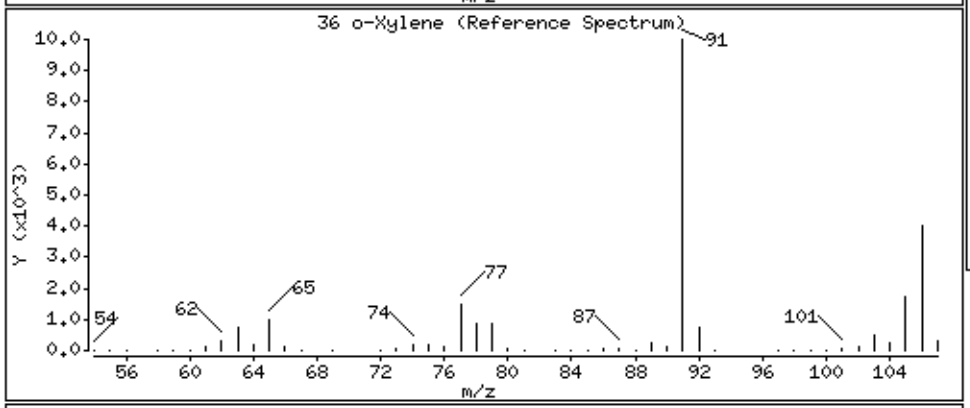
Concentration: 8.62050 ug

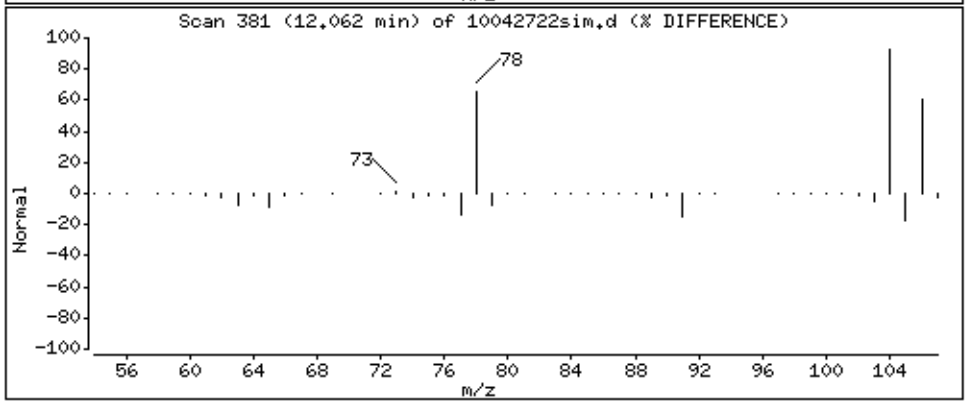












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

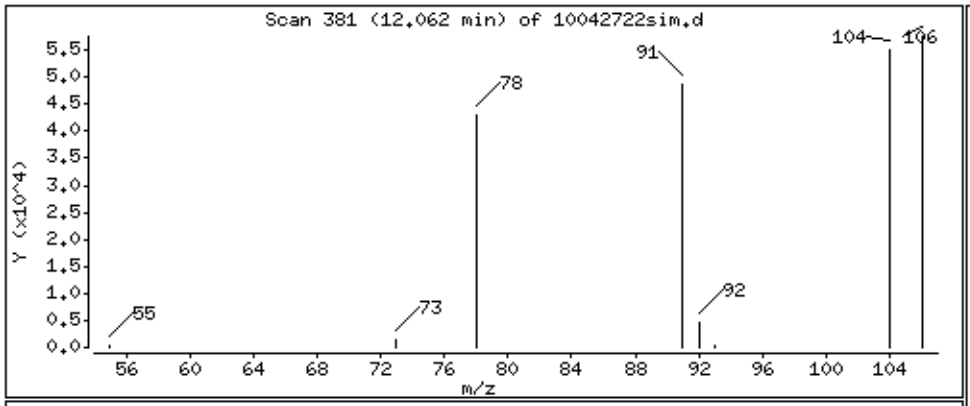
Operator: gm

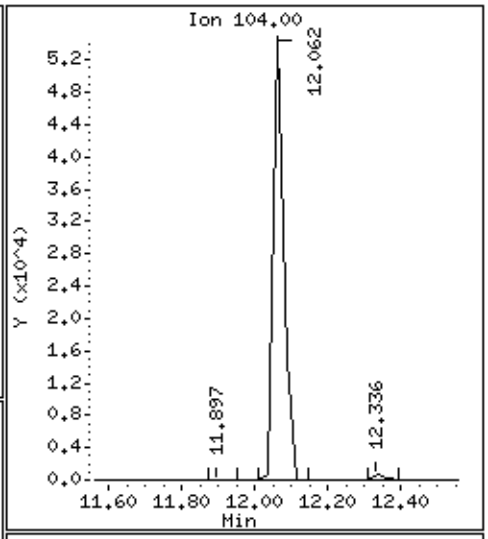
Column phase: DB-5.625

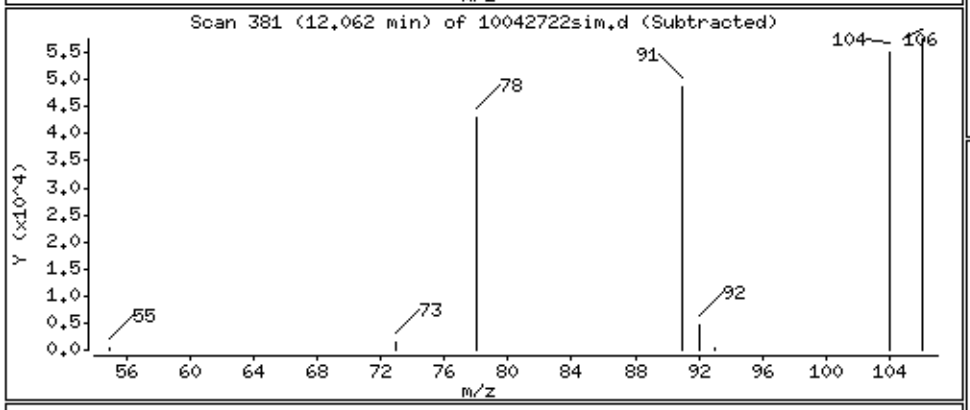
Column diameter: 0.25

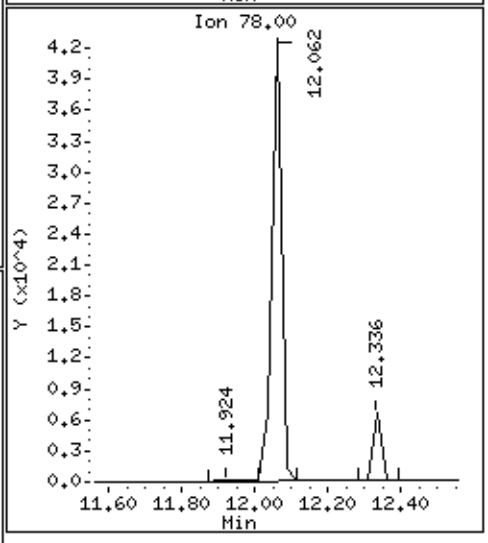
37 Styrene

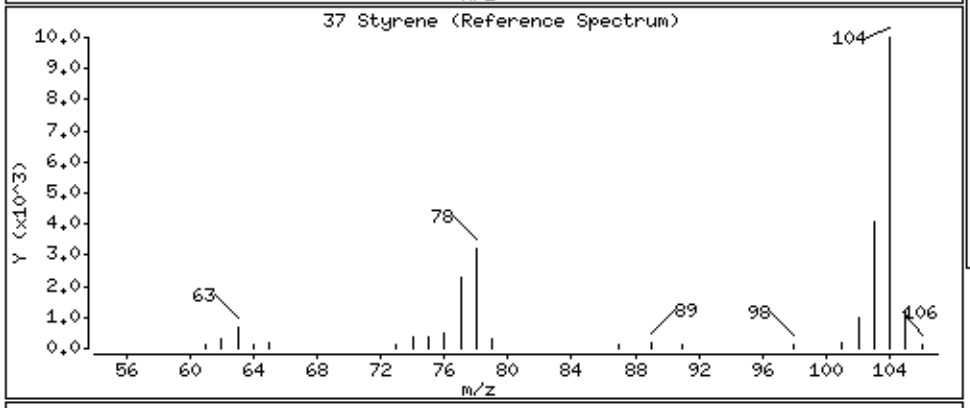
Concentration: 5.39151 ug

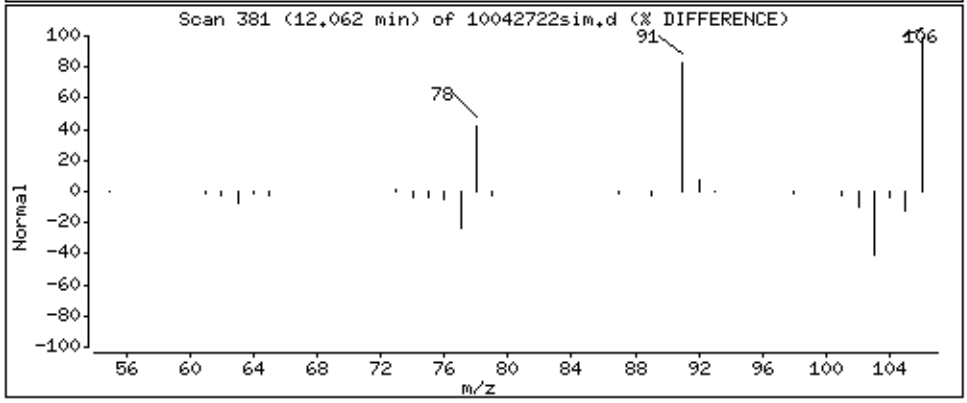












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

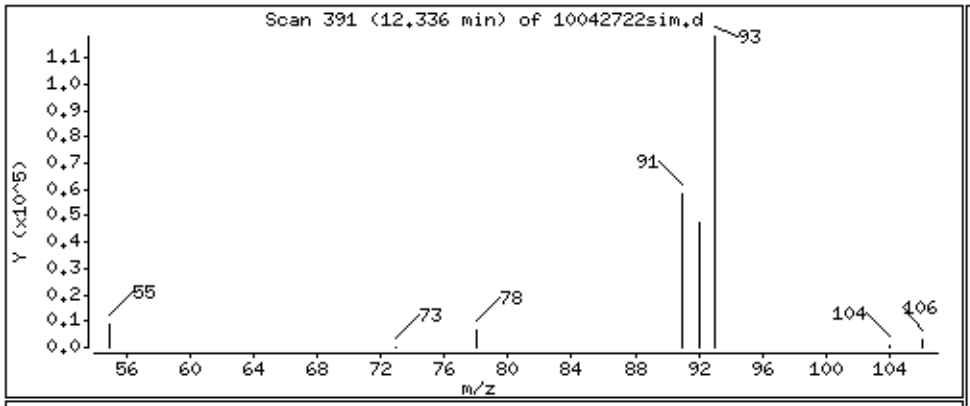
Operator: gm

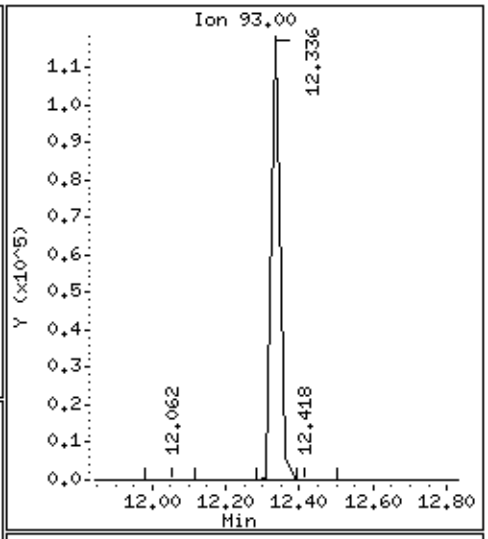
Column phase: DB-5.625

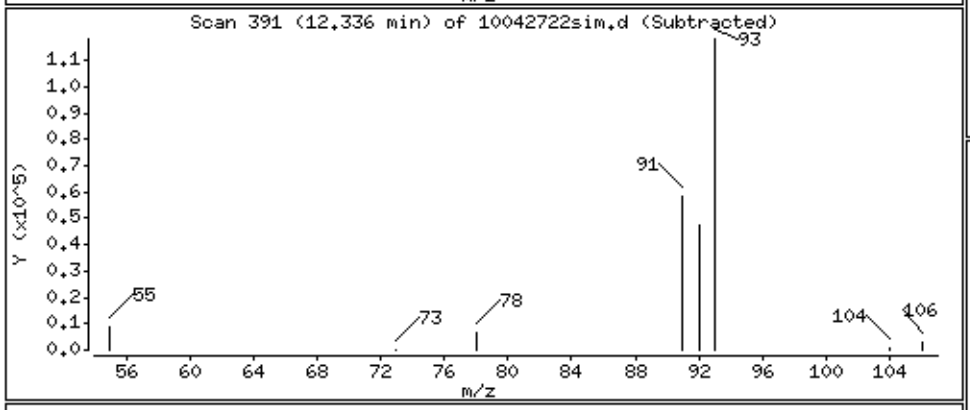
Column diameter: 0.25

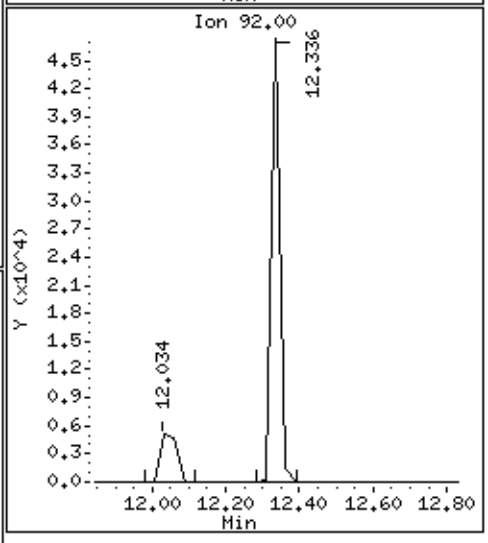
38 a-Pinene

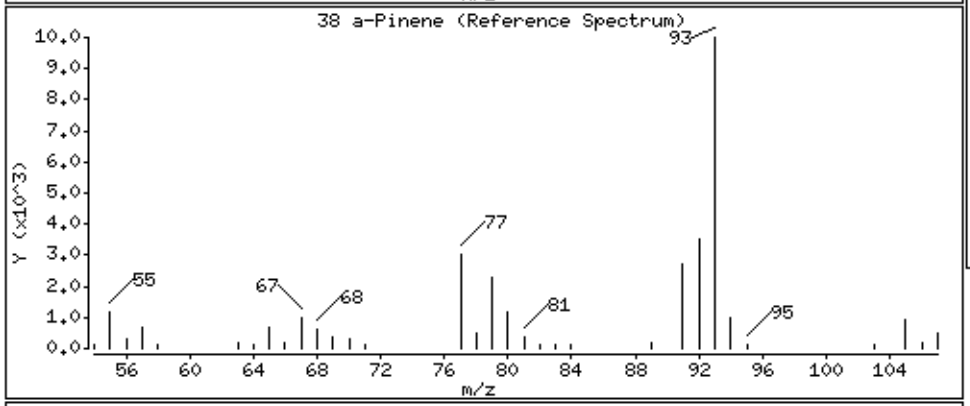
Concentration: 11.4706 ug

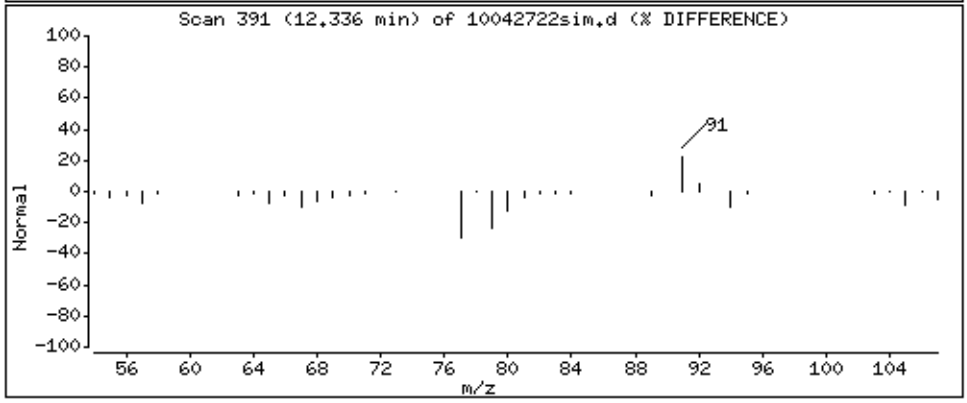












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

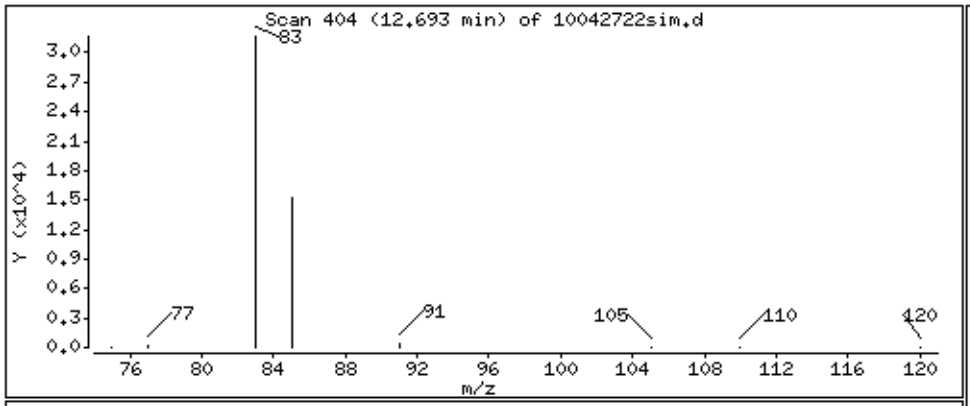
Operator: gm

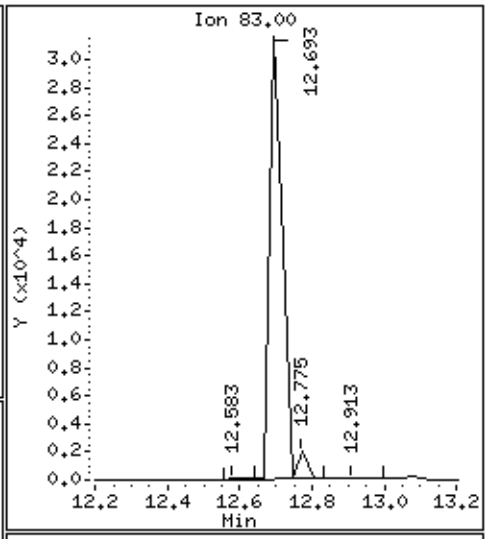
Column phase: DB-5.625

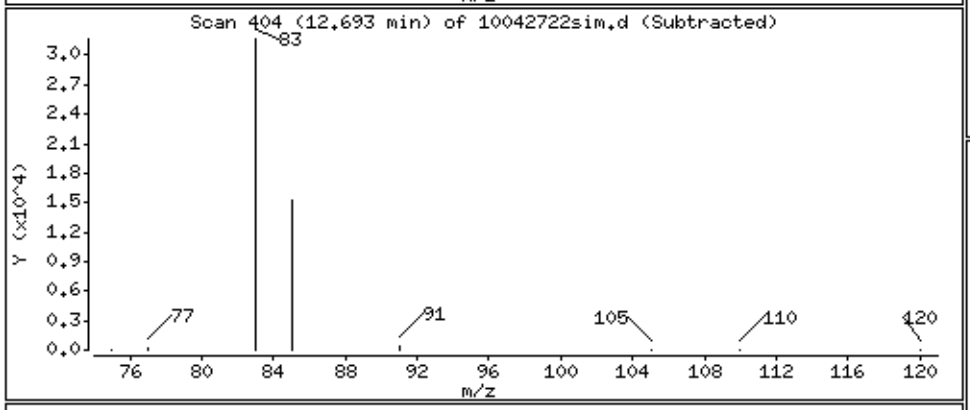
Column diameter: 0.25

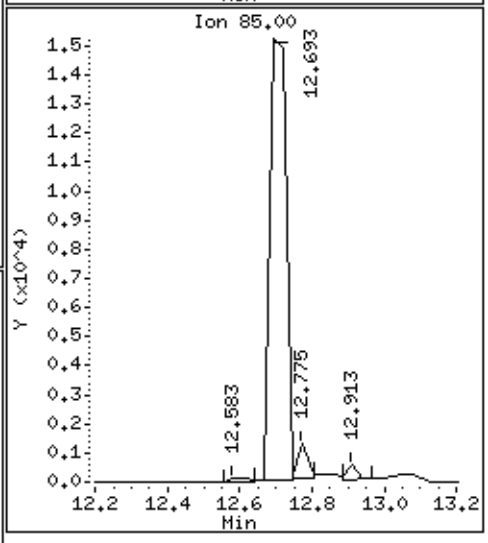
39 1,1,2,2-Tetrachloroethane-SPC

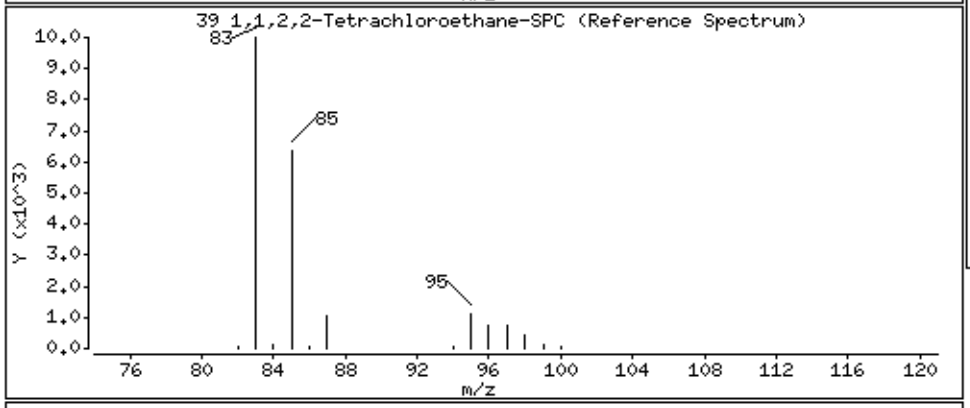
Concentration: 8.37351 ug

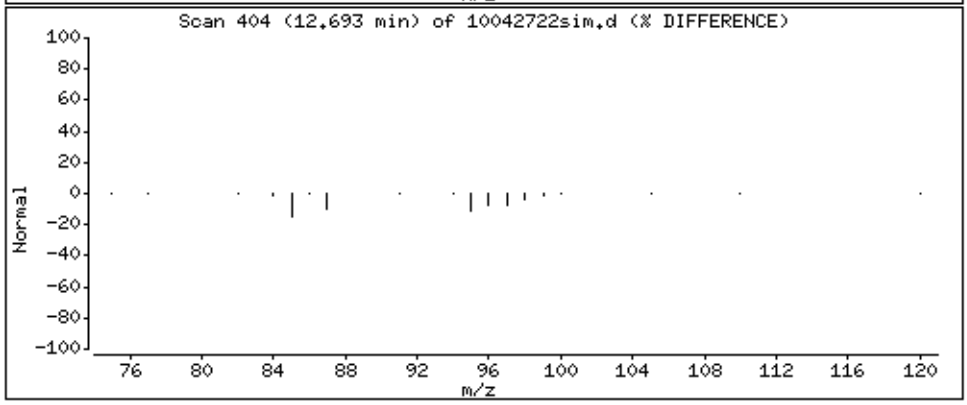












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

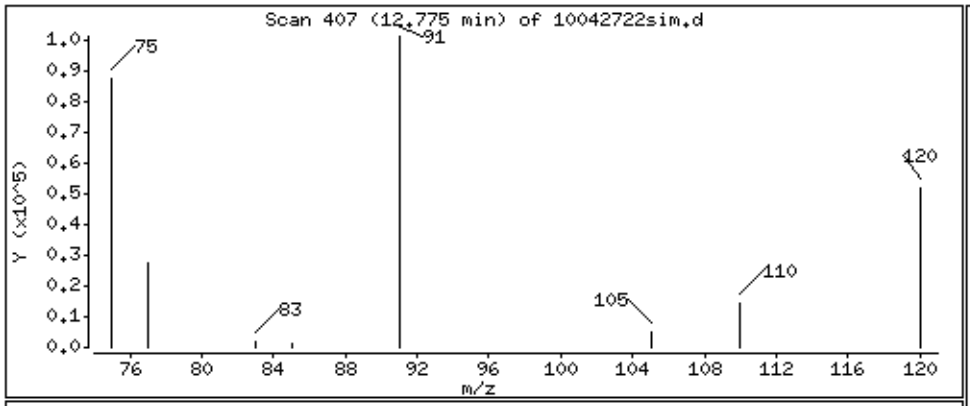
Operator: gm

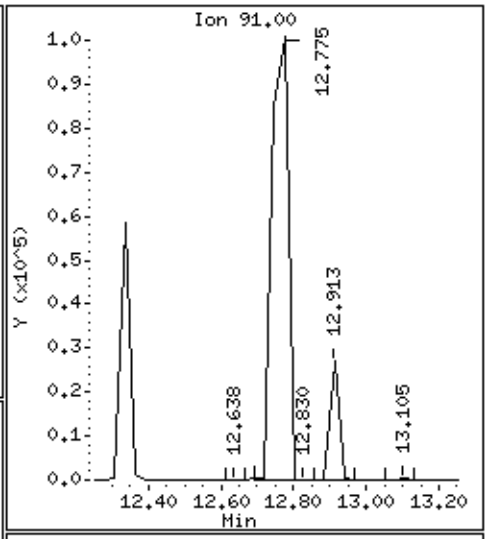
Column phase: DB-5.625

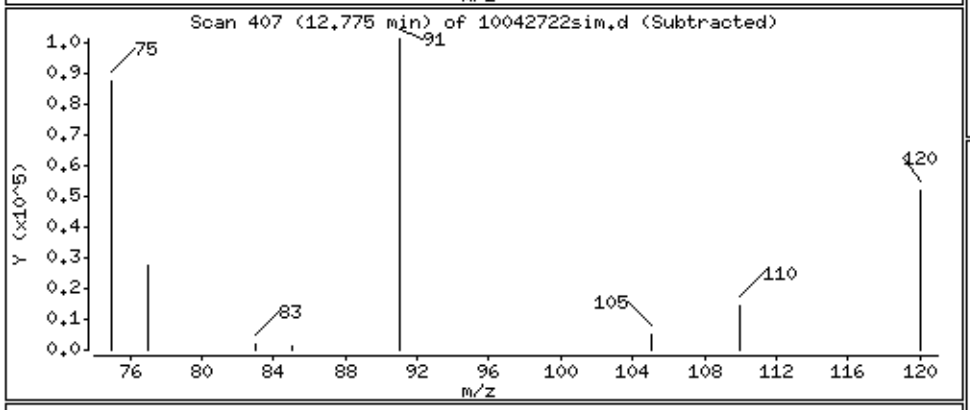
Column diameter: 0.25

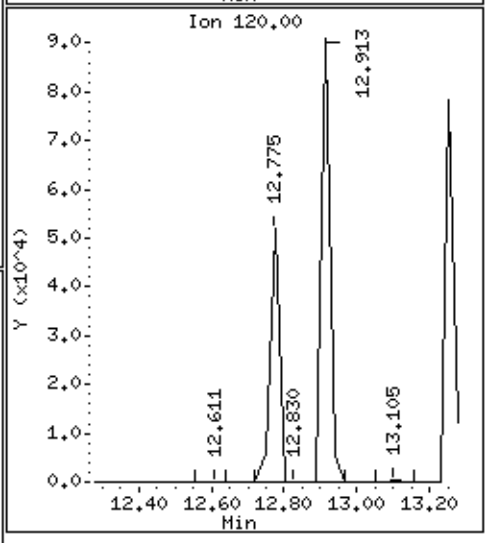
40 Propylbenzene

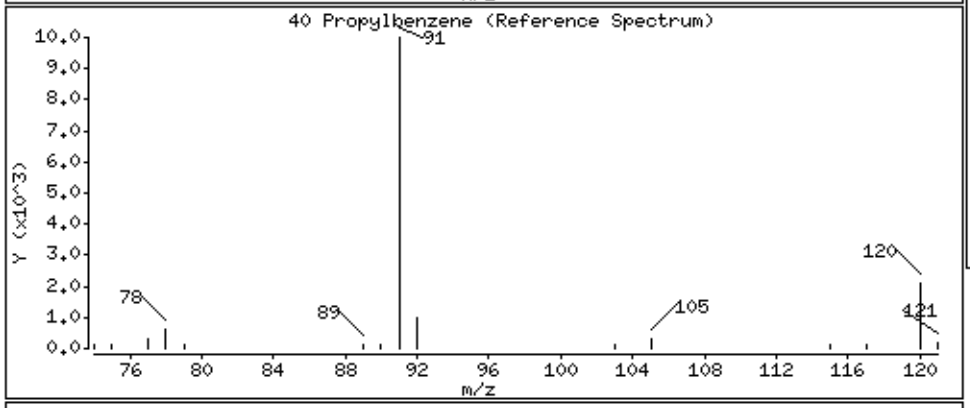
Concentration: 9.02976 ug

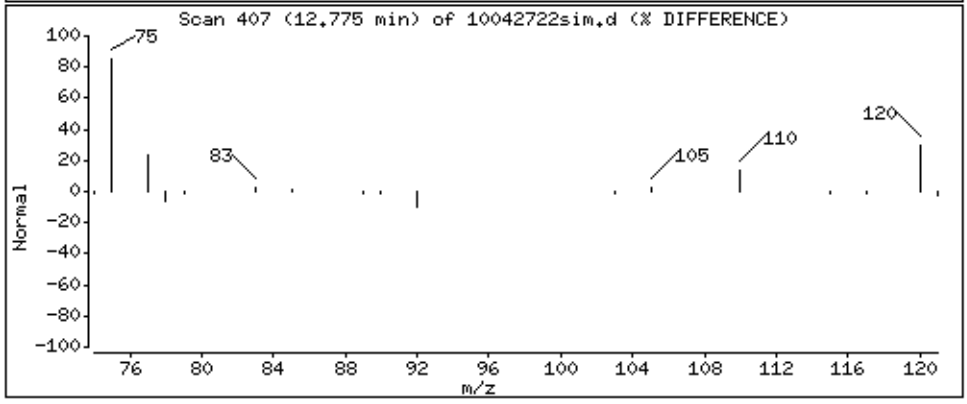












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

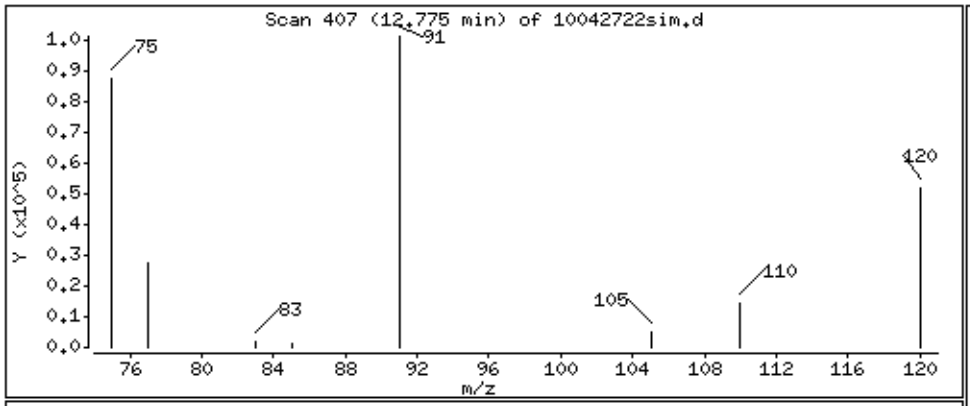
Operator: gm

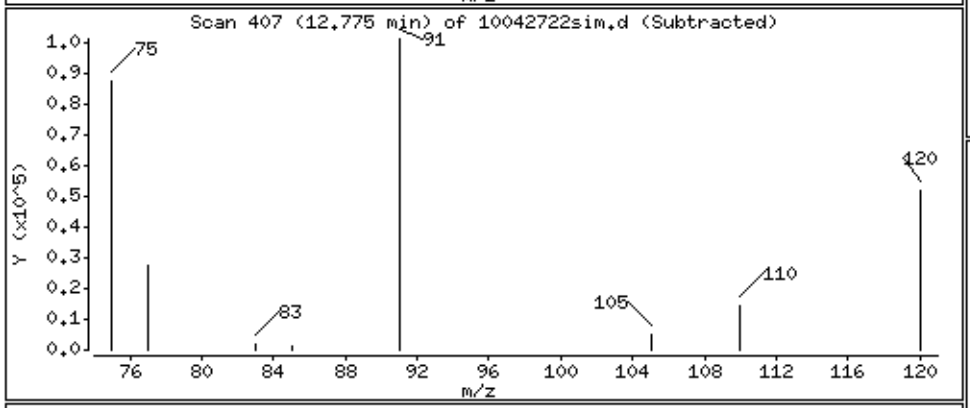
Column phase: DB-5.625

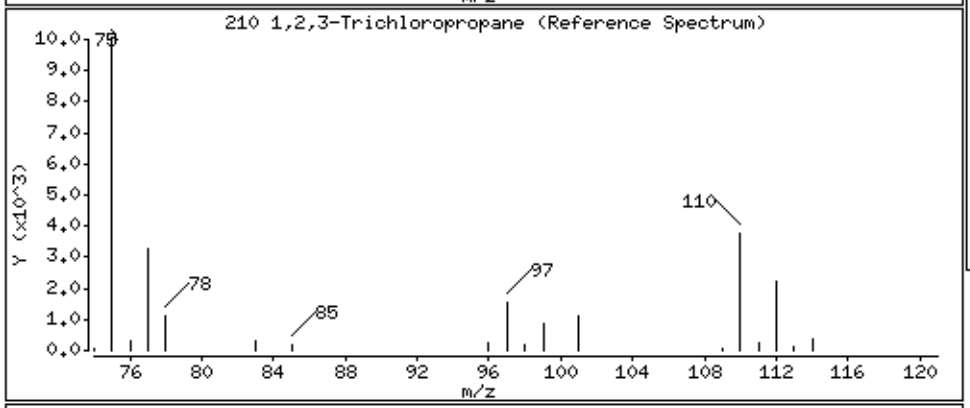
Column diameter: 0.25

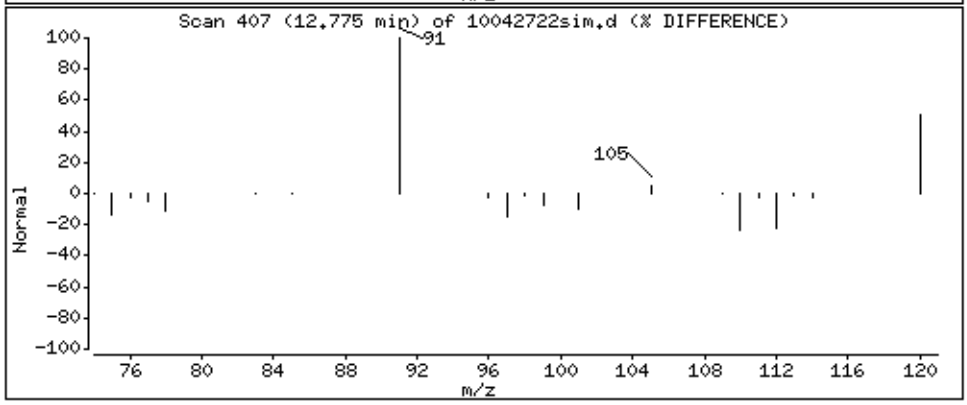
210 1,2,3-Trichloropropane

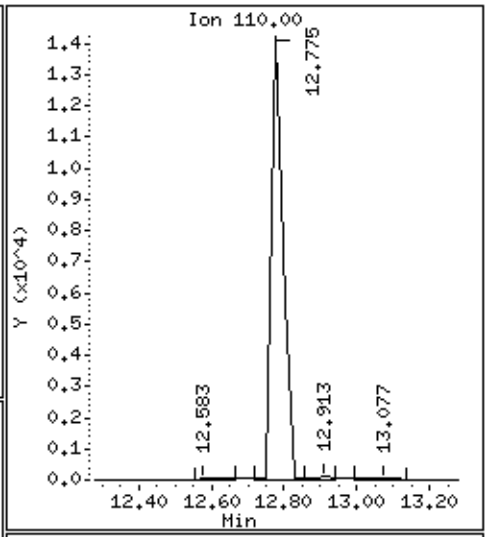
Concentration: 8.58096 ug

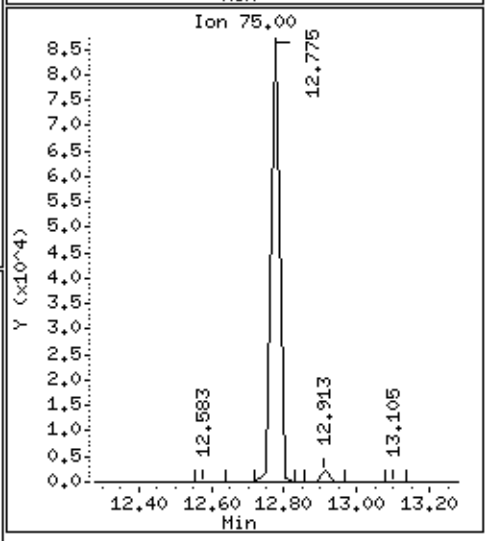












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

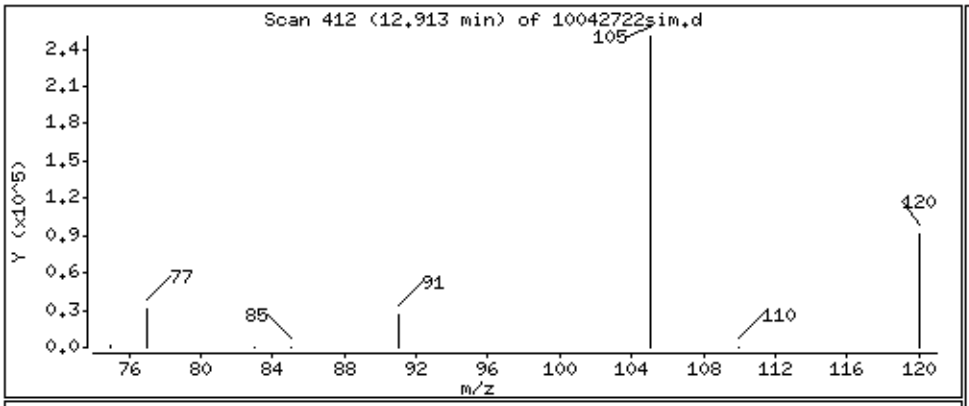
Operator: gm

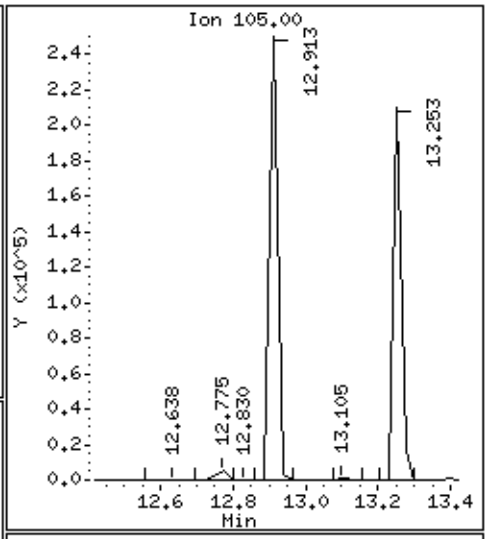
Column phase: DB-5.625

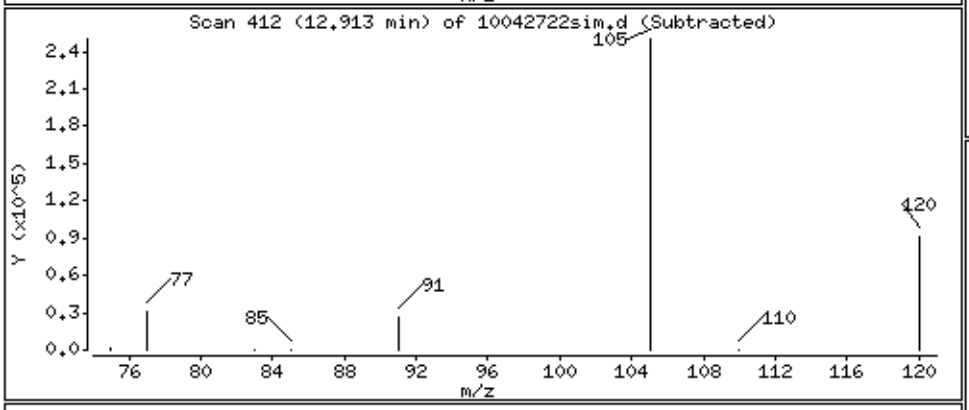
Column diameter: 0.25

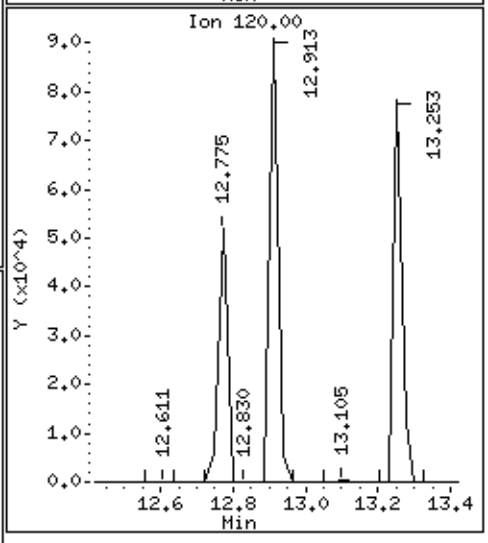
41 1,3,5-Trimethylbenzene

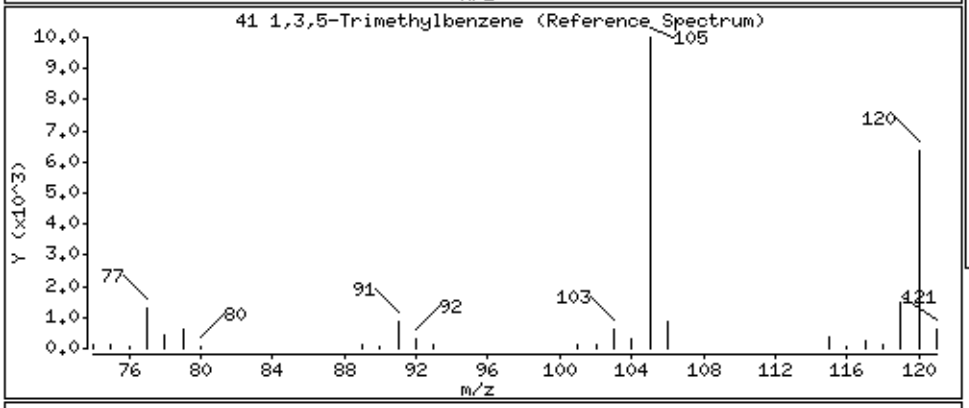
Concentration: 9.99074 ug

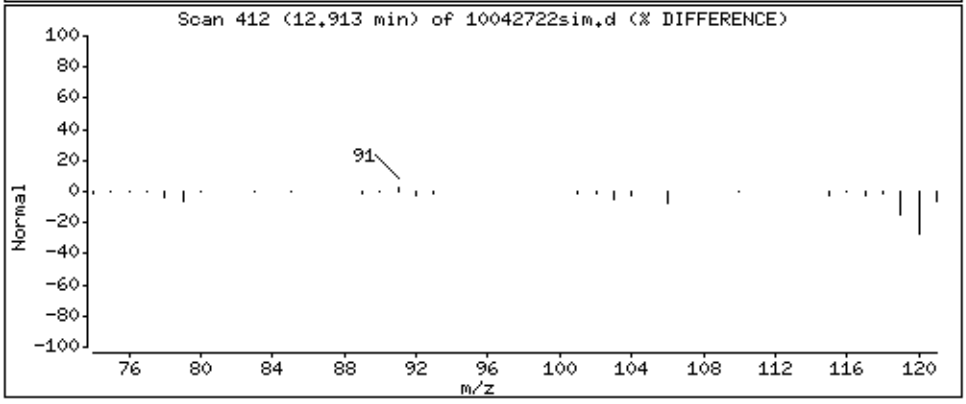












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

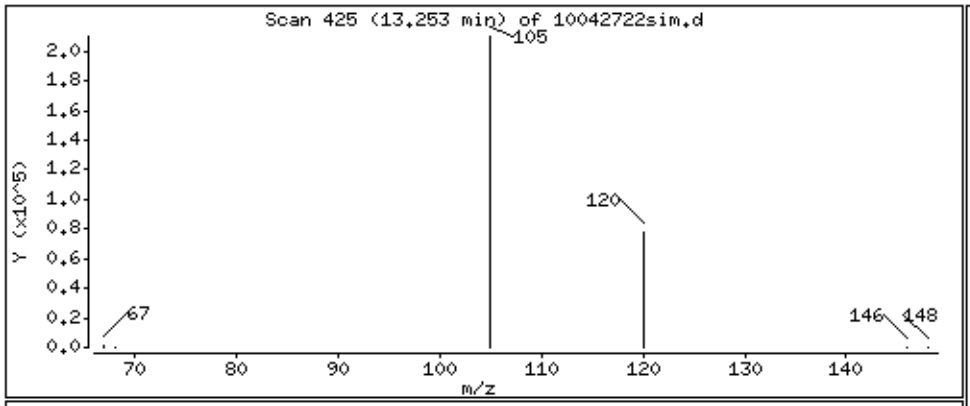
Operator: gm

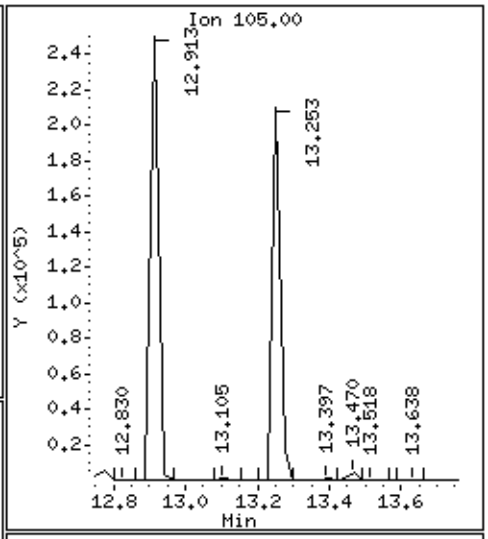
Column phase: DB-5.625

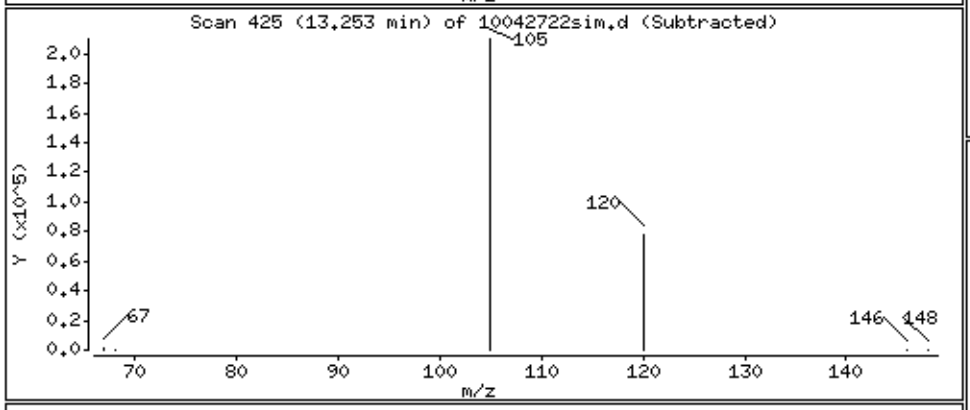
Column diameter: 0.25

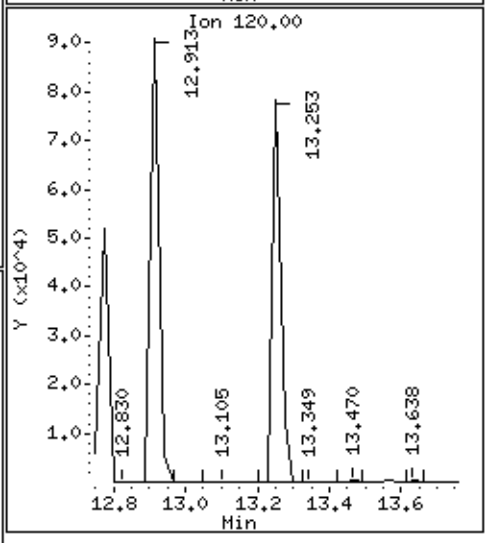
42 1,2,4-Trimethylbenzene

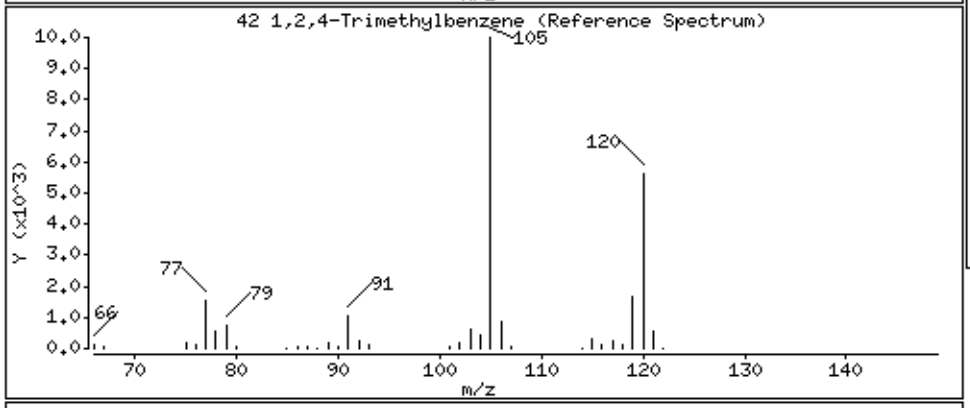
Concentration: 9.41148 ug

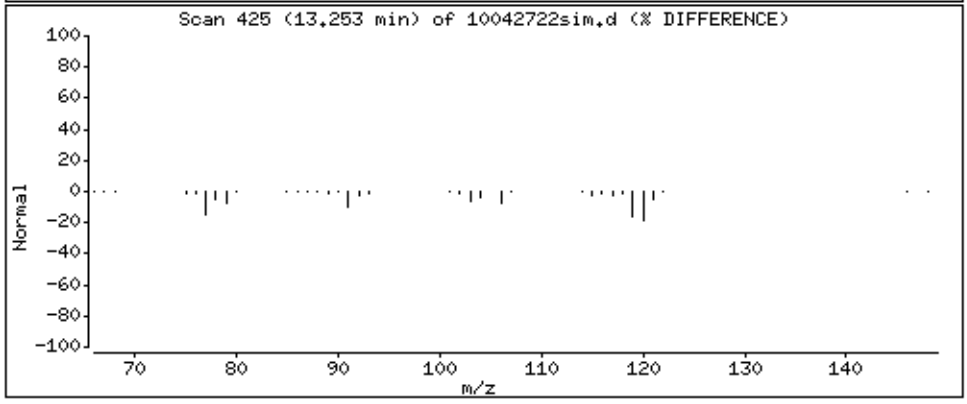












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

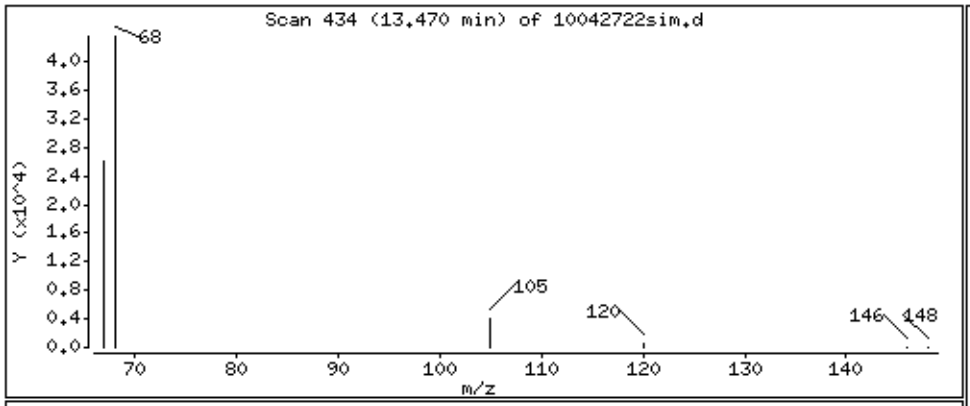
Operator: gm

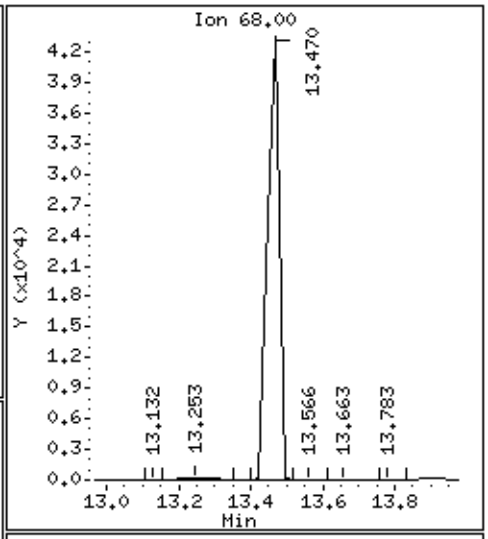
Column phase: DB-5.625

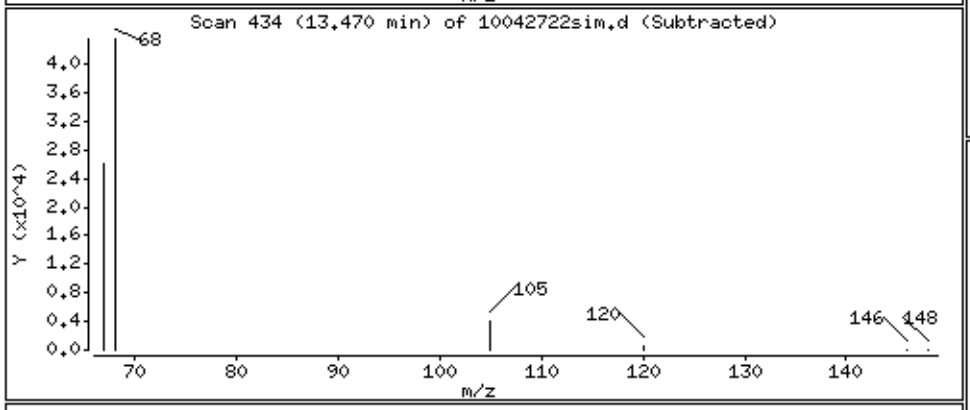
Column diameter: 0.25

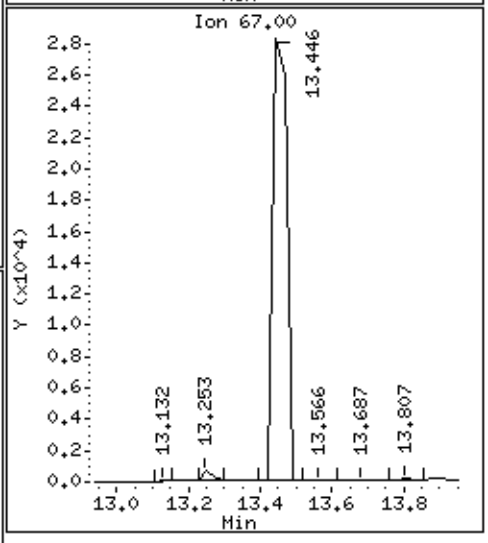
43 R-(+)-Limonene

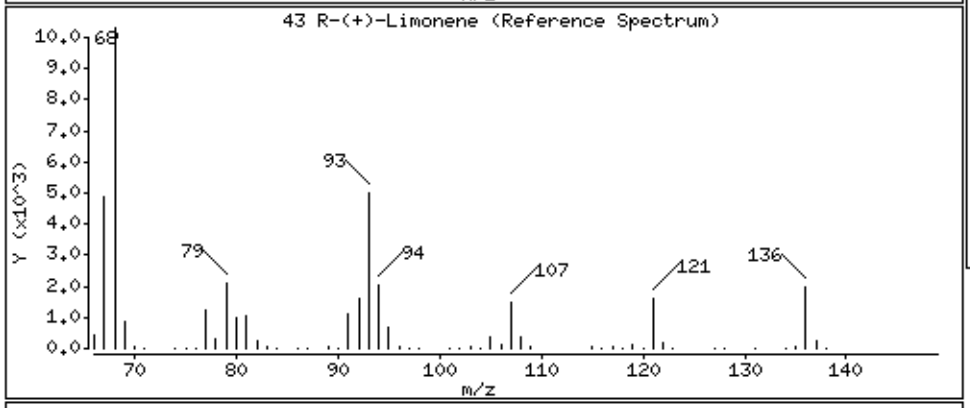
Concentration: 9.83110 ug

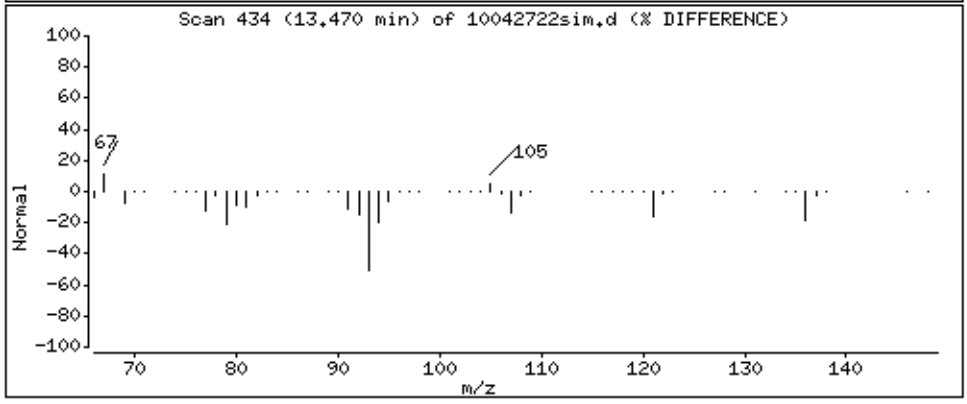












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

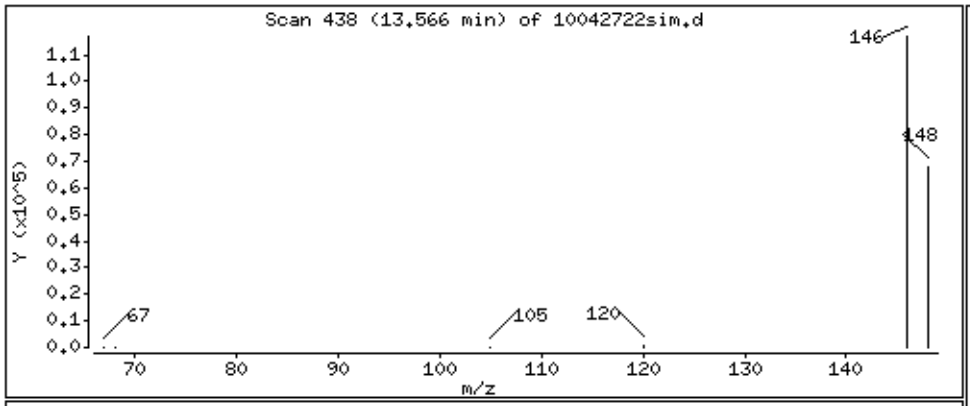
Operator: gm

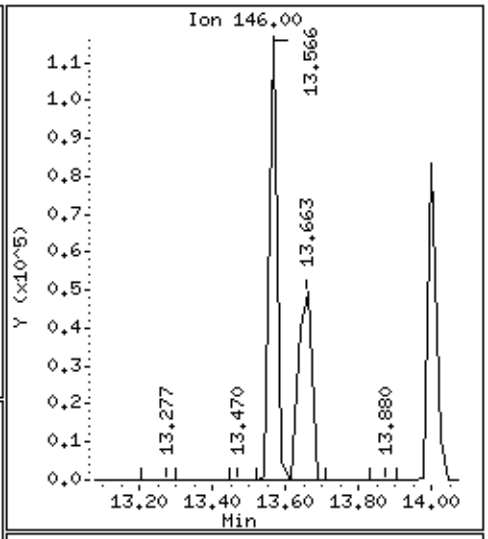
Column phase: DB-5.625

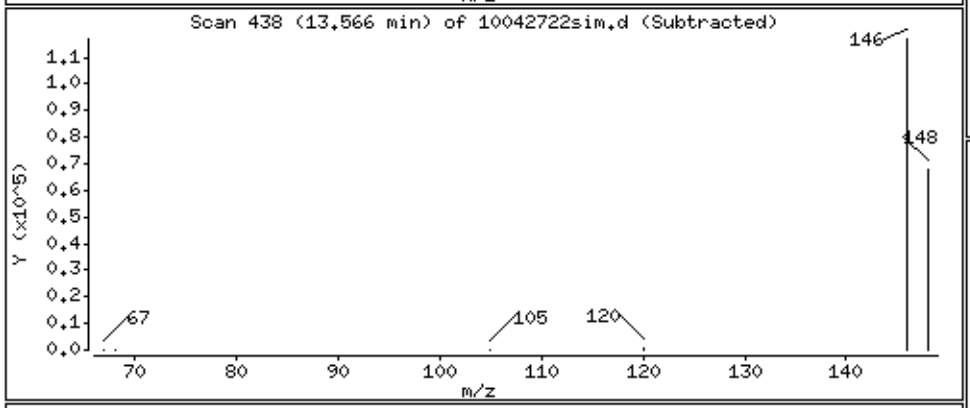
Column diameter: 0.25

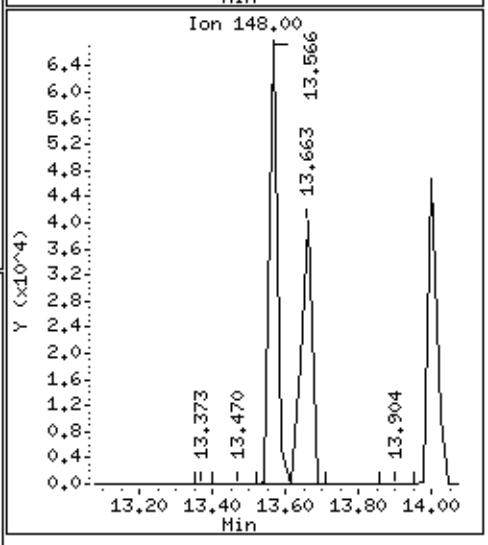
44 1,3-Dichlorobenzene

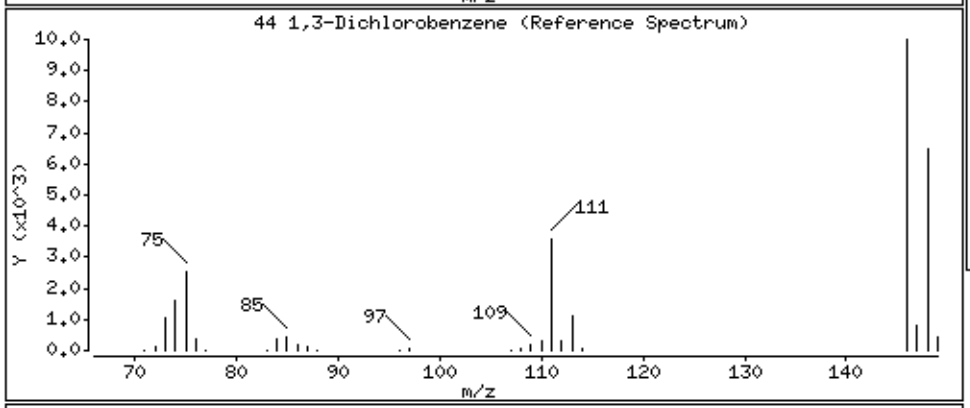
Concentration: 7.95040 ug

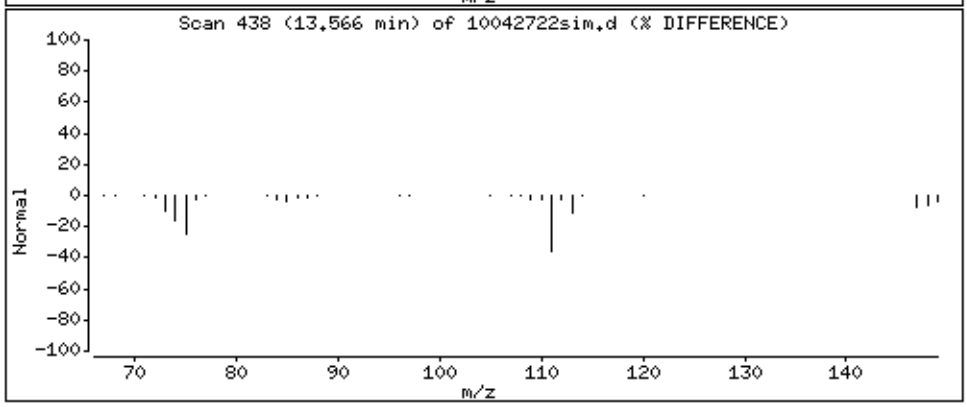












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

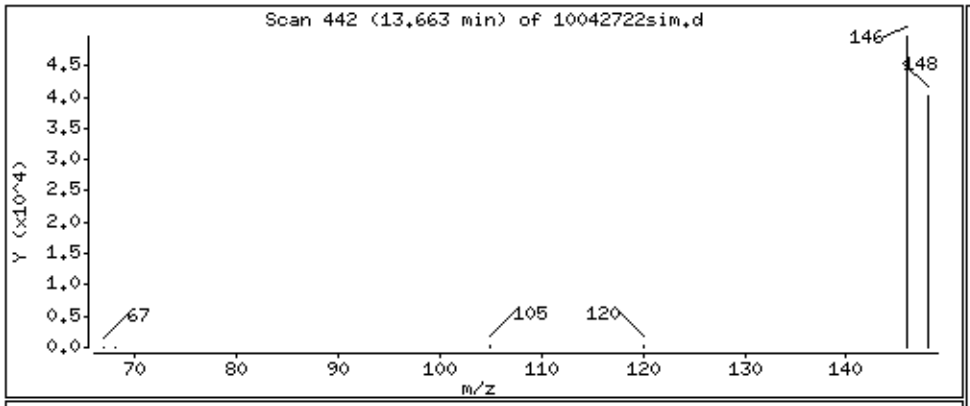
Operator: gm

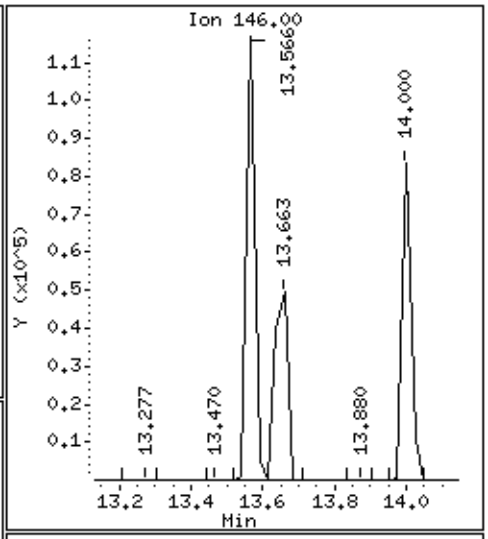
Column phase: DB-5.625

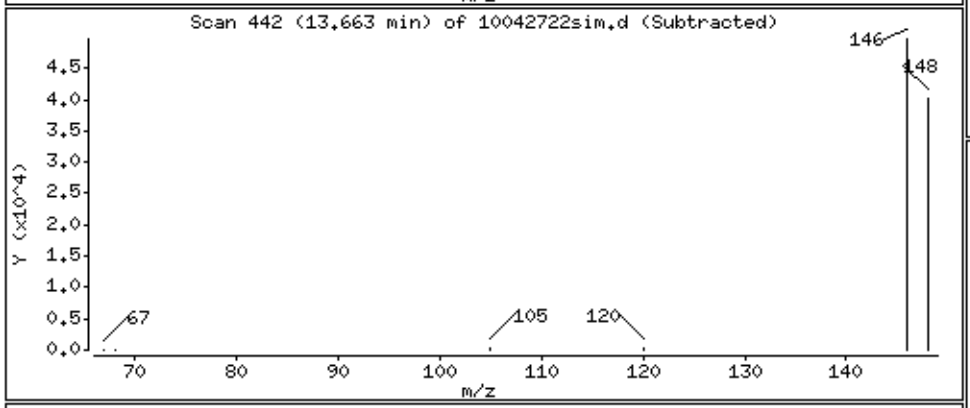
Column diameter: 0.25

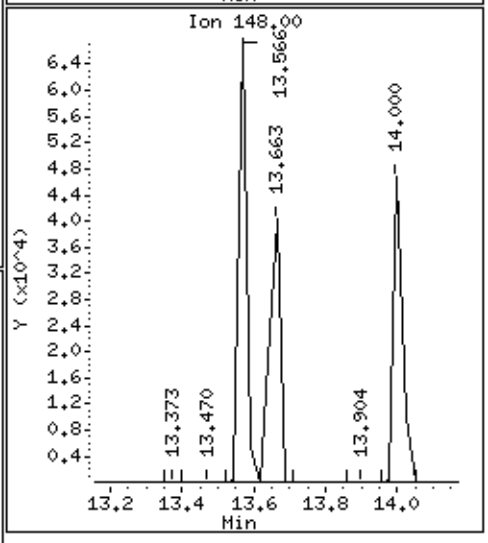
45 1,4-Dichlorobenzene

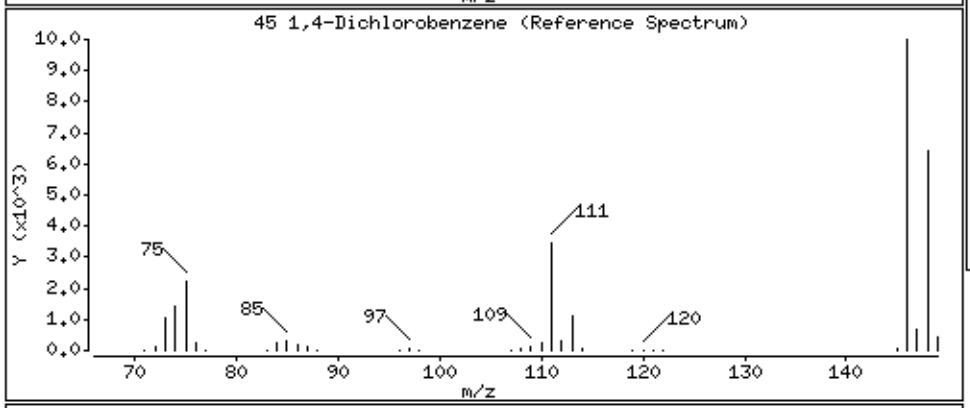
Concentration: 7.54206 ug

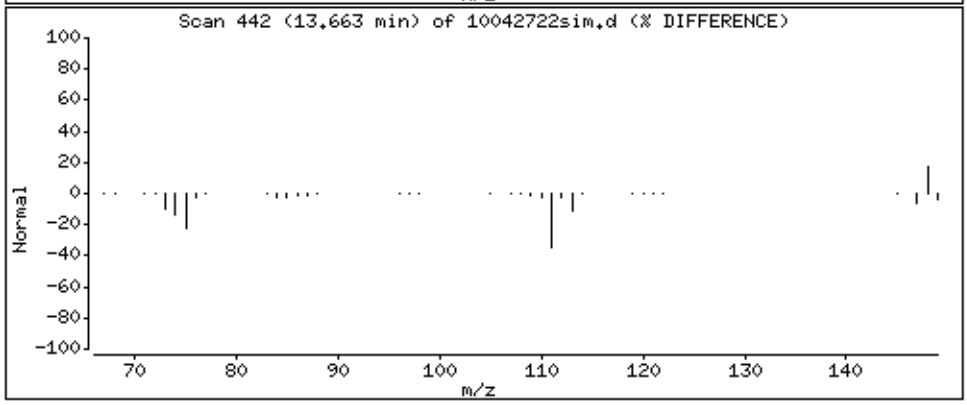












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

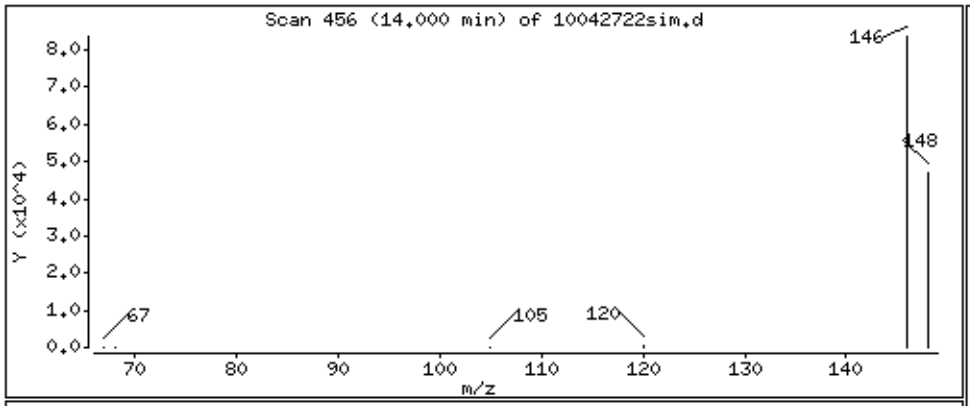
Operator: gm

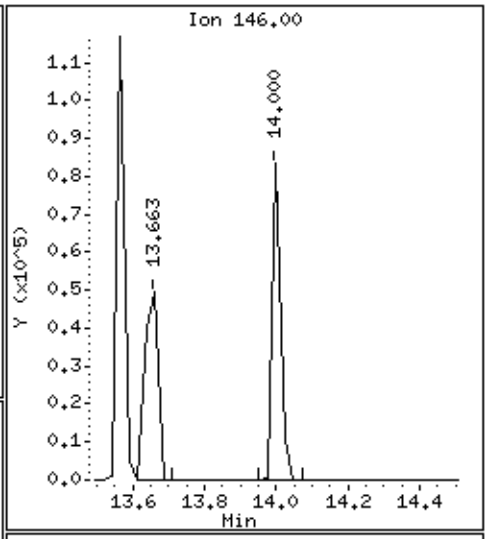
Column phase: DB-5.625

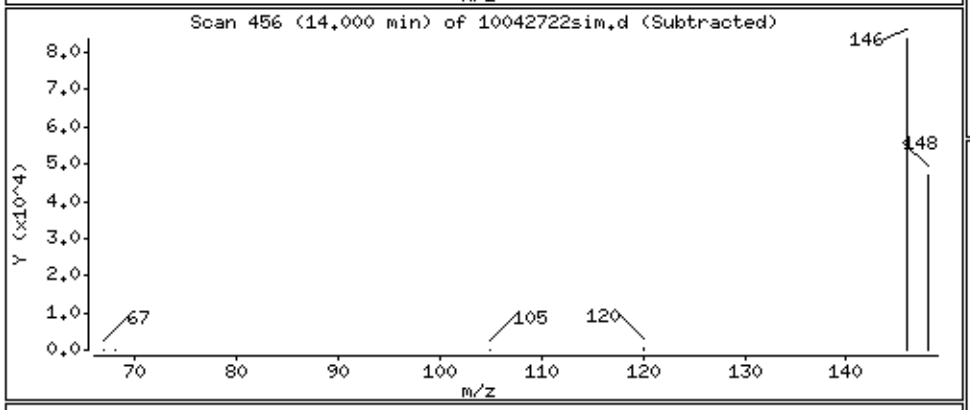
Column diameter: 0.25

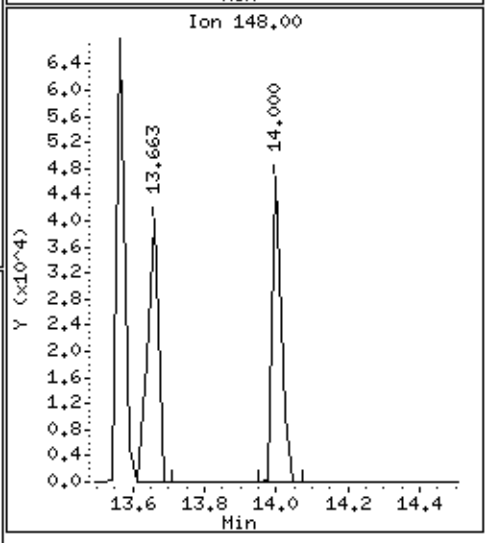
46 1,2-Dichlorobenzene

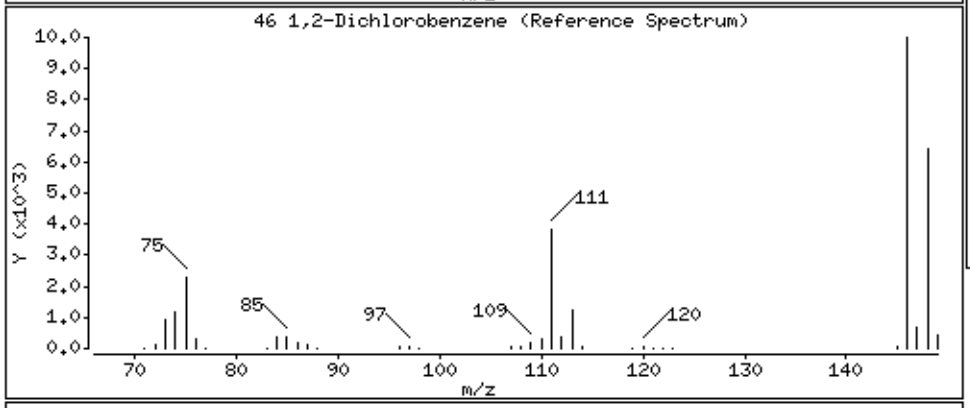
Concentration: 7.03991 ug

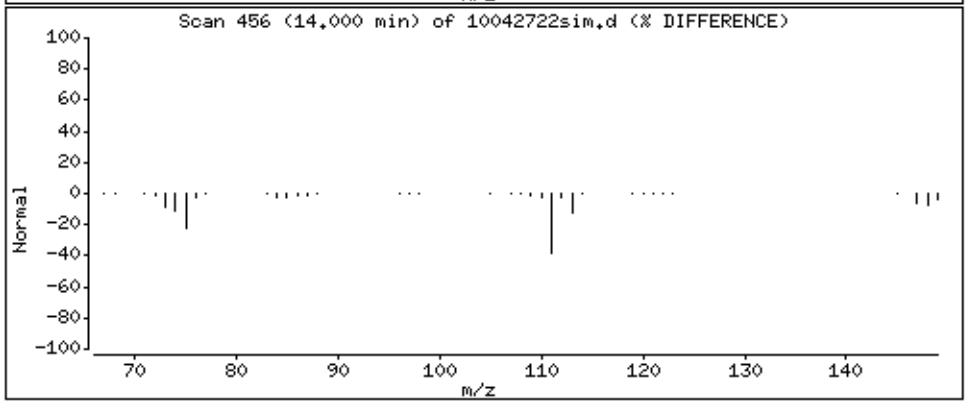












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

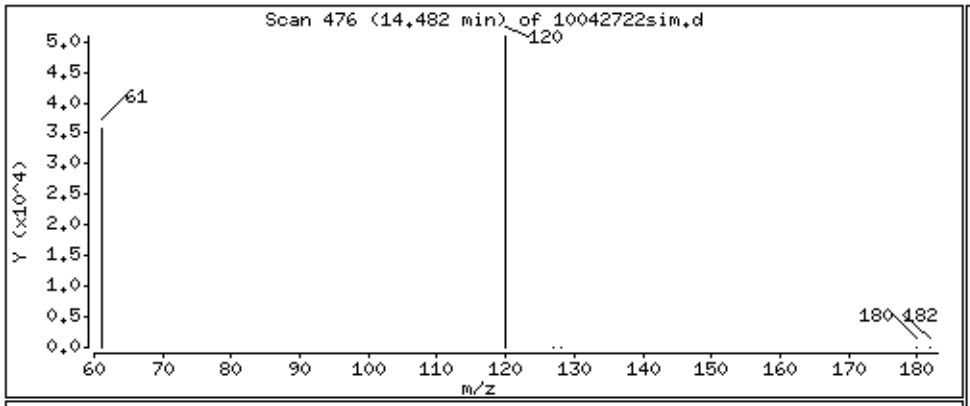
Operator: gm

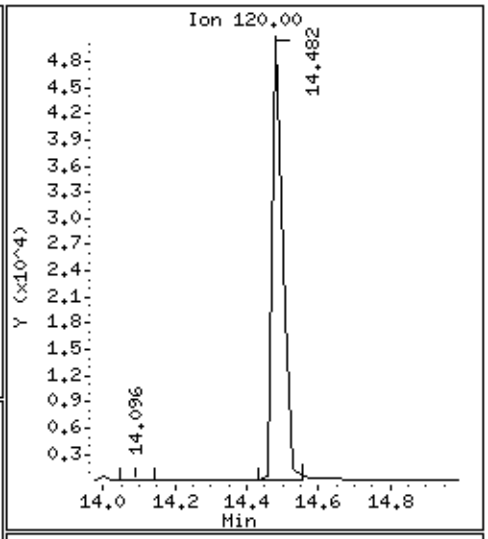
Column phase: DB-5.625

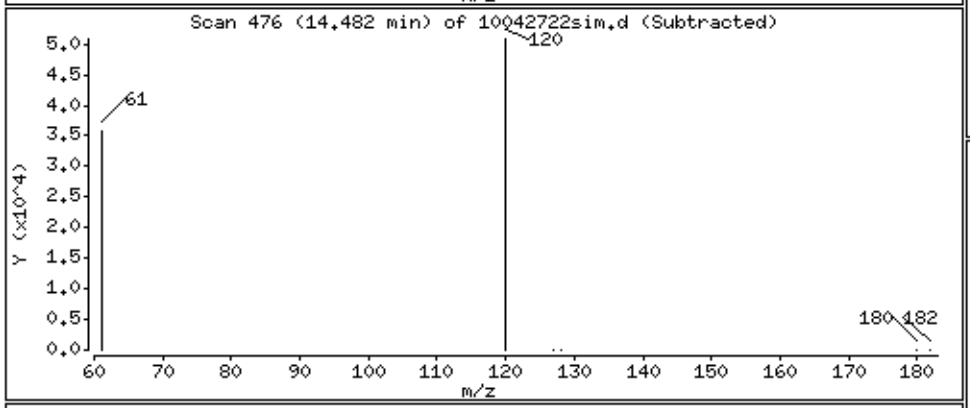
Column diameter: 0.25

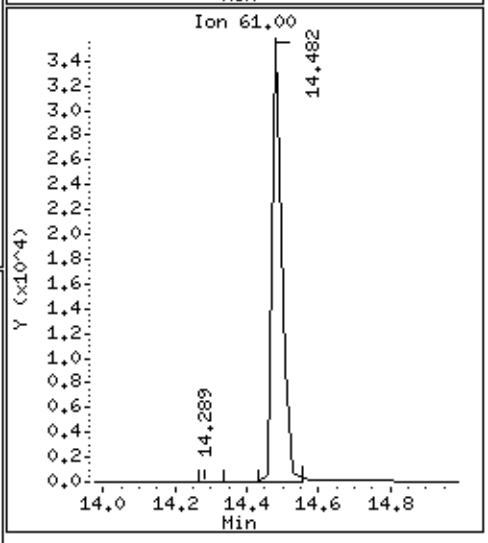
47 1,4-Dithiane

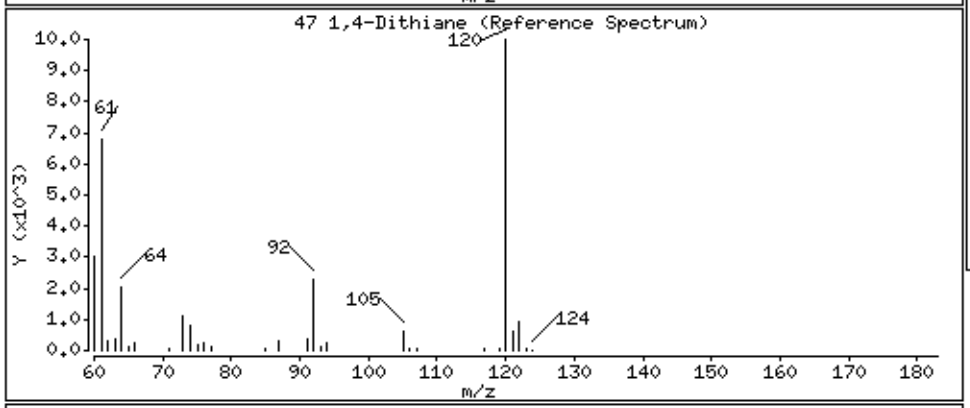
Concentration: 8.63157 ug

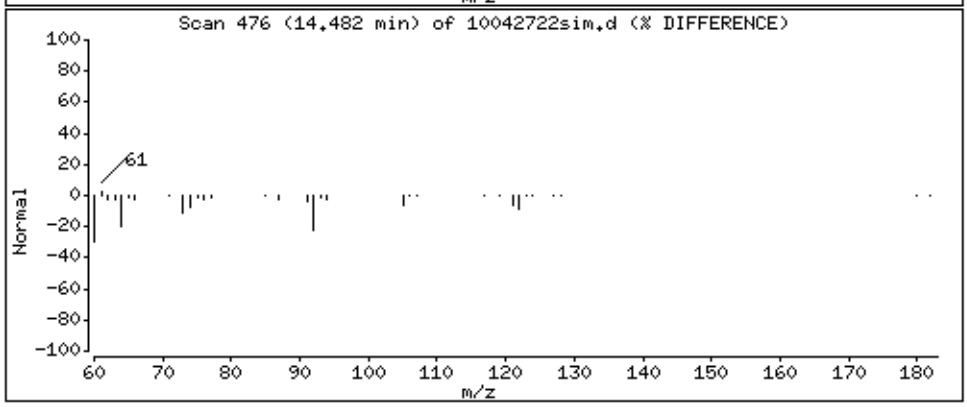












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

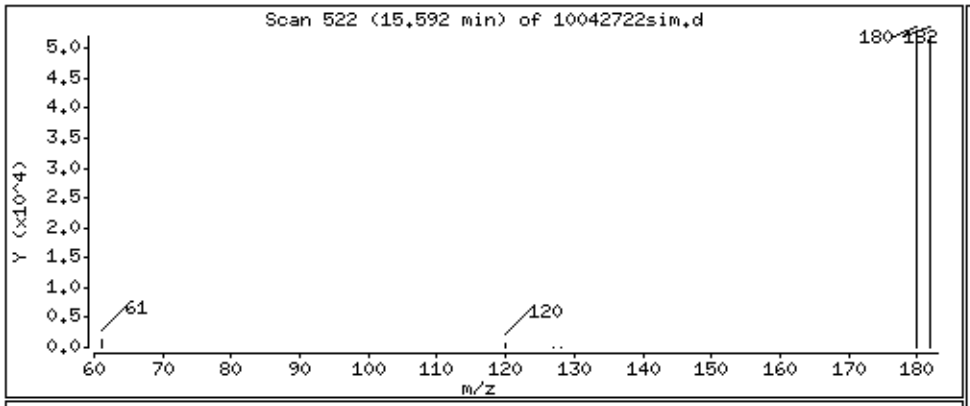
Operator: gm

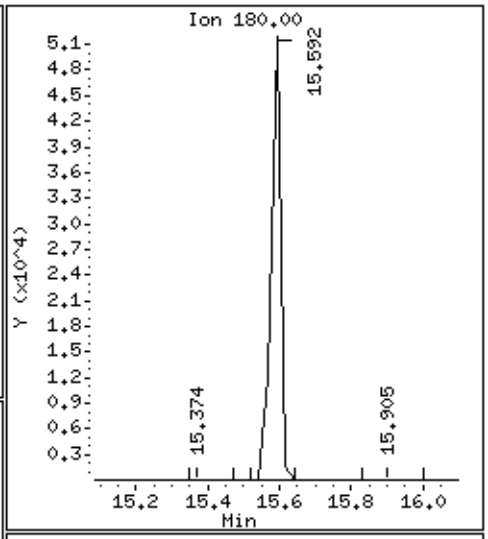
Column phase: DB-5.625

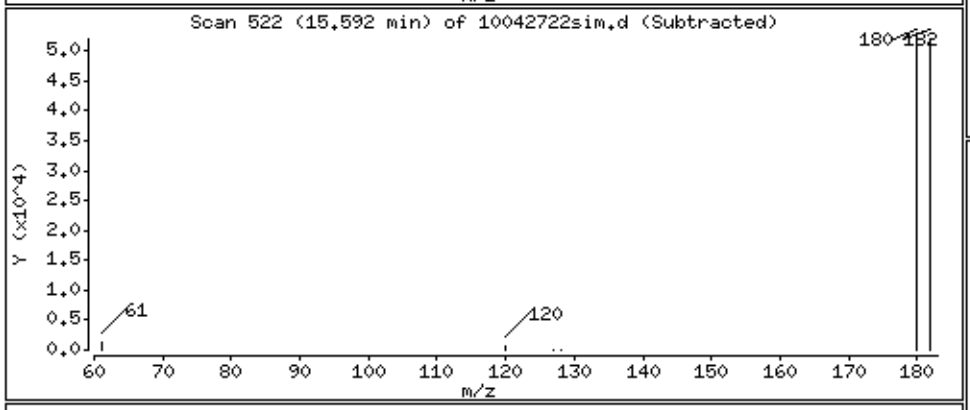
Column diameter: 0.25

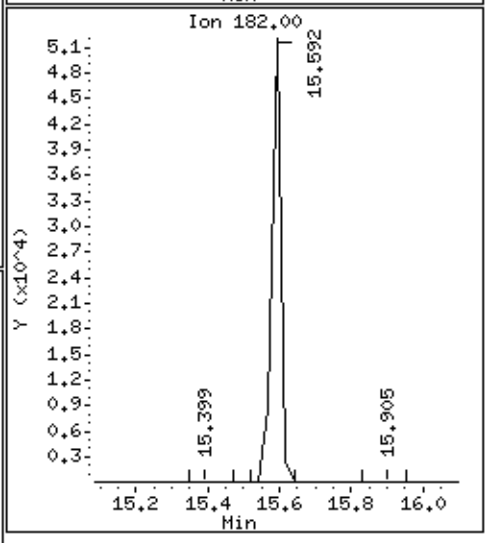
48 1,2,4-Trichlorobenzene

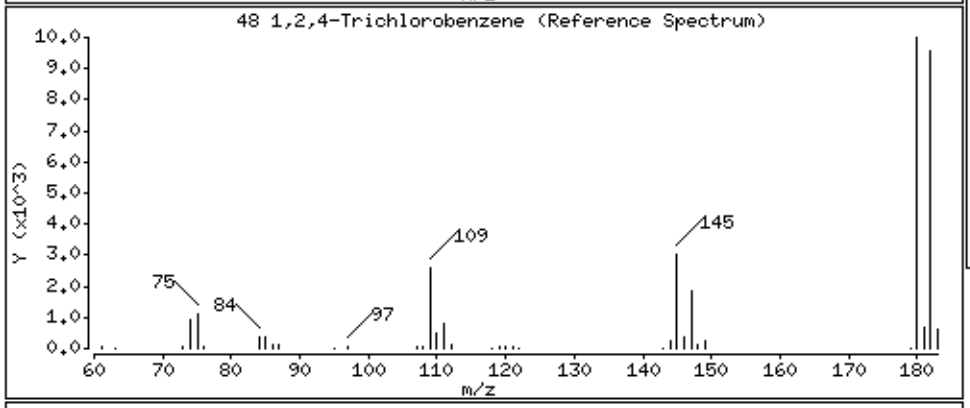
Concentration: 5.99078 ug

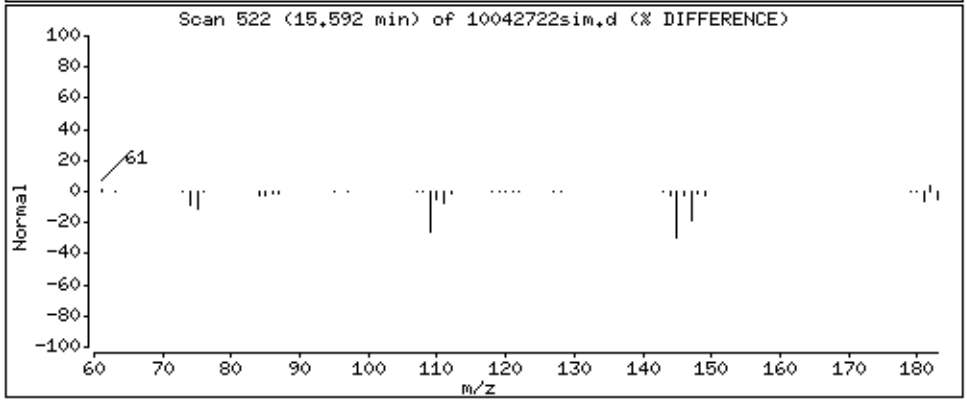












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

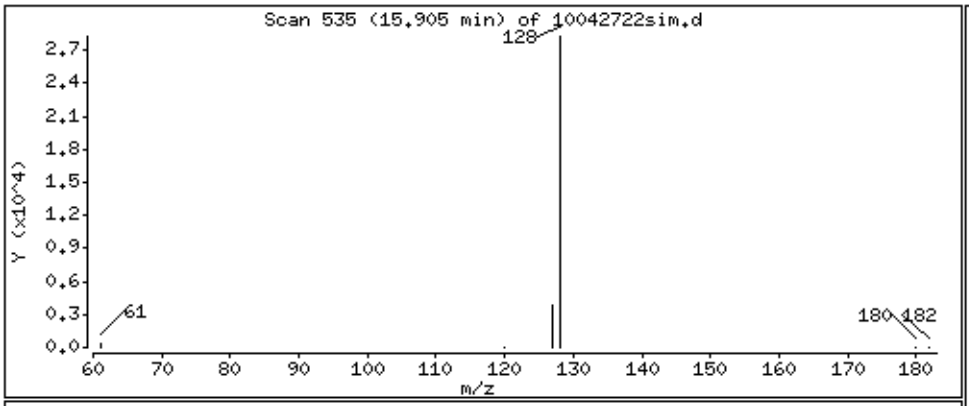
Operator: gm

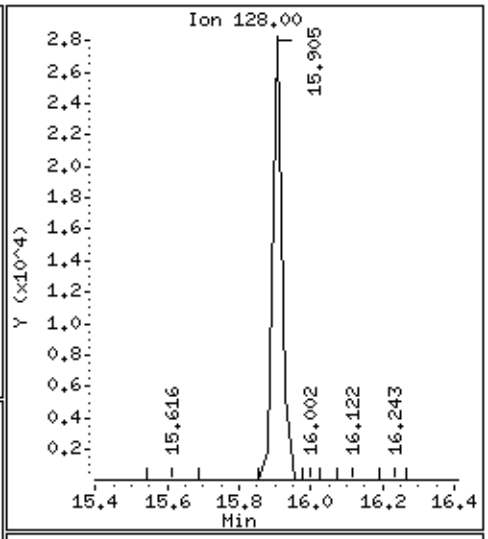
Column phase: DB-5.625

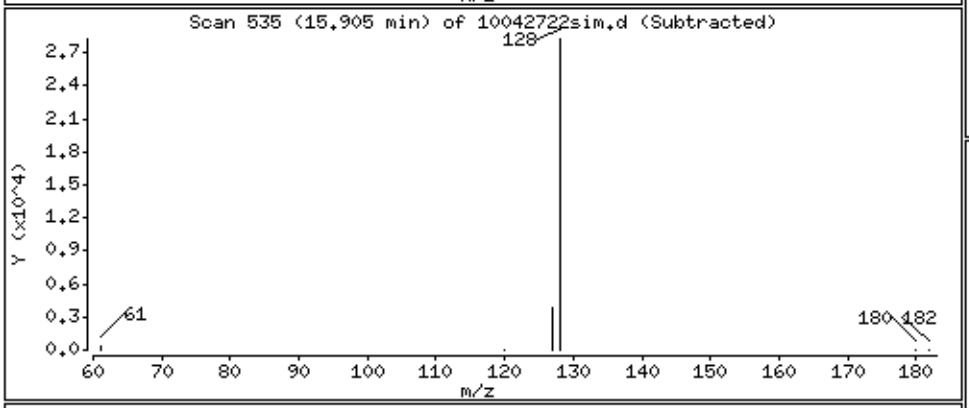
Column diameter: 0.25

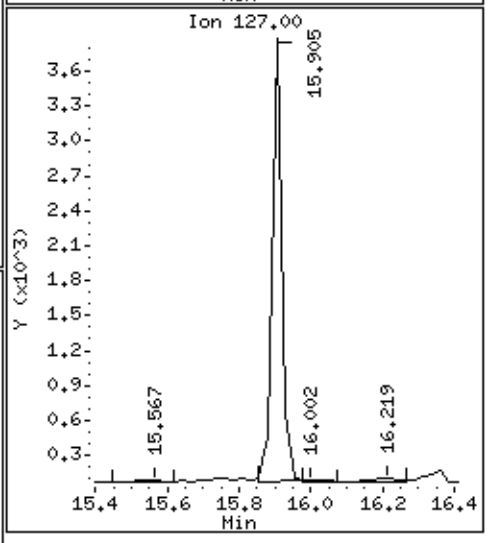
49 Naphthalene

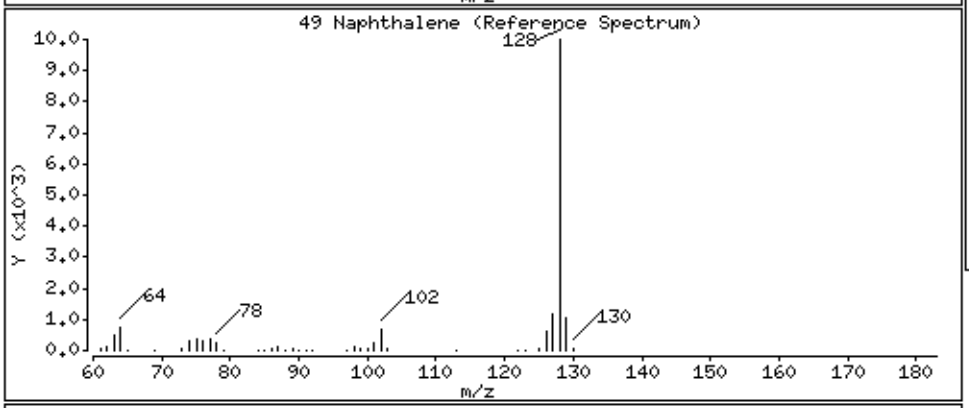
Concentration: 0.929912 ug

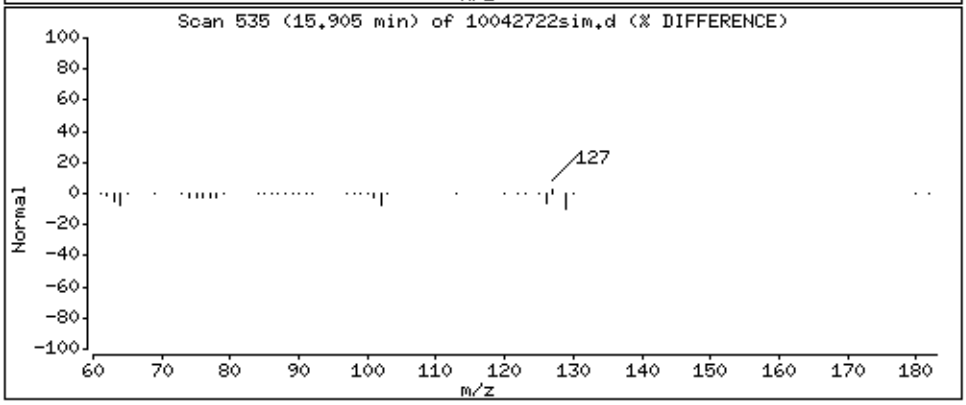












Data File: /chem/msd10.i/27Apr2015.b/10042722sim.d

Date : 27-APR-2015 16:13

Client ID: LCS

Instrument: msd10.i

Sample Info: ;1504283/459;LCS

Volume Injected (uL): 1.0

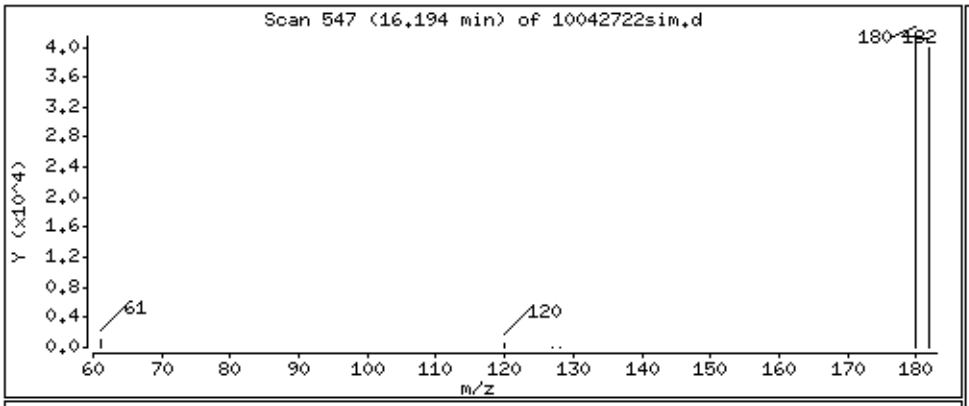
Operator: gm

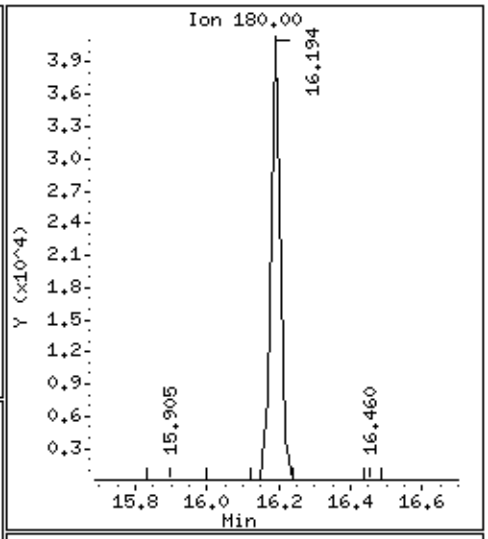
Column phase: DB-5.625

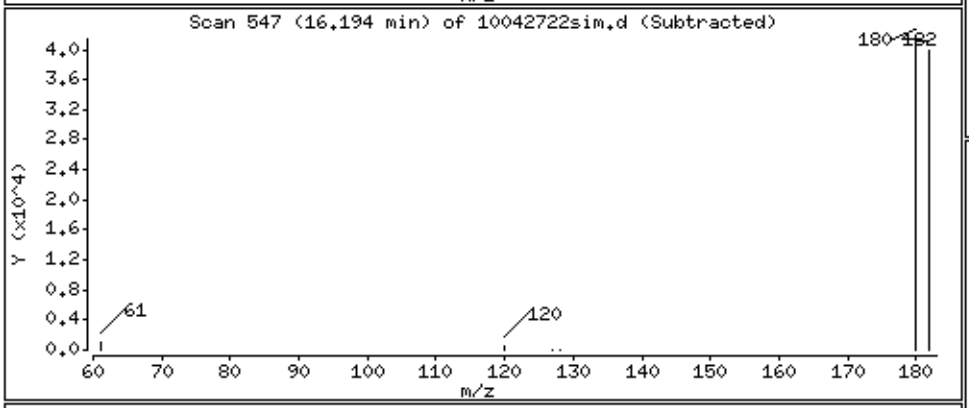
Column diameter: 0.25

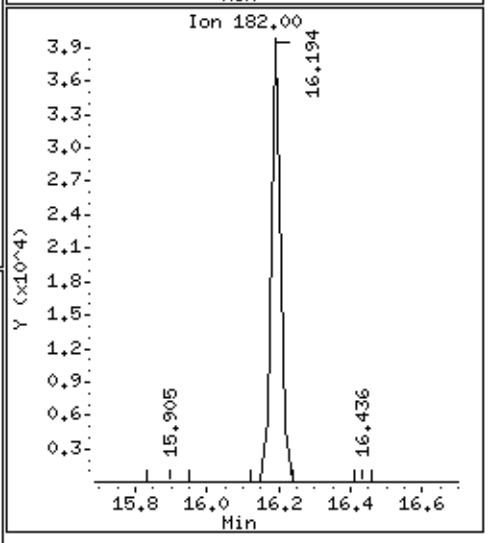
50 1,2,3-Trichlorobenzene

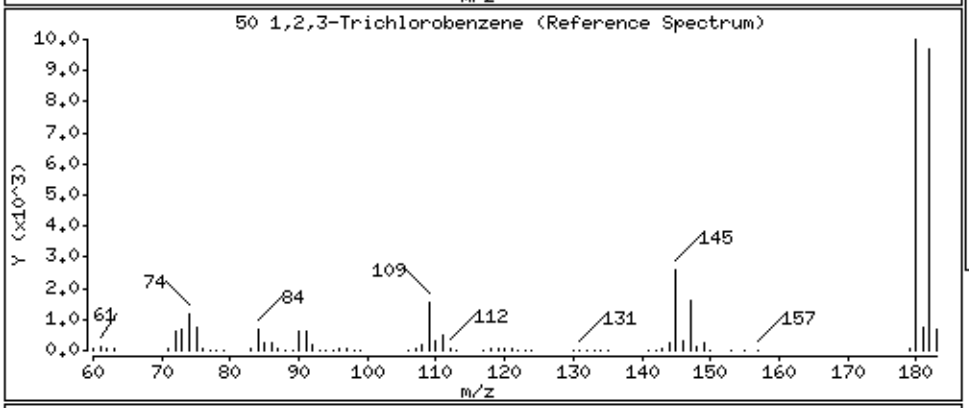
Concentration: 4.93620 ug

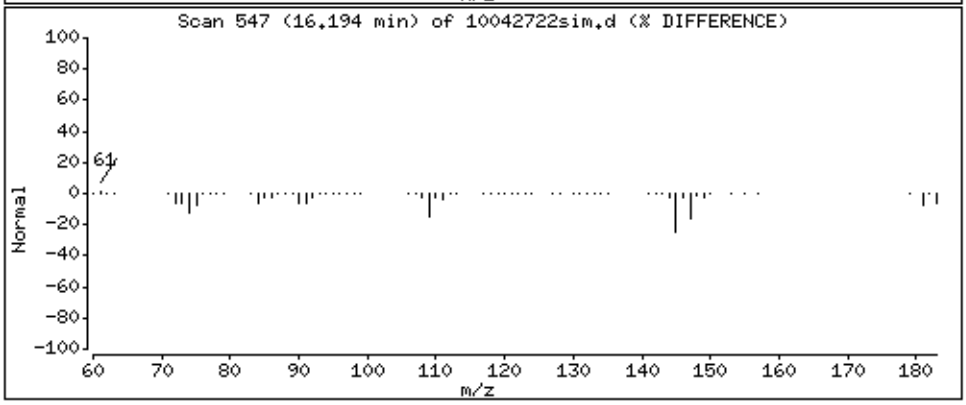












eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1504459R1-07AA

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**10042723sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/27/15 04:37 PM**	
		Date of Extraction: 4/27/15	

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	86	70-130
Benzene	87	70-130
1,2-Dichloroethane	84	70-130
Trichloroethene	87	70-130
Toluene	90	70-130
Tetrachloroethene	91	70-130
Ethyl Benzene	96	70-130
m,p-Xylene	92	70-130
o-Xylene	83	70-130
Naphthalene	9.5	5-80
1,1-Dichloroethane	85	70-130
1,1-Dichloroethene	73	70-130
cis-1,2-Dichloroethene	83	70-130
trans-1,2-Dichloroethene	96	70-130
1,1,2-Trichloroethane	90	70-130
1,2,4-Trimethylbenzene	95	70-130
1,3,5-Trimethylbenzene	103	70-130
Vinyl Chloride	62	50-140

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130

Report Date: 27-Apr-2015 20:24

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 27Apr2015
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 1504283/459 Client Smp ID: LCSD
Level: MED Operator: gm
Data Type: MS DATA SampleType: LCSD
SpikeList File: RadLCS-CM.spk Quant Type: ISTD
Sublist File: all-cm.sub
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

	SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2	Vinyl Chloride	10.0000	6.16032	61.60	50-140
3	Ethanol	10.0000	5.09044	50.90	50-130
4	1,1-Dichloroethene	10.0000	7.31230	73.12	70-130
5	Acetone	10.0000	7.79451	77.95	70-130
6	2-Propanol	10.0000	6.42310	64.23	50-130
7	MTBE	10.0000	8.26441	82.64	70-130
8	trans-1,2-Dichloro	10.0000	9.60747	96.07	70-130
9	Hexane	10.0000	6.88691	68.87*	70-130
10	Halothane	10.0000	8.47799	84.78	70-130
11	1,1-Dichloroethane	10.0000	8.46603	84.66	70-130
12	Ethyl Acetate	10.0000	8.26650	82.67	70-130
13	2-Butanone	10.0000	8.12091	81.21	70-130
14	cis-1,2-Dichloroet	10.0000	8.33981	83.40	70-130
15	Chloroform-CCC	10.0000	8.07006	80.70	70-130
16	Cyclohexane	10.0000	9.42172	94.22	70-130
17	1,1,1-Trichloroeth	10.0000	8.64825	86.48	70-130
18	Carbon Tetrachlori	10.0000	8.85484	88.55	70-130
19	Benzene	10.0000	8.68178	86.82	70-130
20	1,2-Dichloroethane	10.0000	8.36792	83.68	70-130
21	Heptane	10.0000	9.24257	92.43	70-130
22	Trichloroethene	10.0000	8.72051	87.21	70-130
24	Methyl Methacrylat	10.0000	8.91822	89.18	70-130
25	4-Methyl-2-pentano	10.0000	9.59902	95.99	70-130
28	Toluene-CCC	10.0000	9.00283	90.03	70-130
30	1,1,2-Trichloroeth	10.0000	8.95563	89.56	70-130
31	Tetrachloroethene	10.0000	9.06381	90.64	70-130
32	Chlorobenzene	10.0000	8.51866	85.19	70-130
33	Ethylbenzene-CCC	10.0000	9.61240	96.12	70-130
209	1,1,1,2-Tetrachlor	10.0000	9.41563	94.16	70-130
34	m,p-Xylene	20.0000	18.5055	92.53	70-130
36	o-Xylene	10.0000	8.30166	83.02	70-130
37	Styrene	10.0000	5.53654	55.37	20-100
38	a-Pinene	10.0000	11.4504	114.50	70-130

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
39 1,1,2,2-Tetrachlor	10.0000	8.63541	86.35	70-130
40 Propylbenzene	10.0000	8.84404	88.44	70-130
210 1,2,3-Trichloropro	10.0000	9.09546	90.95	70-130
41 1,3,5-Trimethylben	10.0000	10.3013	103.01	70-130
42 1,2,4-Trimethylben	10.0000	9.50696	95.07	70-130
43 R-(+)-Limonene	10.0000	9.90917	99.09	70-130
44 1,3-Dichlorobenzen	10.0000	8.01954	80.20	50-110
45 1,4-Dichlorobenzen	10.0000	7.46992	74.70	50-110
46 1,2-Dichlorobenzen	10.0000	7.10982	71.10	50-110
47 1,4-Dithiane	10.0000	8.67477	86.75	50-110
48 1,2,4-Trichloroben	10.0000	6.00364	60.04	20-110
49 Naphthalene	10.0000	0.948052	9.48	5-80
50 1,2,3-Trichloroben	10.0000	4.93721	49.37	20-110

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 26 Toluene-d8	10.0000	10.3029	103.03	70-130

Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msd10.i/27Apr2015.b/10042723sim.d
Lab Smp Id: 1504283/459 Client Smp ID: LCSD
Inj Date : 27-APR-2015 16:37
Operator : gm Inst ID: msd10.i
Smp Info : ;1504283/459;LCSD
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Meth Date : 27-Apr-2015 14:05 gmash Quant Type: ISTD
Cal Date : 27-APR-2015 11:01 Cal File: 10042709sim.d
Als bottle: 21 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all-cm.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug)
2 Vinyl Chloride	62	3.444	3.420	(0.339)	10518	3.08016	6.16032
3 Ethanol	45	4.696	4.696	(0.463)	5580	2.54522	5.09044
4 1,1-Dichloroethene-CCC	96	5.117	5.117	(0.504)	16033	3.65615	7.31230
5 Acetone	58	5.206	5.206	(0.513)	13882	3.89726	7.79451
6 2-Propanol	45	5.273	5.273	(0.519)	32802	3.21155	6.42310
7 MTBE	73	5.996	5.996	(0.591)	98780	4.13220	8.26441
8 trans-1,2-Dichloroethene	96	6.051	6.051	(0.596)	33095	4.80373	9.60747
9 Hexane	57	6.216	6.216	(0.612)	76010	3.44346	6.88691(R)
10 Halothane	117	6.377	6.377	(0.628)	18701	4.23899	8.47799
11 1,1-Dichloroethane-SPCC	63	6.474	6.474	(0.638)	63344	4.23302	8.46603
12 Ethyl Acetate	70	7.013	7.013	(0.691)	9862	4.13325	8.26650
13 2-Butanone	72	7.036	7.036	(0.693)	21555	4.06045	8.12091
14 cis-1,2-Dichloroethene	96	7.058	7.058	(0.695)	34433	4.16991	8.33981
15 Chloroform-CCC	83	7.322	7.352	(0.721)	54843	4.03503	8.07006
16 Cyclohexane	84	7.537	7.537	(0.742)	88661	4.71086	9.42172
17 1,1,1-Trichloroethane	97	7.537	7.537	(0.742)	71195	4.32413	8.64825

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug)
18	Carbon Tetrachloride	117	7.691	7.691	(0.758)	65060	4.42742	8.85484
19	Benzene	78	7.938	7.938	(0.782)	163355	4.34089	8.68178
20	1,2-Dichloroethane	62	8.000	7.999	(0.788)	67288	4.18396	8.36792
21	Heptane	71	8.030	8.030	(0.791)	51686	4.62128	9.24257
22	Trichloroethene	130	8.562	8.562	(0.843)	51588	4.36026	8.72051
24	Methyl Methacrylate	69	8.851	8.851	(0.872)	54968	4.45911	8.91822
25	4-Methyl-2-pentanone	85	9.695	9.695	(0.955)	25131	4.79951	9.59902
$ 26	Toluene-d8	98	9.839	9.839	(0.969)	216391	5.15146	10.3029
28	Toluene-CCC	92	9.912	9.912	(0.976)	160239	4.50142	9.00283
* 29	2-Fluorotoluene	109	10.153	10.153	(1.000)	232467	5.00000	
30	1,1,2-Trichloroethane	97	10.394	10.370	(1.024)	52155	4.47781	8.95563
31	Tetrachloroethene	164	10.466	10.466	(1.031)	51154	4.53190	9.06381
32	Chlorobenzene	112	11.459	11.459	(1.129)	190358	4.25933	8.51866
33	Ethylbenzene-CCC	106	11.510	11.510	(1.134)	117390	4.80620	9.61240
209	1,1,1,2-Tetrachloroethane	131	11.536	11.536	(1.136)	71800	4.70782	9.41563
34	m,p-Xylene	106	11.613	11.613	(1.144)	236416	9.25273	18.5055
36	o-Xylene	106	12.062	12.062	(1.188)	103829	4.15083	8.30166
37	Styrene	104	12.062	12.062	(1.188)	115531	2.76827	5.53654
38	a-Pinene	93	12.336	12.336	(1.215)	197549	5.72521	11.4504
39	1,1,2,2-Tetrachloroethane-SPC	83	12.693	12.693	(1.250)	79266	4.31770	8.63541
40	Propylbenzene	91	12.748	12.748	(1.256)	290746	4.42202	8.84404
210	1,2,3-Trichloropropane	110	12.775	12.775	(1.258)	34140	4.54773	9.09546
41	1,3,5-Trimethylbenzene	105	12.913	12.913	(1.272)	416584	5.15067	10.3013
42	1,2,4-Trimethylbenzene	105	13.253	13.253	(1.305)	320782	4.75348	9.50696
43	R-(+)-Limonene	68	13.470	13.470	(1.327)	97465	4.95458	9.90917
44	1,3-Dichlorobenzene	146	13.566	13.566	(1.336)	173330	4.00977	8.01954
45	1,4-Dichlorobenzene	146	13.663	13.638	(1.346)	123595	3.73496	7.46992
46	1,2-Dichlorobenzene	146	14.000	14.000	(1.379)	133906	3.55491	7.10982
47	1,4-Dithiane	120	14.482	14.482	(1.426)	101384	4.33738	8.67477
48	1,2,4-Trichlorobenzene	180	15.592	15.592	(1.536)	91960	3.00182	6.00364
49	Naphthalene	128	15.905	15.905	(1.567)	50452	0.47403	0.948052
50	1,2,3-Trichlorobenzene	180	16.194	16.194	(1.595)	73834	2.46861	4.93721

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd10.i
Lab File ID: 10042723sim.d
Lab Smp Id: 1504283/459
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msd10.i/27Apr2015.b/105r0427.m/105r0427b.m
Misc Info: ,NOTICS

Calibration Date: 27-APR-2015
Calibration Time: 11:01
Client Smp ID: LCSD
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	216118	108059	432236	232467	7.56

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
29 2-Fluorotoluene	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

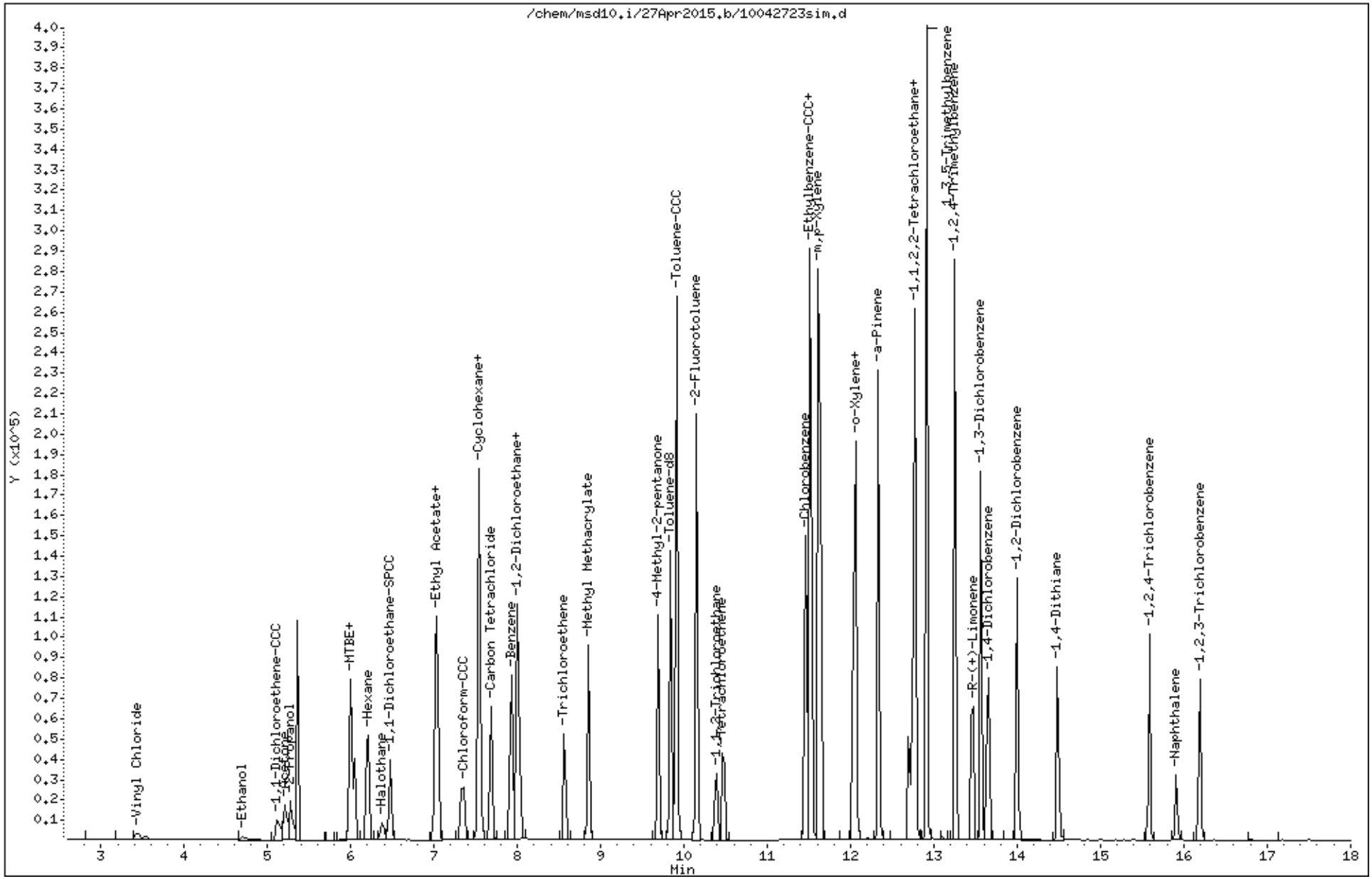
Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

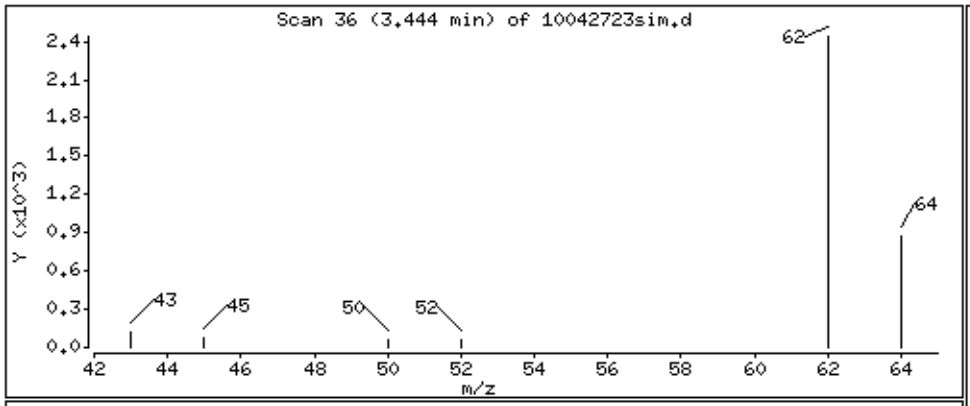
Operator: gm

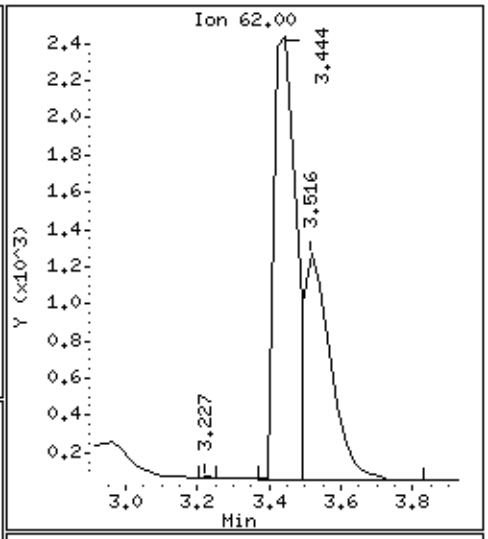
Column phase: DB-5.625

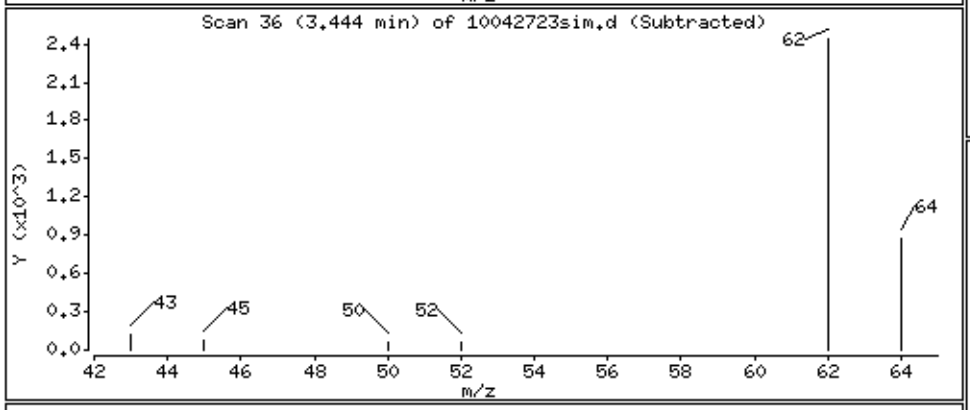
Column diameter: 0.25

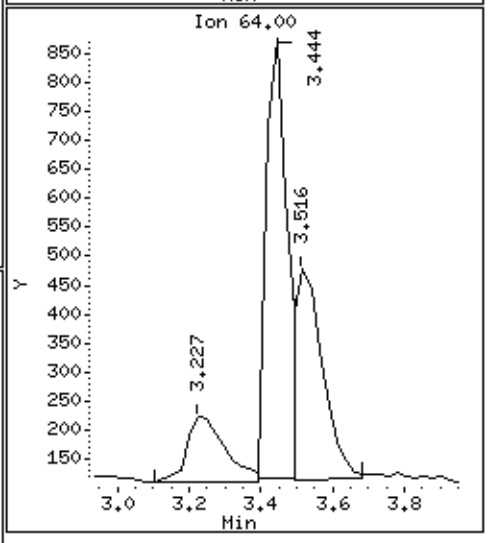
2 Vinyl Chloride

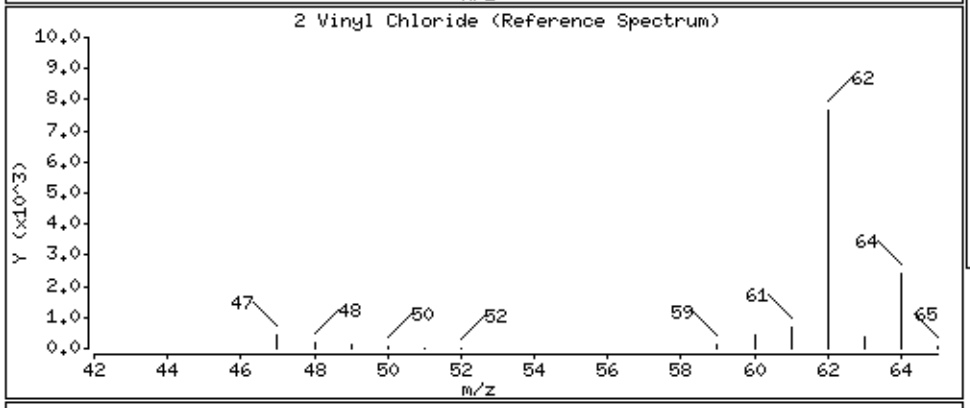
Concentration: 6.16032 ug

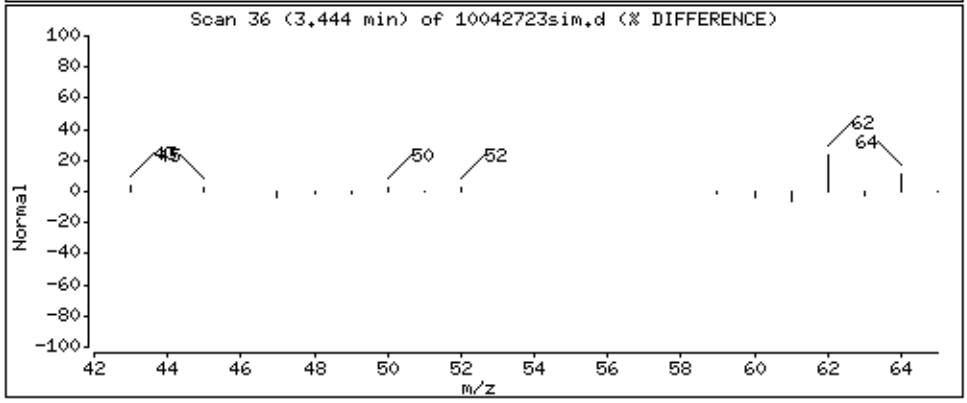












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

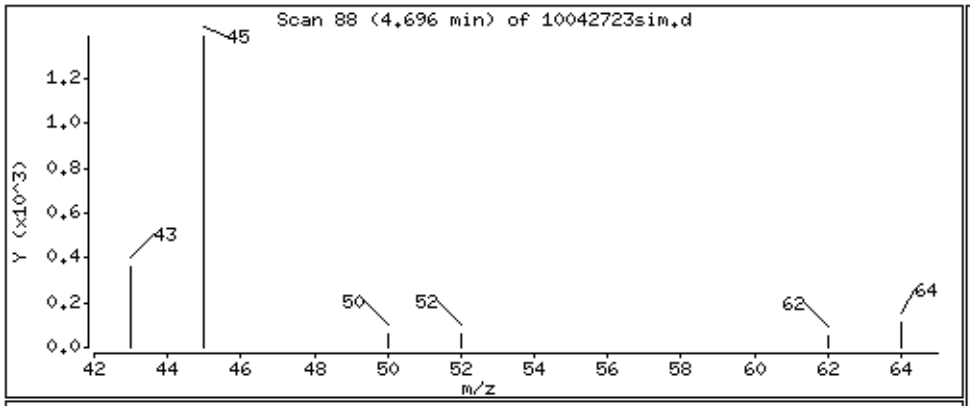
Operator: gm

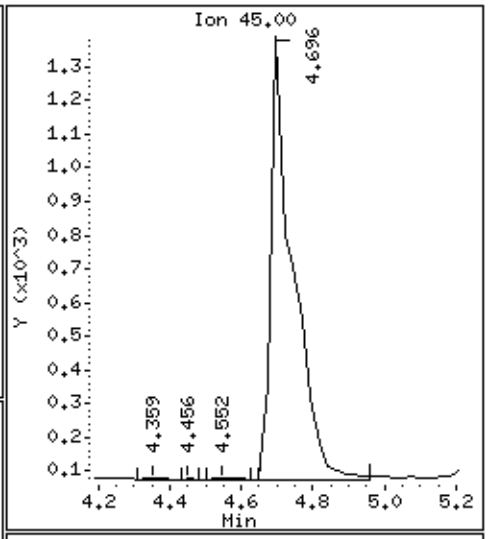
Column phase: DB-5.625

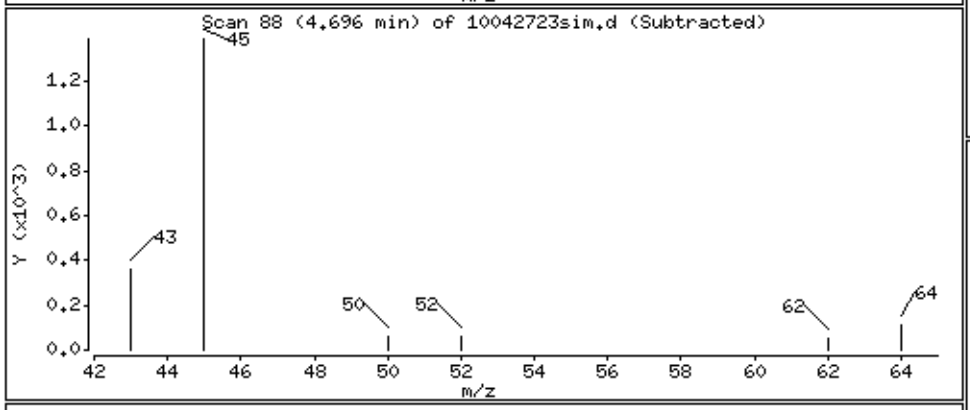
Column diameter: 0.25

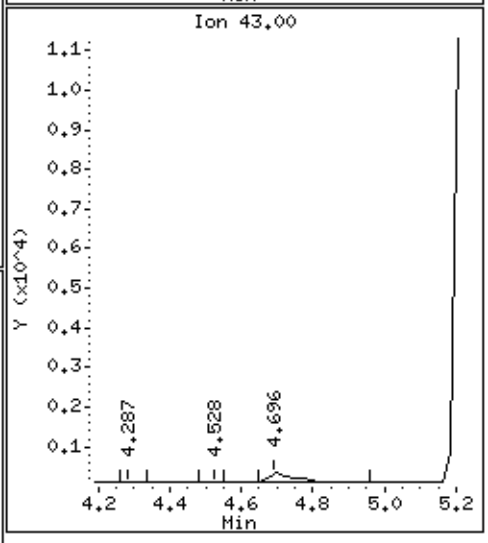
3 Ethanol

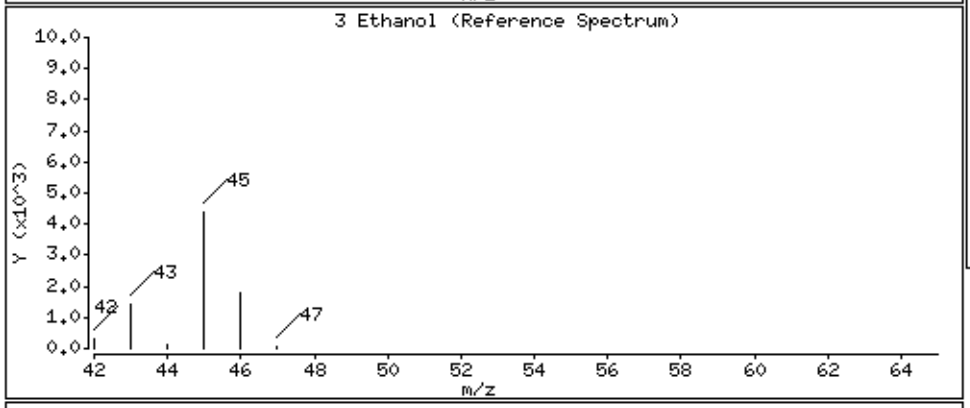
Concentration: 5.09044 ug

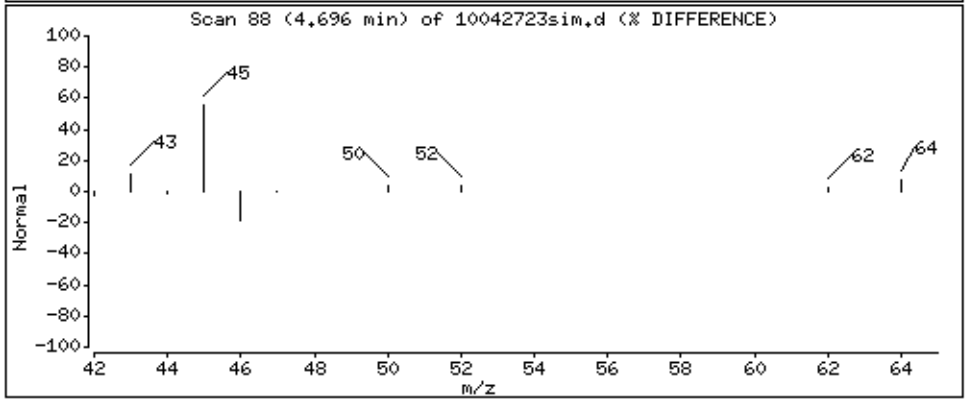












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

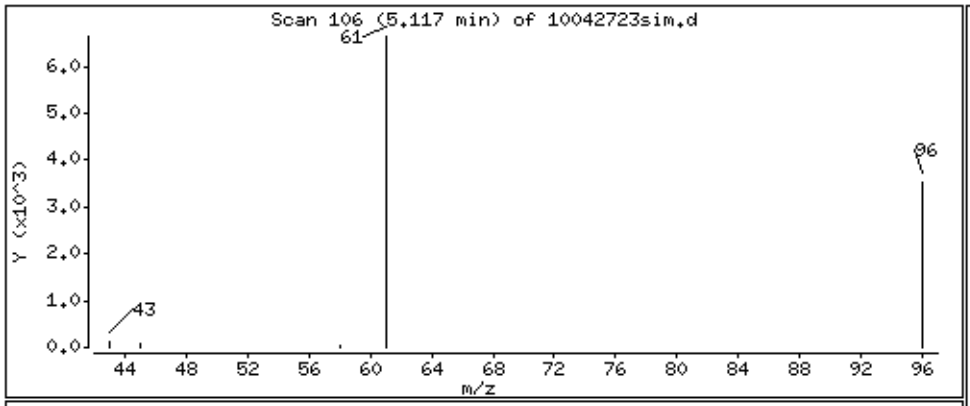
Operator: gm

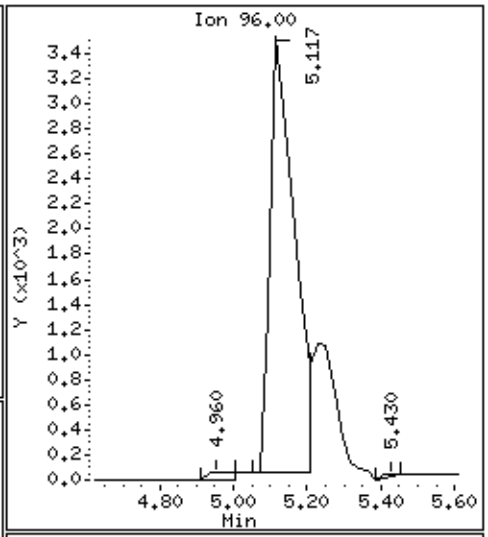
Column phase: DB-5.625

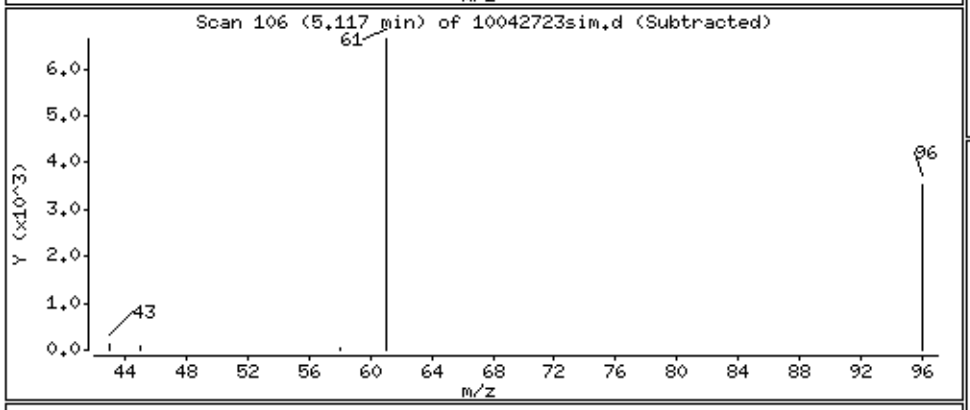
Column diameter: 0.25

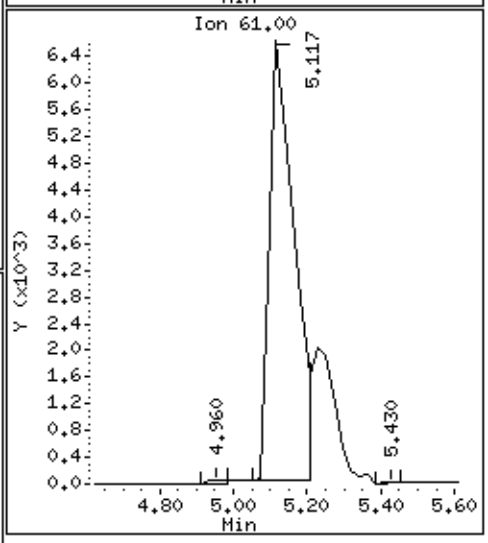
4 1,1-Dichloroethene-CCC

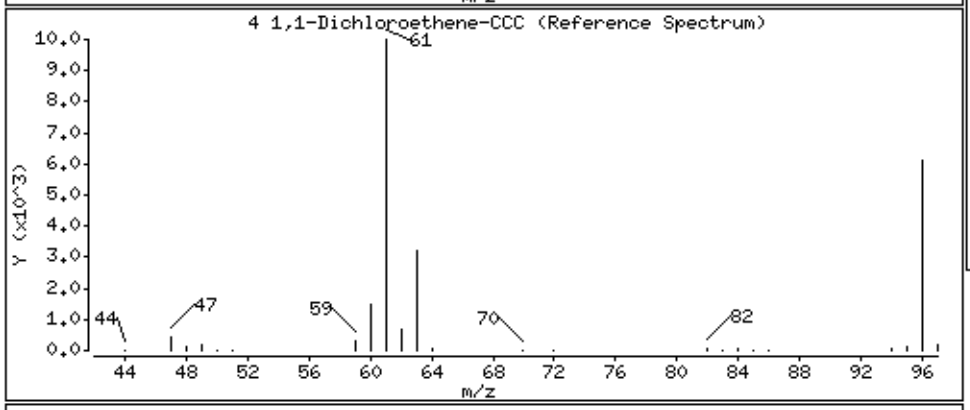
Concentration: 7.31230 ug

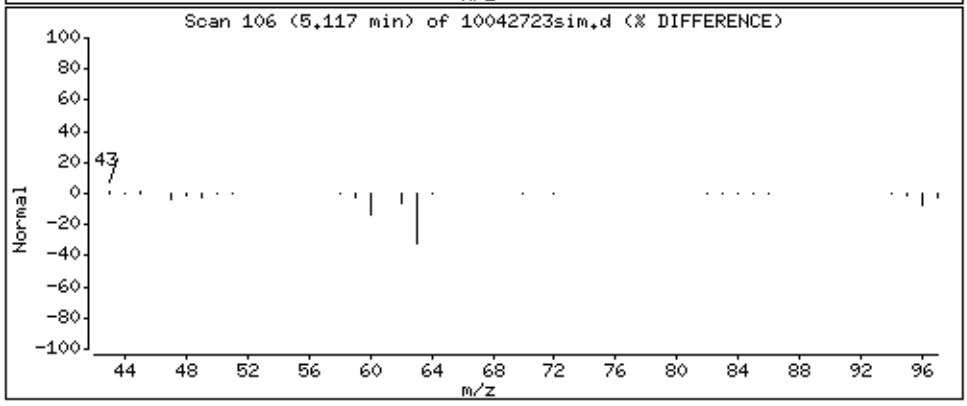












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

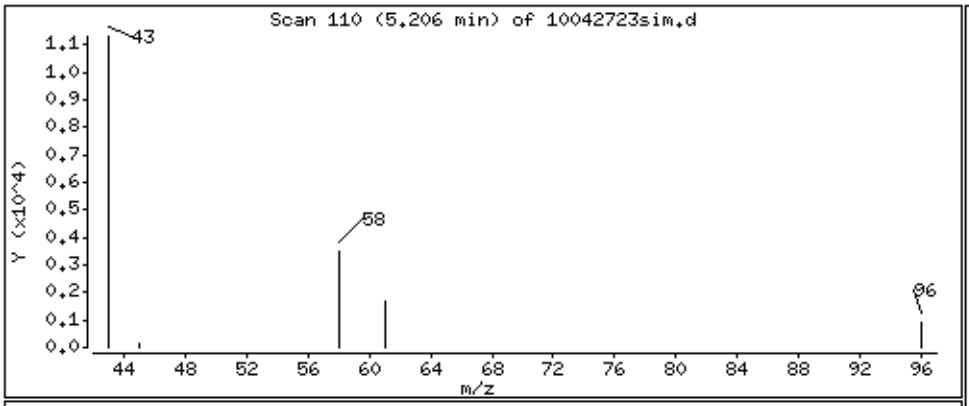
Operator: gm

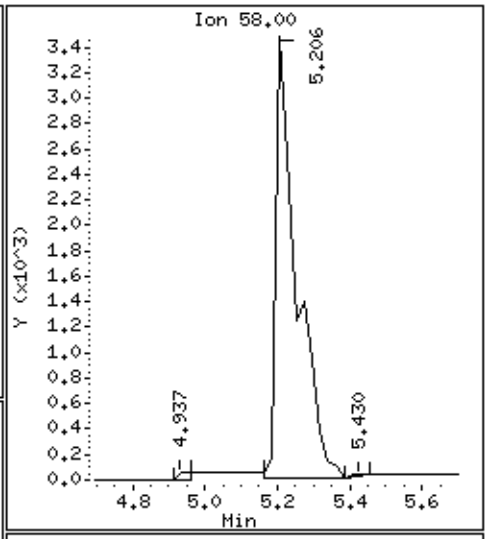
Column phase: DB-5.625

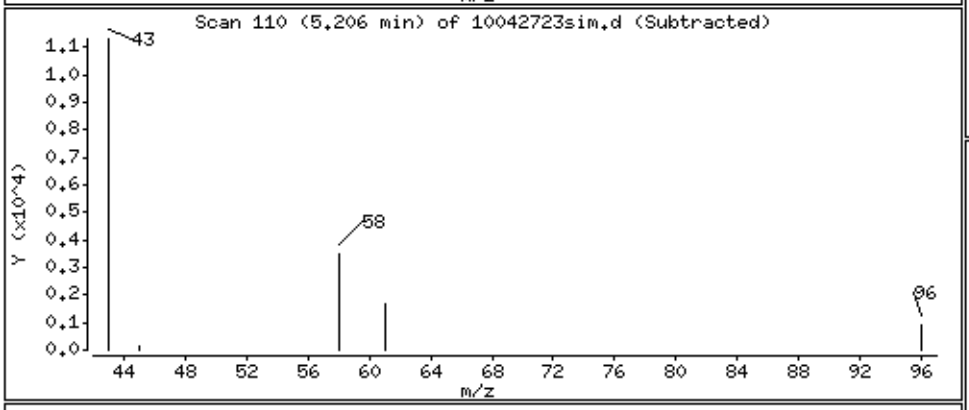
Column diameter: 0.25

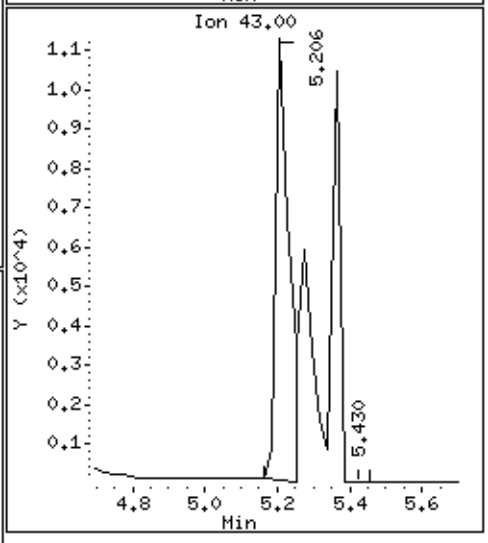
5 Acetone

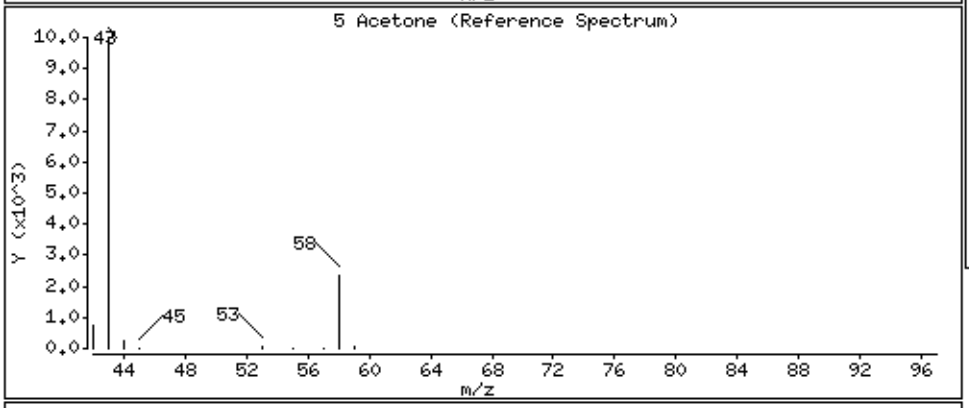
Concentration: 7.79451 ug

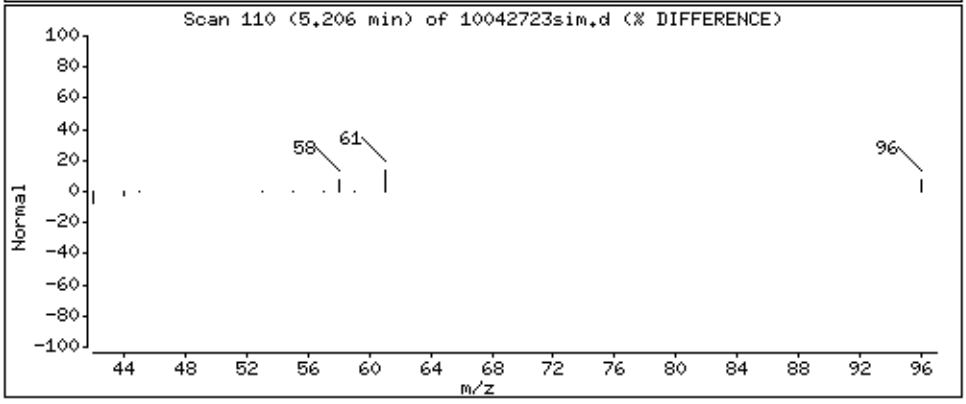












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

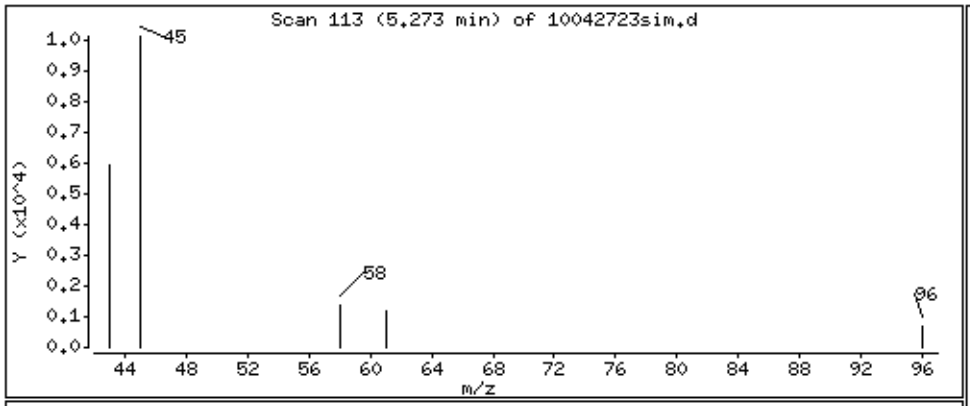
Operator: gm

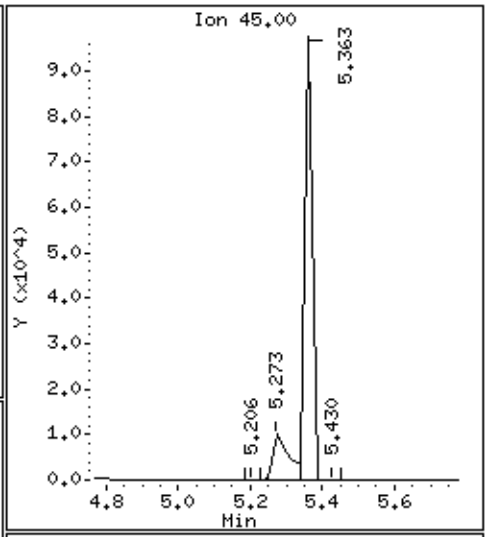
Column phase: DB-5.625

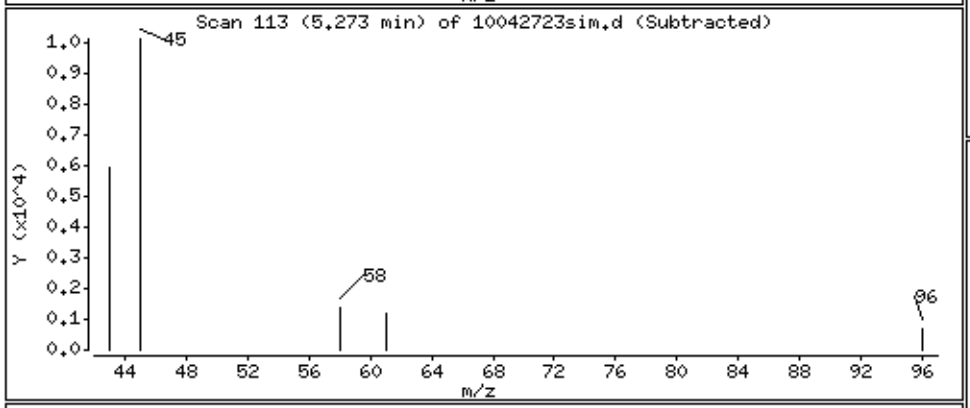
Column diameter: 0.25

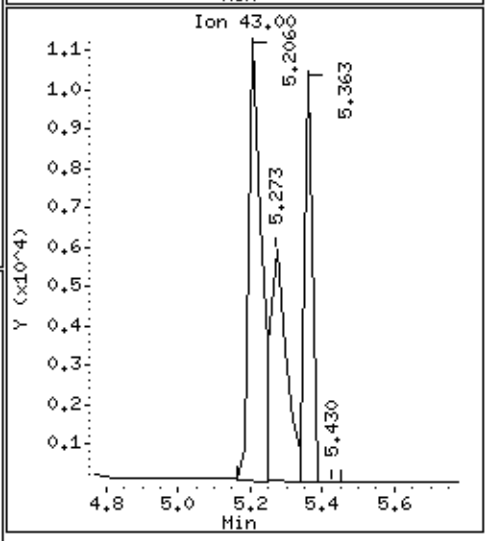
6 2-Propanol

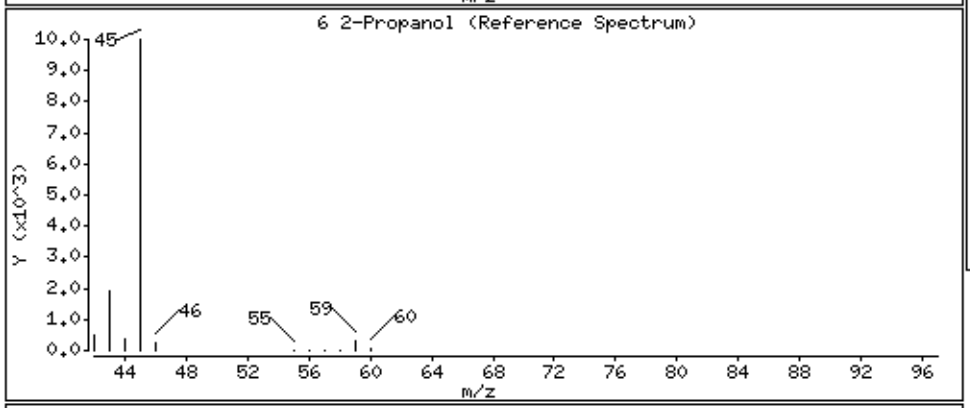
Concentration: 6.42310 ug

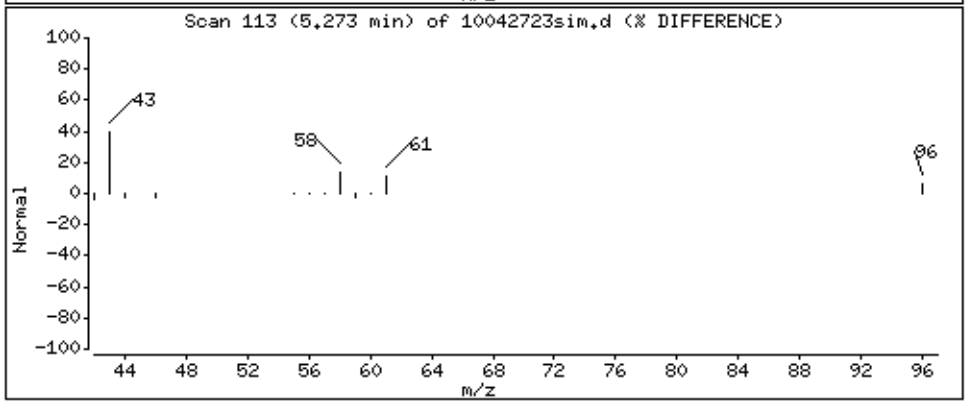












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

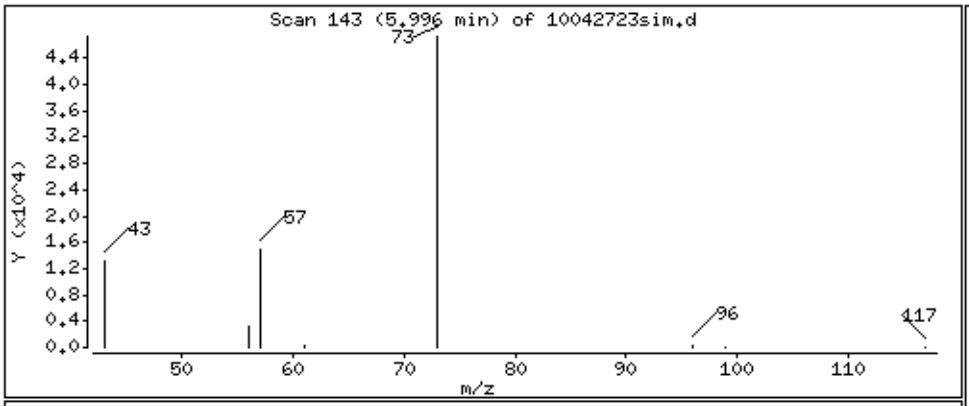
Operator: gm

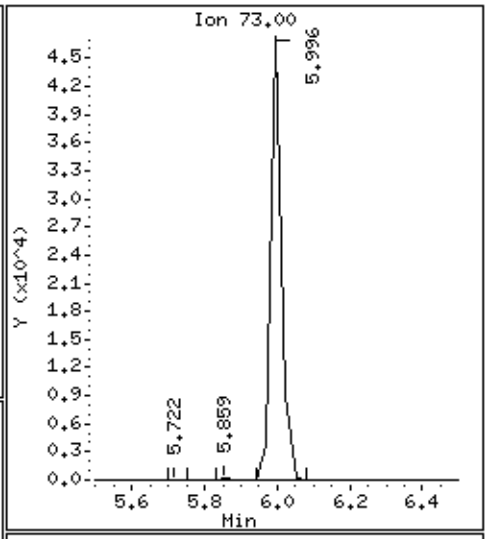
Column phase: DB-5.625

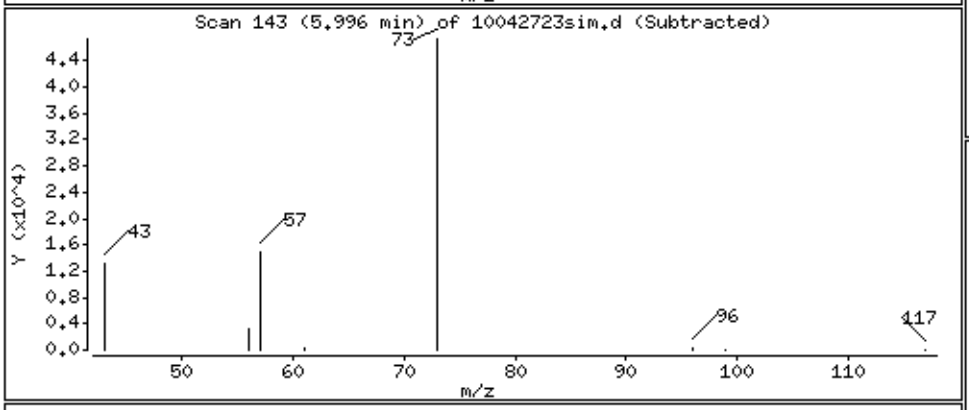
Column diameter: 0.25

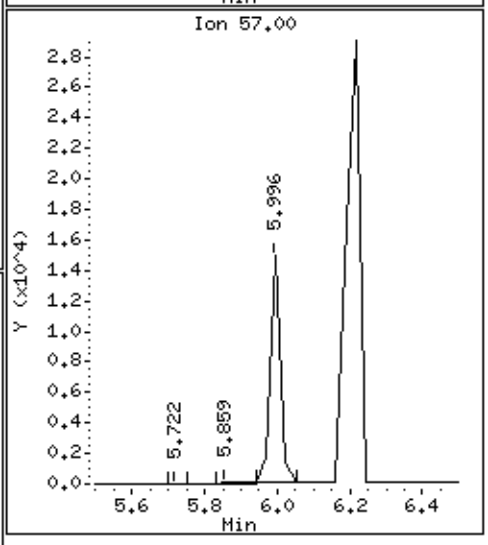
7 MTBE

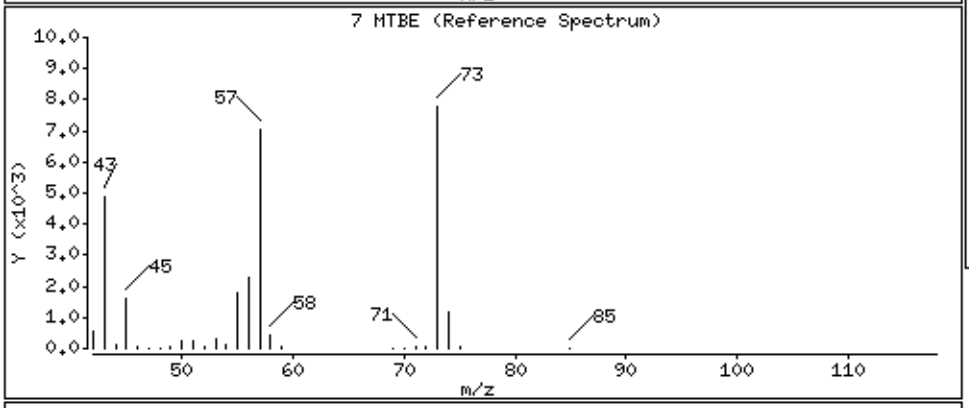
Concentration: 8.26441 ug

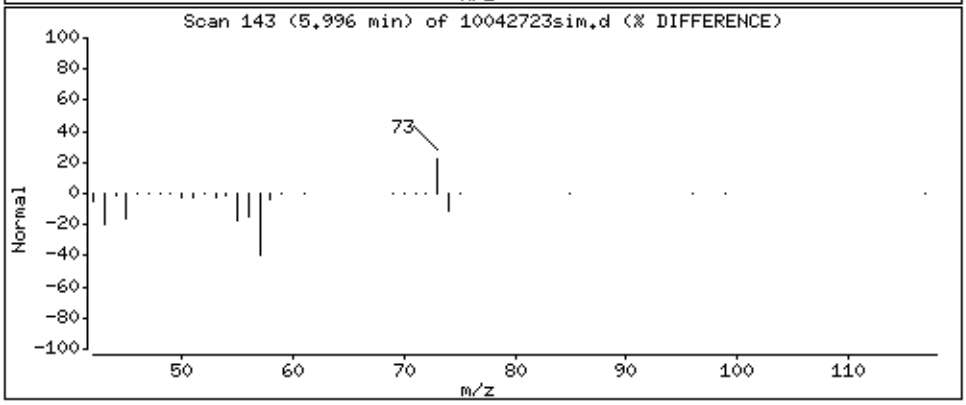












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

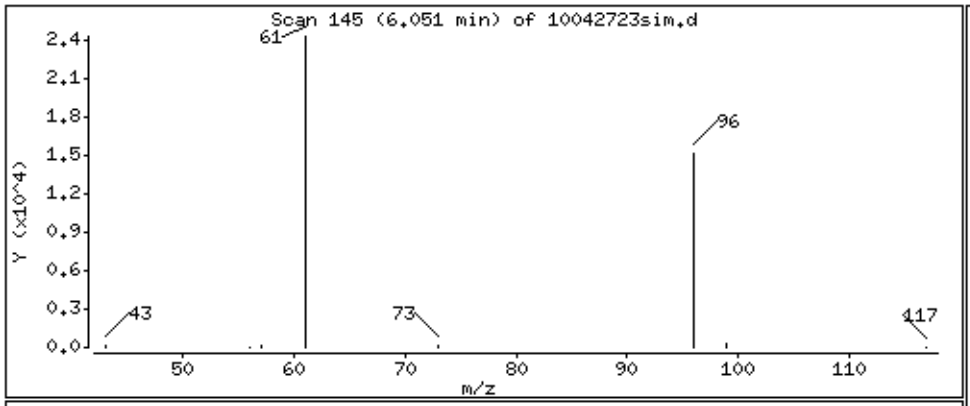
Operator: gm

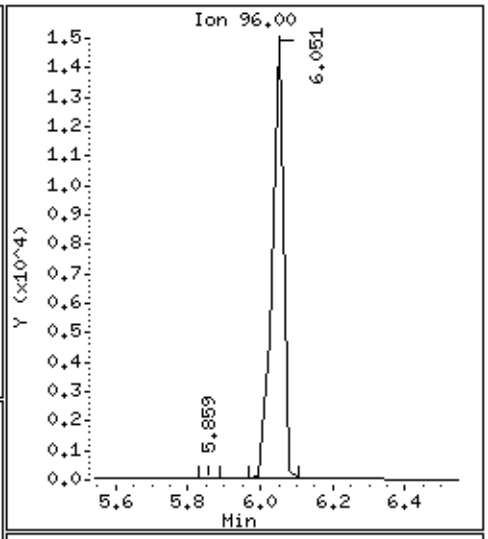
Column phase: DB-5.625

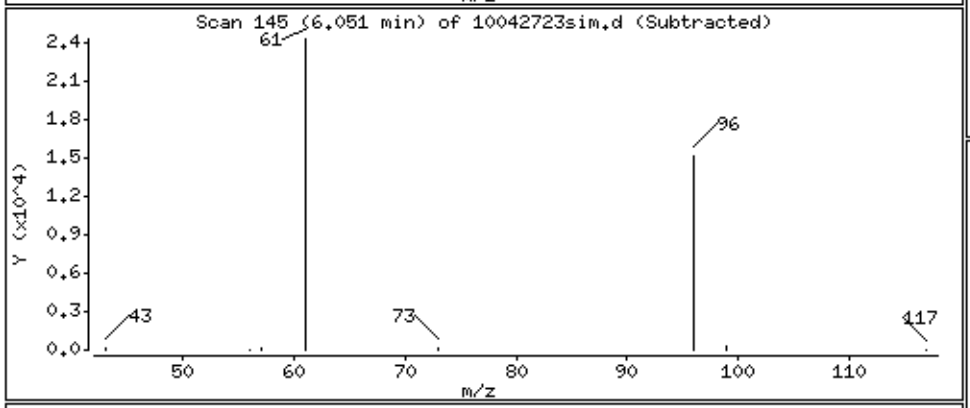
Column diameter: 0.25

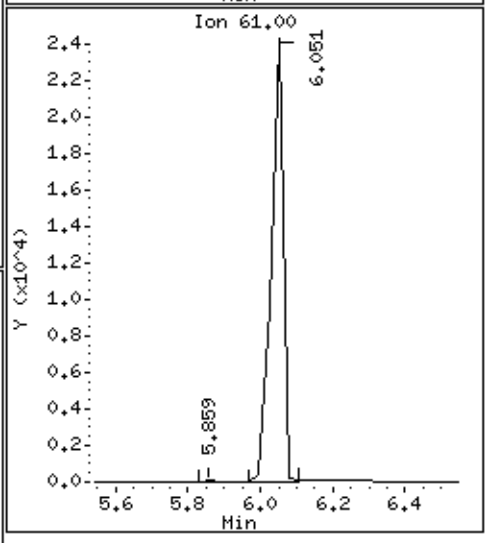
8 trans-1,2-Dichloroethene

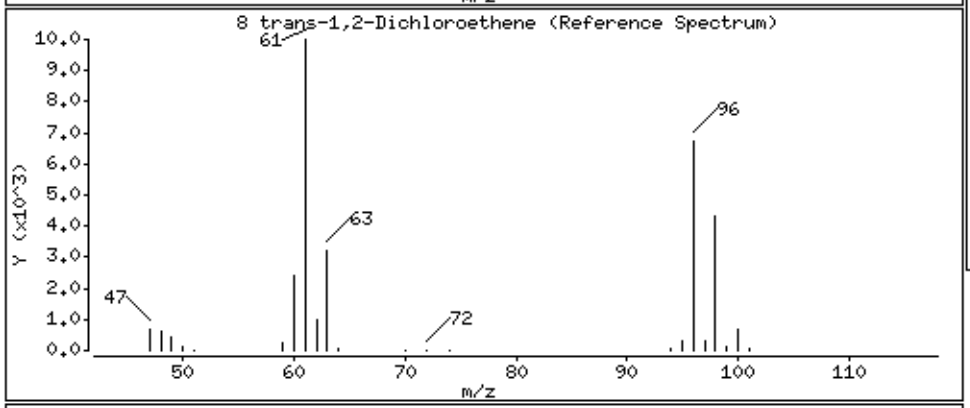
Concentration: 9.60747 ug

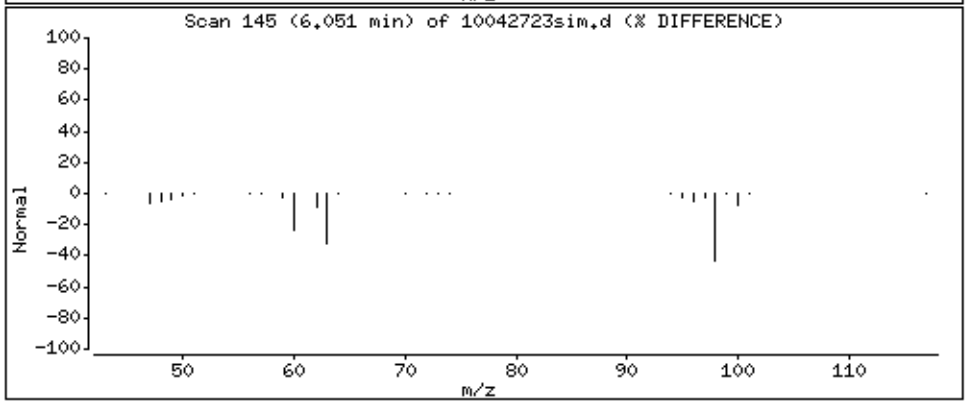












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

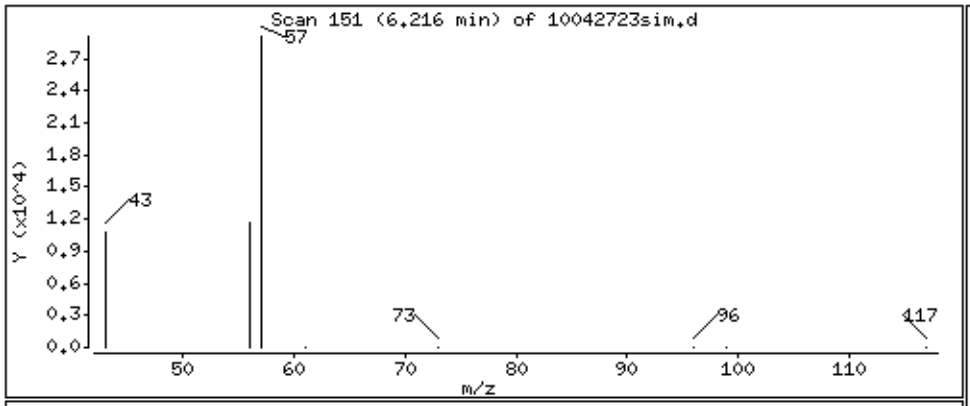
Operator: gm

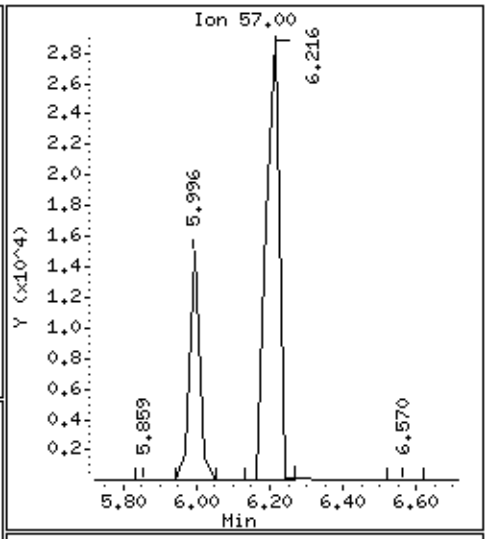
Column phase: DB-5.625

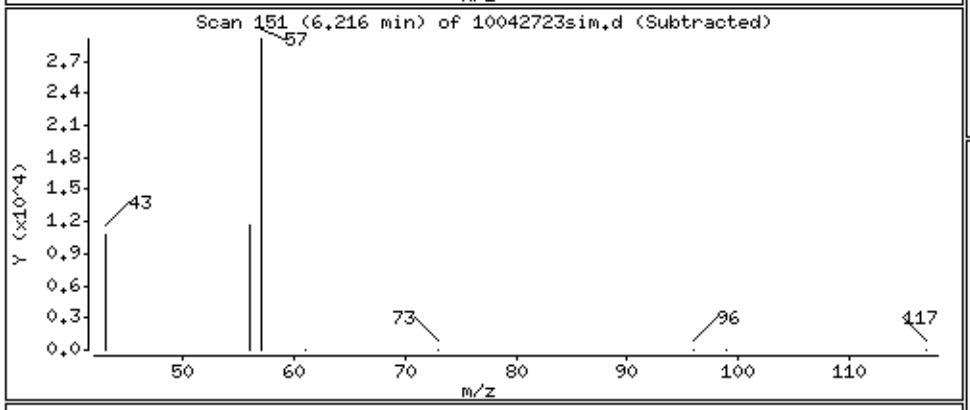
Column diameter: 0.25

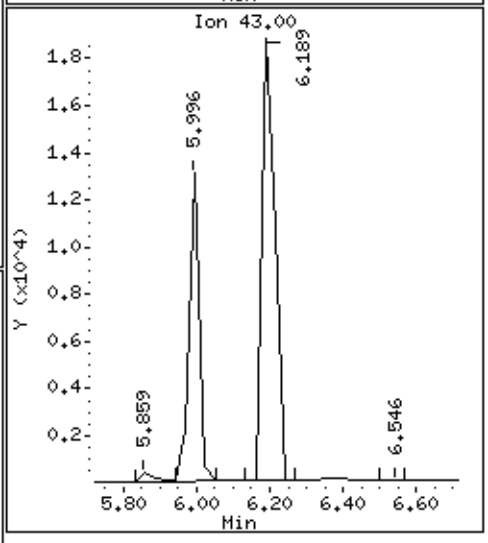
9 Hexane

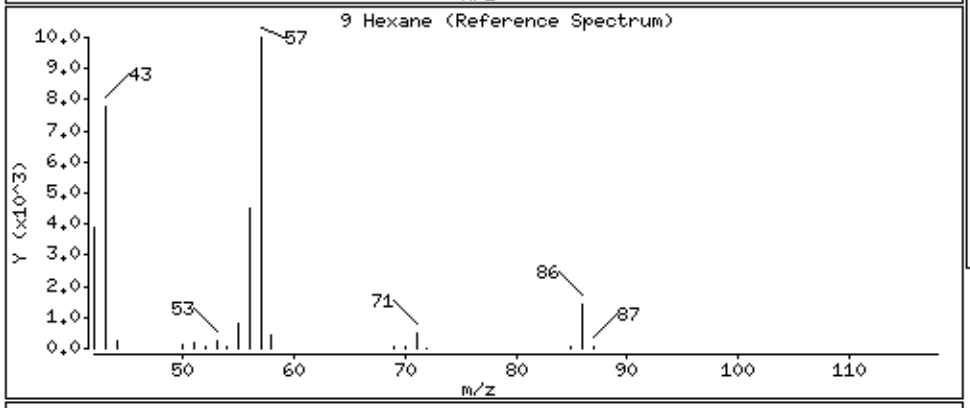
Concentration: 6.88691 ug

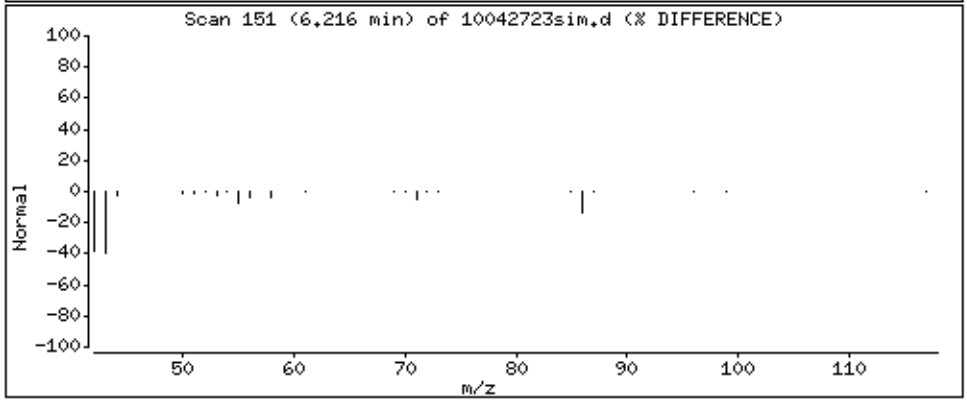












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

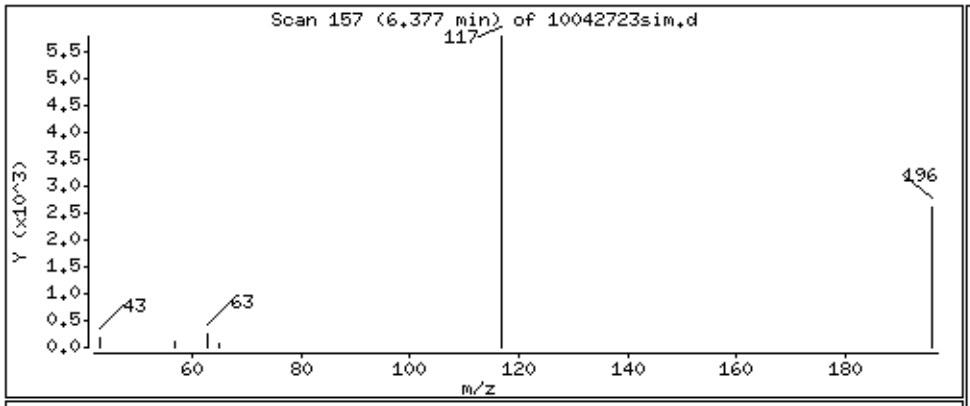
Operator: gm

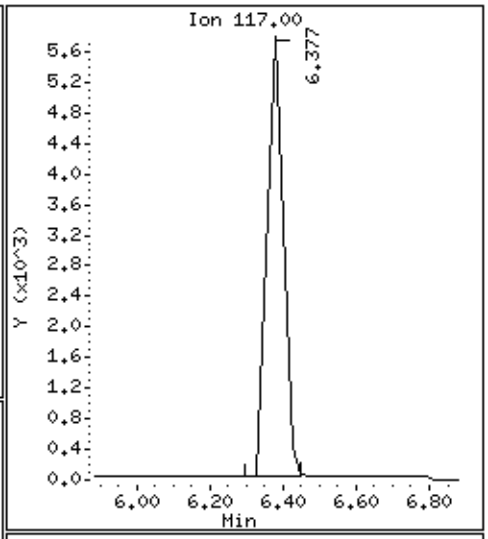
Column phase: DB-5.625

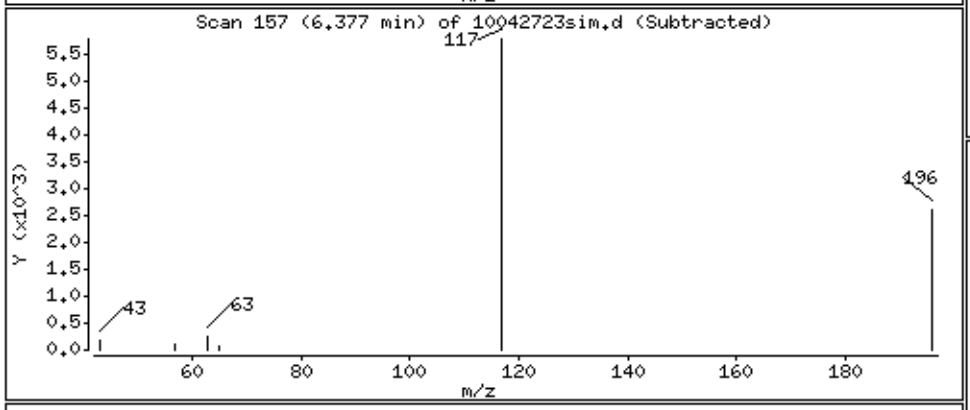
Column diameter: 0.25

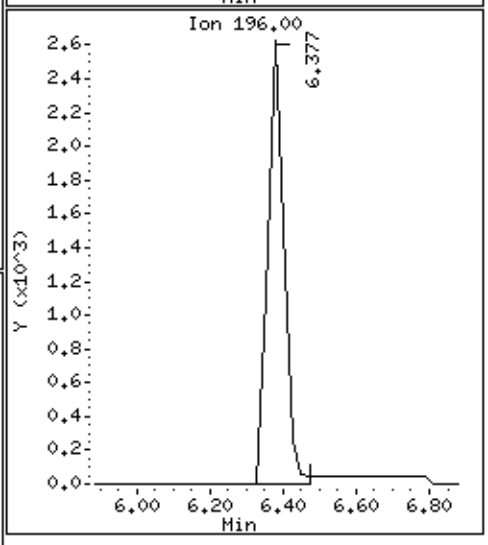
10 Halothane

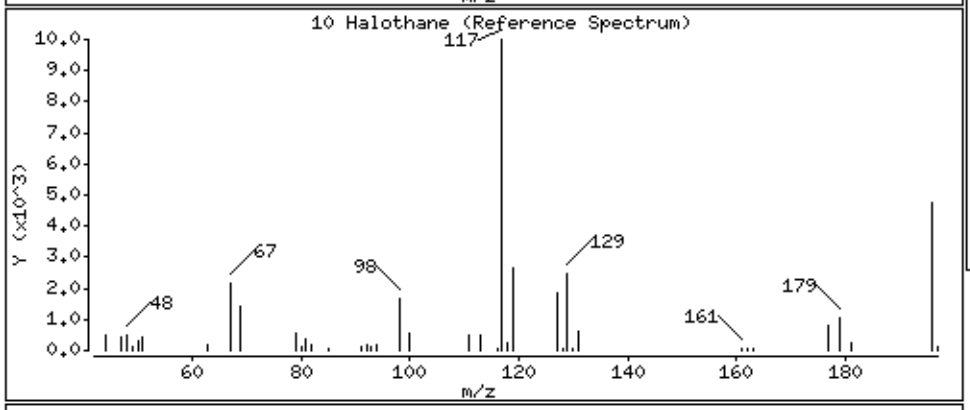
Concentration: 8.47799 ug

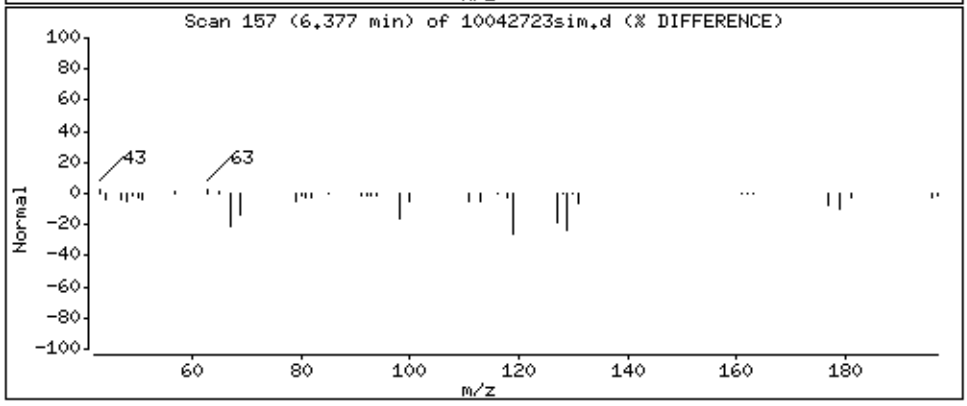












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

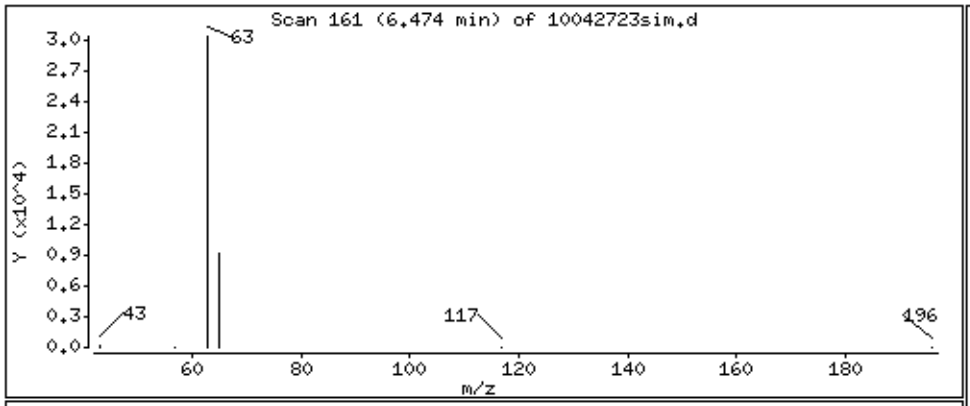
Operator: gm

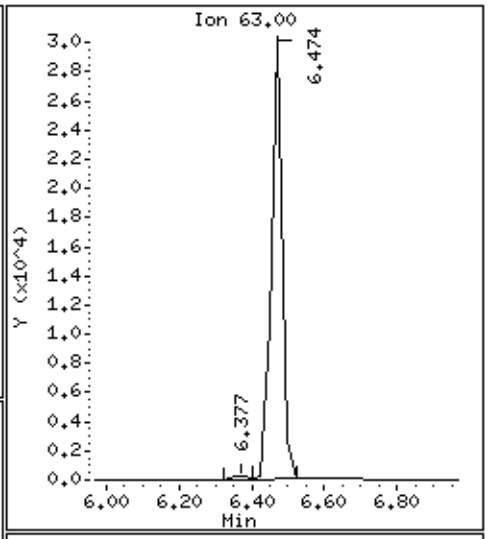
Column phase: DB-5.625

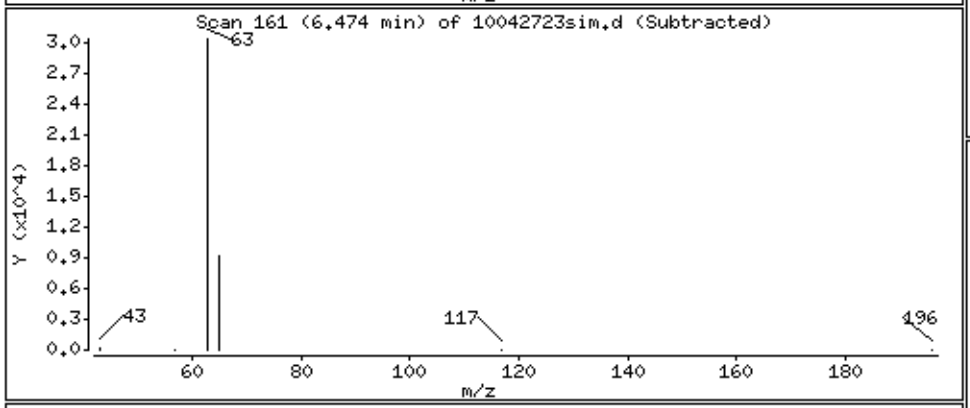
Column diameter: 0.25

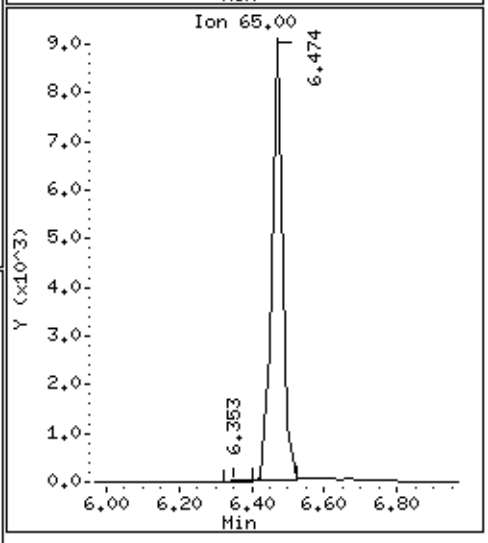
11 1,1-Dichloroethane-SPCC

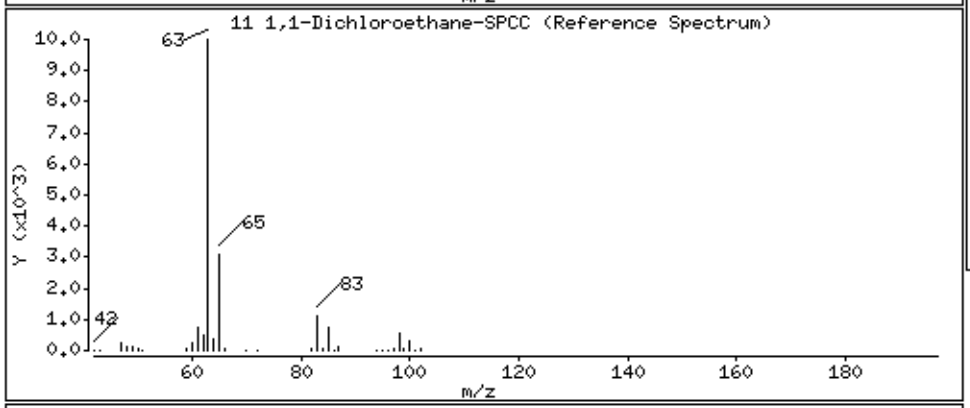
Concentration: 8.46603 ug

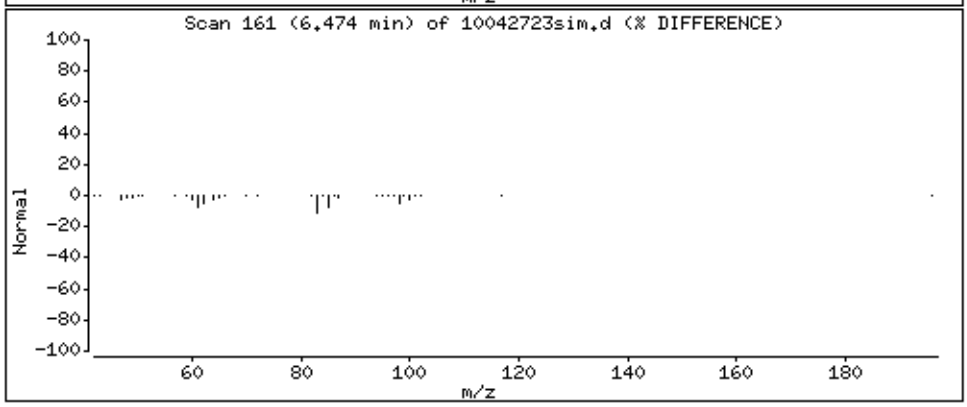












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

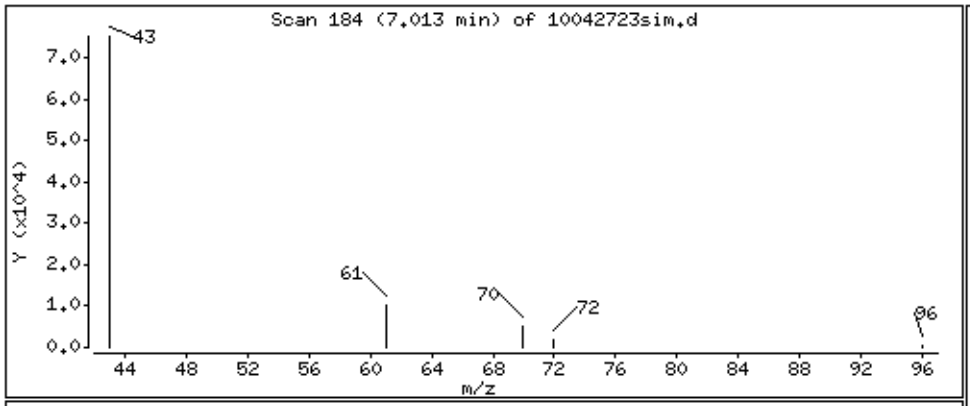
Operator: gm

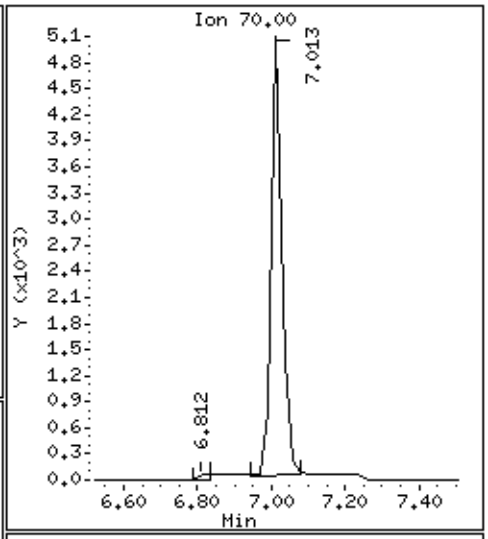
Column phase: DB-5.625

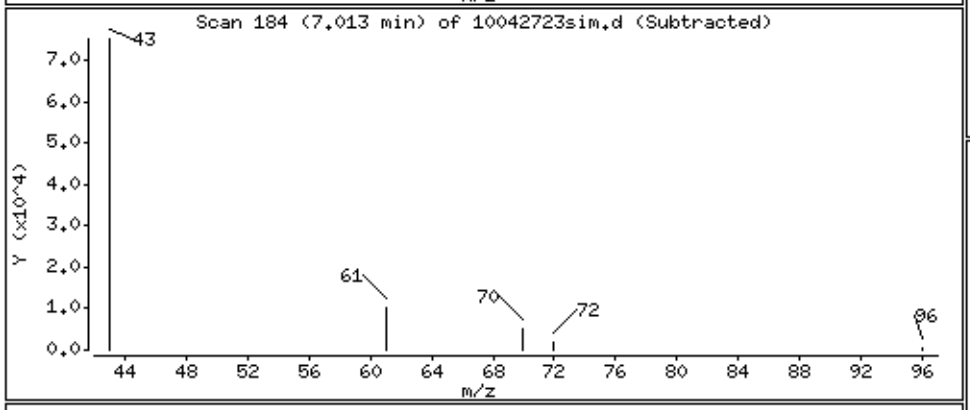
Column diameter: 0.25

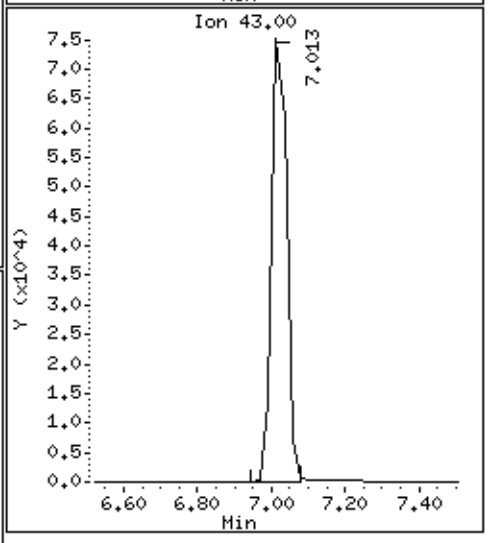
12 Ethyl Acetate

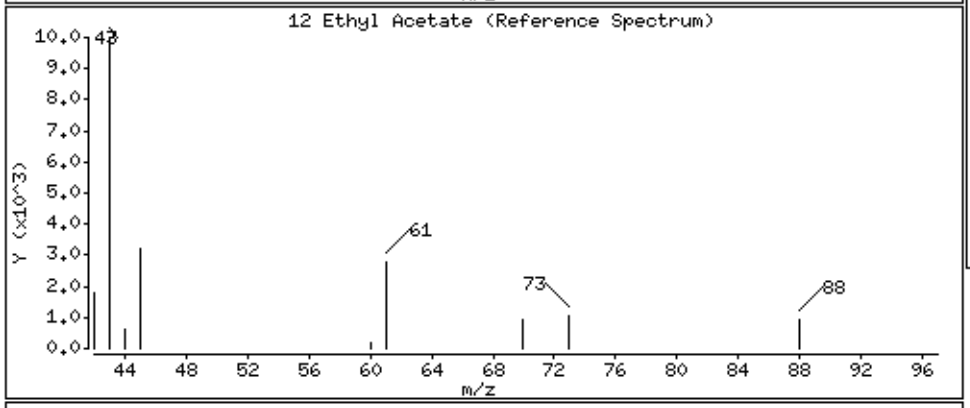
Concentration: 8.26650 ug

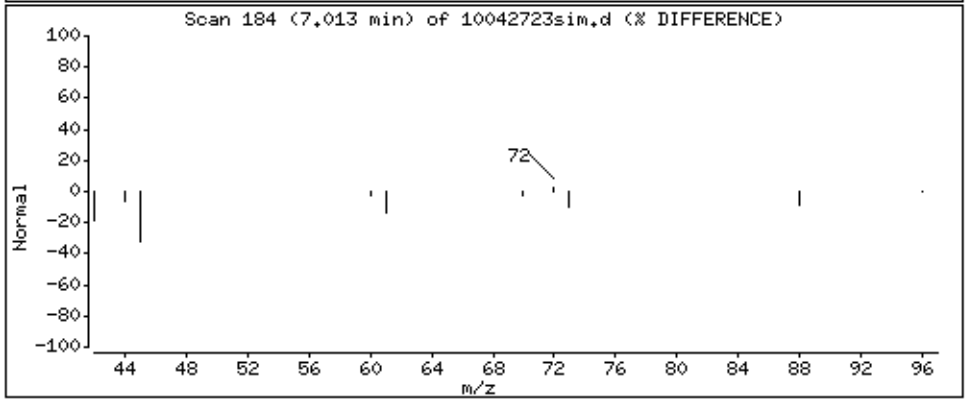












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

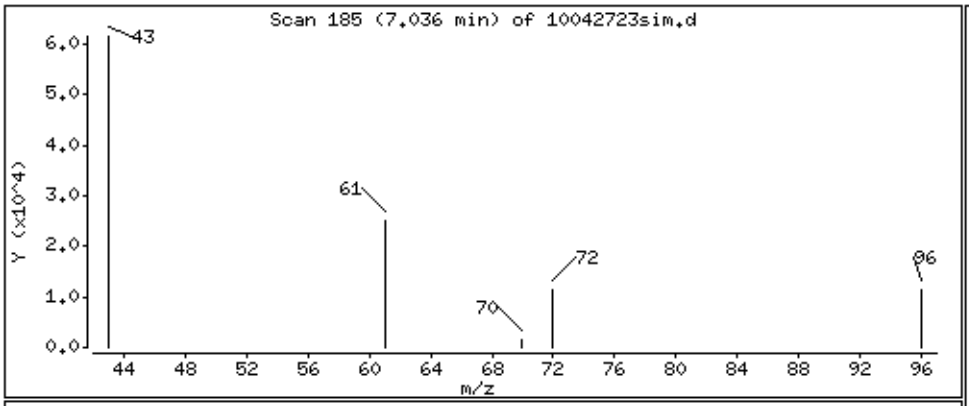
Operator: gm

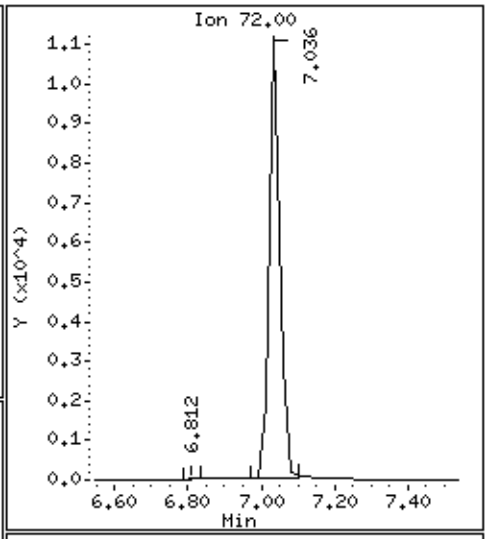
Column phase: DB-5.625

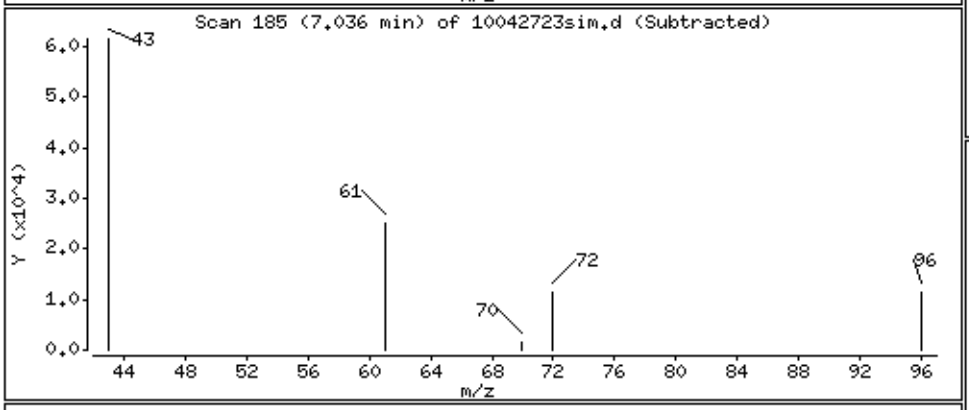
Column diameter: 0.25

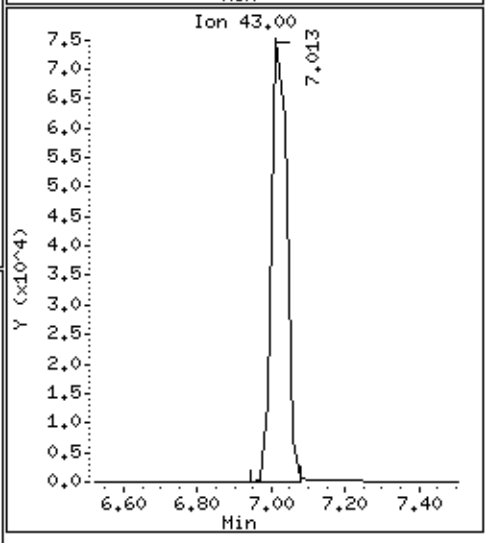
13 2-Butanone

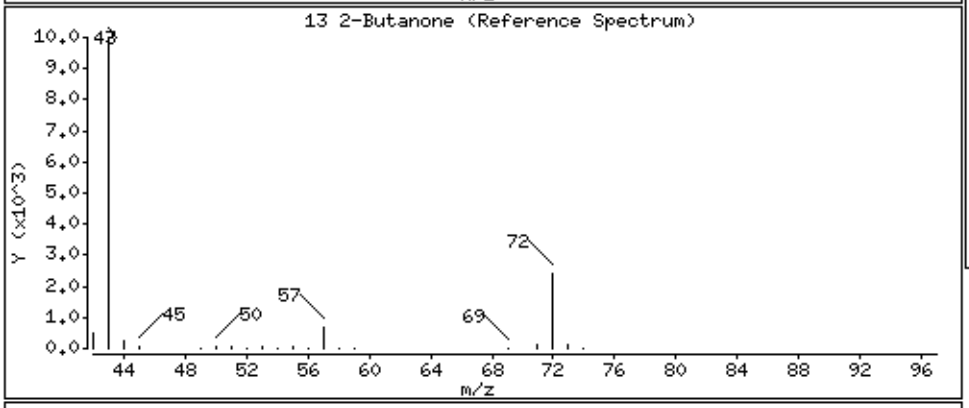
Concentration: 8.12091 ug

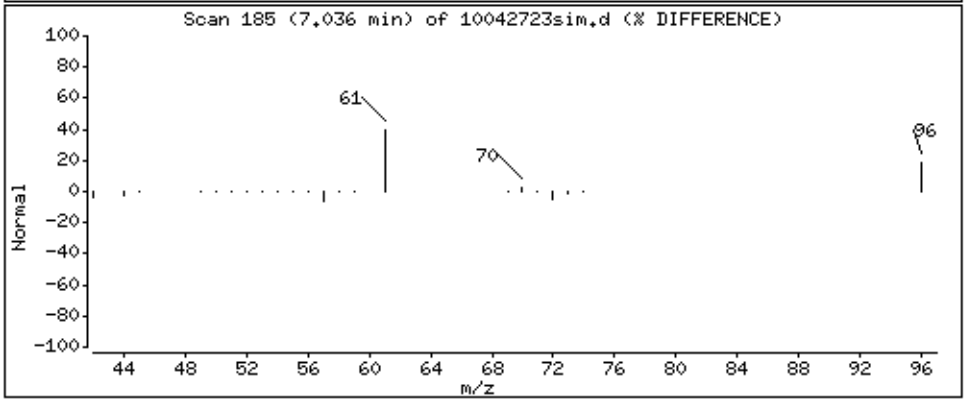












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

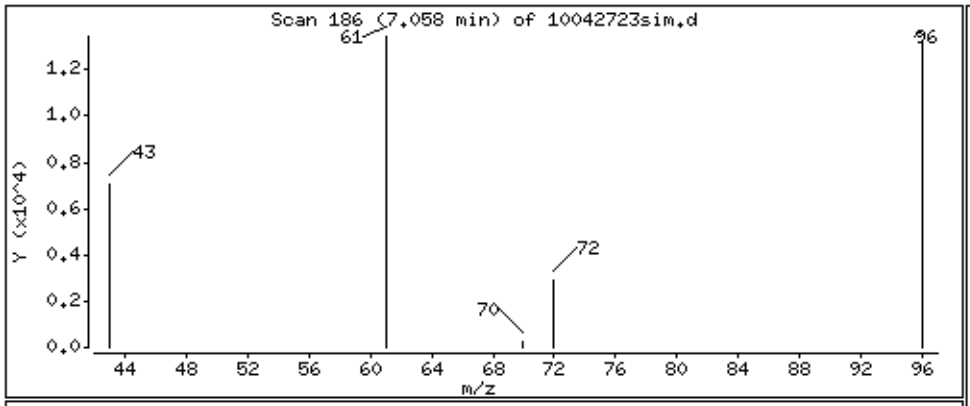
Operator: gm

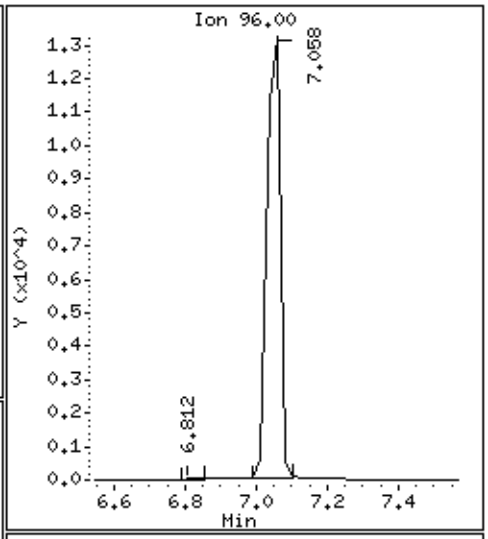
Column phase: DB-5.625

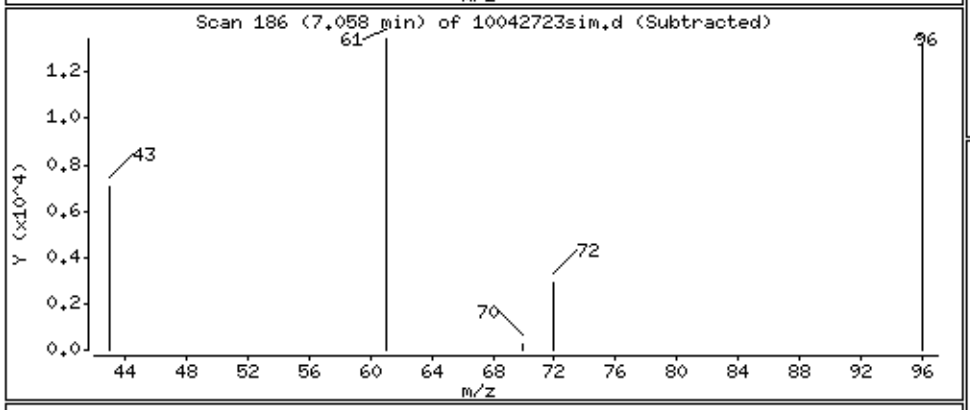
Column diameter: 0.25

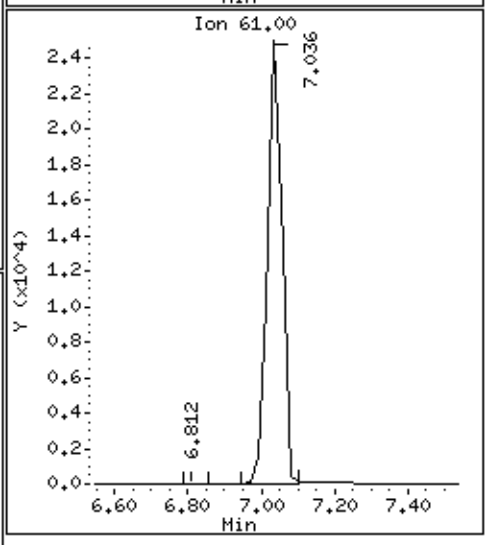
14 cis-1,2-Dichloroethene

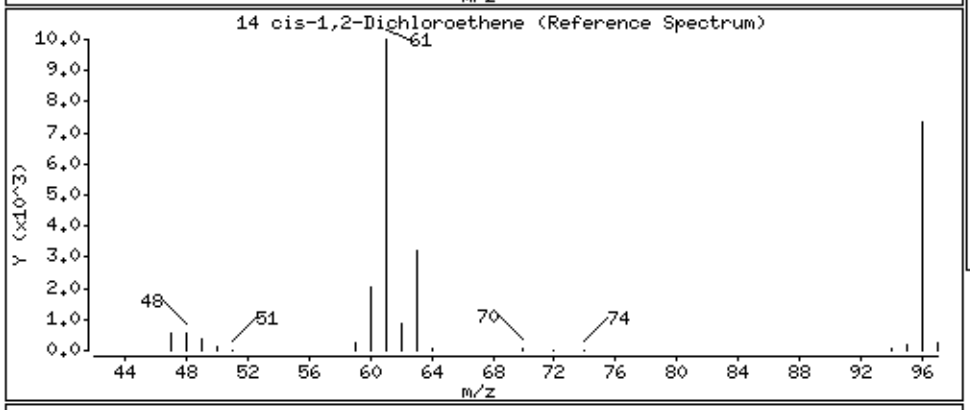
Concentration: 8.33981 ug

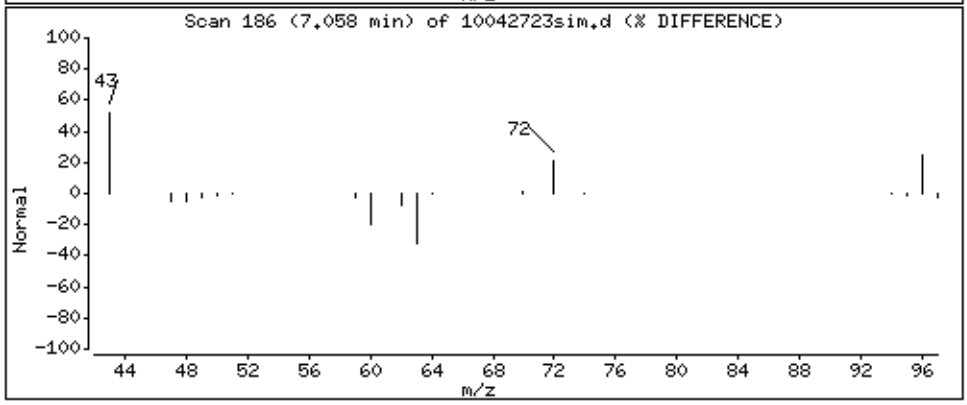












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

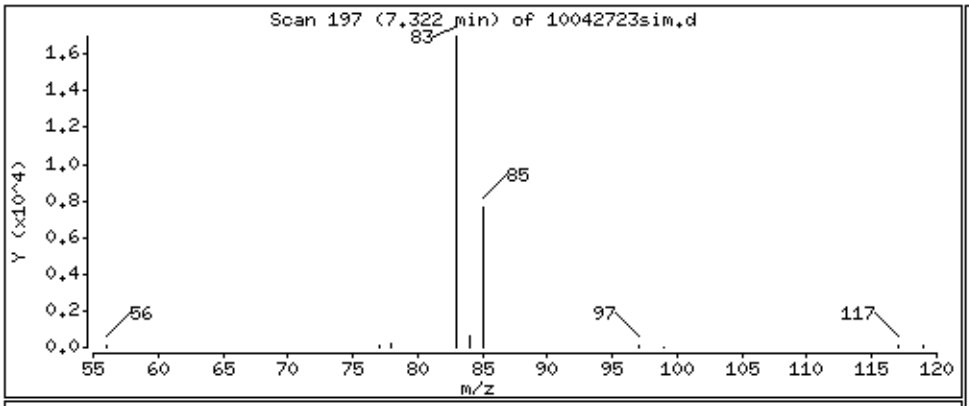
Operator: gm

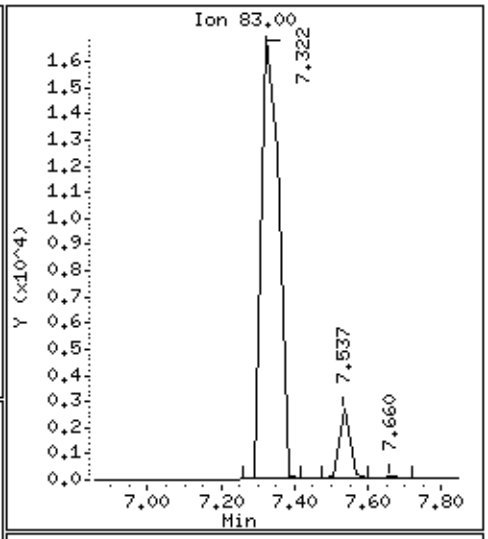
Column phase: DB-5.625

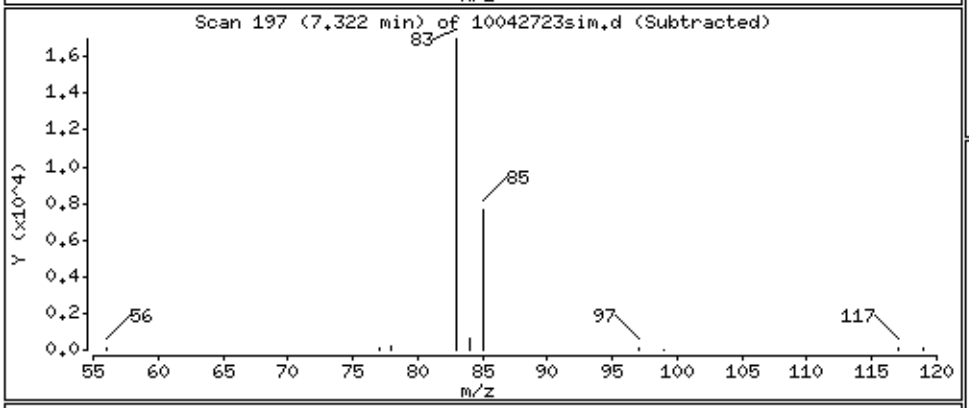
Column diameter: 0.25

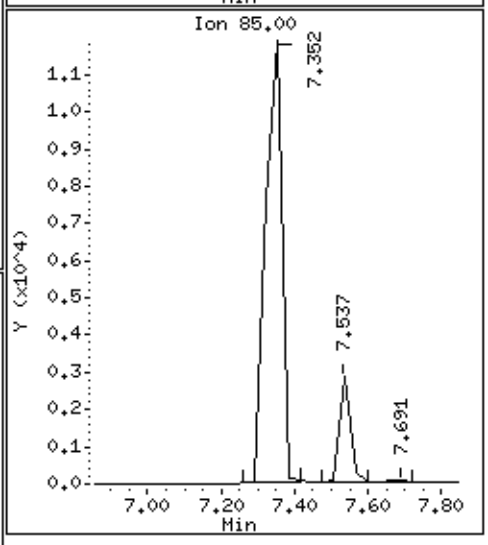
15 Chloroform-CCC

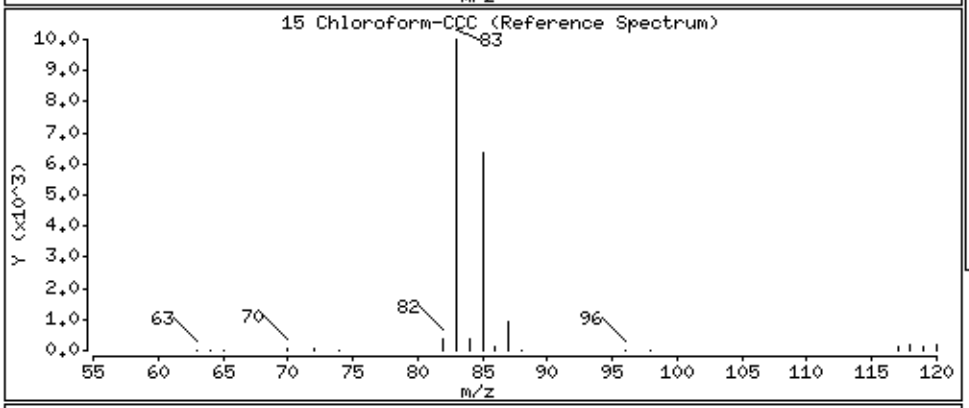
Concentration: 8.07006 ug

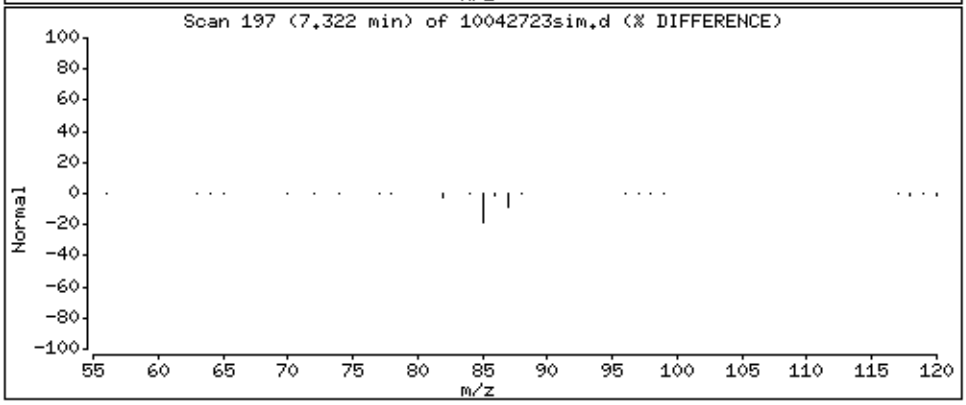












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

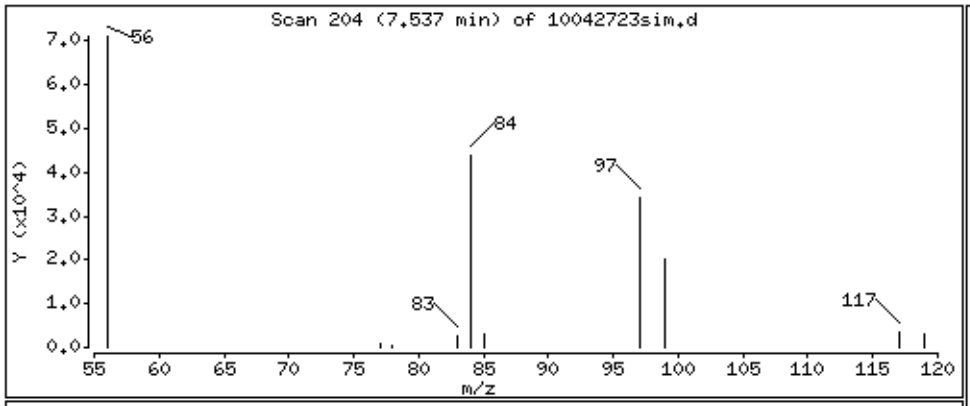
Operator: gm

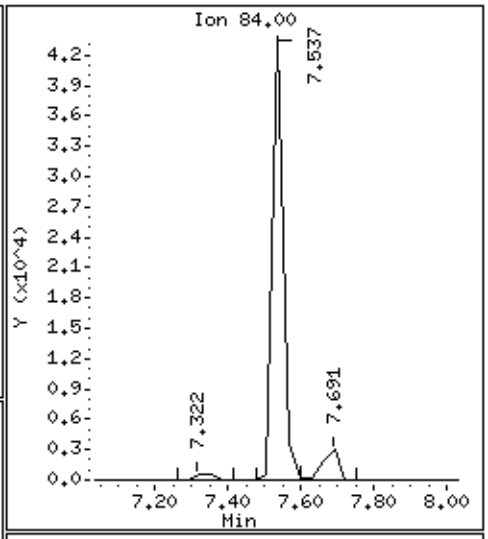
Column phase: DB-5.625

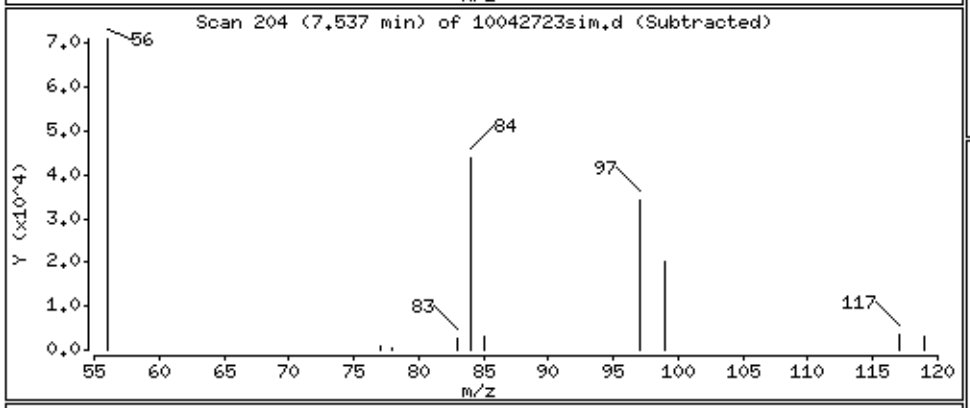
Column diameter: 0.25

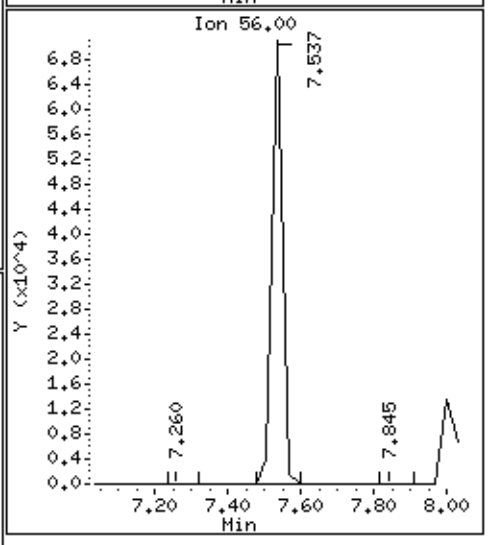
16 Cyclohexane

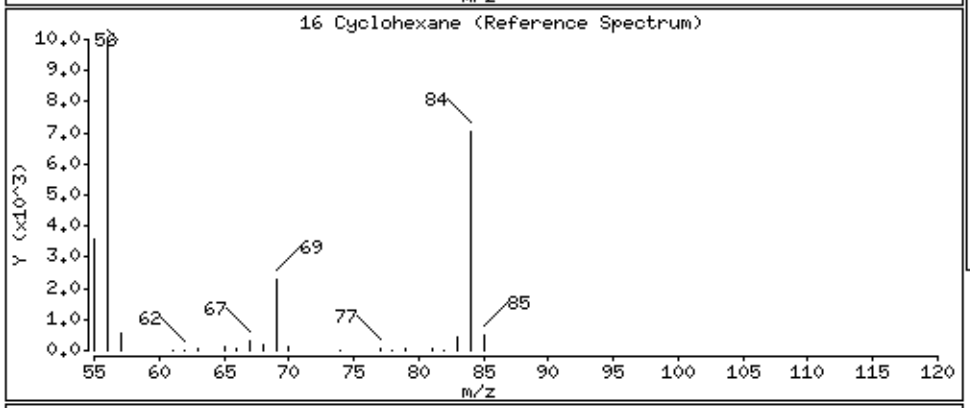
Concentration: 9.42172 ug

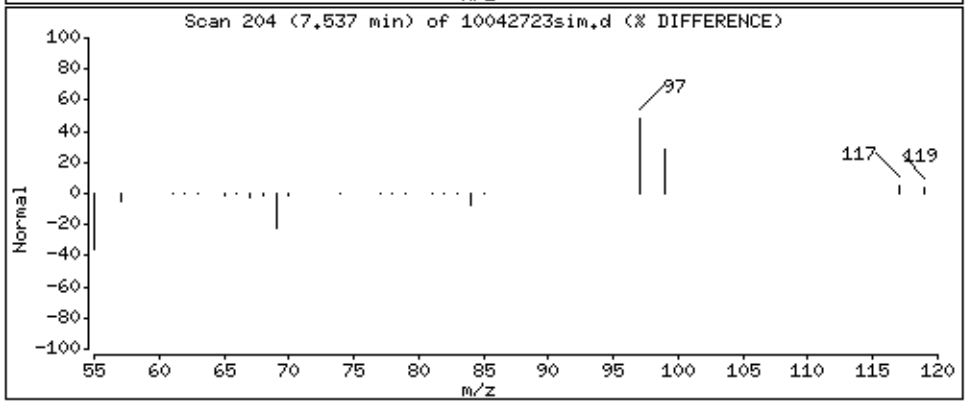












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

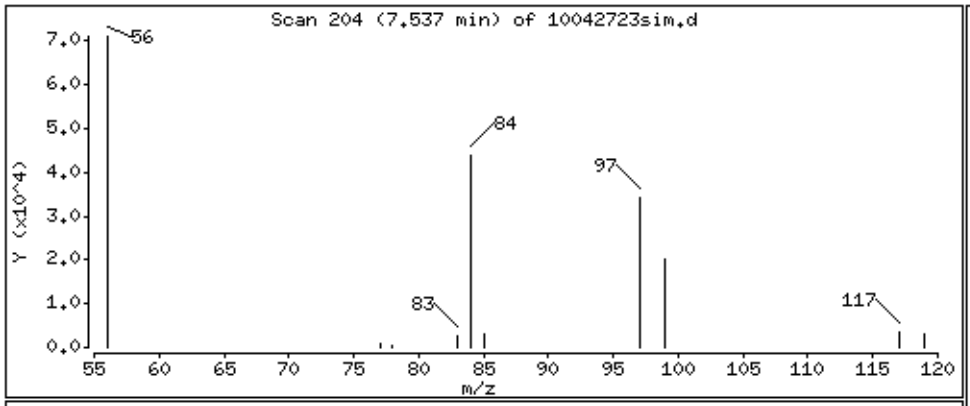
Operator: gm

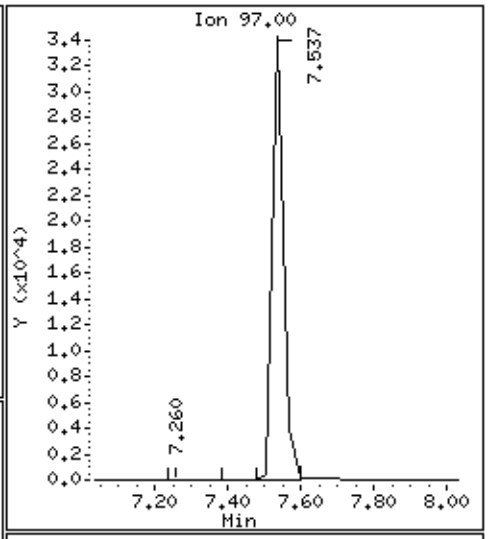
Column phase: DB-5.625

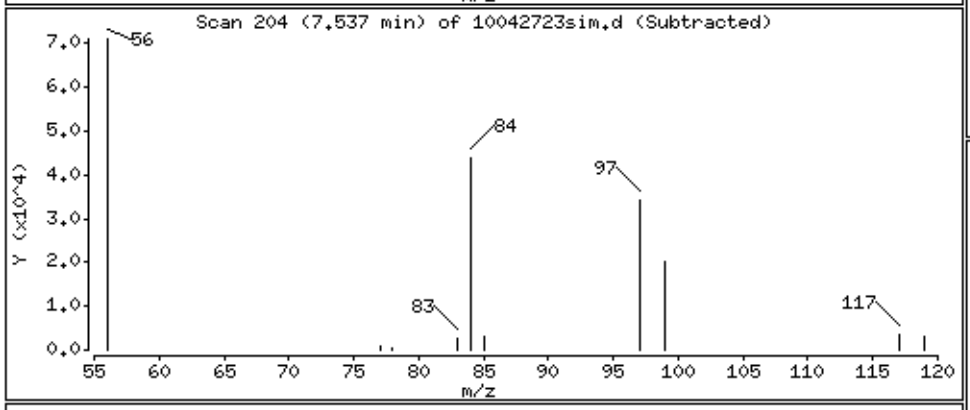
Column diameter: 0.25

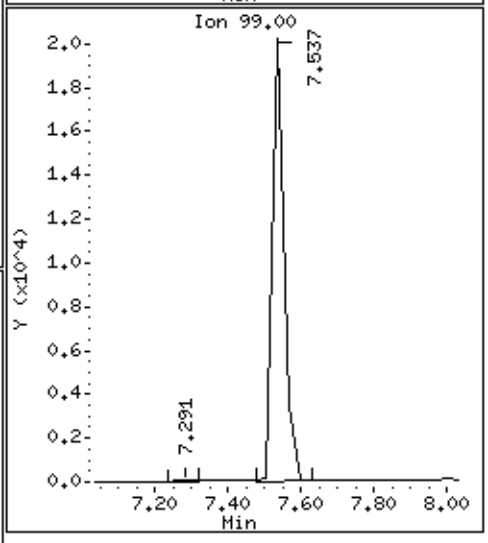
17 1,1,1-Trichloroethane

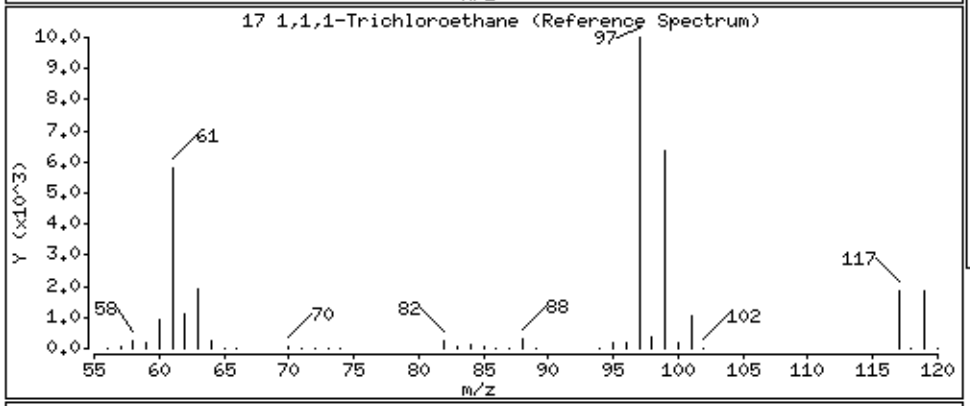
Concentration: 8.64825 ug

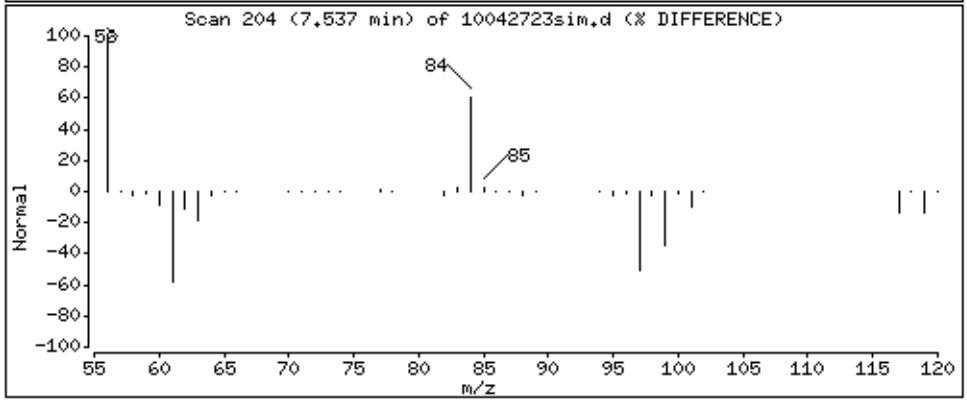












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

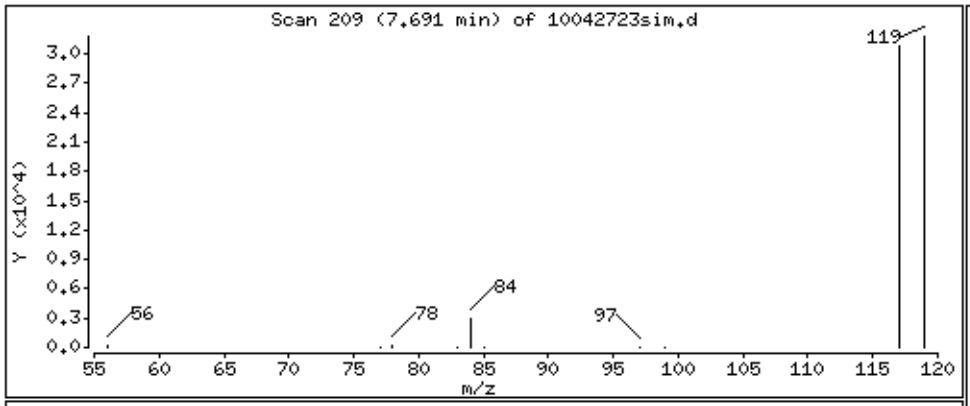
Operator: gm

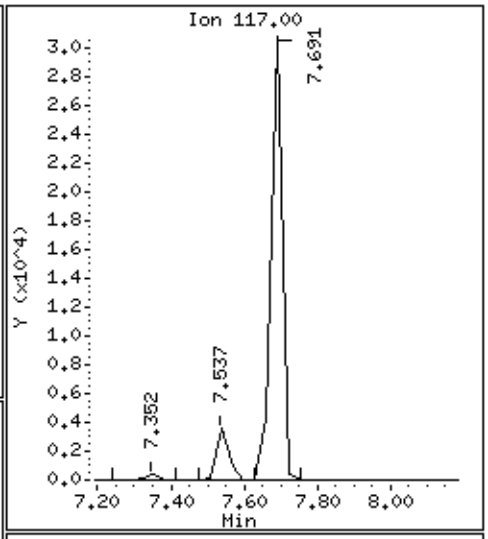
Column phase: DB-5.625

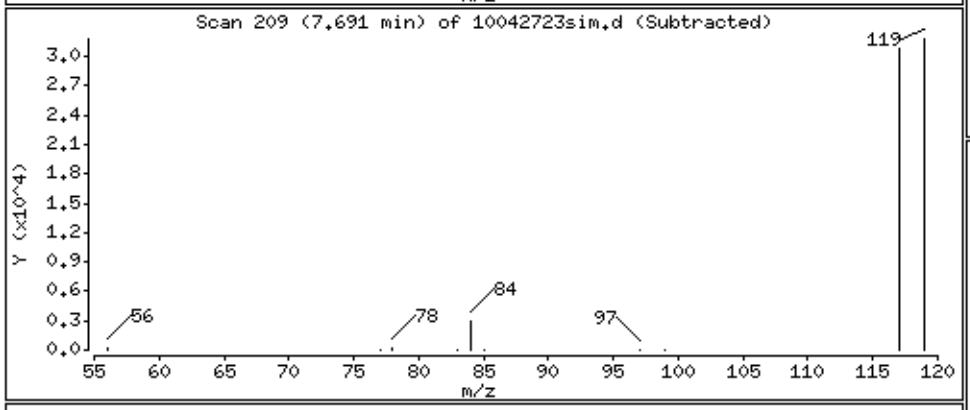
Column diameter: 0.25

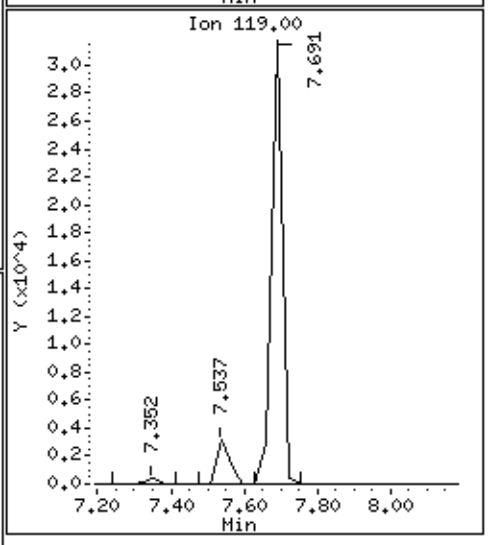
18 Carbon Tetrachloride

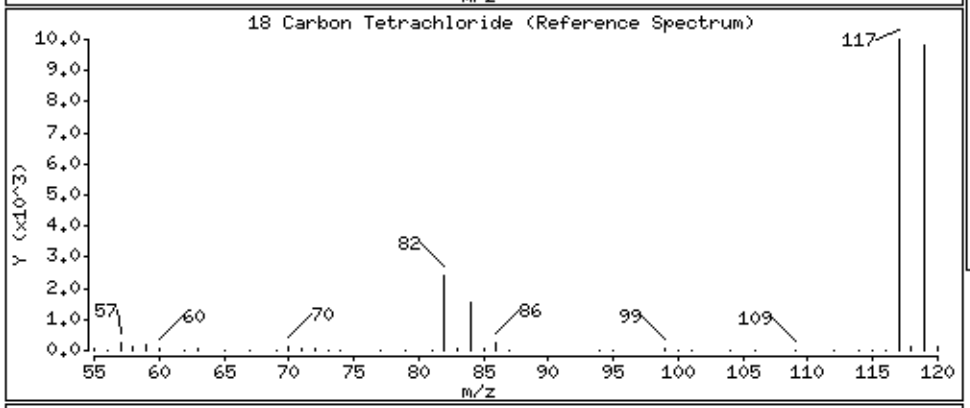
Concentration: 8.85484 ug

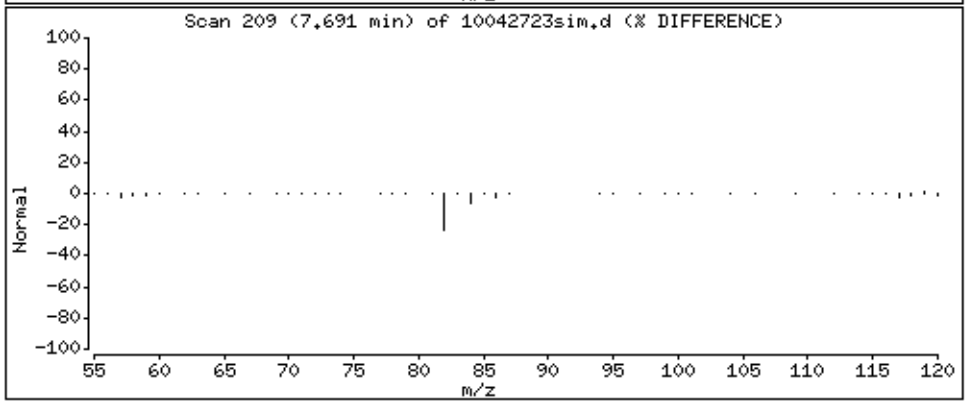












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

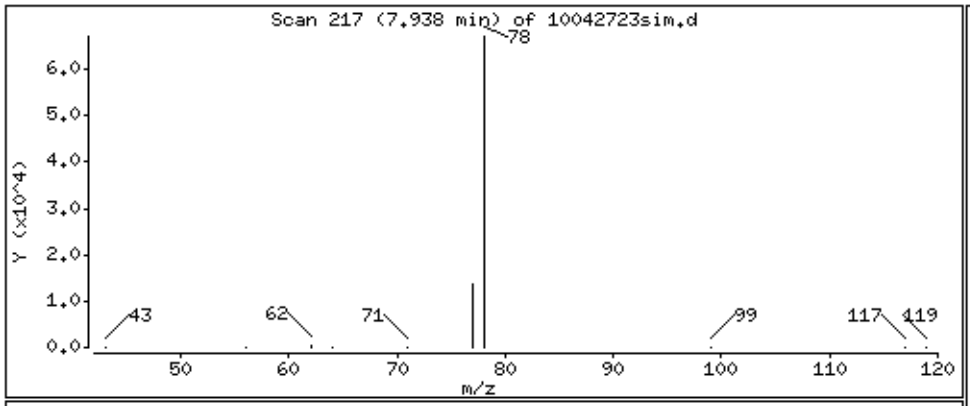
Operator: gm

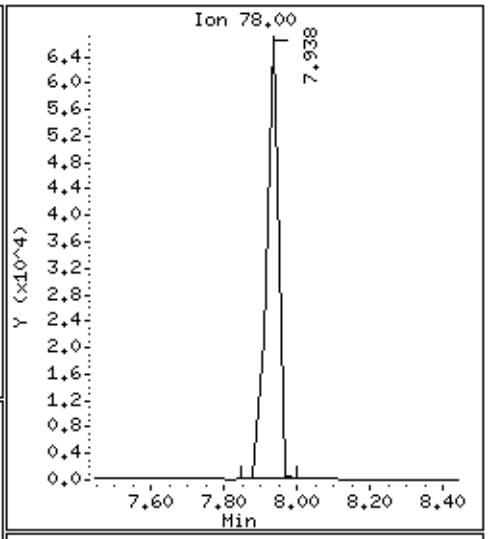
Column phase: DB-5.625

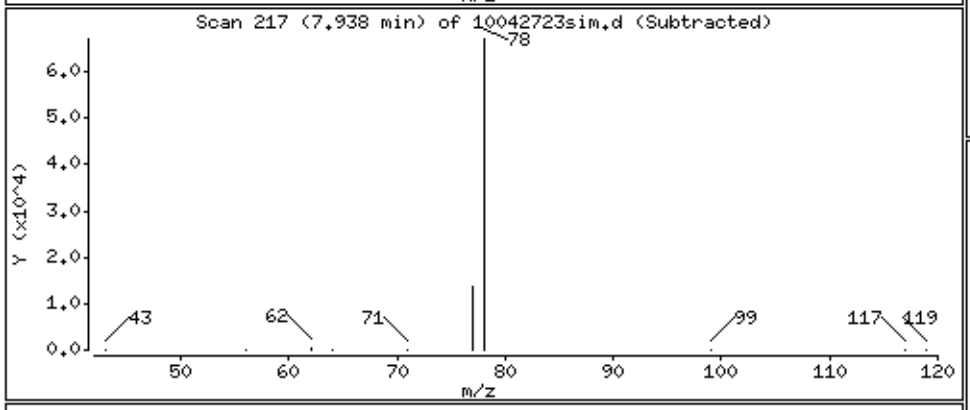
Column diameter: 0.25

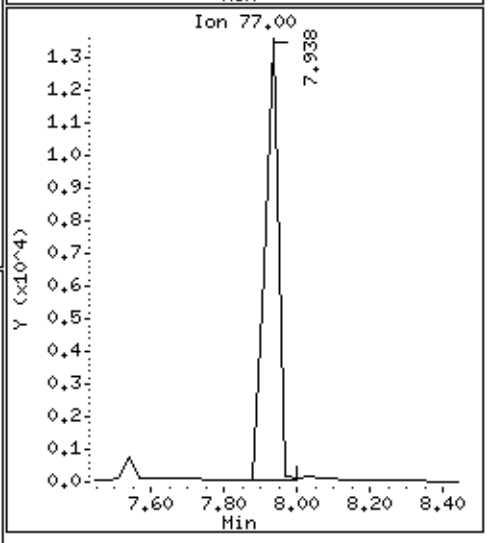
19 Benzene

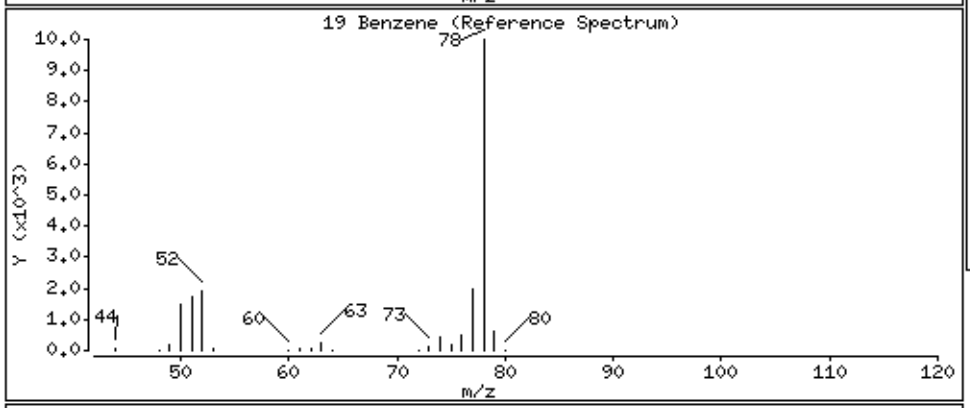
Concentration: 8.68178 ug

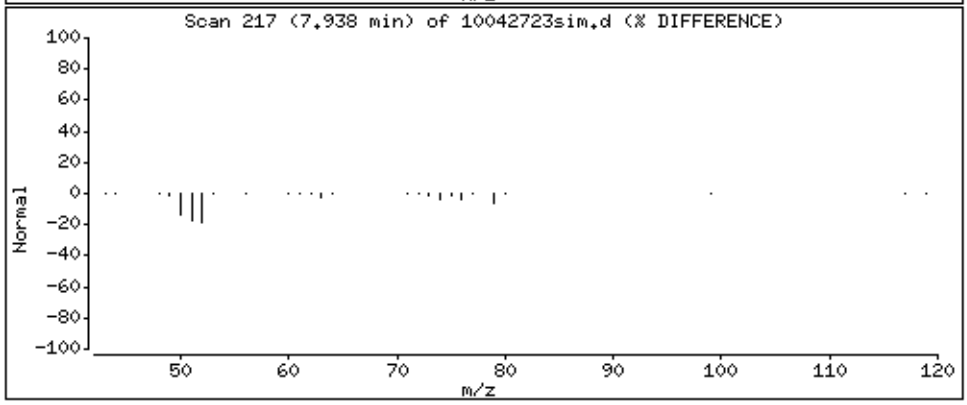












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

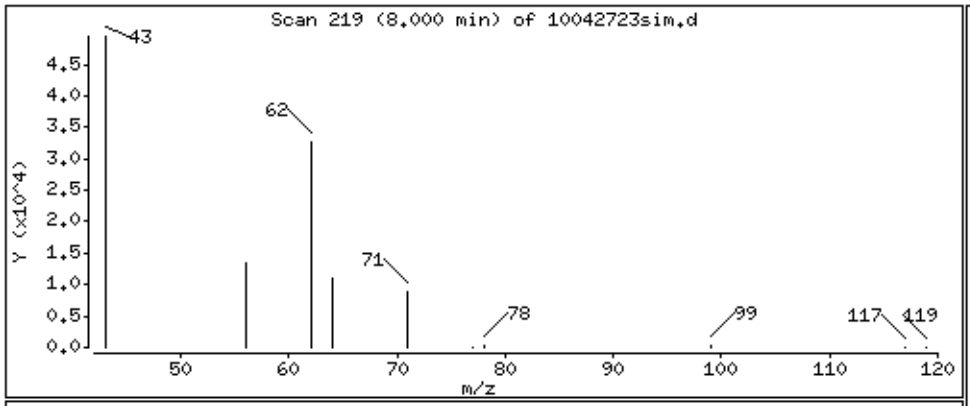
Operator: gm

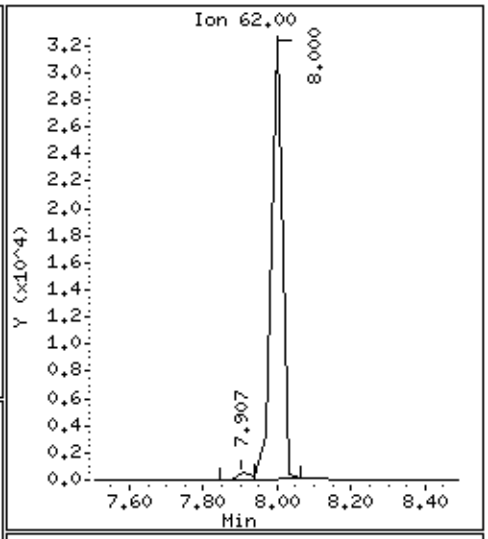
Column phase: DB-5.625

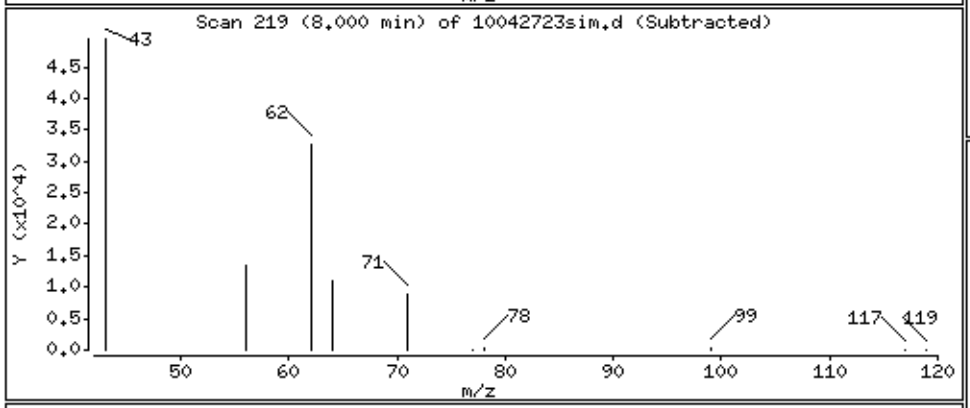
Column diameter: 0.25

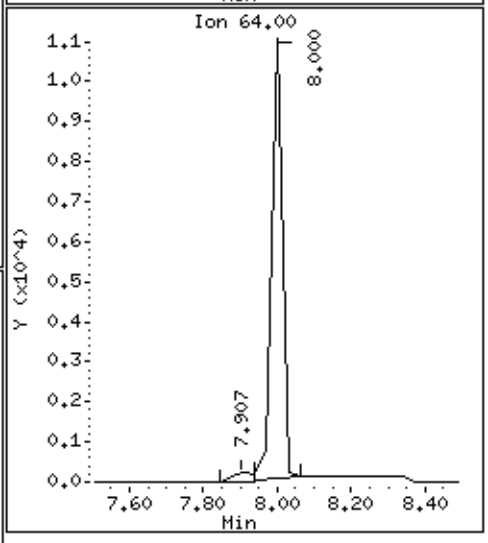
20 1,2-Dichloroethane

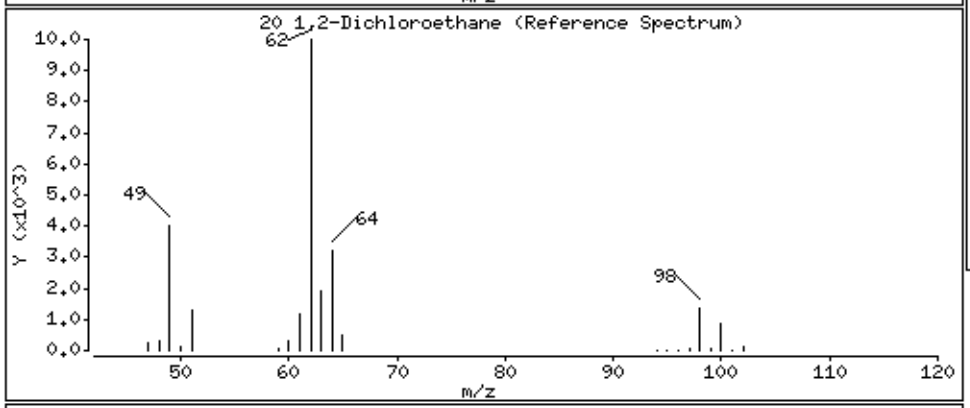
Concentration: 8.36792 ug

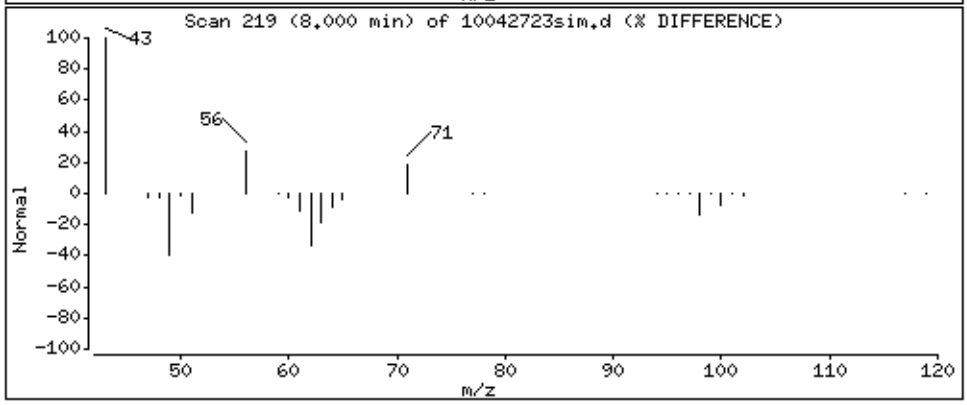












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

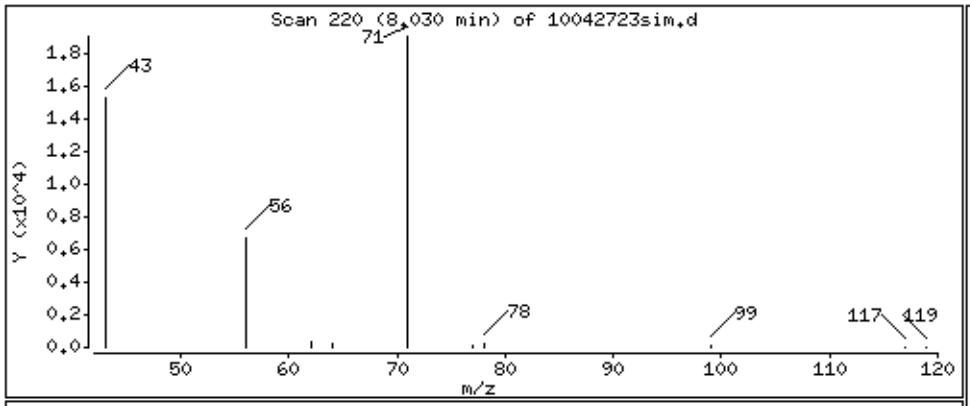
Operator: gm

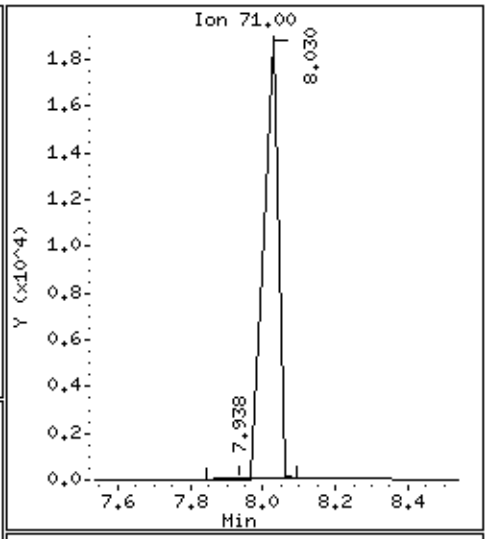
Column phase: DB-5.625

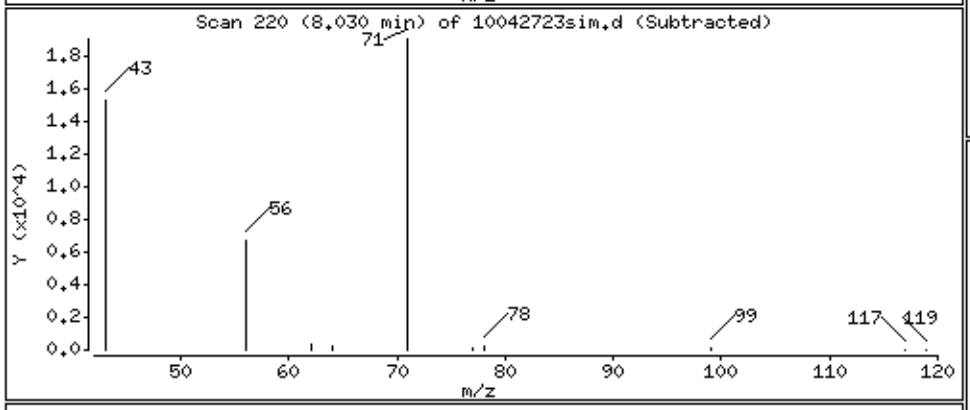
Column diameter: 0.25

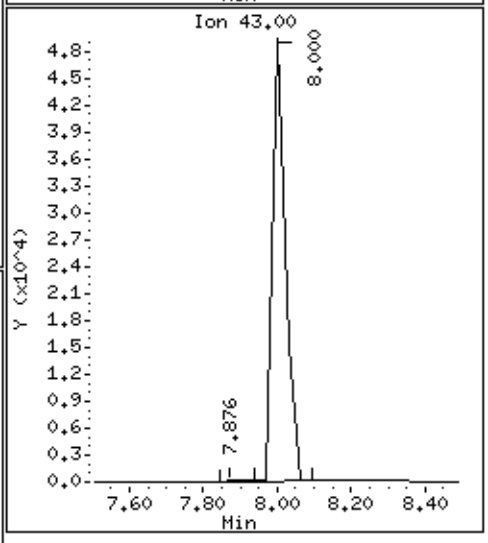
21 Heptane

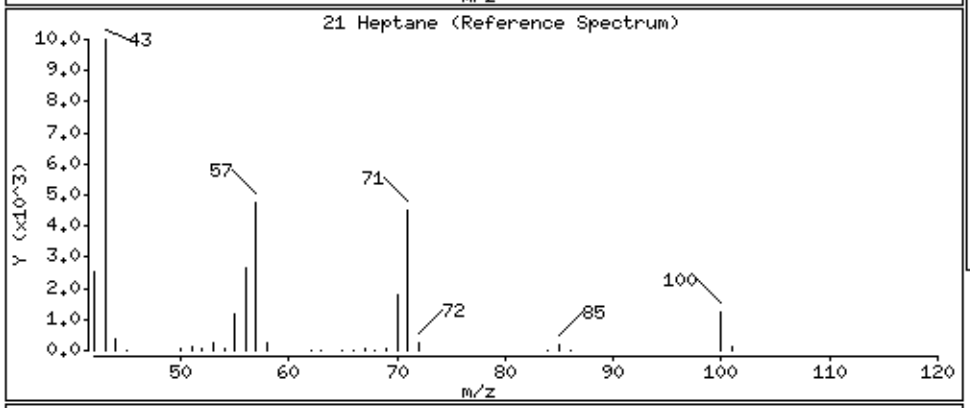
Concentration: 9.24257 ug

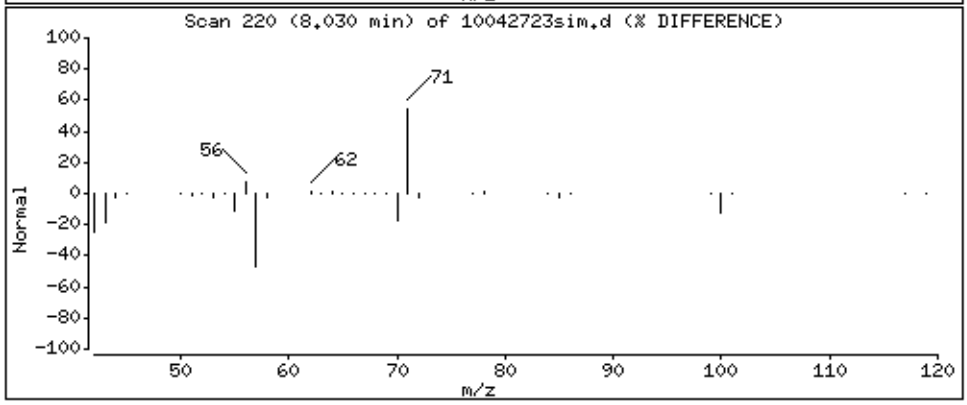












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

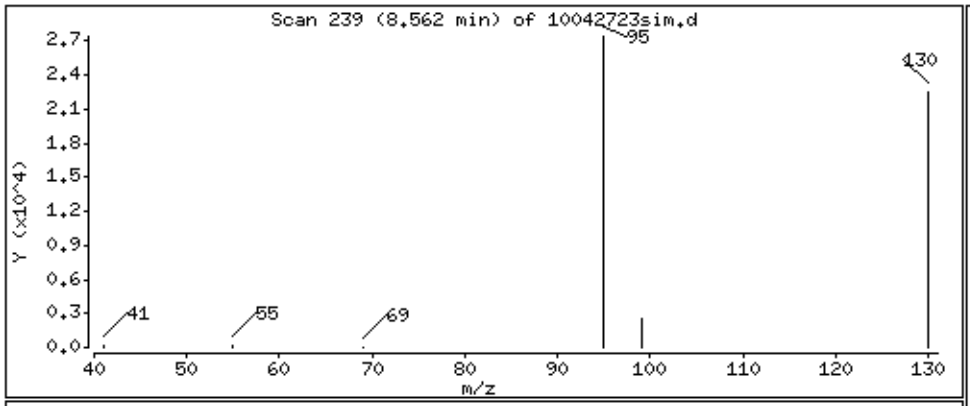
Operator: gm

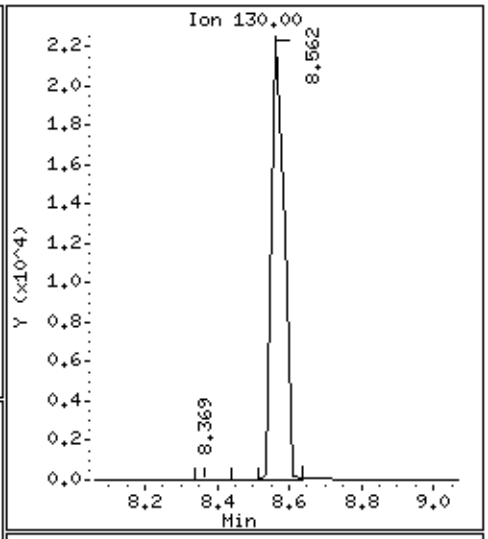
Column phase: DB-5.625

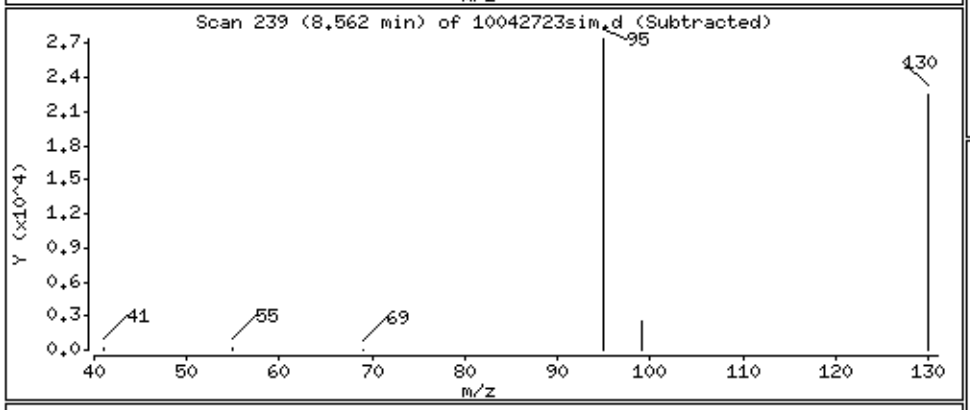
Column diameter: 0.25

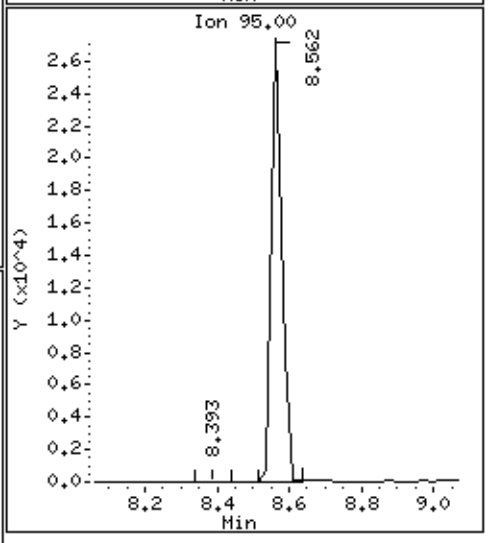
22 Trichloroethene

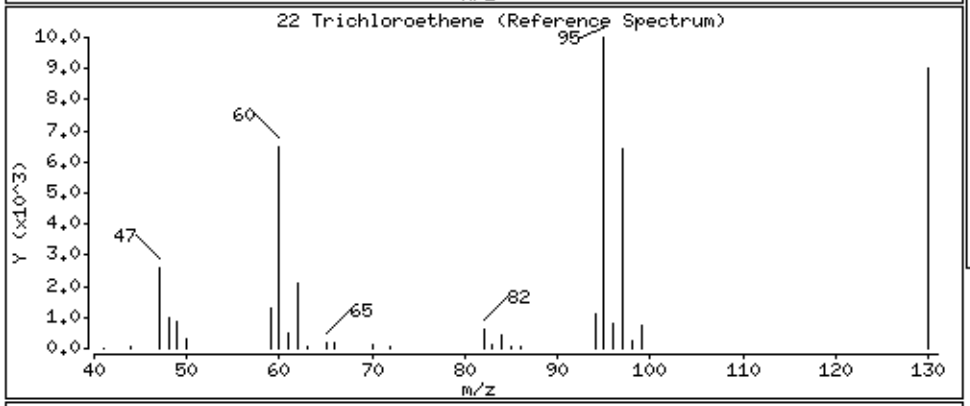
Concentration: 8.72051 ug

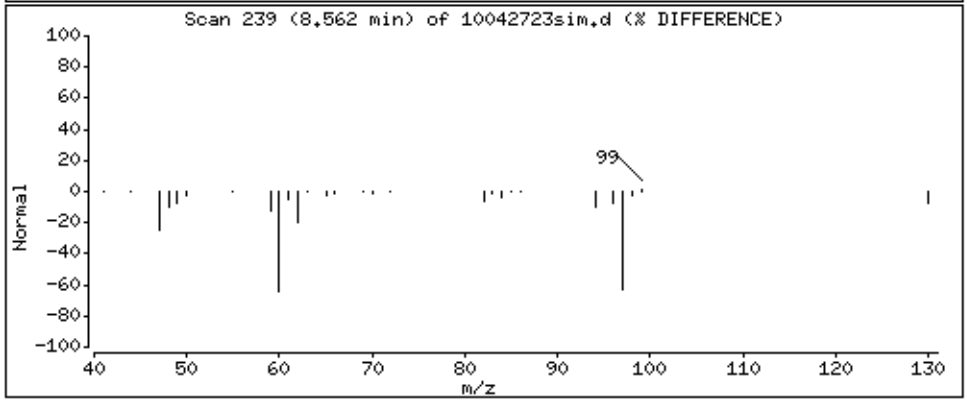












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

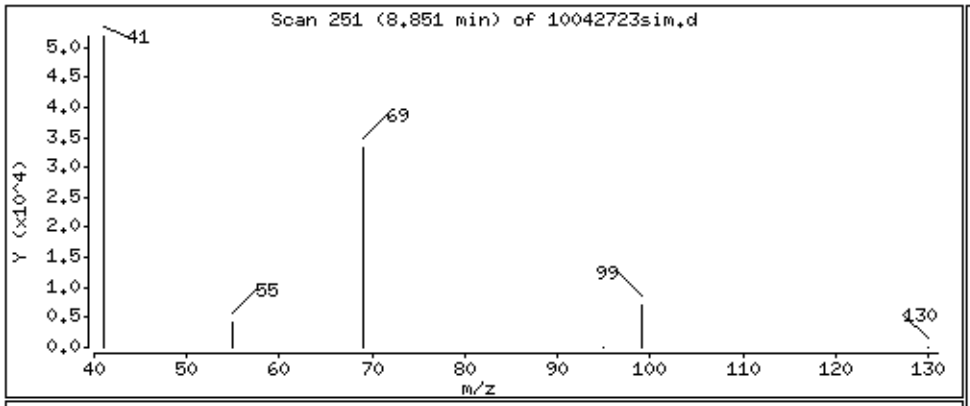
Operator: gm

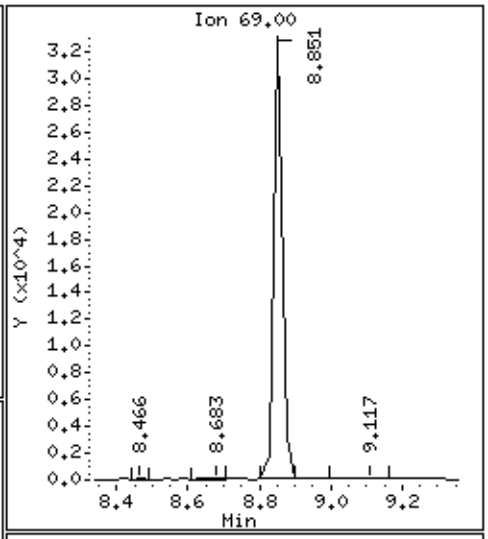
Column phase: DB-5.625

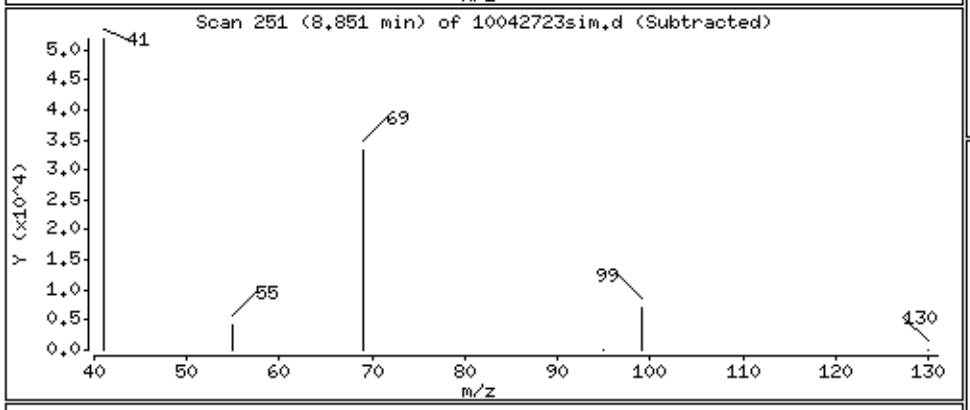
Column diameter: 0.25

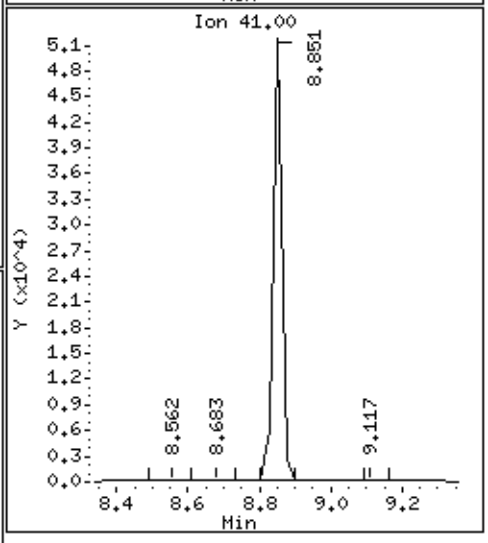
24 Methyl Methacrylate

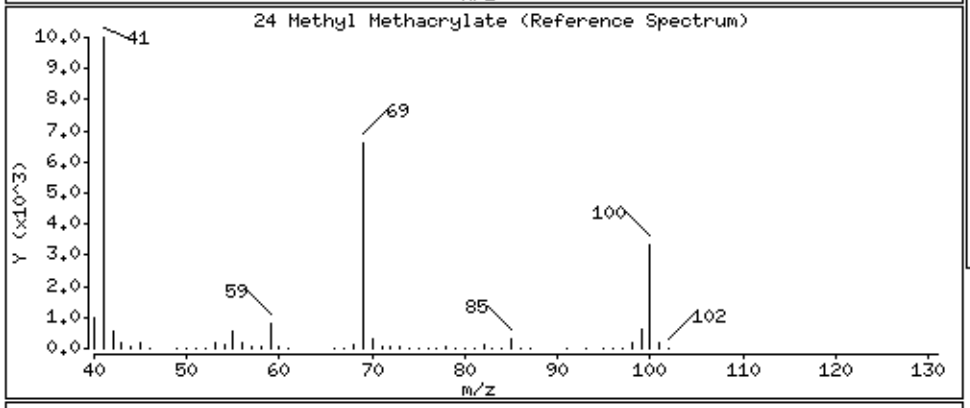
Concentration: 8.91822 ug

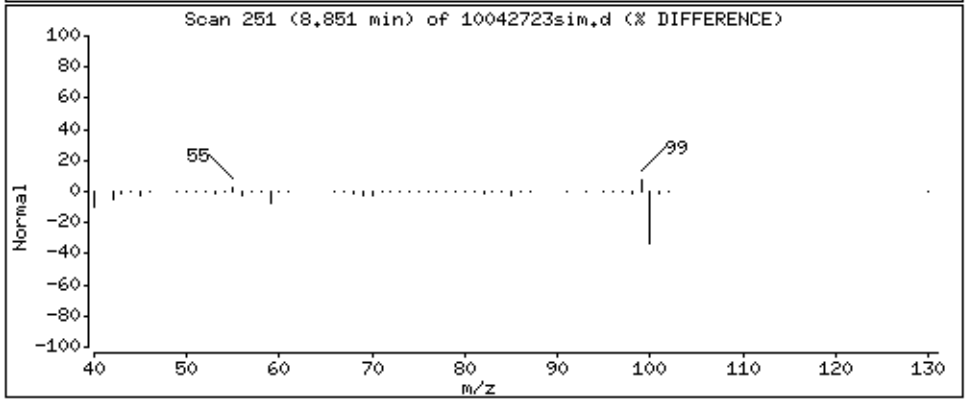












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

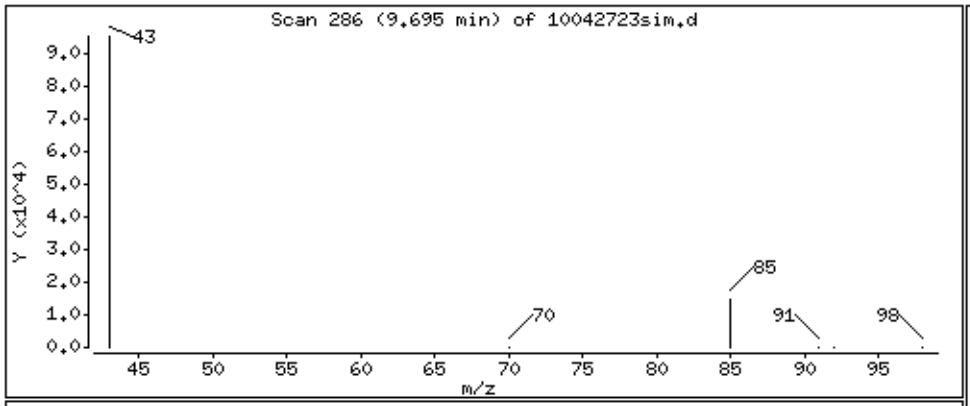
Operator: gm

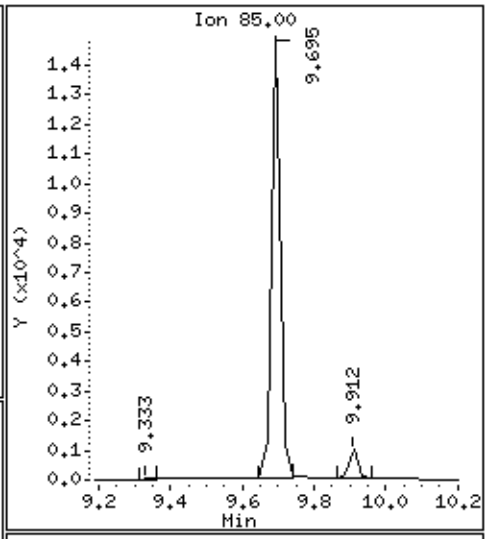
Column phase: DB-5.625

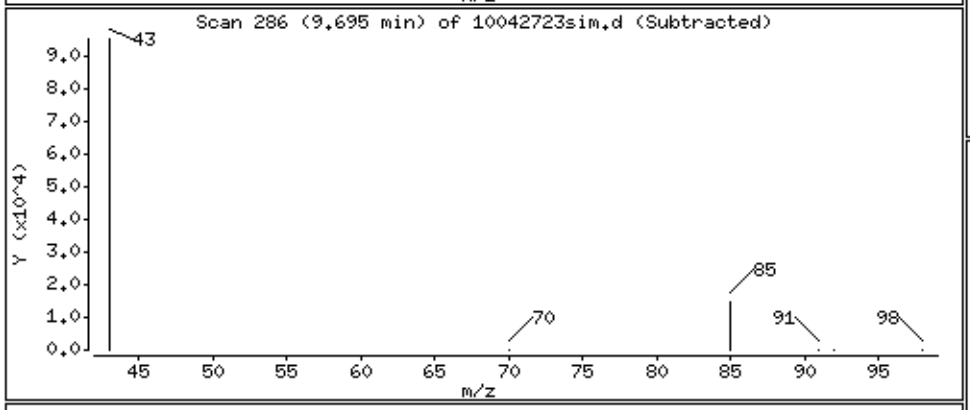
Column diameter: 0.25

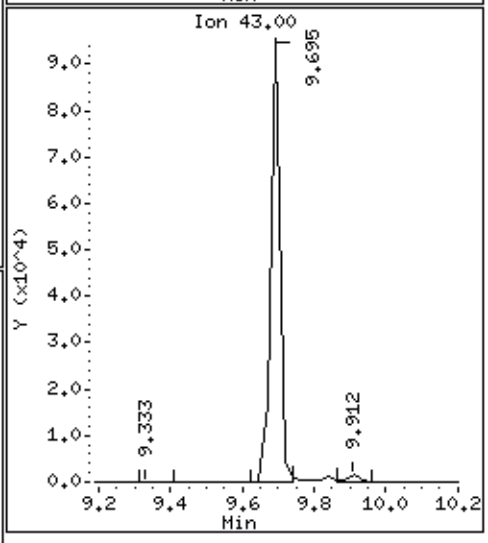
25 4-Methyl-2-pentanone

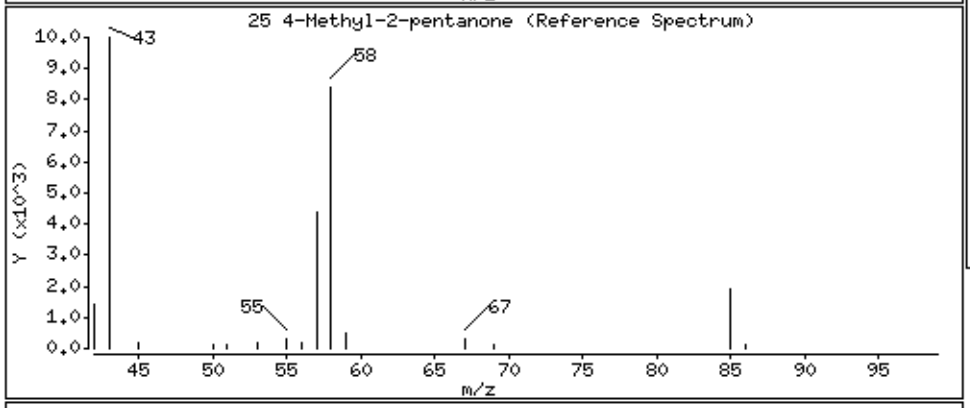
Concentration: 9.59902 ug

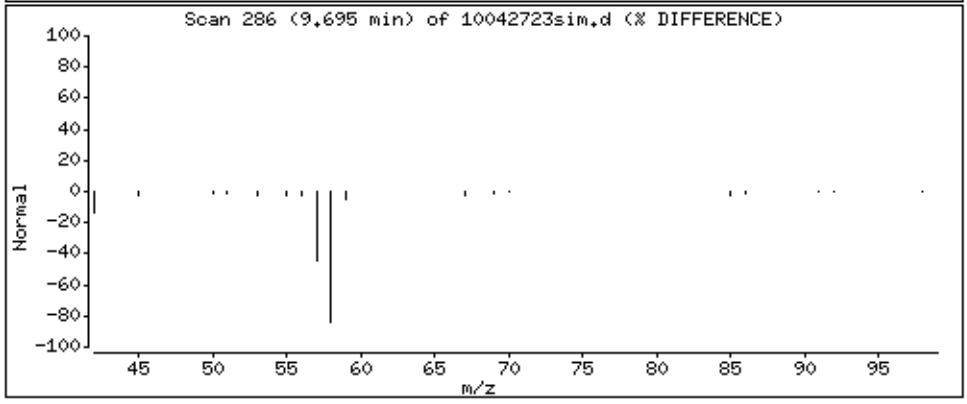












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

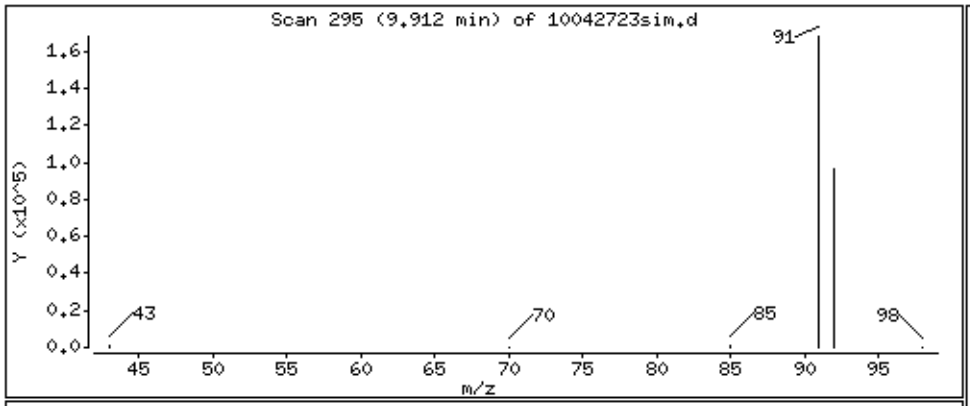
Operator: gm

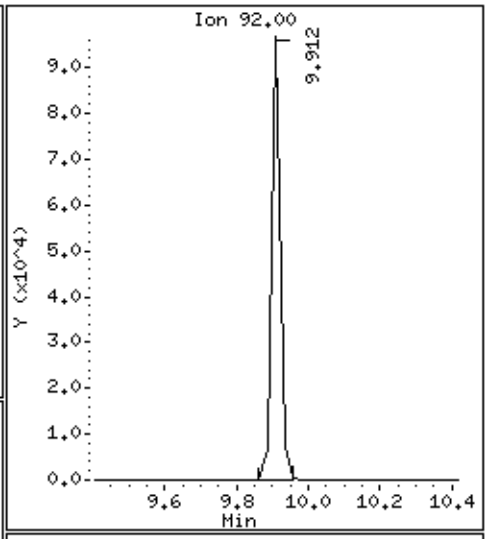
Column phase: DB-5.625

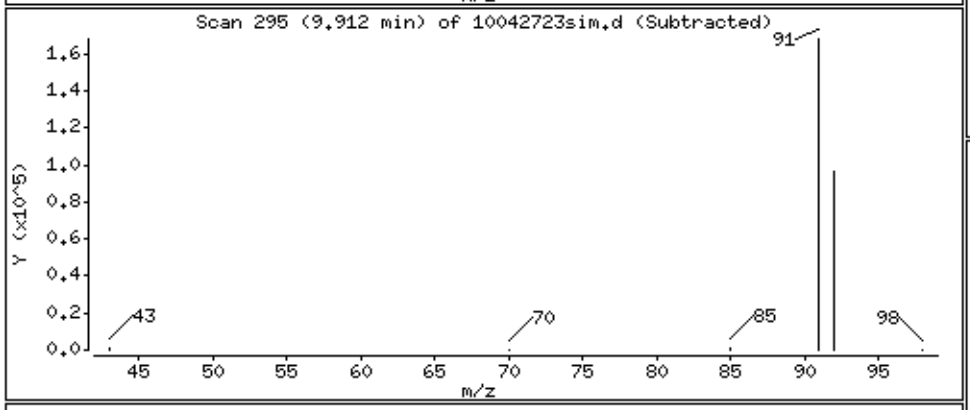
Column diameter: 0.25

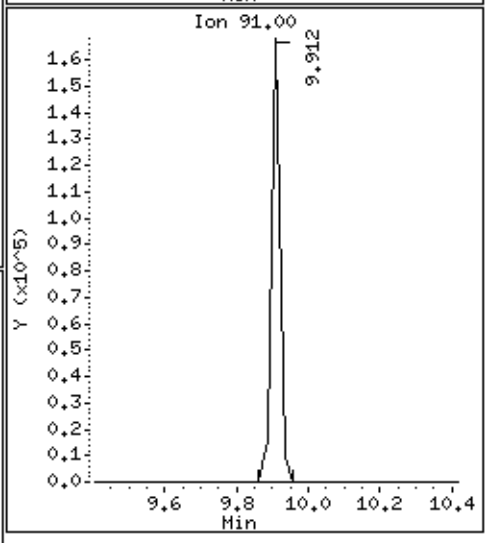
28 Toluene-CCC

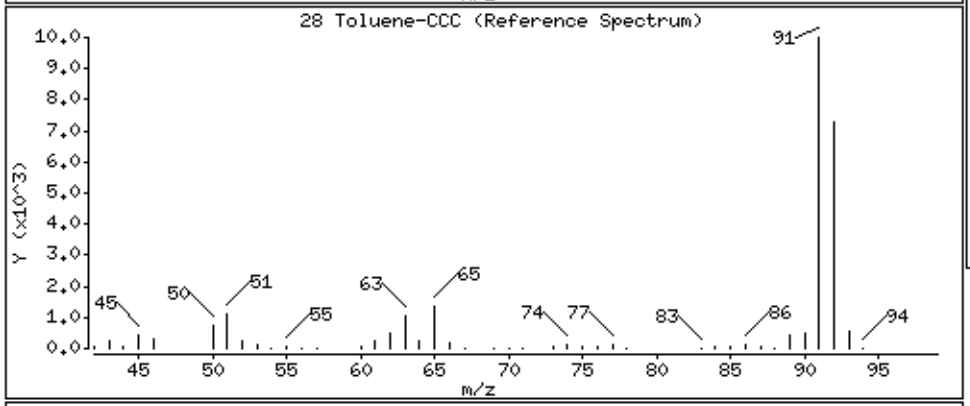
Concentration: 9.00283 ug

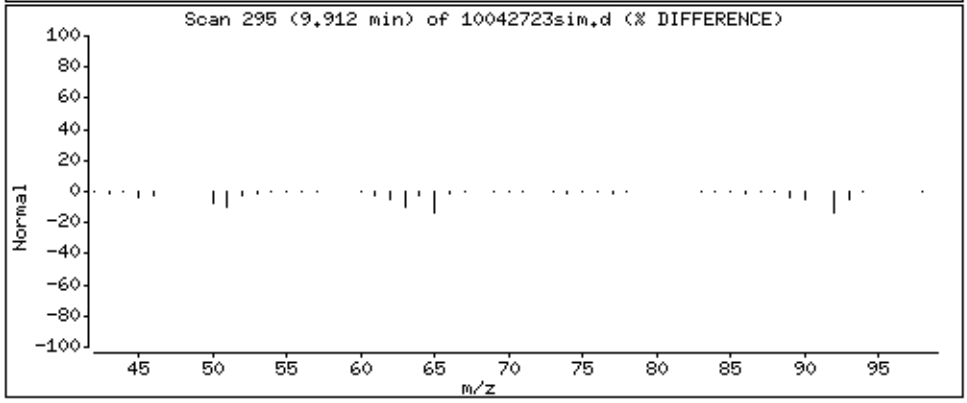












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

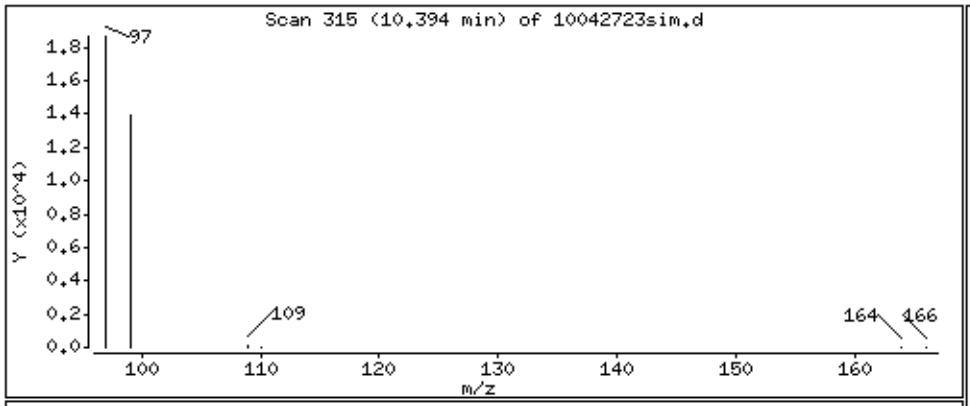
Operator: gm

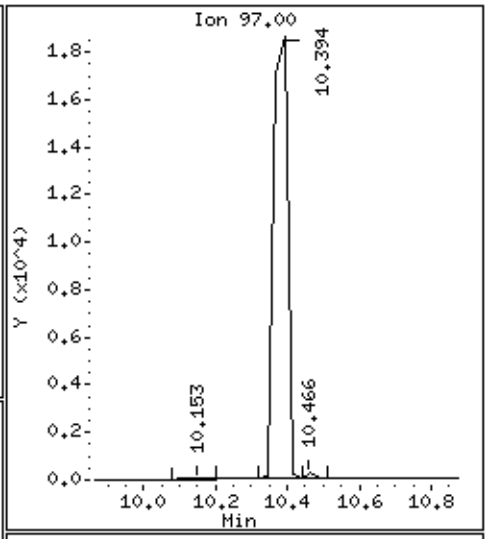
Column phase: DB-5.625

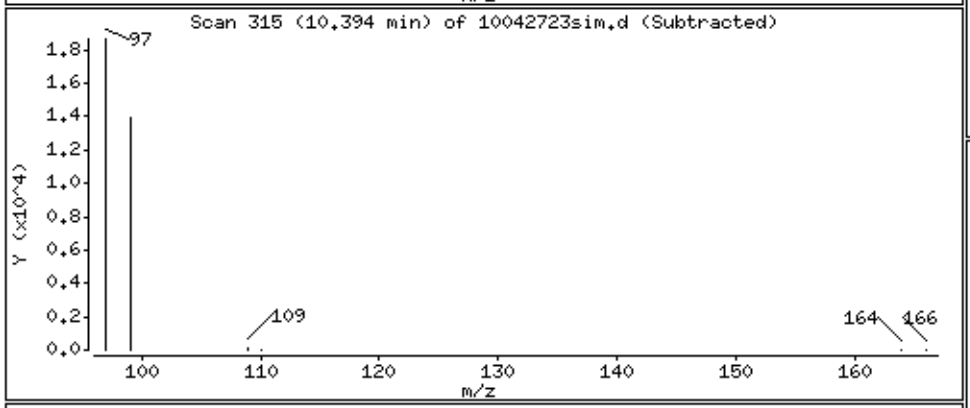
Column diameter: 0.25

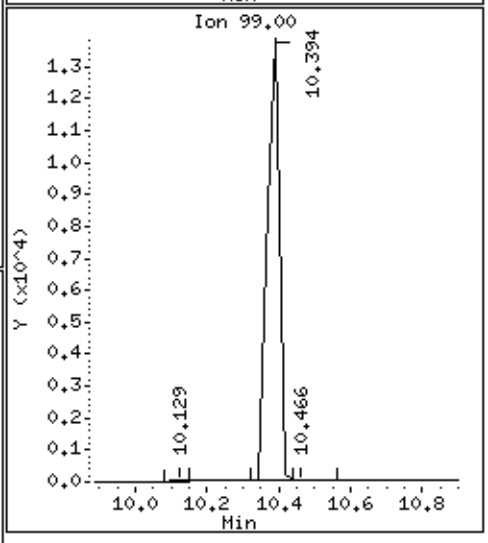
30 1,1,2-Trichloroethane

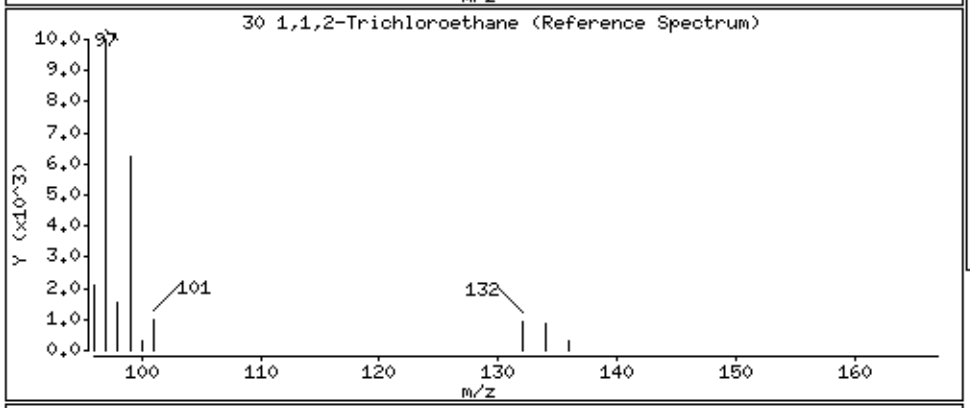
Concentration: 8.95563 ug

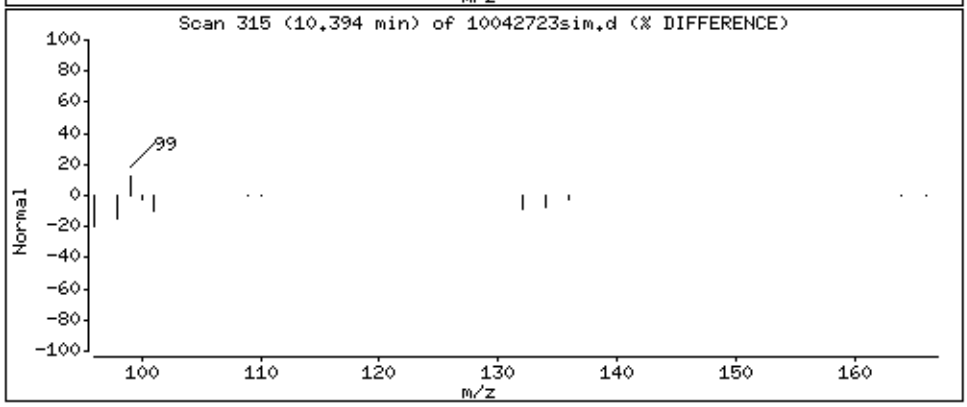












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

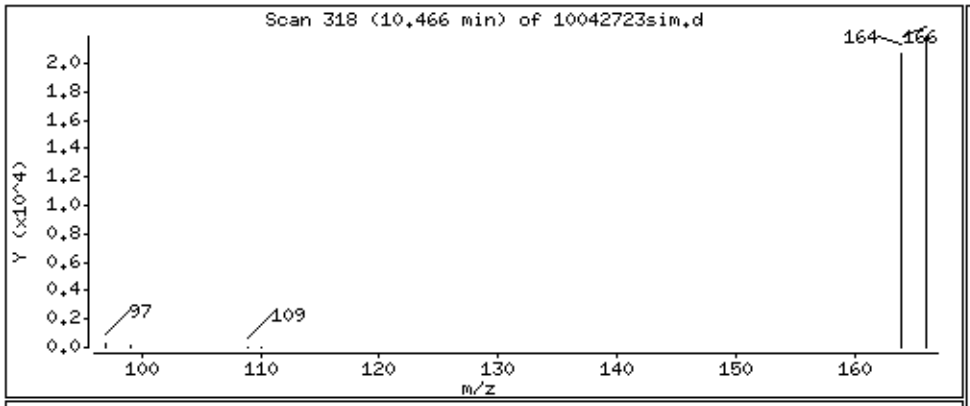
Operator: gm

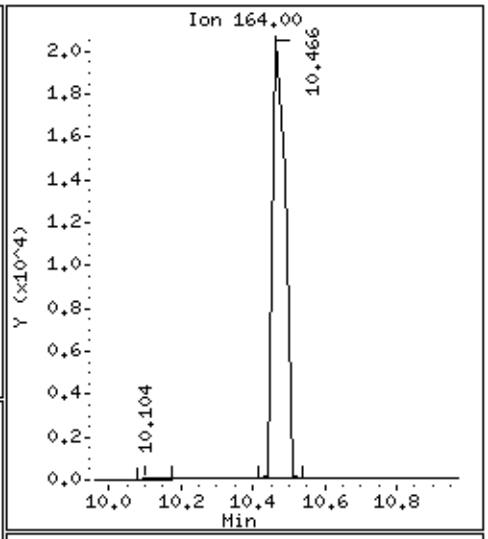
Column phase: DB-5.625

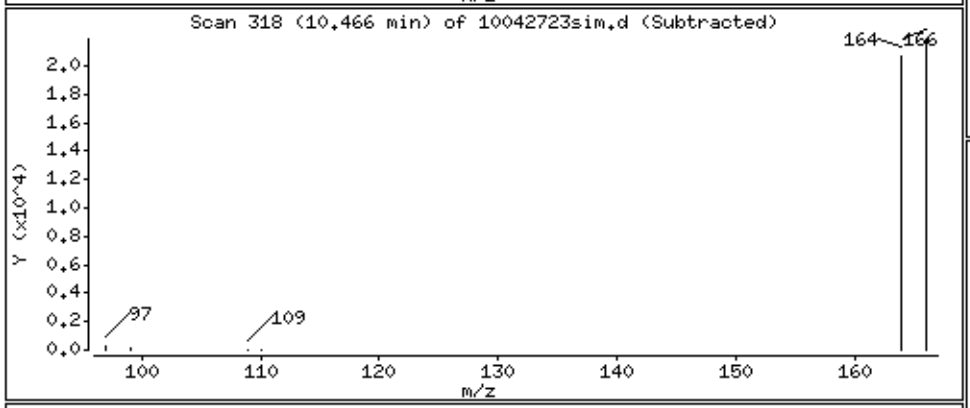
Column diameter: 0.25

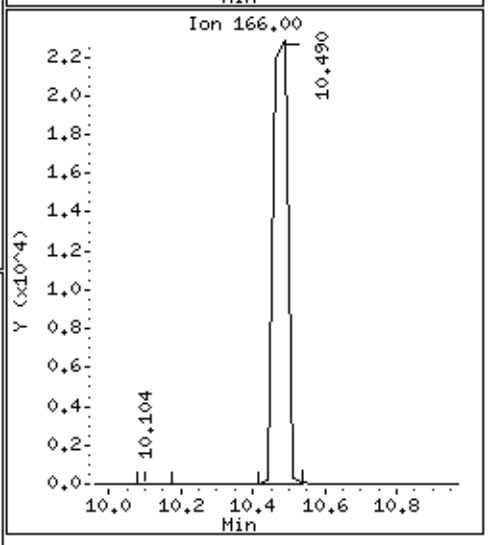
31 Tetrachloroethene

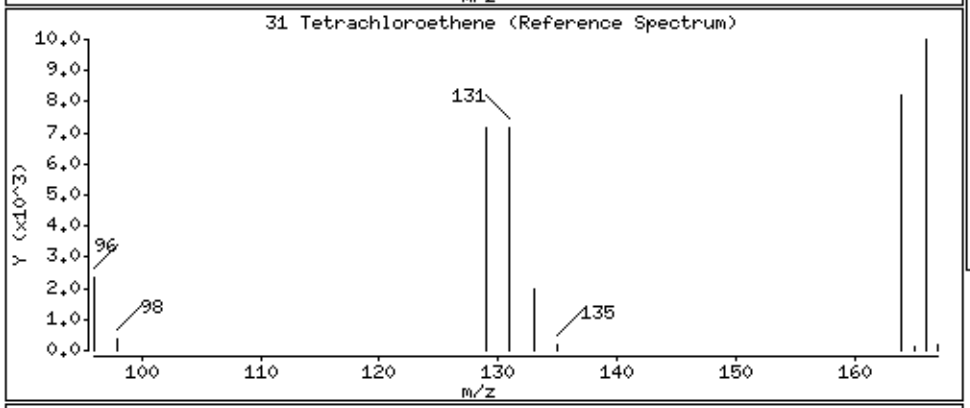
Concentration: 9.06381 ug

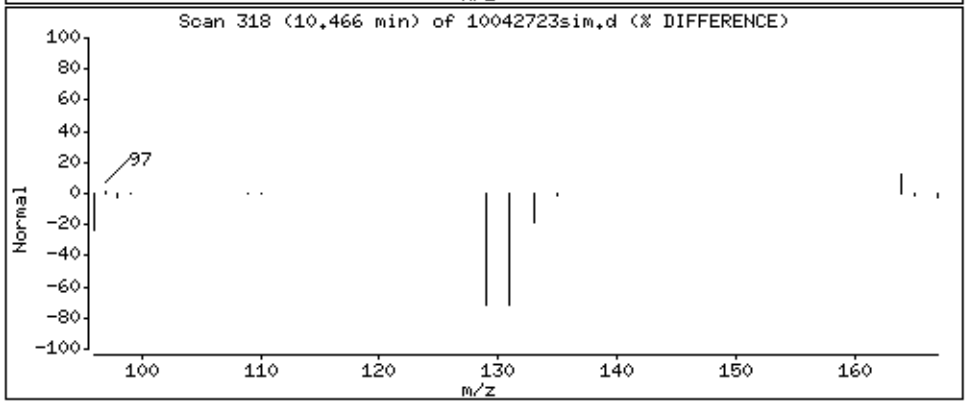












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

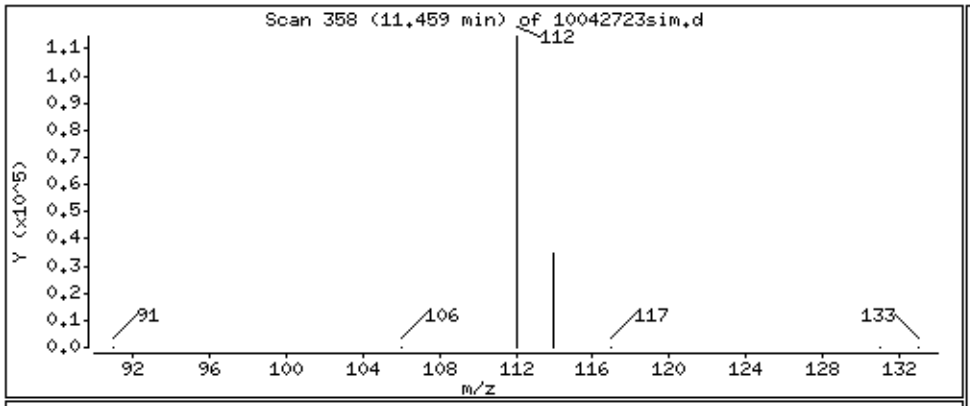
Operator: gm

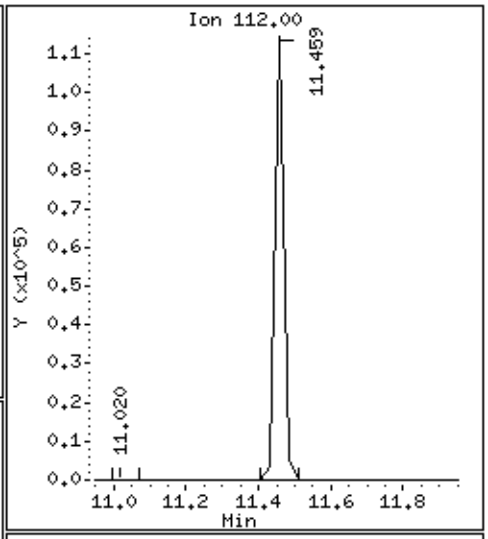
Column phase: DB-5.625

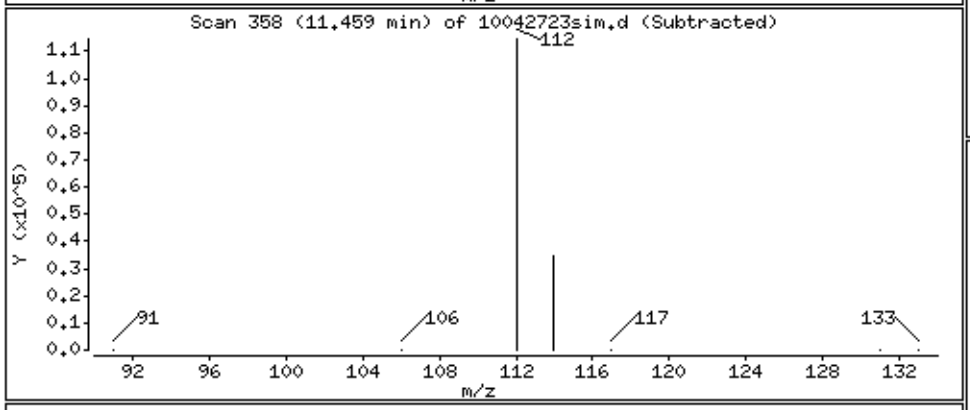
Column diameter: 0.25

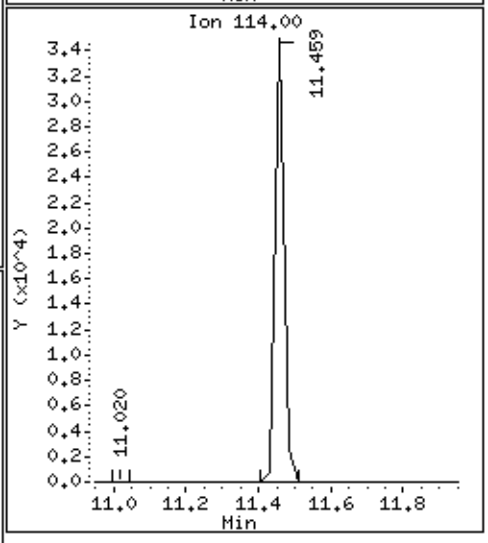
32 Chlorobenzene

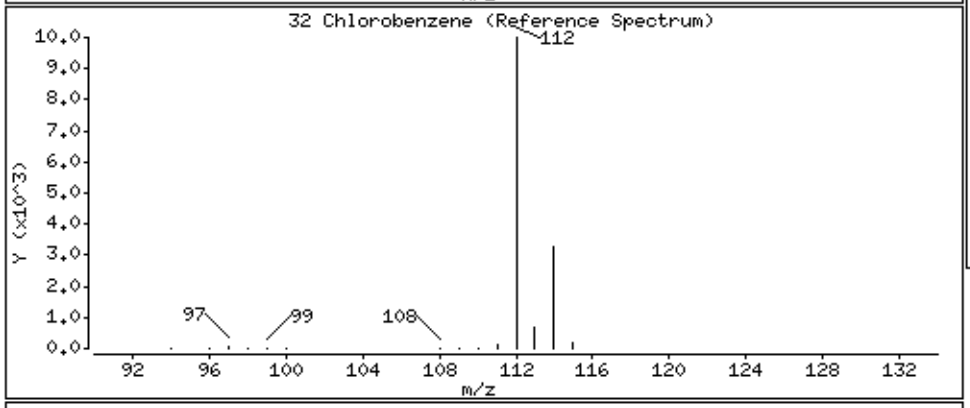
Concentration: 8.51866 ug

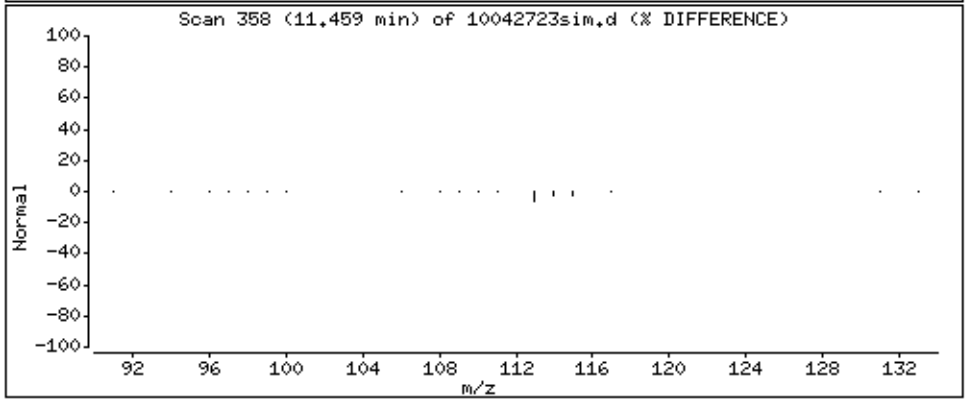












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

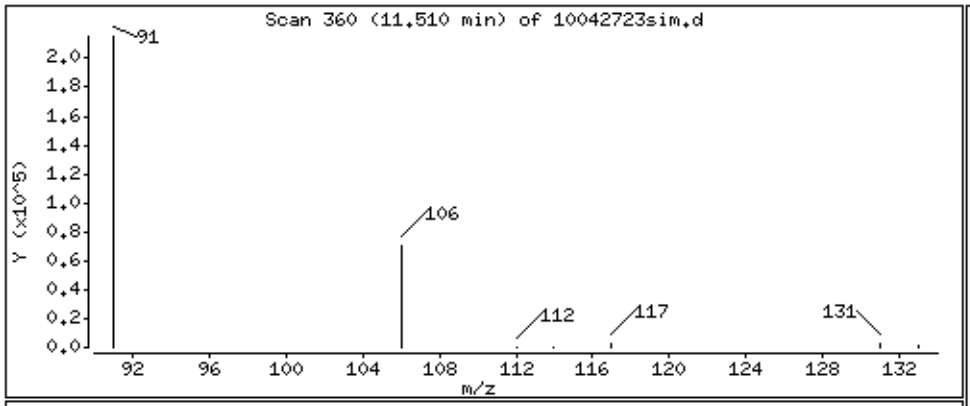
Operator: gm

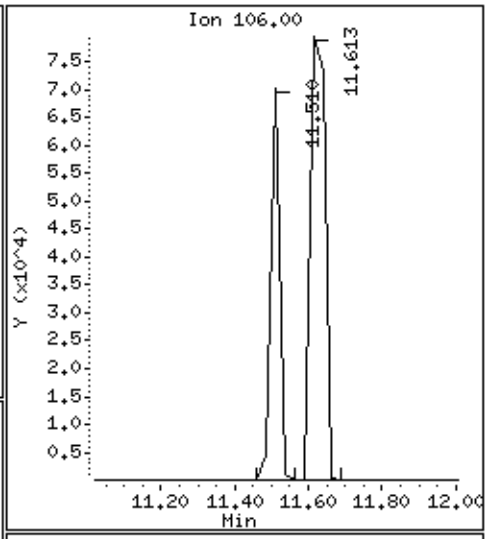
Column phase: DB-5.625

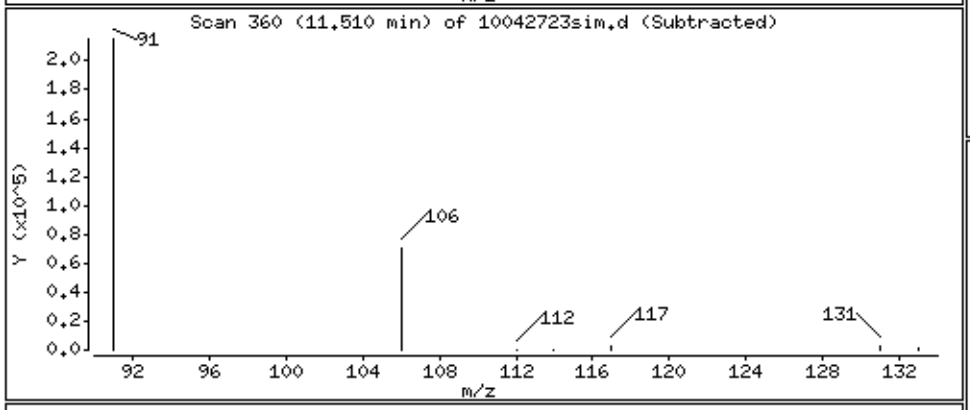
Column diameter: 0.25

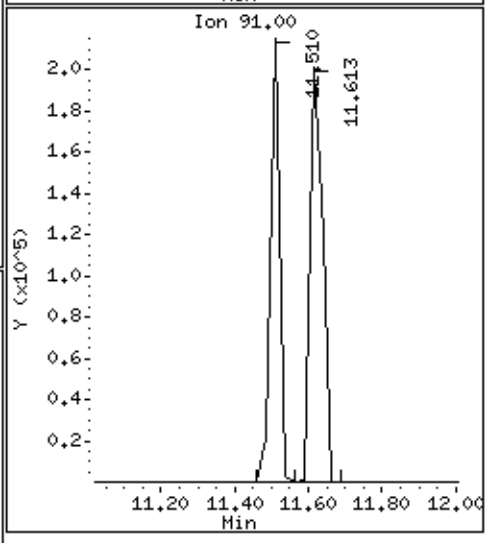
33 Ethylbenzene-CCC

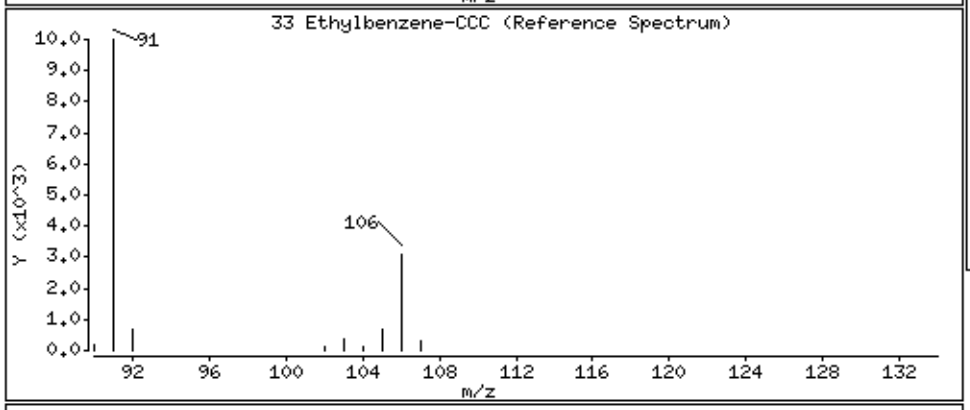
Concentration: 9.61240 ug

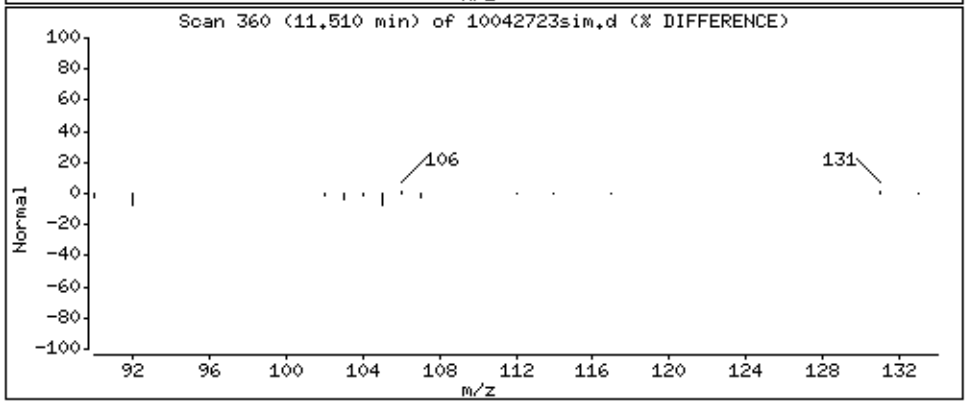












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

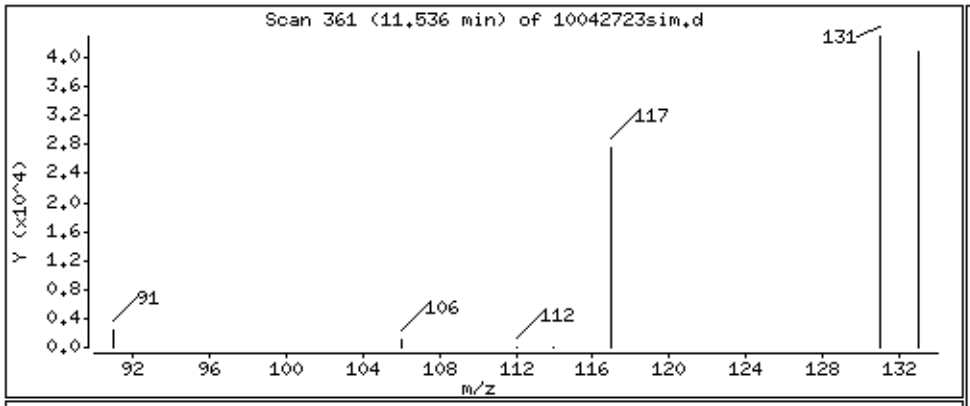
Operator: gm

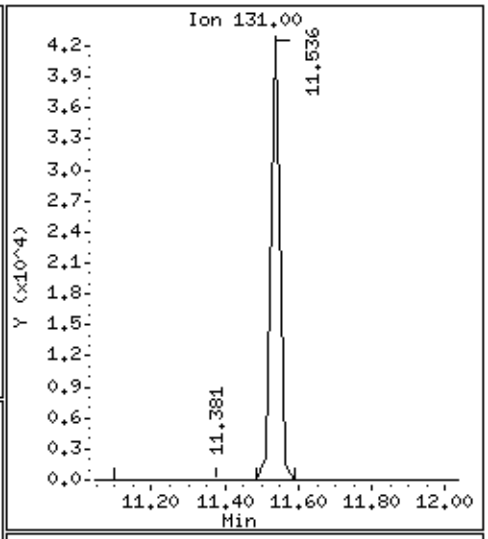
Column phase: DB-5.625

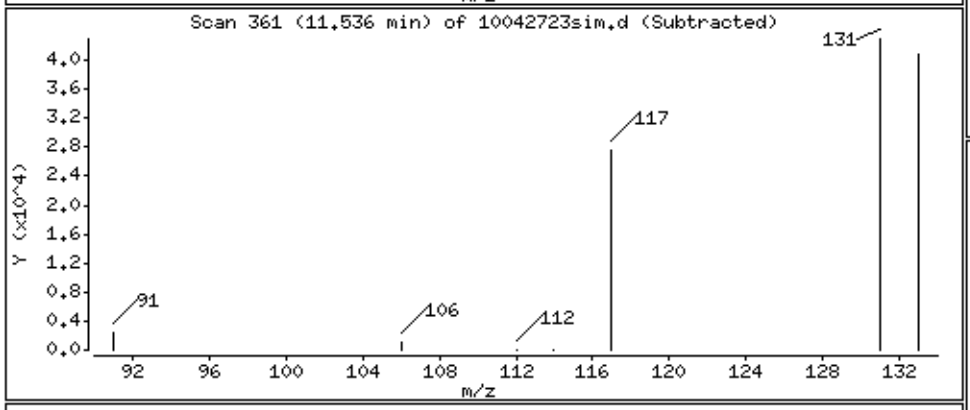
Column diameter: 0.25

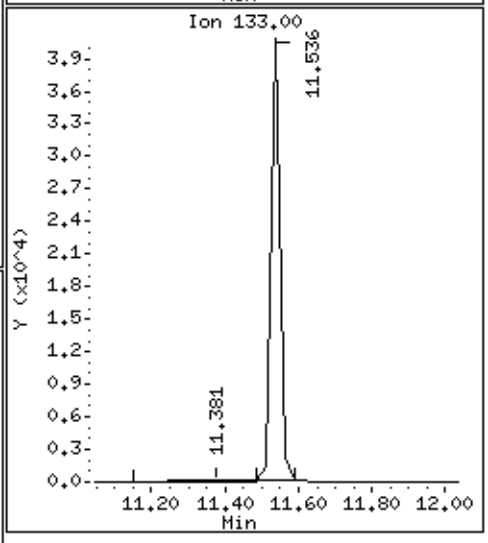
209 1,1,1,2-Tetrachloroethane

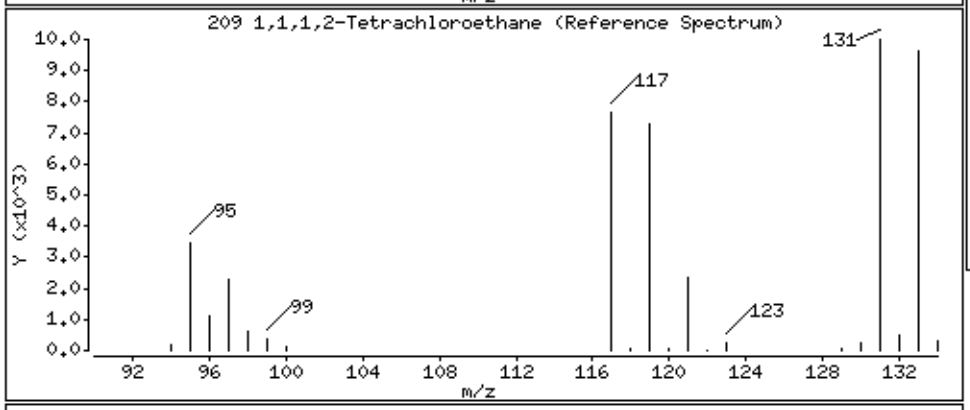
Concentration: 9.41563 ug

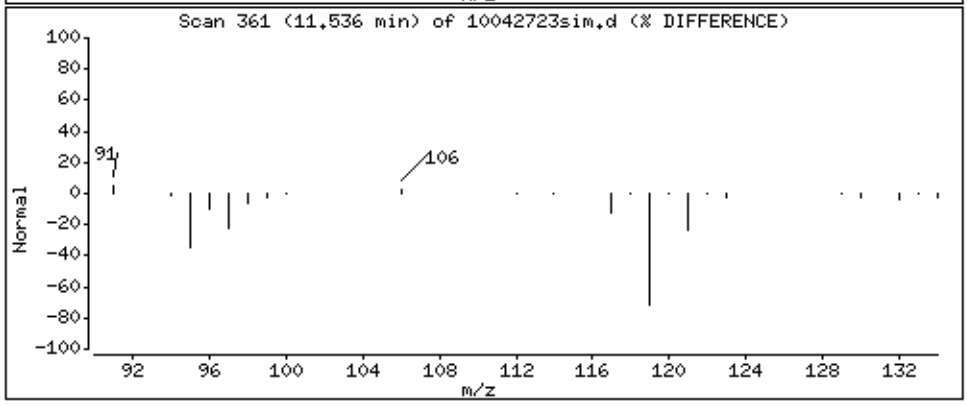












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

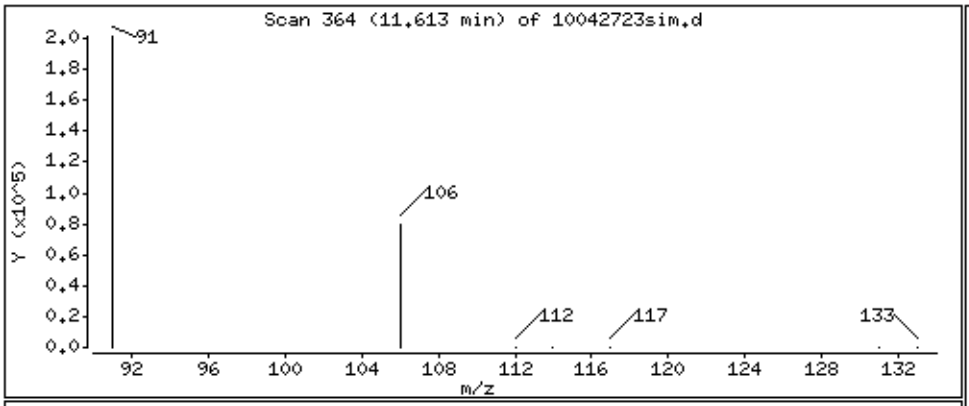
Operator: gm

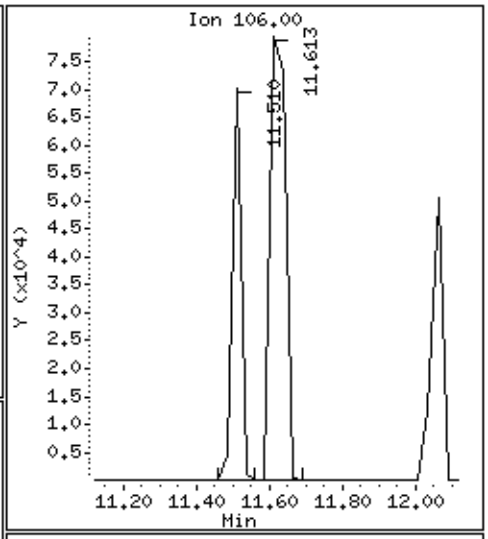
Column phase: DB-5.625

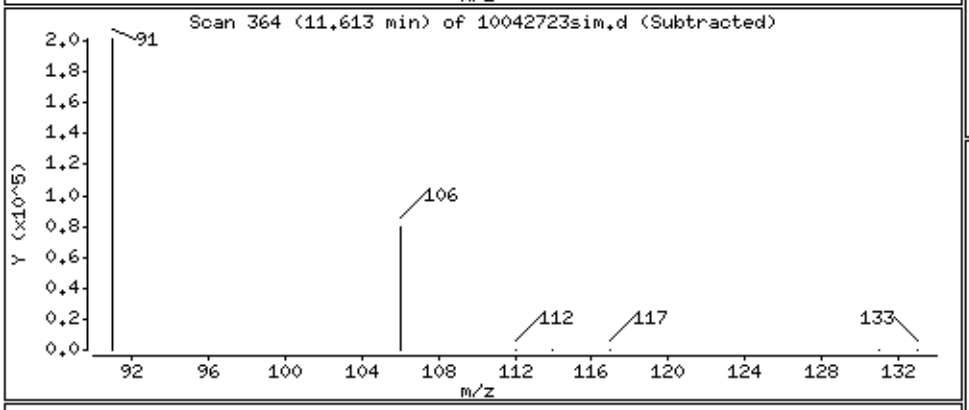
Column diameter: 0.25

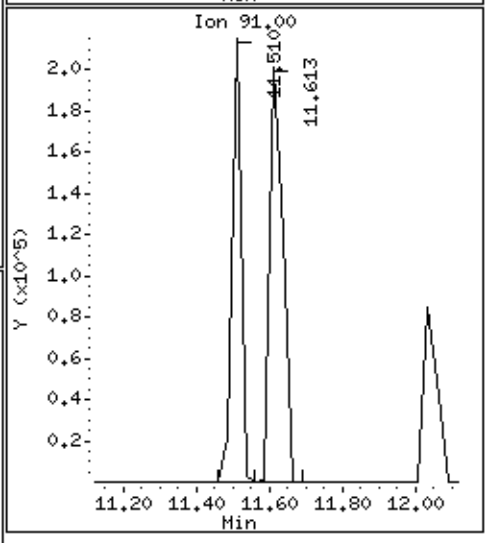
34 m,p-Xylene

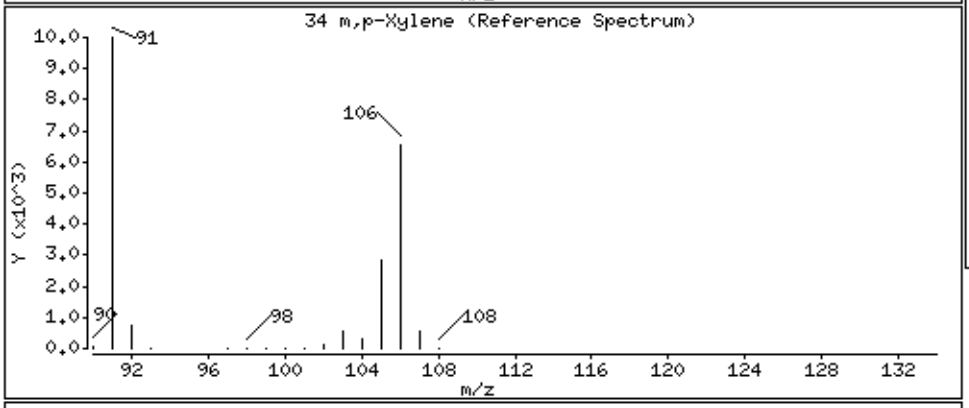
Concentration: 18.5055 ug

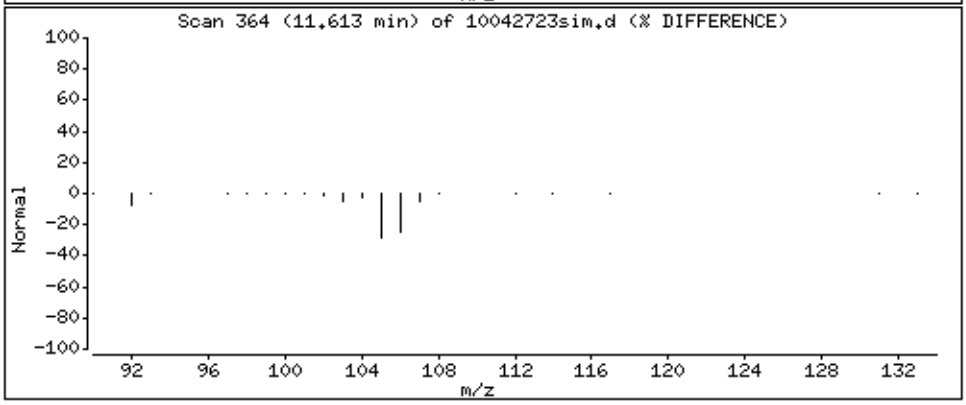












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

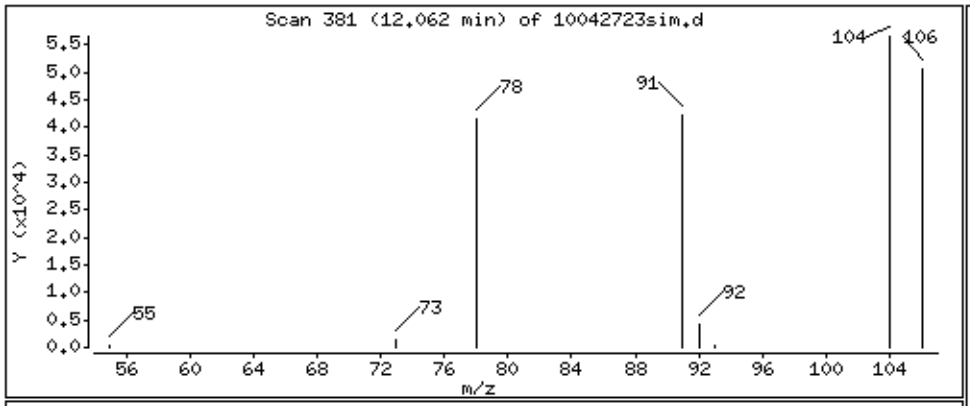
Operator: gm

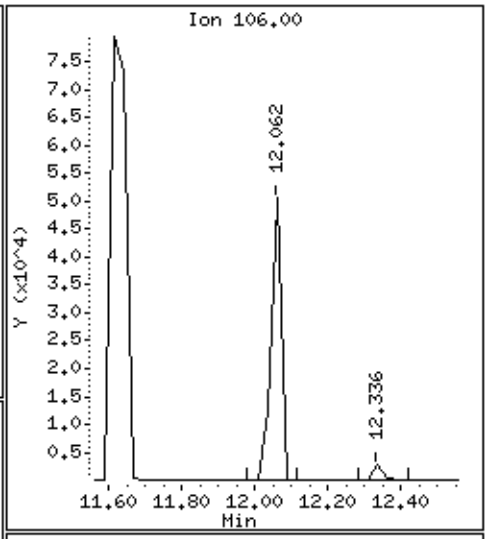
Column phase: DB-5.625

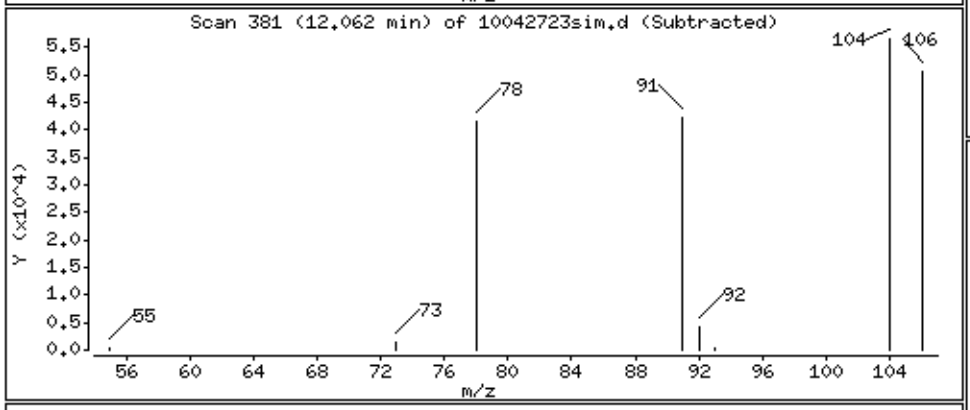
Column diameter: 0.25

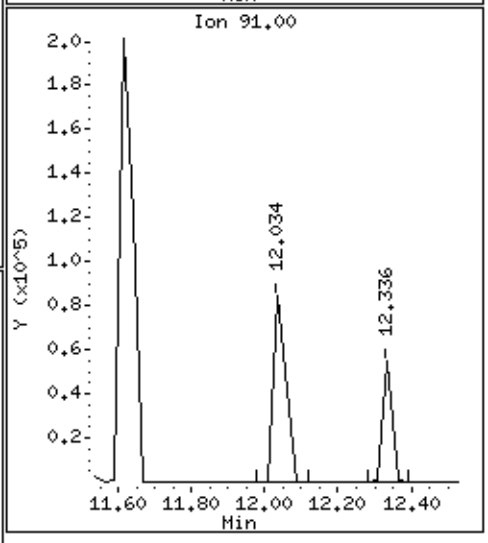
36 o-Xylene

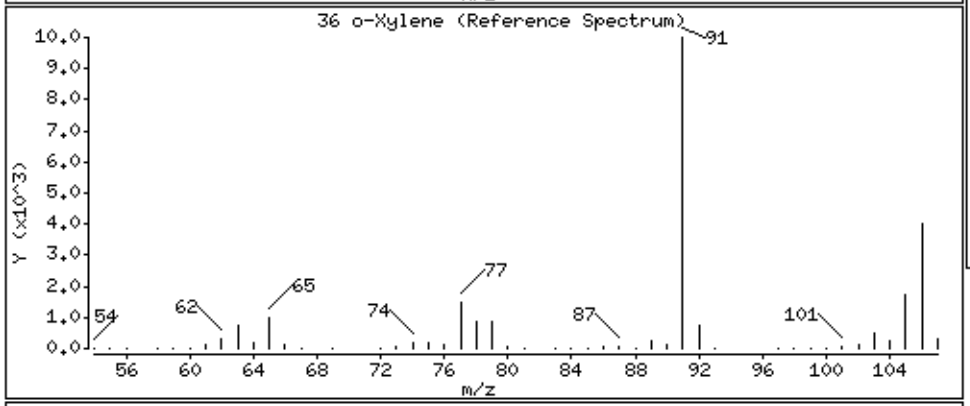
Concentration: 8.30166 ug

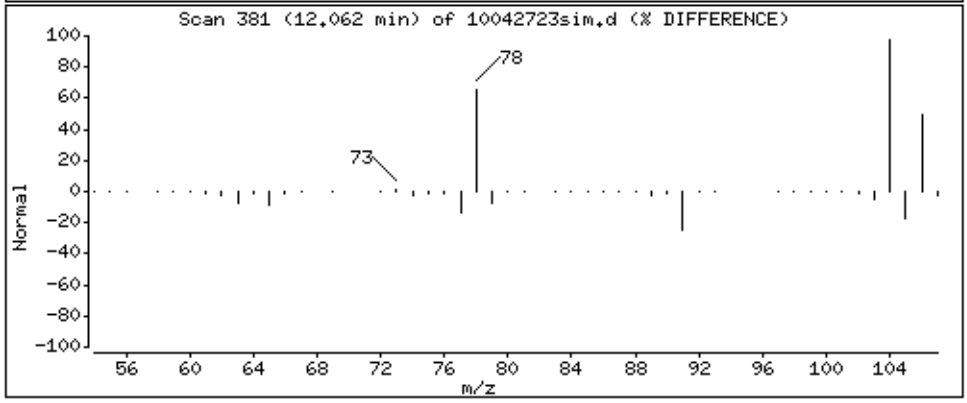












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

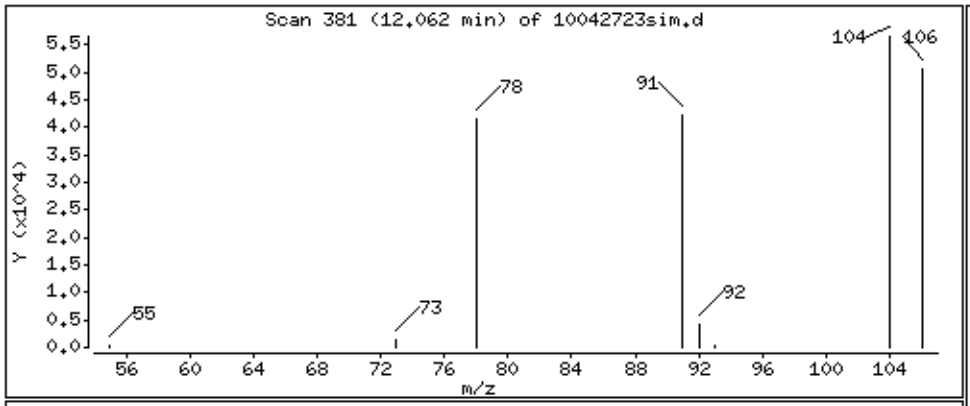
Operator: gm

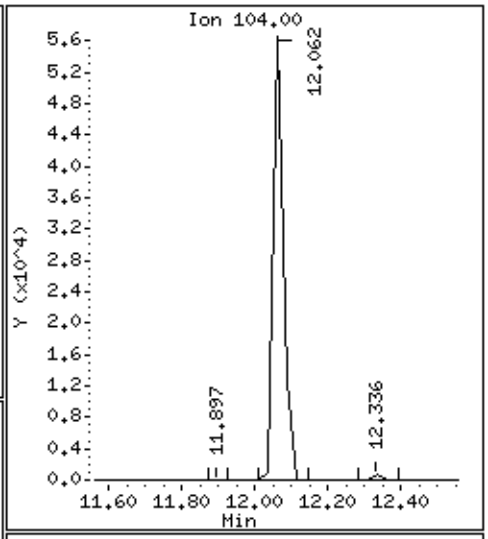
Column phase: DB-5.625

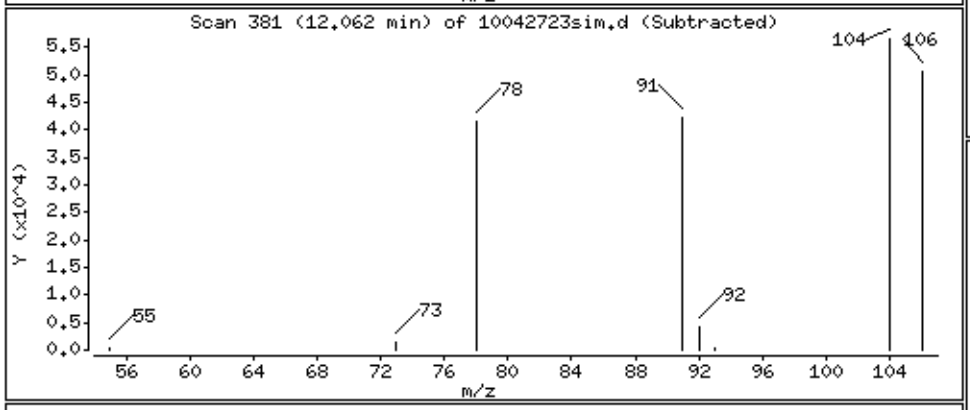
Column diameter: 0.25

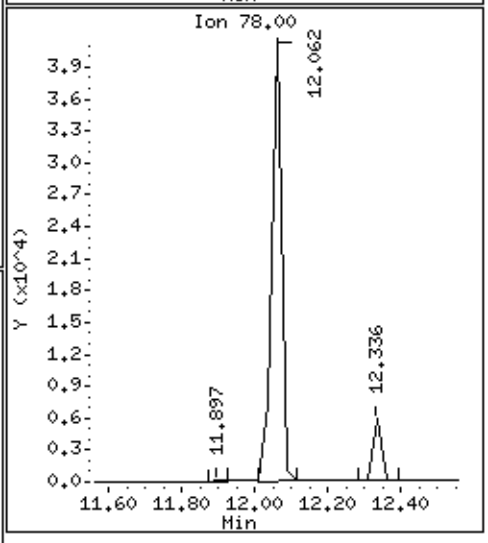
37 Styrene

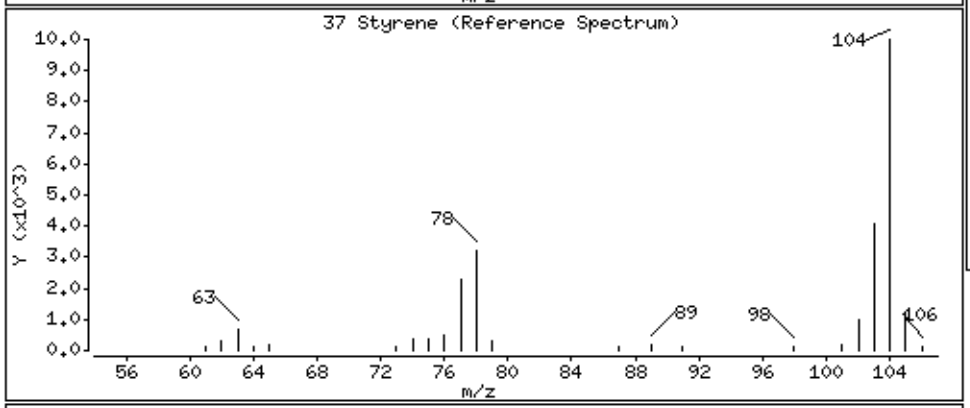
Concentration: 5.53654 ug

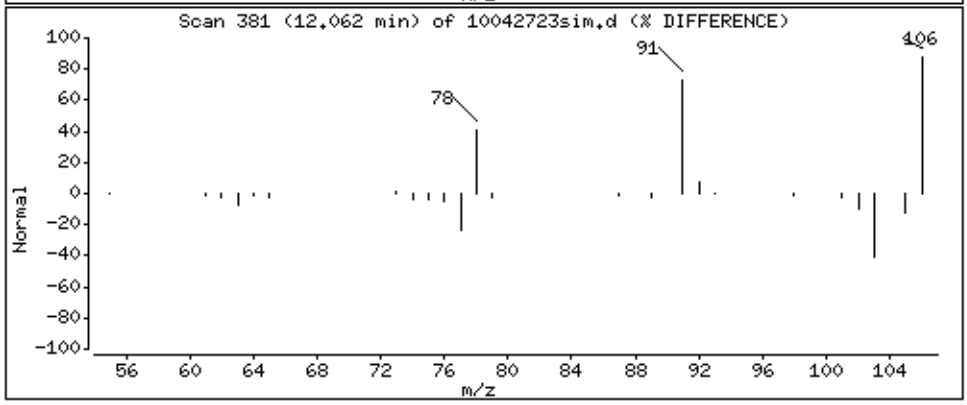












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

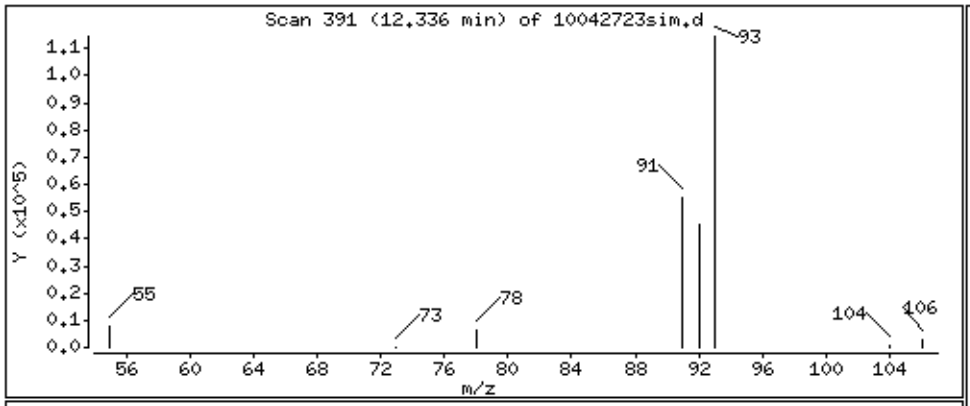
Operator: gm

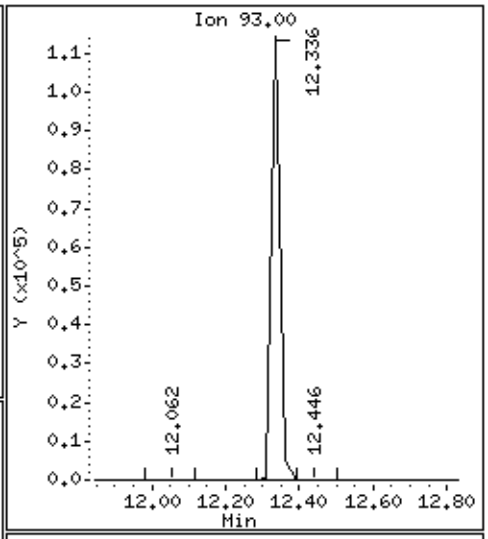
Column phase: DB-5.625

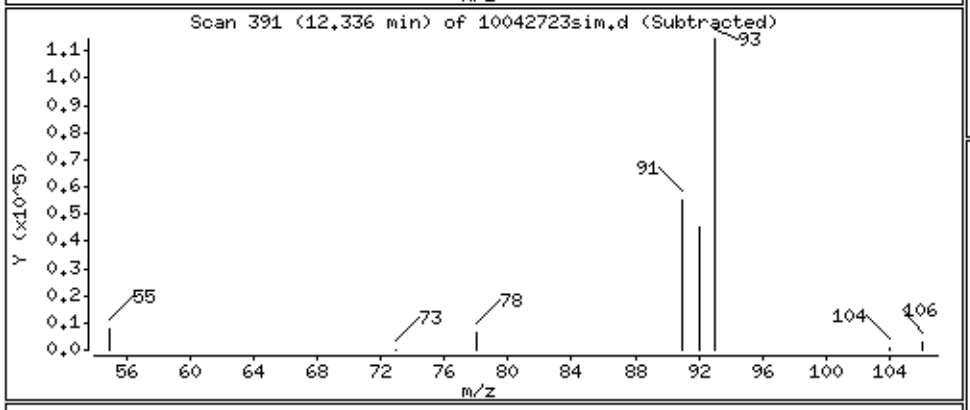
Column diameter: 0.25

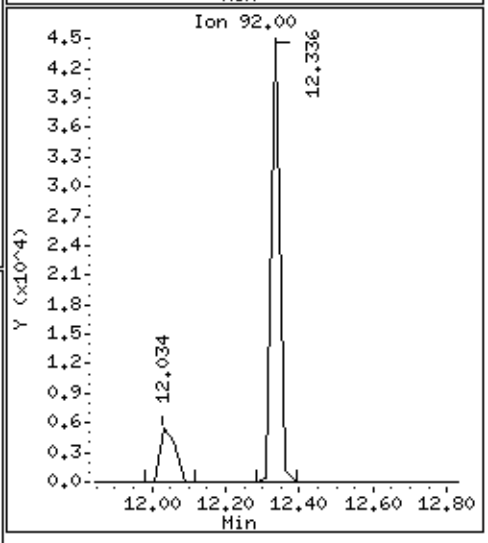
38 a-Pinene

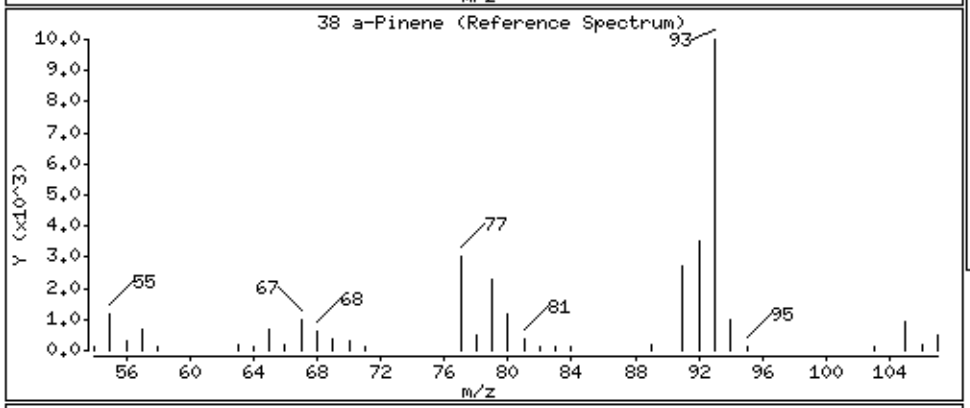
Concentration: 11.4504 ug

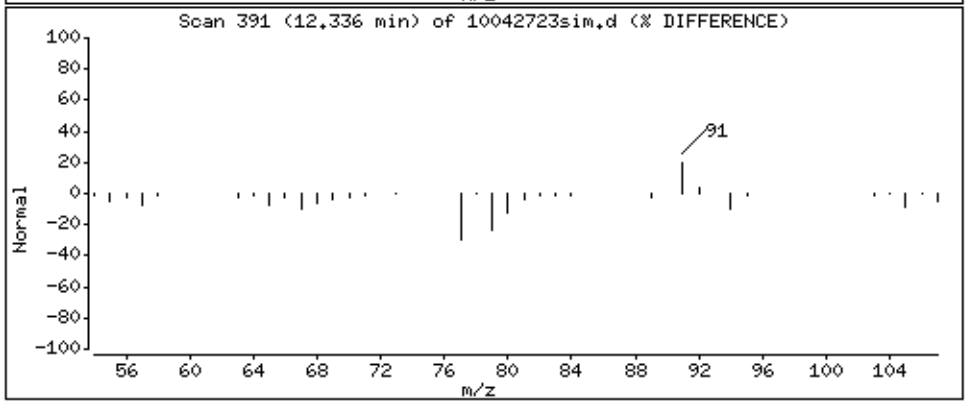












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

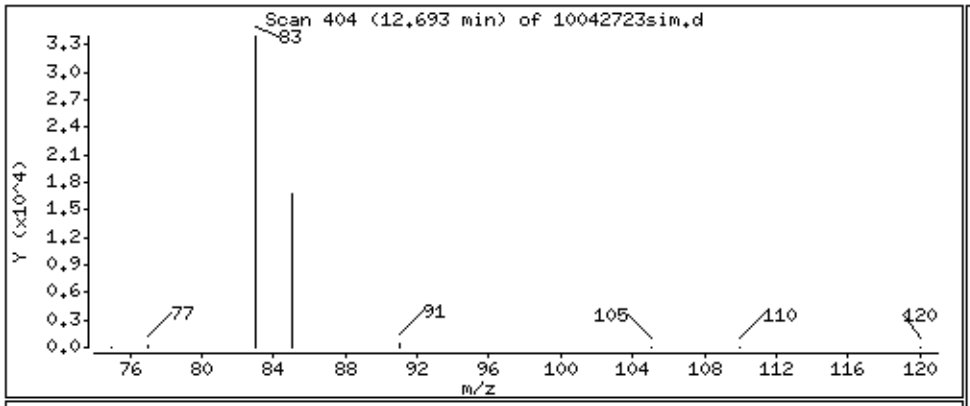
Operator: gm

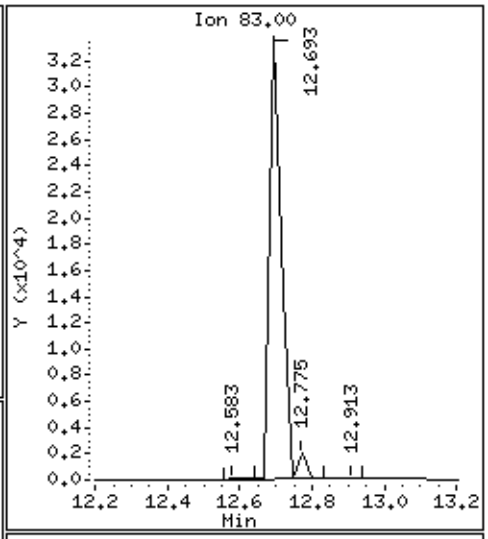
Column phase: DB-5.625

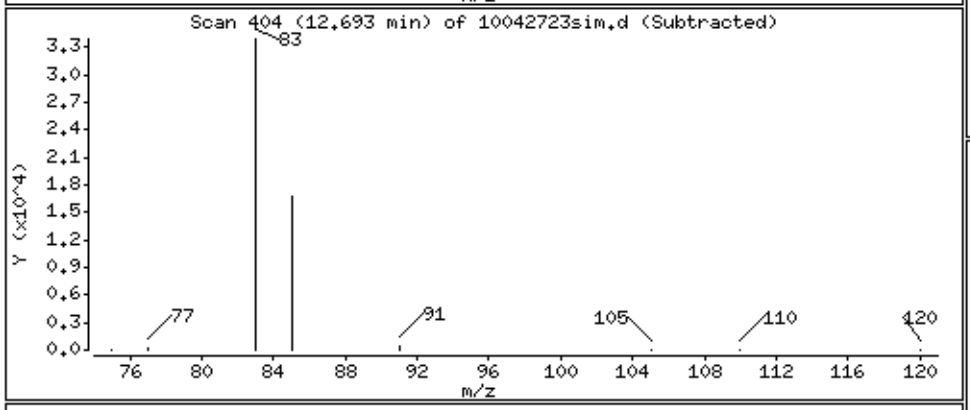
Column diameter: 0.25

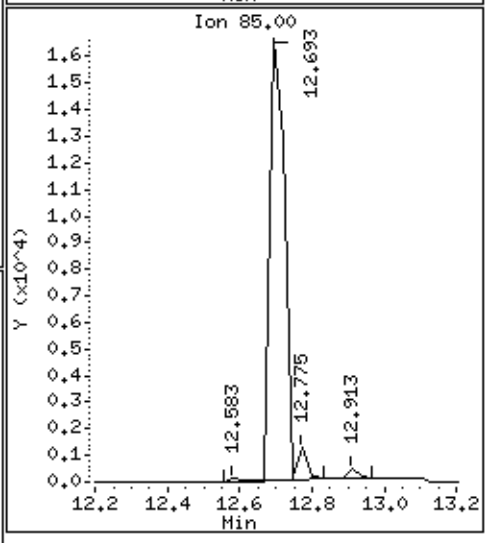
39 1,1,2,2-Tetrachloroethane-SPC

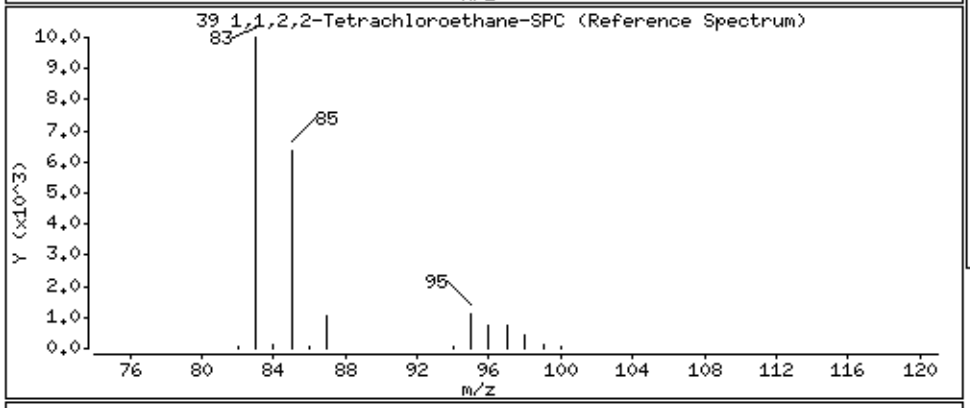
Concentration: 8.63541 ug

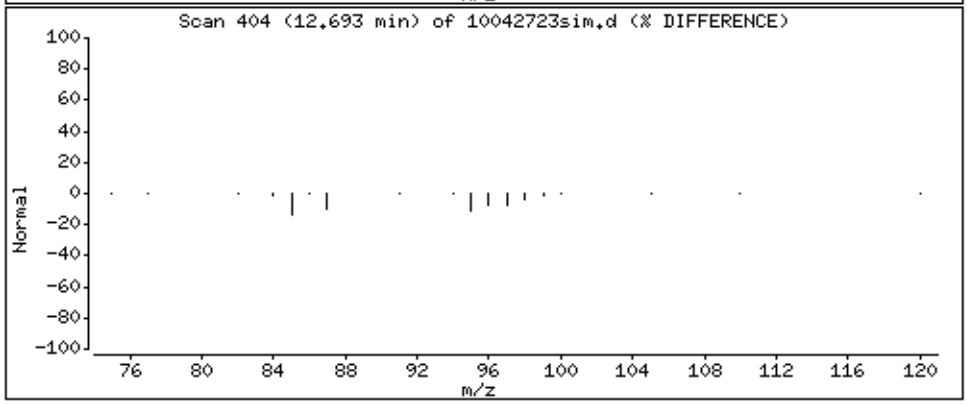












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

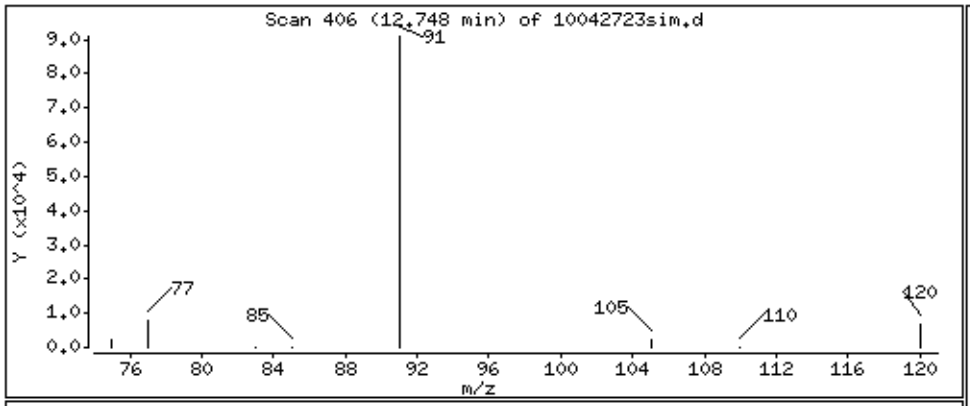
Operator: gm

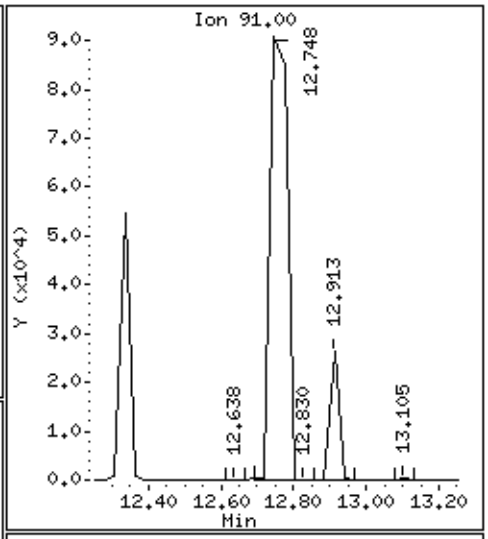
Column phase: DB-5.625

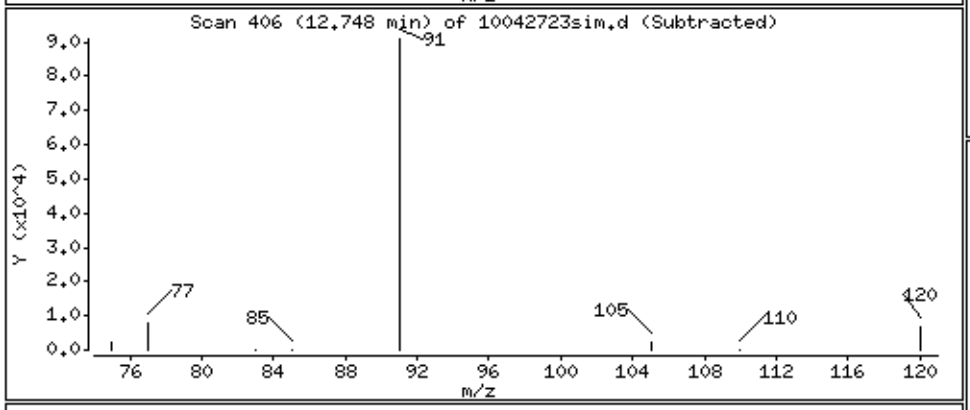
Column diameter: 0.25

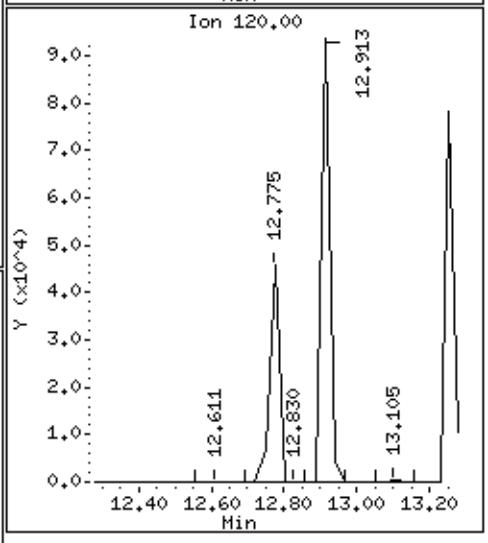
40 Propylbenzene

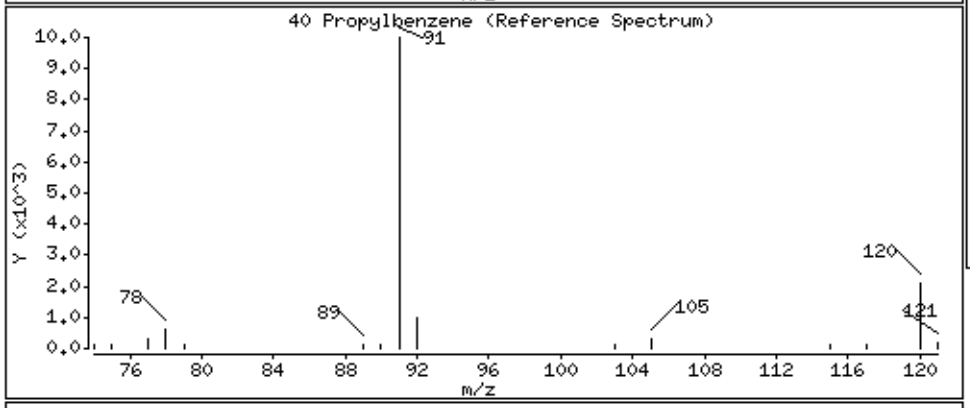
Concentration: 8.84404 ug

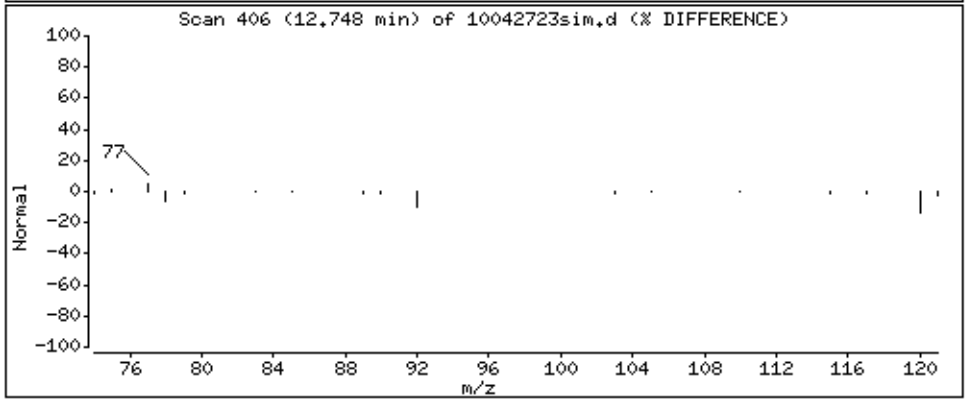












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

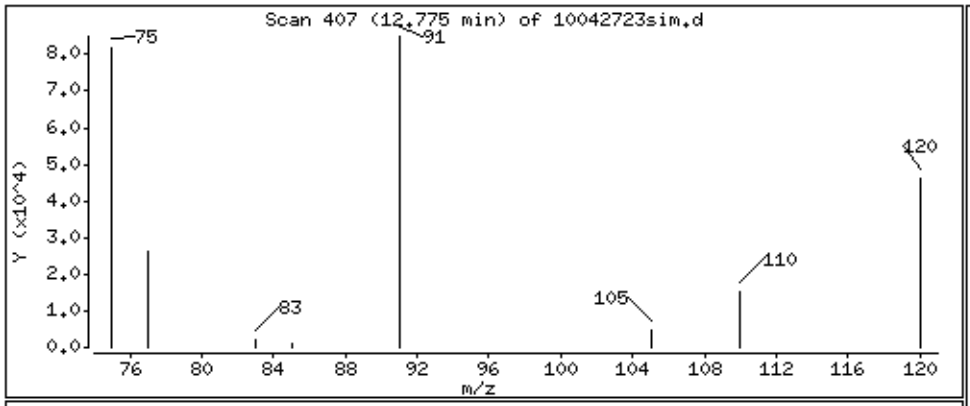
Operator: gm

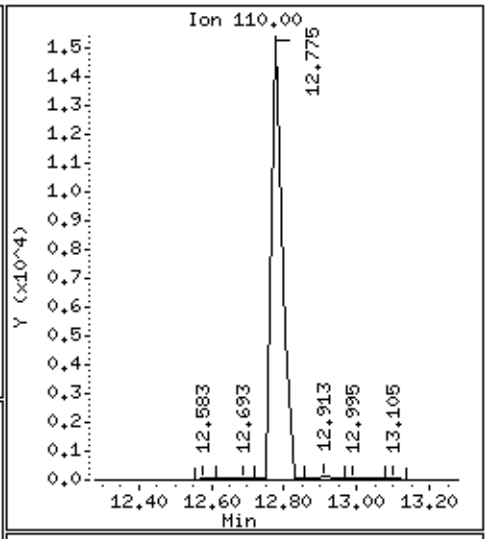
Column phase: DB-5.625

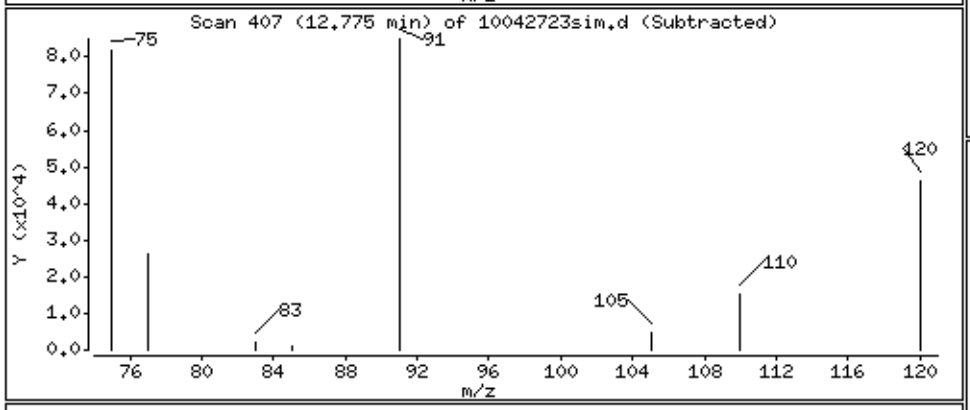
Column diameter: 0.25

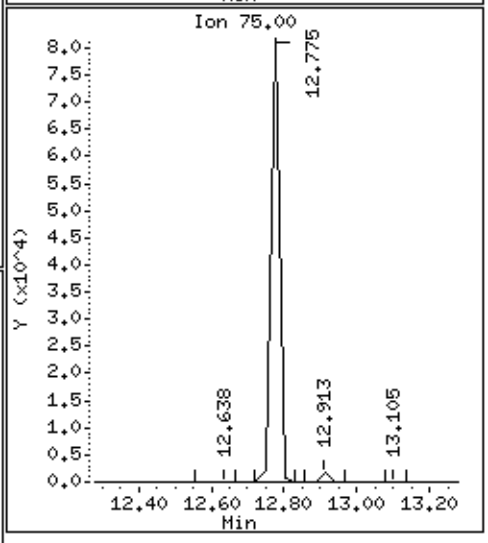
210 1,2,3-Trichloropropane

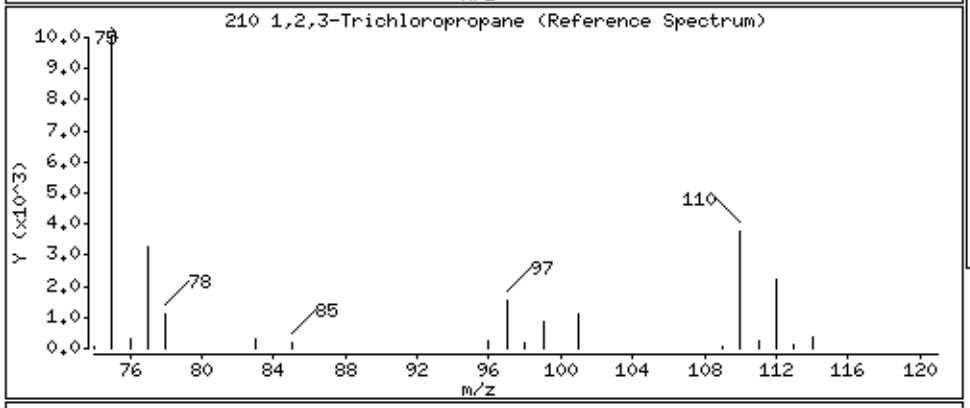
Concentration: 9.09546 ug

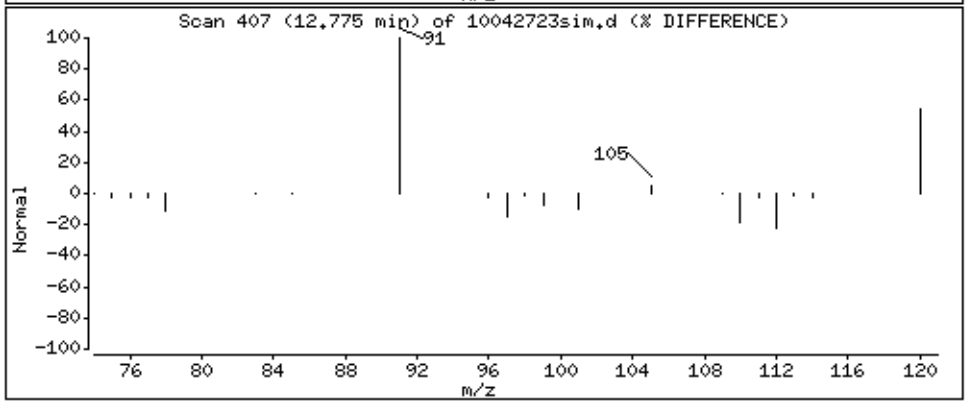












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

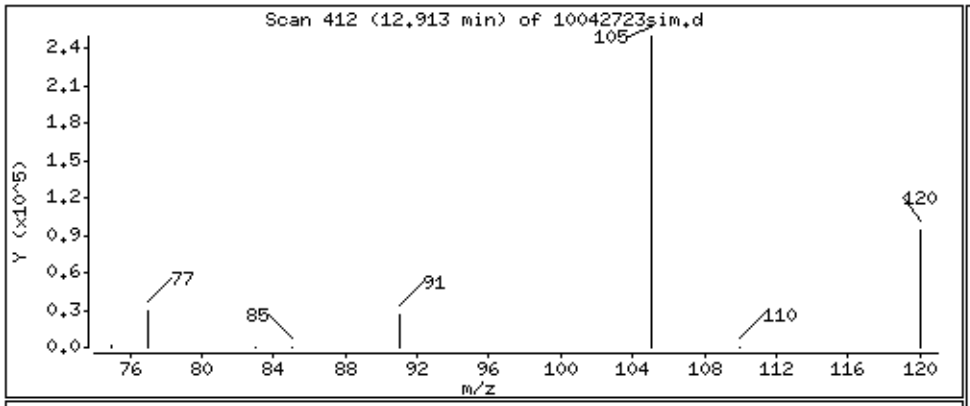
Operator: gm

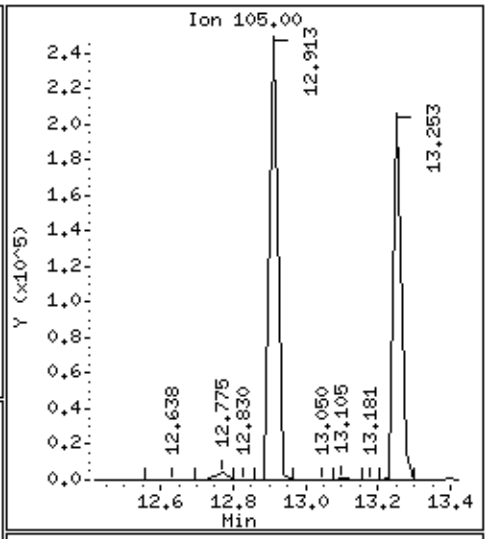
Column phase: DB-5.625

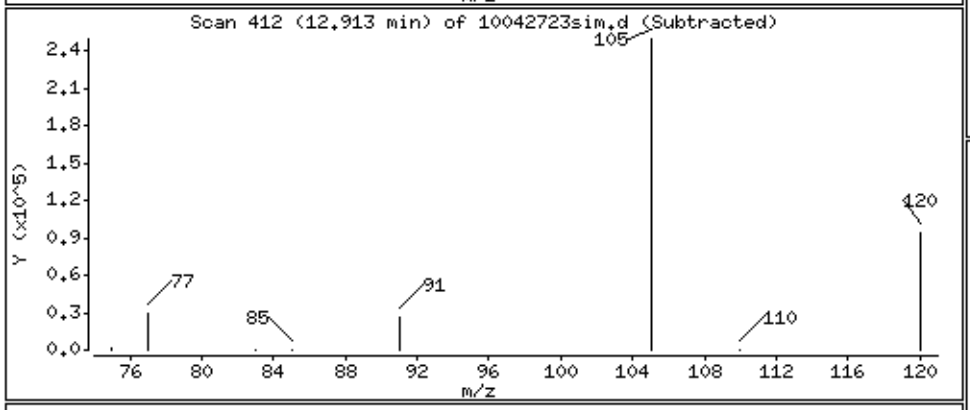
Column diameter: 0.25

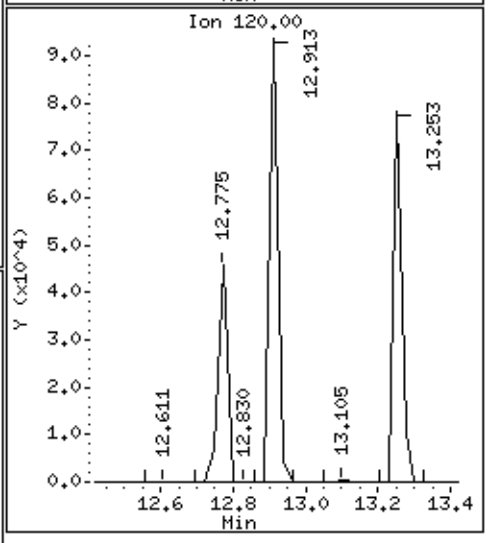
41 1,3,5-Trimethylbenzene

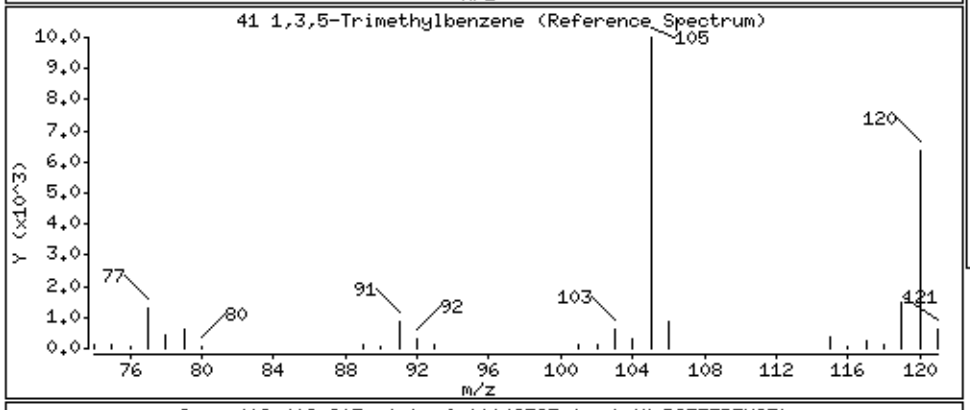
Concentration: 10.3013 ug

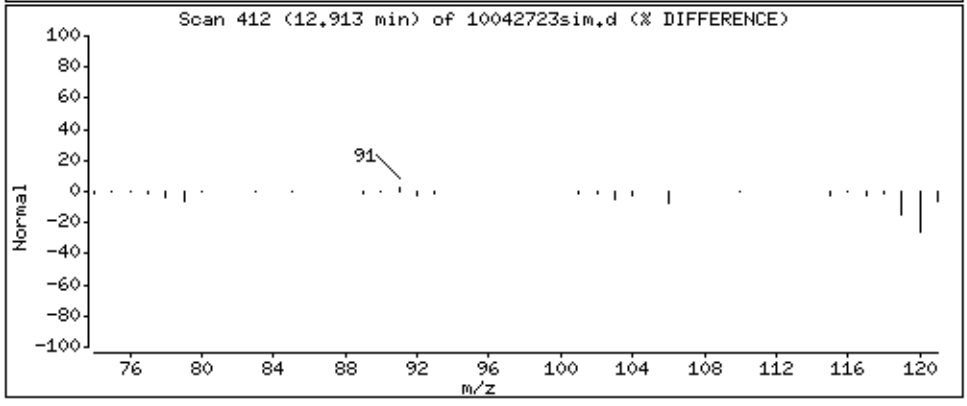












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

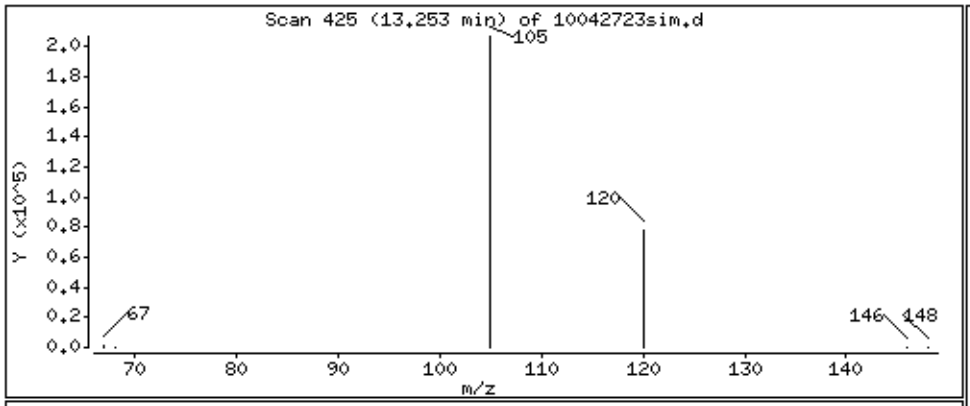
Operator: gm

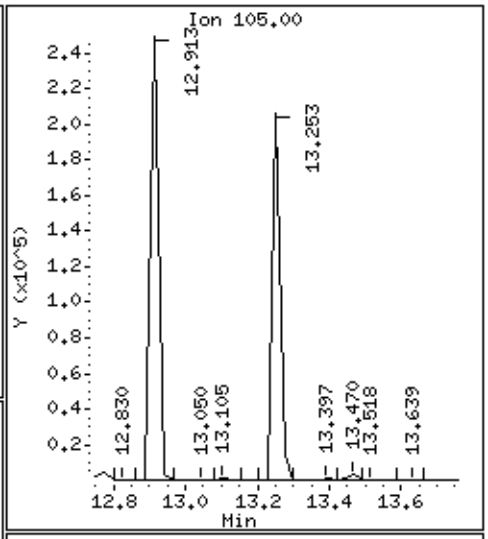
Column phase: DB-5.625

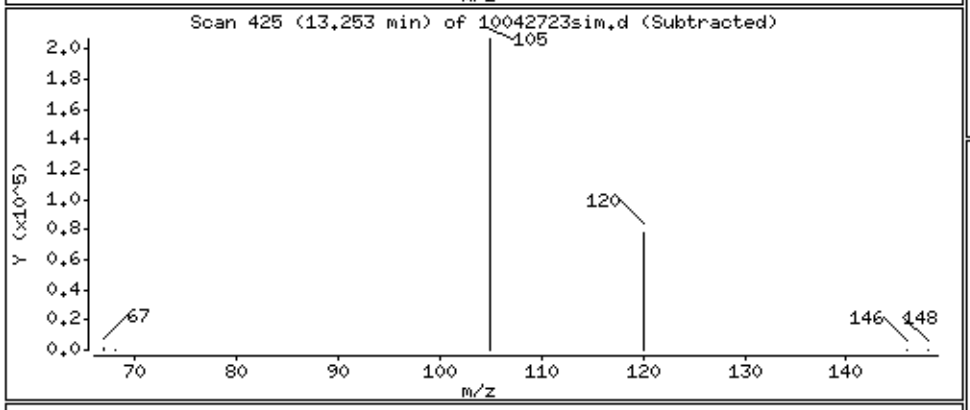
Column diameter: 0.25

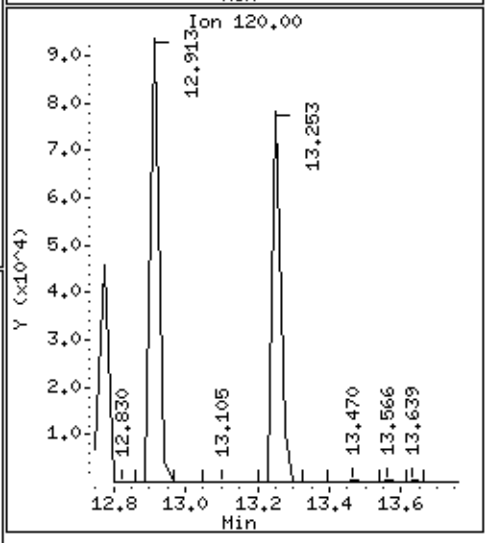
42 1,2,4-Trimethylbenzene

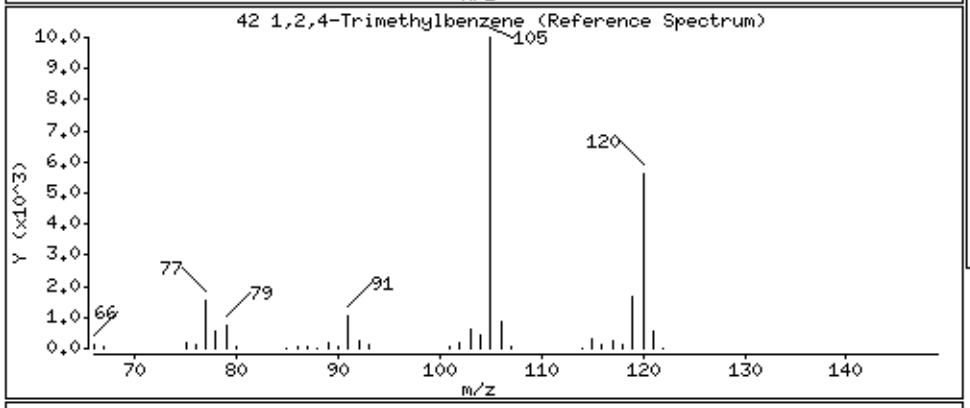
Concentration: 9.50696 ug

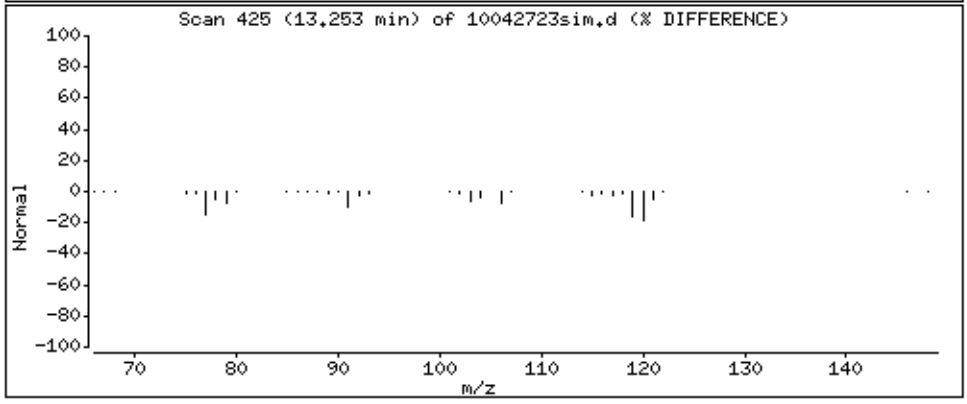












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

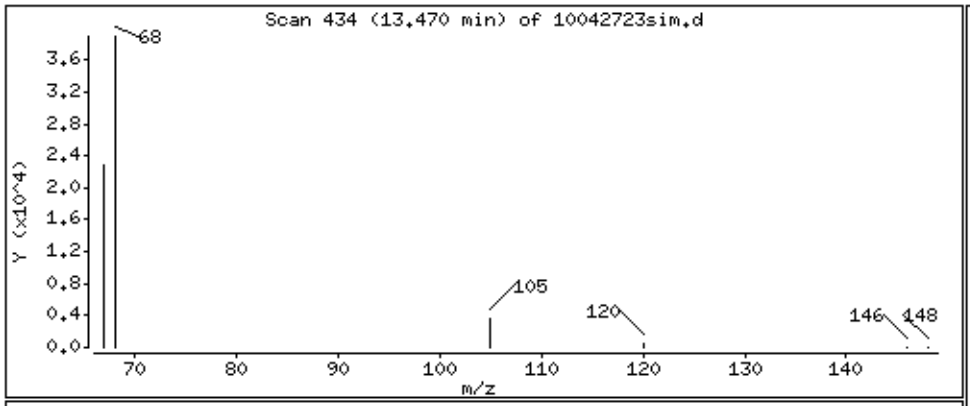
Operator: gm

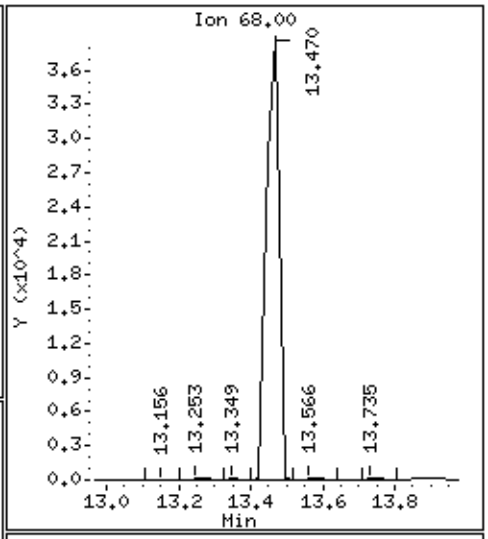
Column phase: DB-5.625

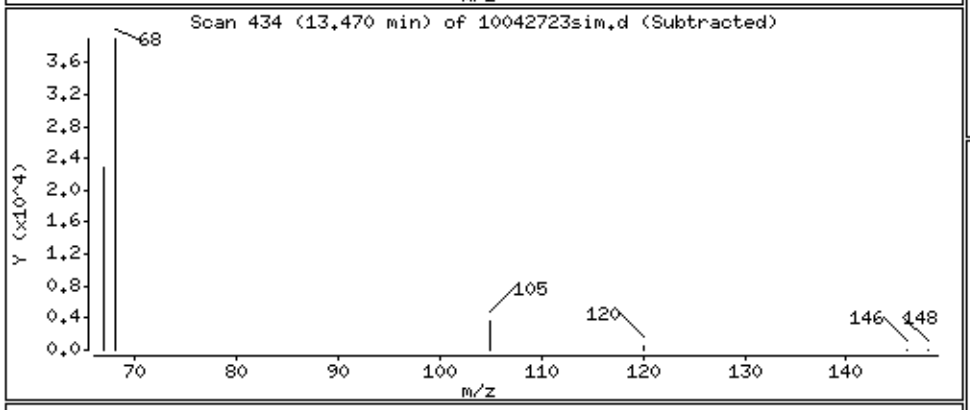
Column diameter: 0.25

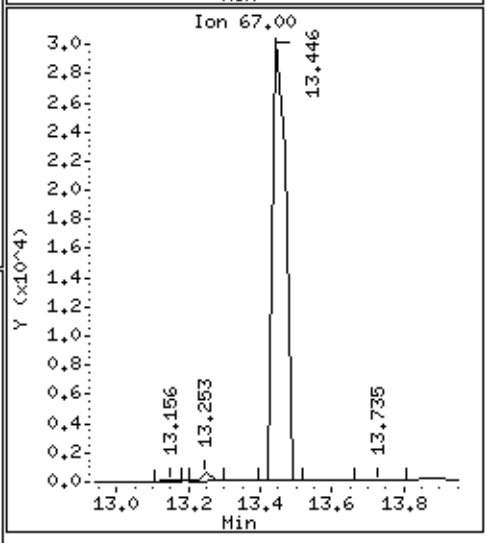
43 R-(+)-Limonene

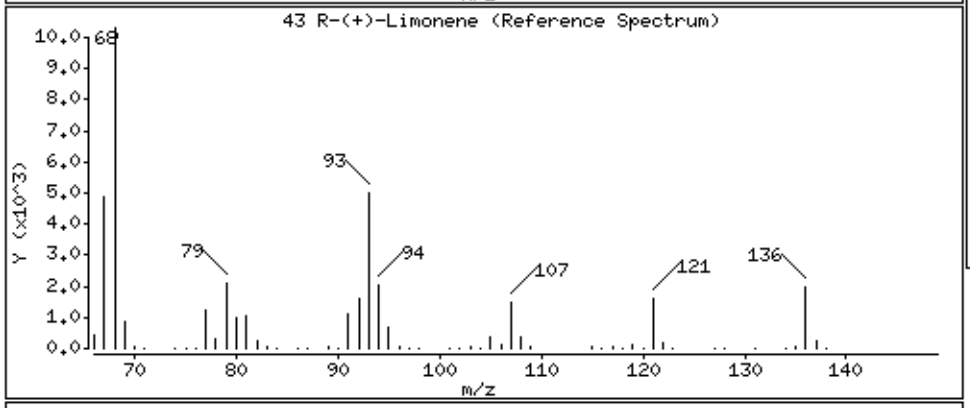
Concentration: 9.90917 ug

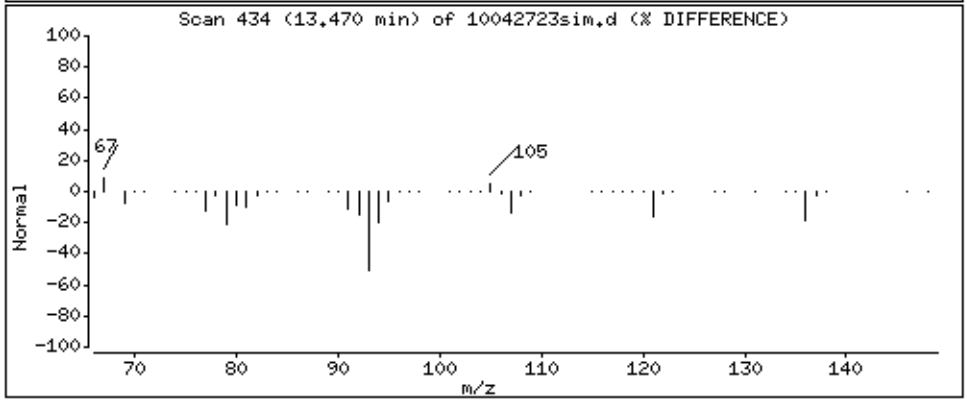












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

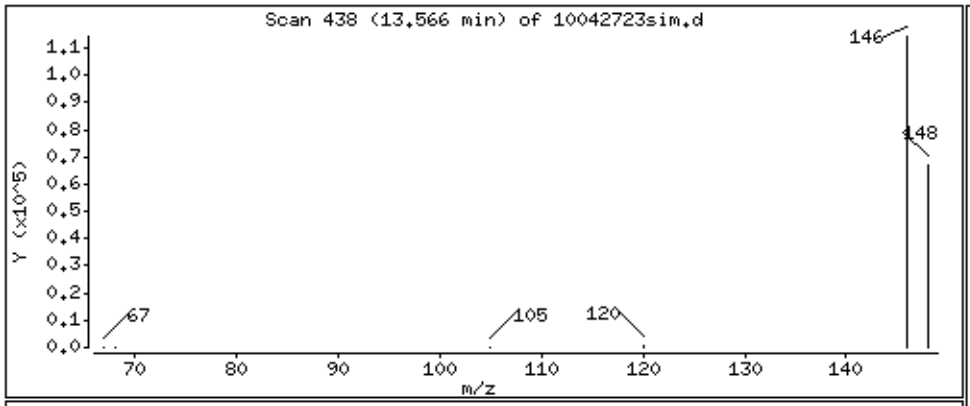
Operator: gm

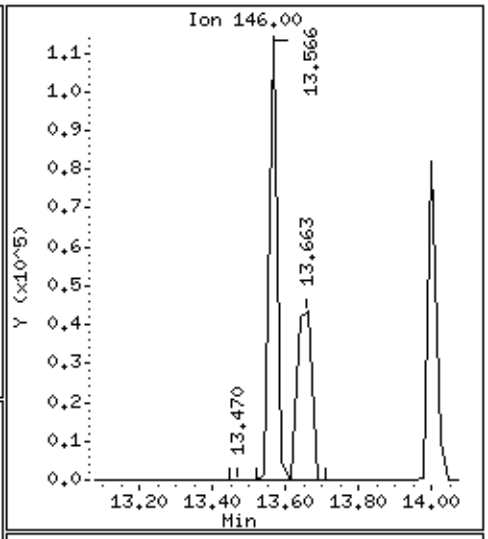
Column phase: DB-5.625

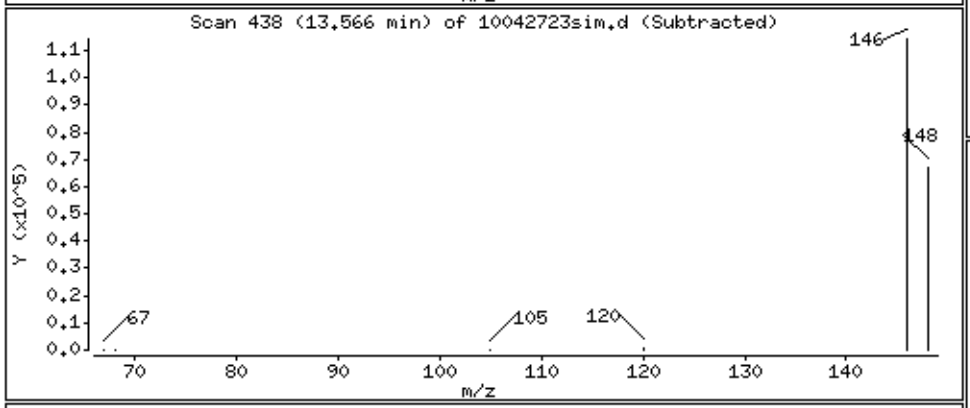
Column diameter: 0.25

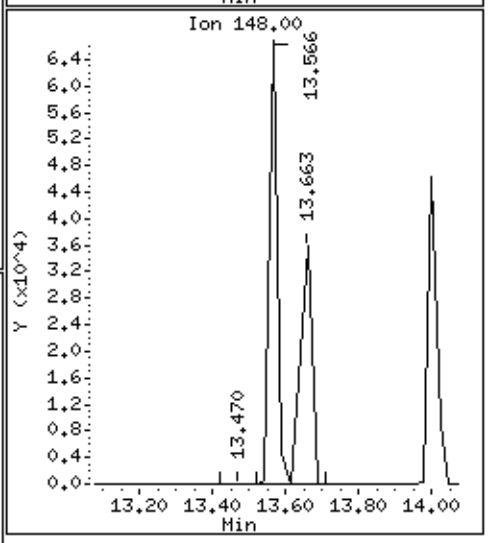
44 1,3-Dichlorobenzene

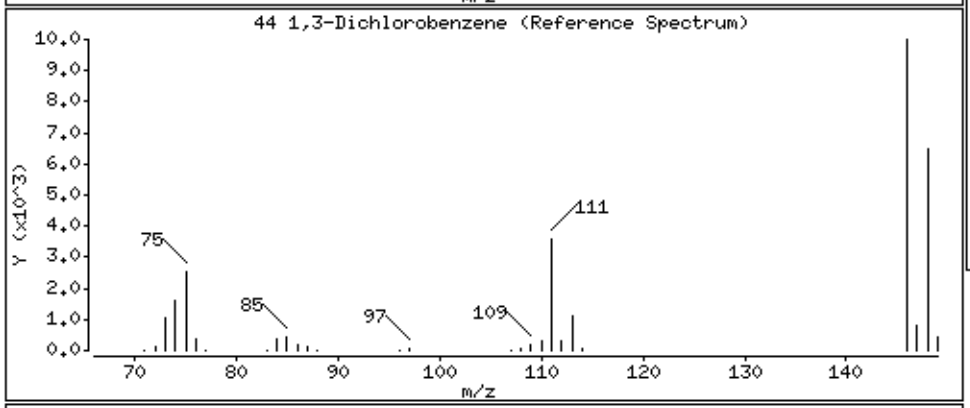
Concentration: 8.01954 ug

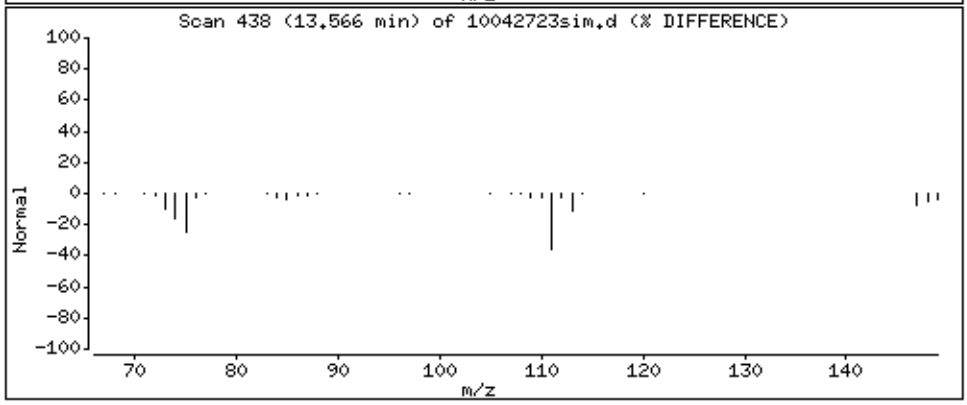












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

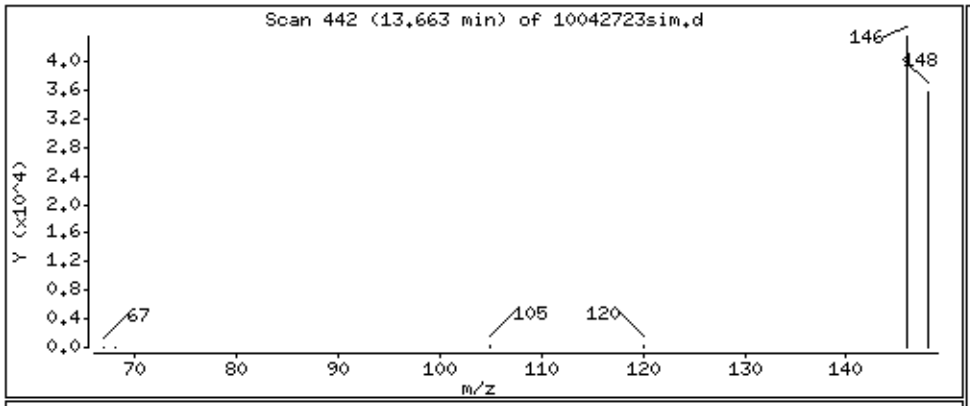
Operator: gm

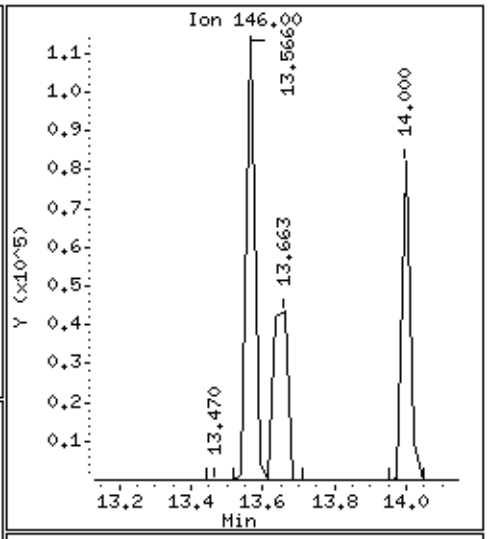
Column phase: DB-5.625

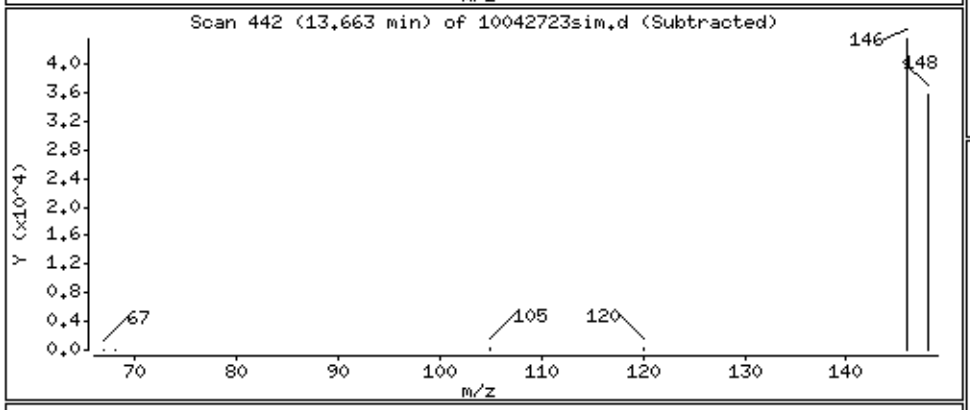
Column diameter: 0.25

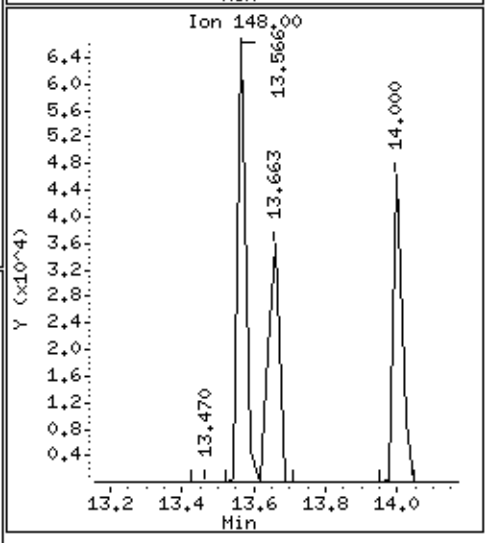
45 1,4-Dichlorobenzene

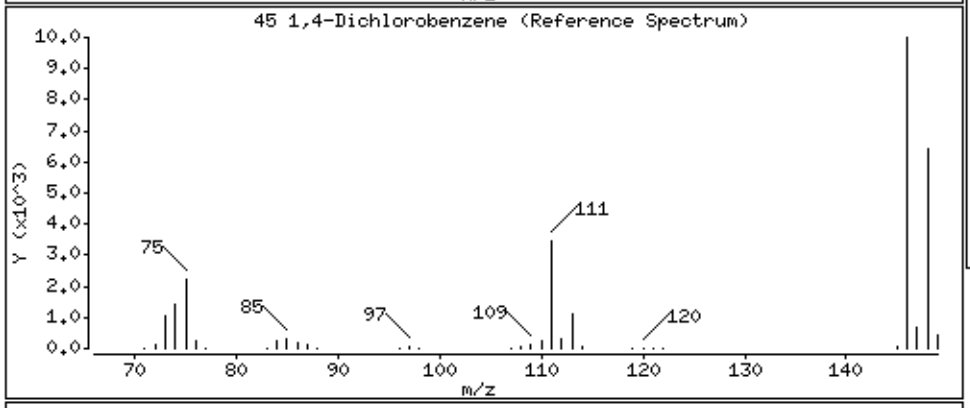
Concentration: 7.46992 ug

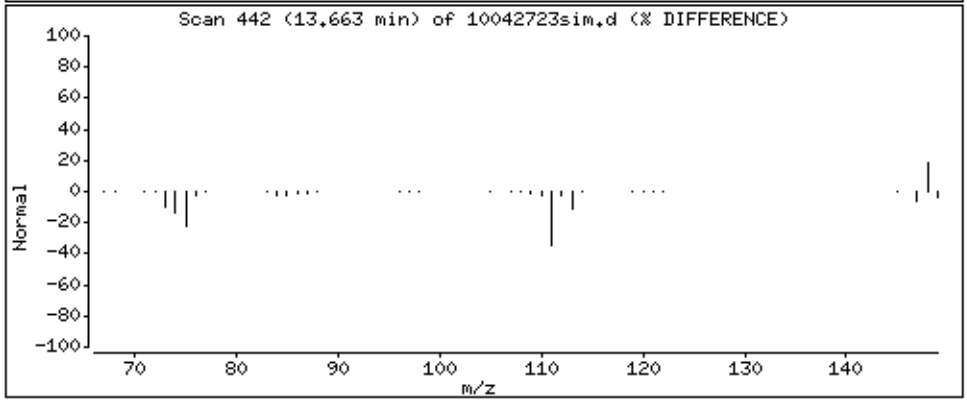












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

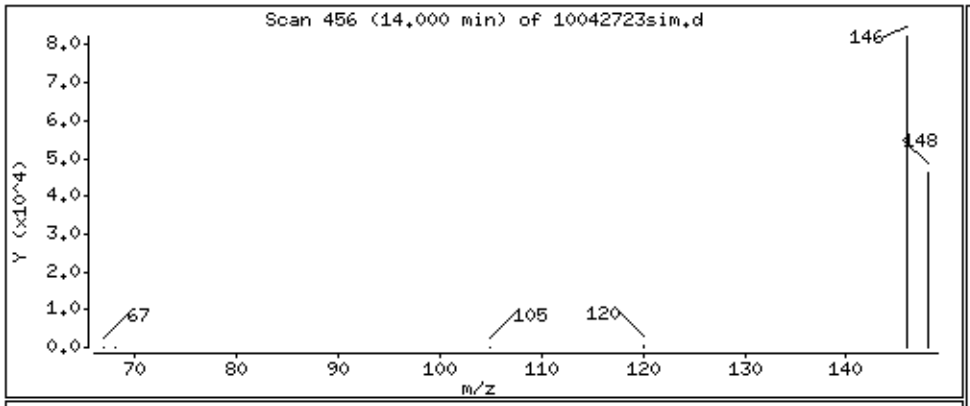
Operator: gm

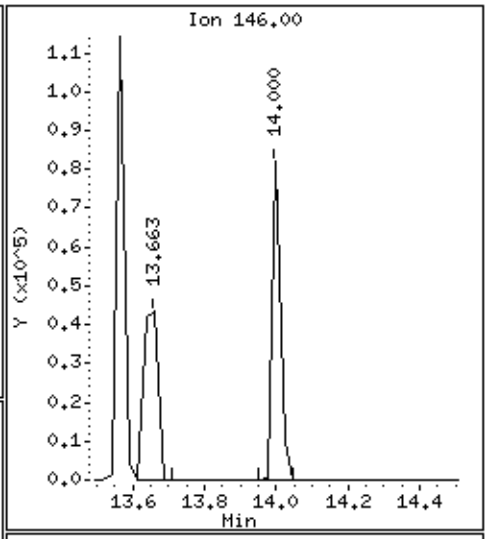
Column phase: DB-5.625

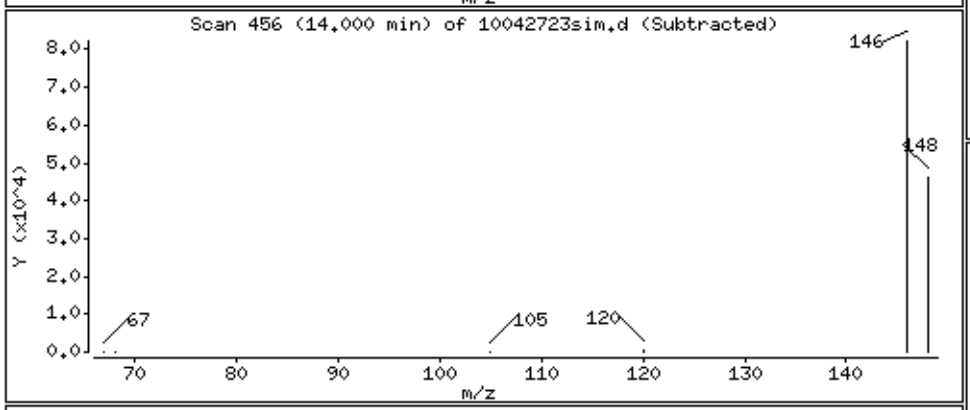
Column diameter: 0.25

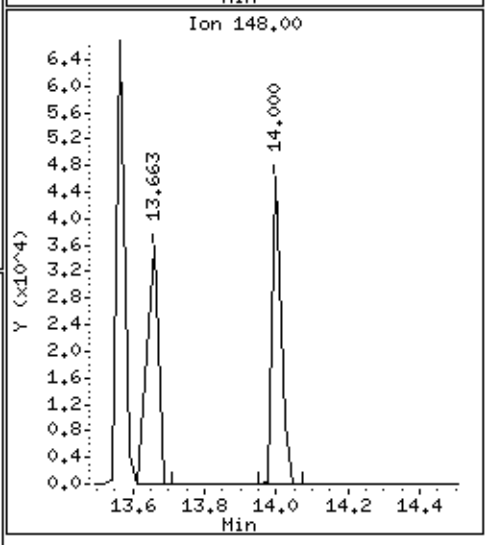
46 1,2-Dichlorobenzene

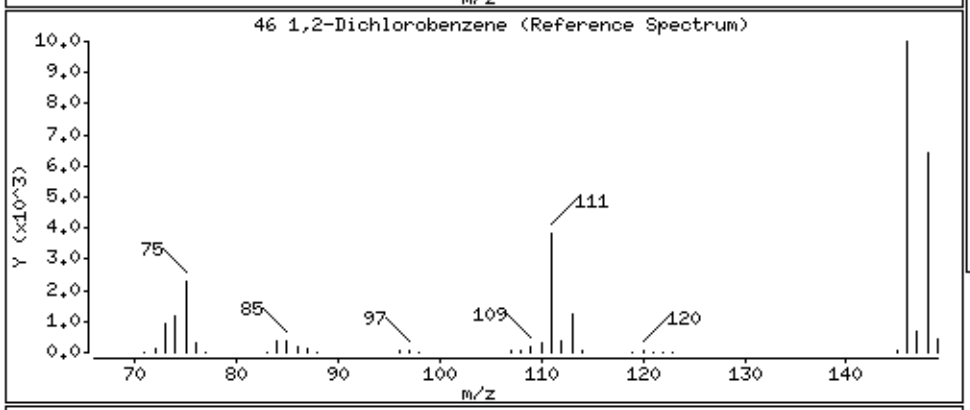
Concentration: 7.10982 ug

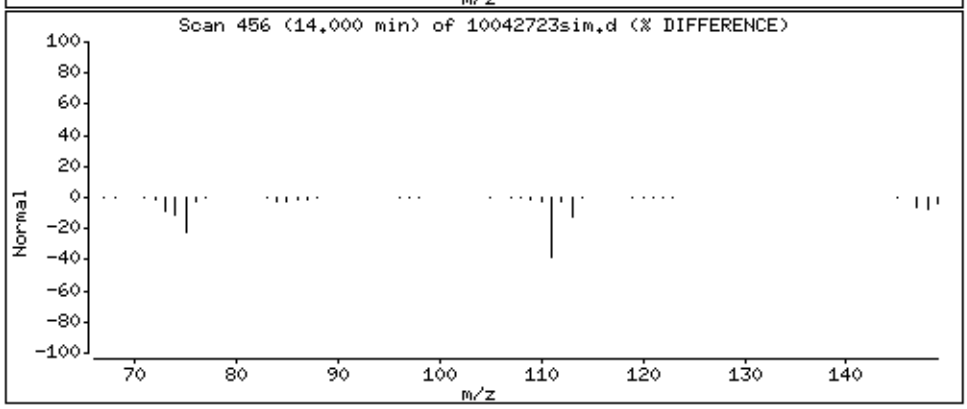












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

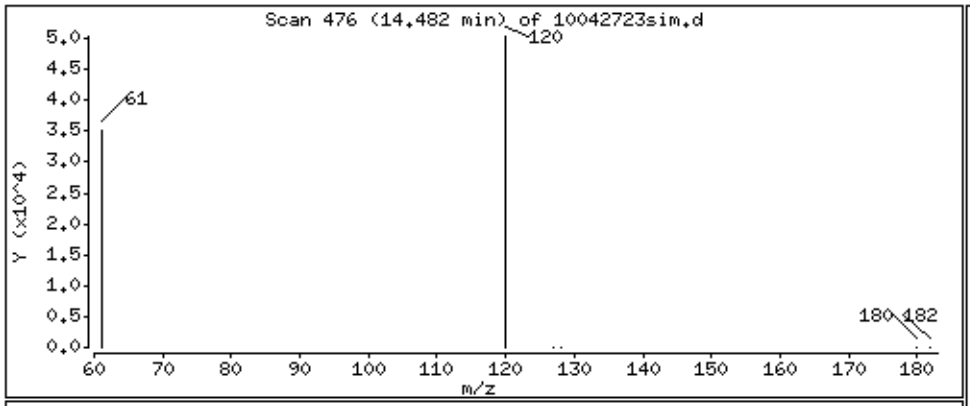
Operator: gm

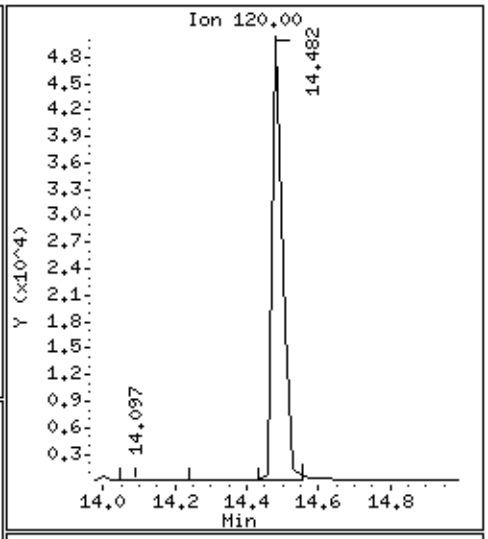
Column phase: DB-5.625

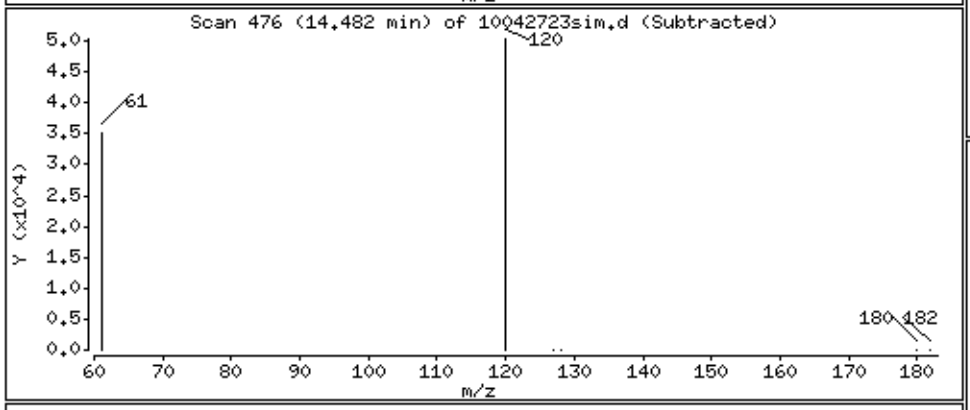
Column diameter: 0.25

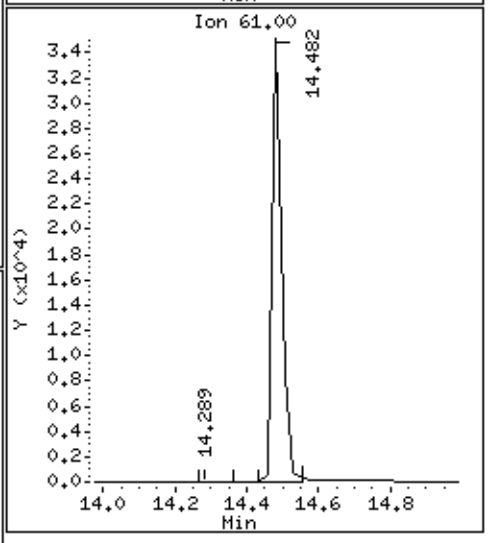
47 1,4-Dithiane

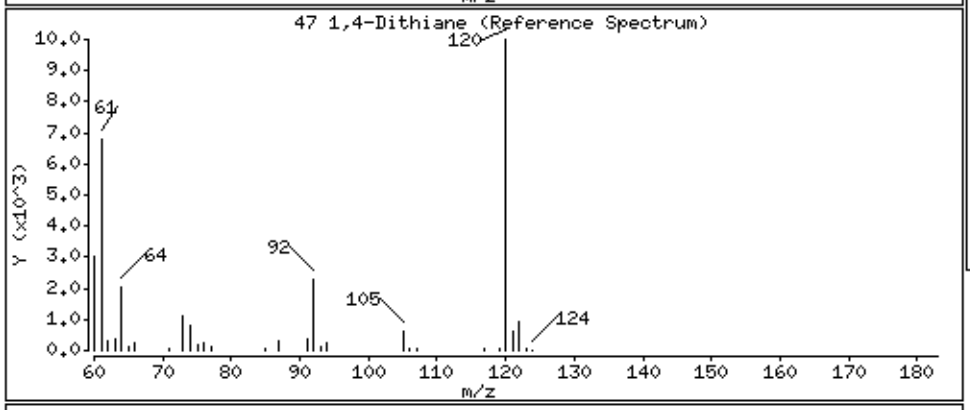
Concentration: 8.67477 ug

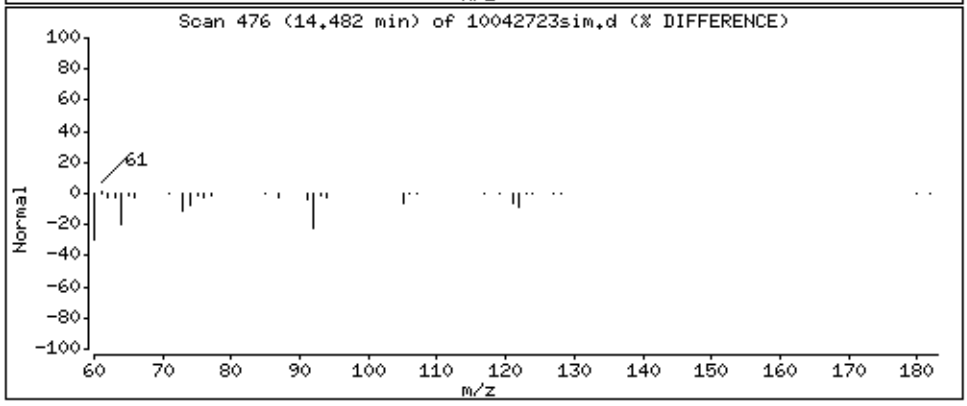












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

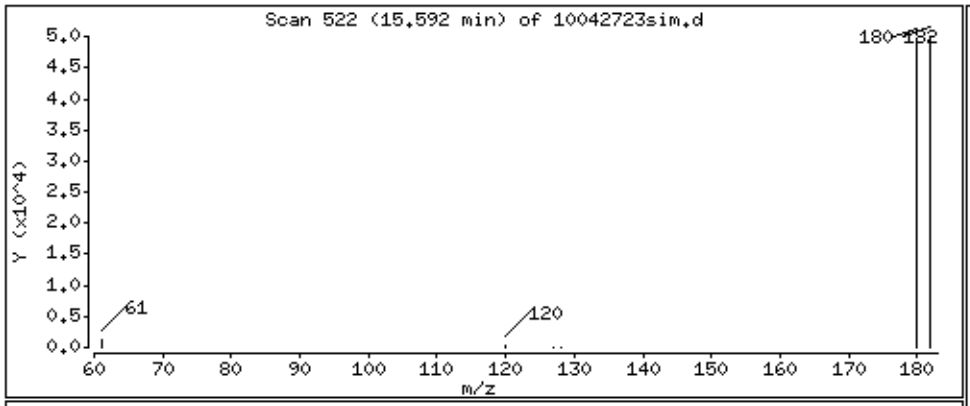
Operator: gm

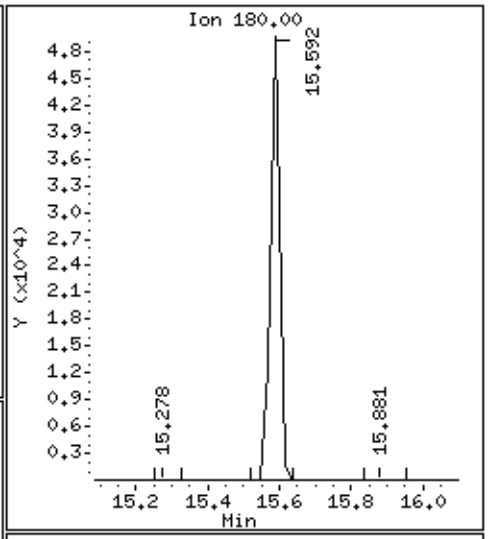
Column phase: DB-5.625

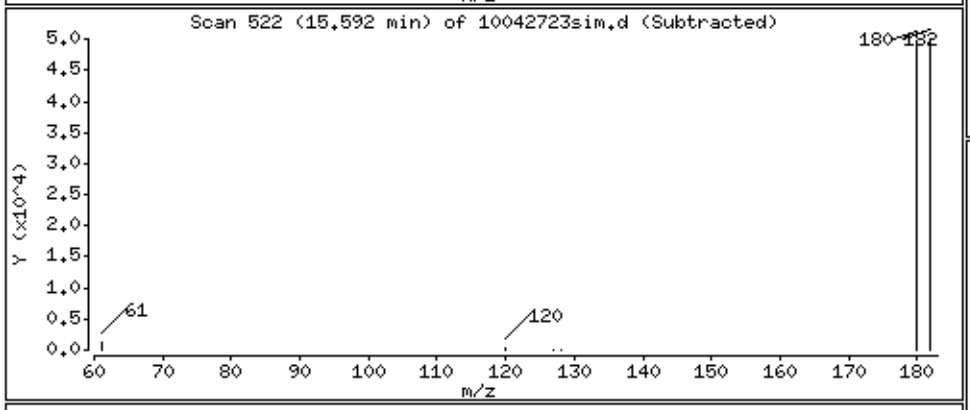
Column diameter: 0.25

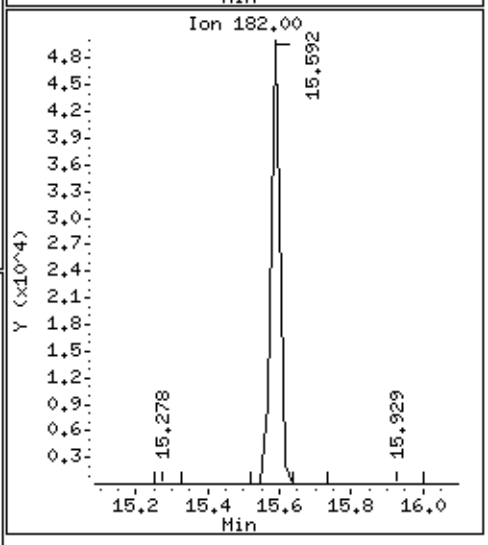
48 1,2,4-Trichlorobenzene

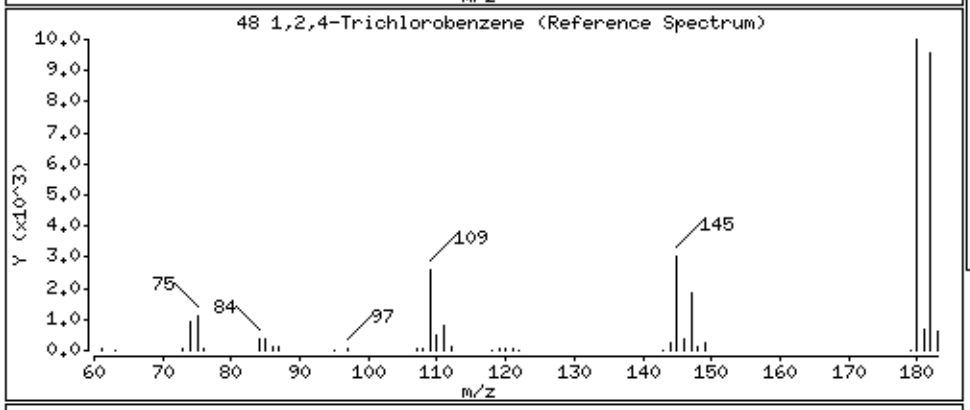
Concentration: 6.00364 ug

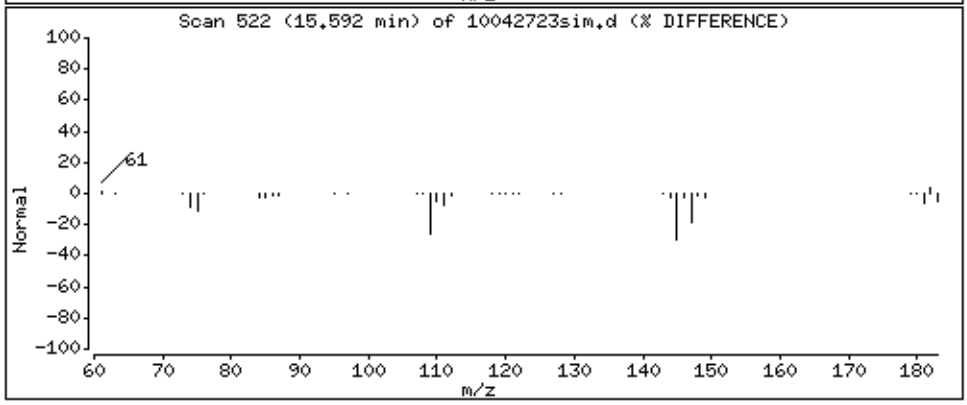












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

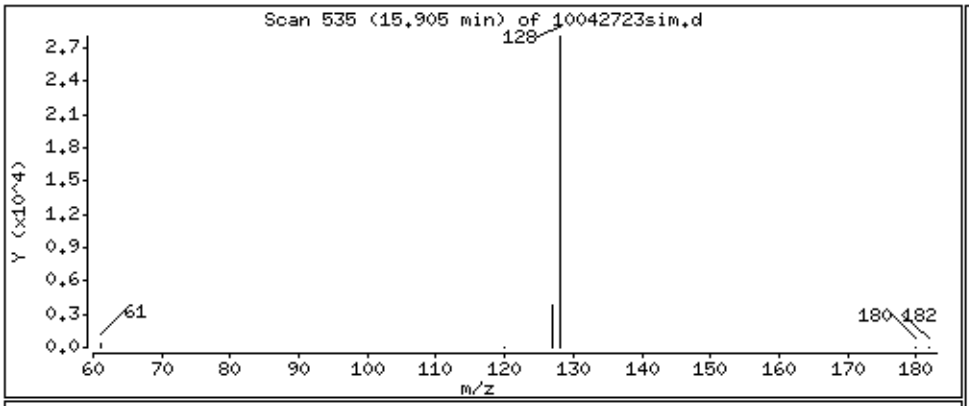
Operator: gm

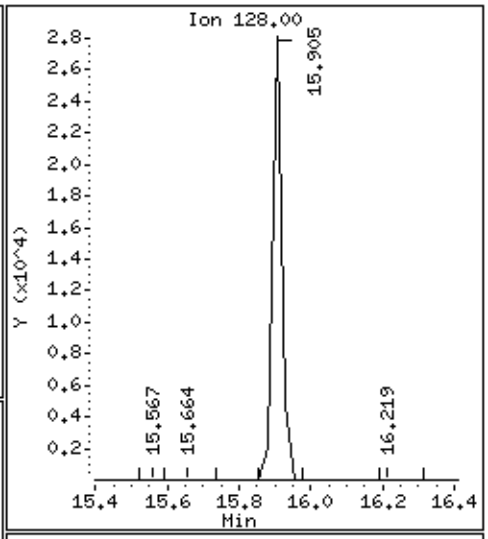
Column phase: DB-5.625

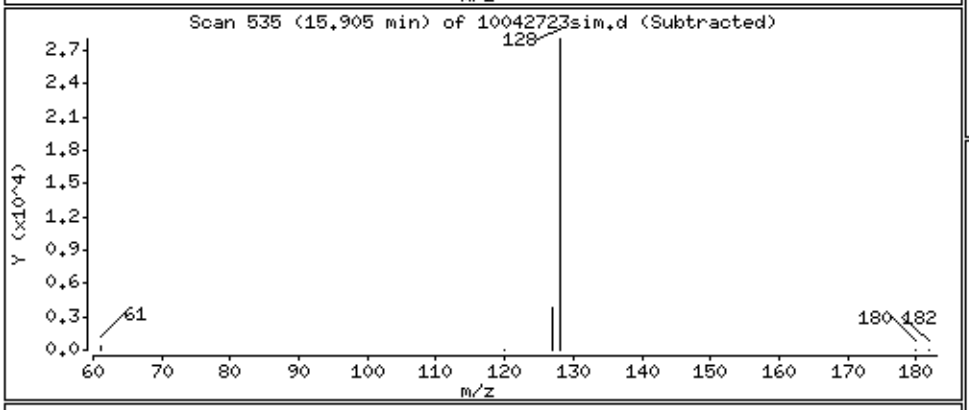
Column diameter: 0.25

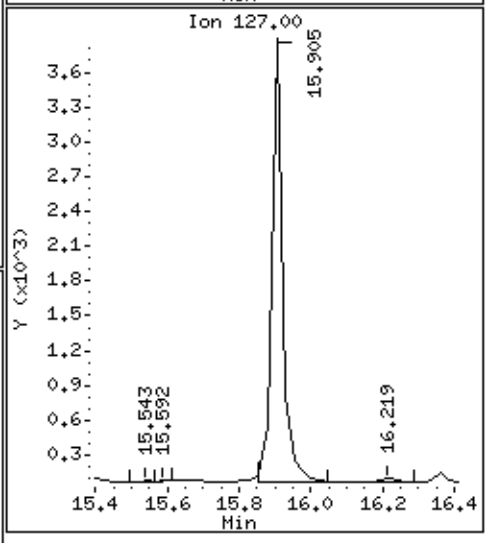
49 Naphthalene

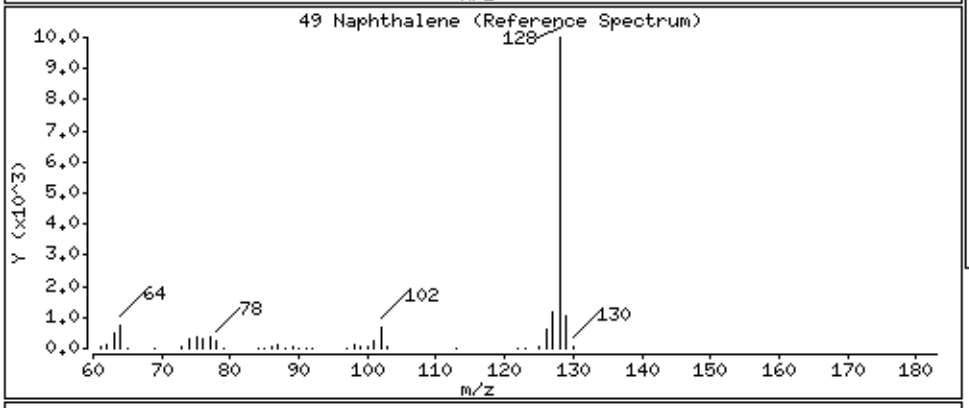
Concentration: 0.948052 ug

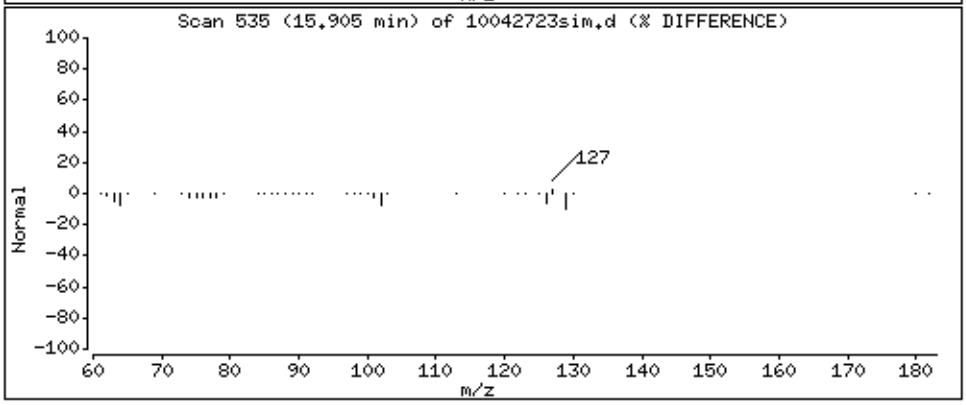












Data File: /chem/msd10.i/27Apr2015.b/10042723sim.d

Date : 27-APR-2015 16:37

Client ID: LCSD

Instrument: msd10.i

Sample Info: ;1504283/459;LCSD

Volume Injected (uL): 1.0

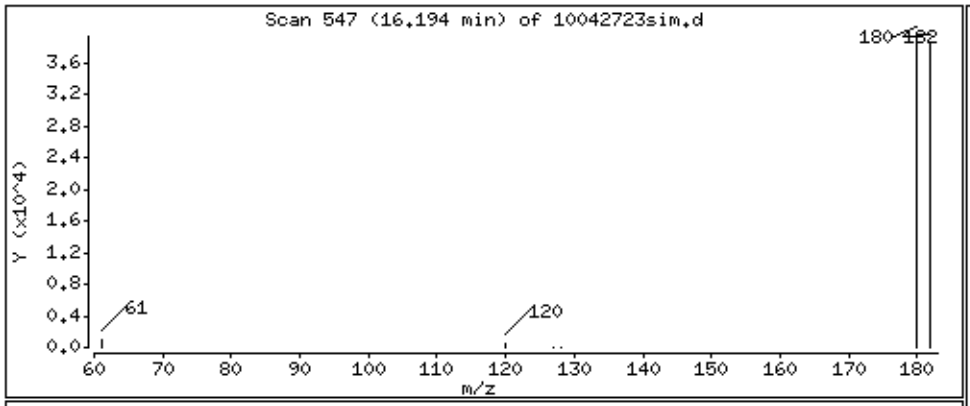
Operator: gm

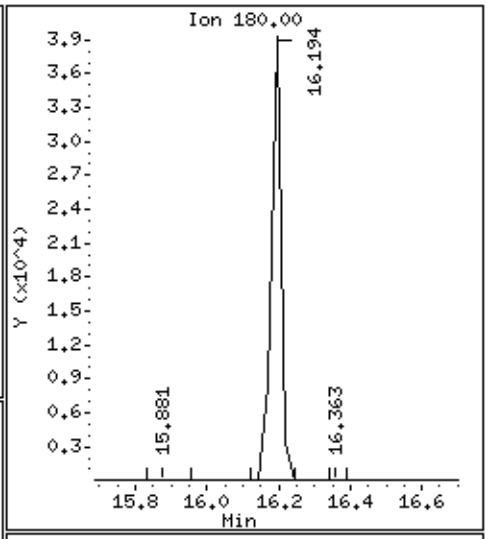
Column phase: DB-5.625

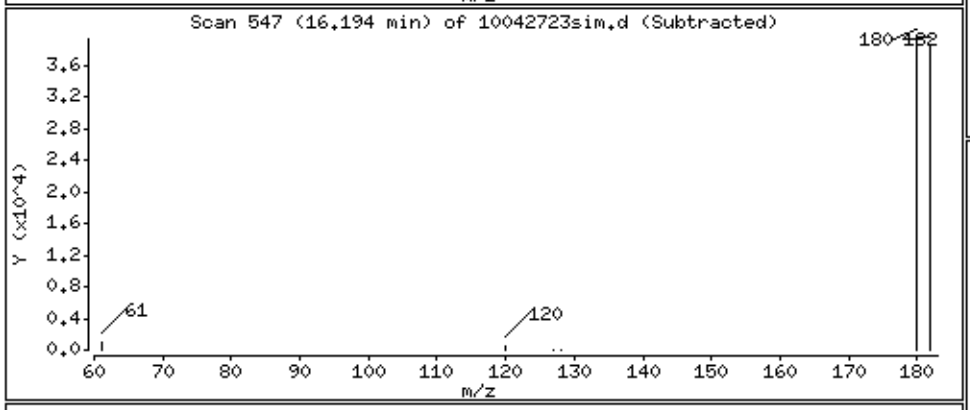
Column diameter: 0.25

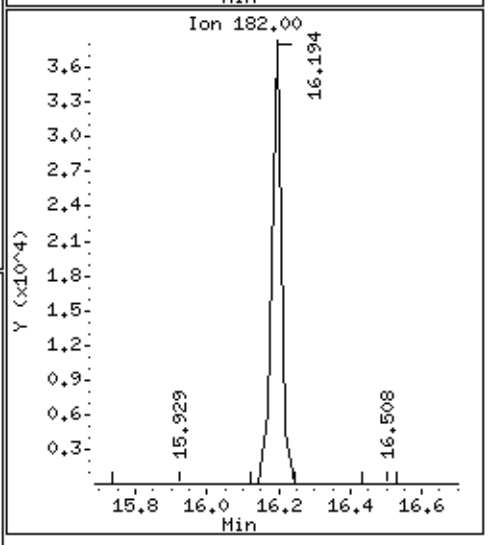
50 1,2,3-Trichlorobenzene

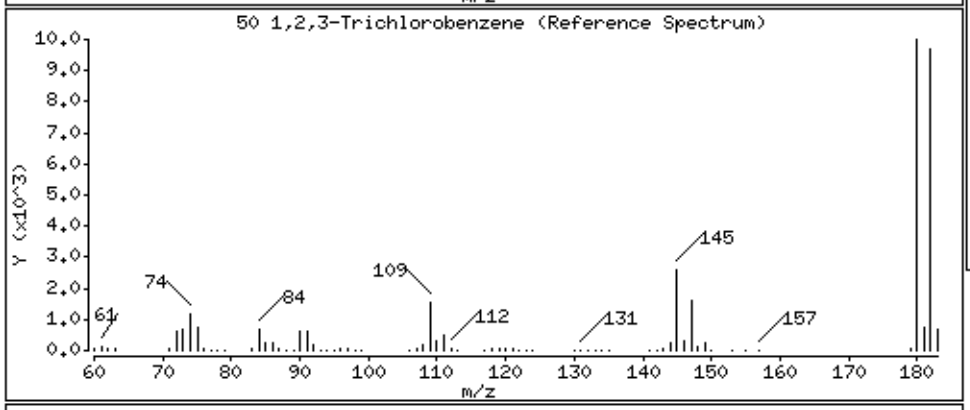
Concentration: 4.93721 ug

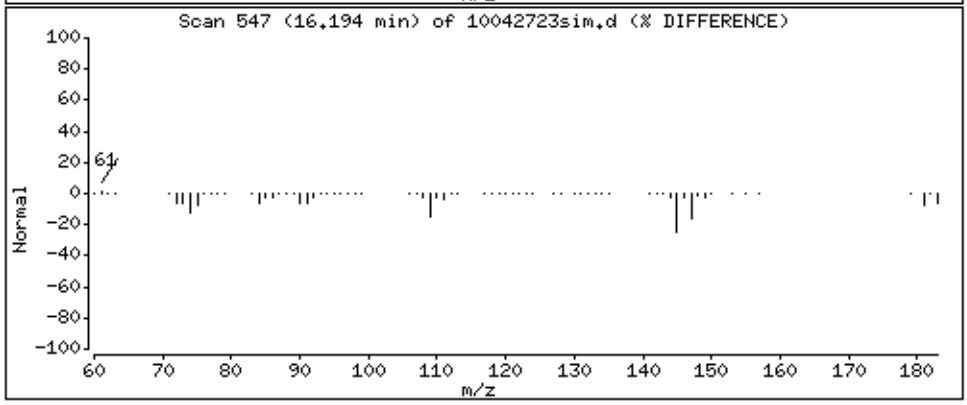












Eurofins Air Toxics, Inc.

Application Sample Preparation Logbook **Logbook #: 2679**

Work Order # 1504283 **Solvent:** CS_2 **Lot #:** 144325

GC/GCMS Application # 48 **Spike I.D.:** 2595-220-500 **Exp.:** 8/19/15

Date Prepared 4/27/15 **N2/Zero Air** NA

Matrix type Rad 130 **IS + Surr ID** 2595-215-125 **Exp.:** 8/20/15

Fraction	Clients I.D. #	Sample Weight or Cartridge type & size	Final Volume (mL)	Spike Amount (uL or mL)	IS +Surr (uL)	Comments
LCS	NA	Rad 130 LOT# 150114	2.0mL	20uL	80uL	
BLK	↓	↓	↓	NA	↓	
1504283-01A	201500 8077	Unknown	↓	↓	↓	613 NL
1504459-01A	765 NP ✓	↓	↓	↓	↓	↓
-02A	764 NP ✓	↓	↓	↓	↓	↓
-03A	915 NP ✓	↓	↓	↓	↓	↓
-04A	913 NP ✓	↓	↓	↓	↓	↓
↓ -05A	914 NP ✓	↓	↓	↓	↓	↓
					gm	4/27/15

Procedure: gm 4/27/15

Procedure for Radiello Extraction

1. Add 80uL of a internal standard and surrogate STD mix (2595-215-125) to all samples, lab Blank and desorption levels
2. Add spike standard (2595-220-500, 20uL) to LCS
3. Add 2mL Carbon Disulfide to all samples, Lab Blank and all desorption levels and shake for 30 minutes.
4. Transfer the extracts to 2mL vials and analyze them.

Reviewed by: gm Date: 4/27/15

Eurofins Air Toxics, Inc. **MSD-10** **Logbook #: 2686**

BFB Injection Date: 4/27/15
BFB Injection Time: 0806
BFB File ID: 10042701

IS/S Std.#: 2595 215-125	Exp. Date: 8/20/15
2-Fluorotoluene SIM: 216118	

Verified CCV IS vs ICAL mid-point (-50% to +100% D) gnv *initials*

Calculation Check:

µg/L of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} \times DF = \frac{(10844)}{(301168)} \times \frac{(5.0)}{(0.80940)} \times 2.00 =$ 0.44 ug

File ID: 10042730SIM
Compound: Benzene
Initials: gnv

Reported Result 0.44 ug

	Use	File #	Sample / Client Name	Vial #	DF	Date Analyzed	Time Analyzed	Initial	Comments
1	✓	10042701	2299-807 BFB	1	1.00	4/27/15	0806	gnv	
2	✓	02	CS_2 Blank	2			0817		
3	✓	03	2595-224-0.05→0.025	3			0840		Level 1 (m,p-xylene)
4	✓	04	2595-224-0.05	4			0904		Level 2
5	✓	05	-0.10	5			0927		Level 3
6	✓	06	-0.20	6			0951		Level 4
7	X	07	-0.50	7			1014		Level 5
8	✓	08	-1.0	8			1038		Level 6
9	✓	09	-5.0	9			1101		Level 7 (CCV)
10	✓	10	-20	10			1125		Level 8
11	✓	11	-50	11			1148		Level 9
12	✓	12	2595-218-500→100	12			1214		Level 10 (20:100)
13	✓	13	→200	13			1237		Level 11 (40:100)
14	✓	14	CS_2 Blank	14			1301		
15	✓	15	2595-224-0.50	15	↓	↓	1325	↓	Level 5

Reviewed: gnv Date: 4/28/15

16	✓	10042716	2595-231-5	16	100	4/27/15	1350	JM	ICV Acetone, Hexane ✓
17	✓	17	↓	17	↓	↓	1415	↓	ICV (1-ow) ✓
18	✓	18	1504278-LCS	18			1438		
19	✓	19	-LCSD	18			1502		
20	✓	20	-BLK	19			1526		
21	✓	21	-01A	20			1550		
22	✓	22	1504283/459-LCS	21			1613		
23	✓	23	-LCSD	21			1637		
24	✓	24	-BLK	22			1701		
25	✓	25	1504283-01A	23			1725		
26	✓	26	1504459-01A	24			1749		
27	✓	27	-02A	25			1812		
28	✓	28	-03A	26			1836		
29	✓	29	-04A	27			1900		
30	✓	30	-05A	28	↓	↓	1924	↓	
31									
32									
33									
34									
35									
36									
37									

Comments:

JM 4/28/15

Reviewed: JM Date: 4/28/15

Eurofins Air Toxics Inc.

Data file : /chem/msd10.i/27Apr2015.b/10042701.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 27-APR-2015 08:06
Operator : gm Inst ID: msd10.i
Smp Info : ;2299-807;BFB
Misc Info :
Comment :
Method : /var/chem/msd10.i/27Apr2015.b/bfbr.m
Meth Date : 27-Apr-2015 08:00 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
6.440	6.490	-0.050	95	436629			100.00- 100.00	100.00
6.440	6.490	-0.050	50	99210			15.00- 40.00	22.72
6.440	6.490	-0.050	75	221824			30.00- 60.00	50.80
6.440	6.490	-0.050	96	28898			5.00- 9.00	6.62
6.440	6.490	-0.050	173	0			0.00- 2.00	0.00
6.440	6.490	-0.050	174	312085			50.00- 100.00	71.48
6.440	6.490	-0.050	175	23074			5.00- 9.00	7.39
6.440	6.490	-0.050	176	299968			95.00- 101.00	96.12
6.440	6.490	-0.050	177	19533			5.00- 9.00	6.51

Data File: /chem/msd10.i/27Apr2015.b/10042701.d

Date : 27-APR-2015 08:06

Client ID: BFB

Instrument: msd10.i

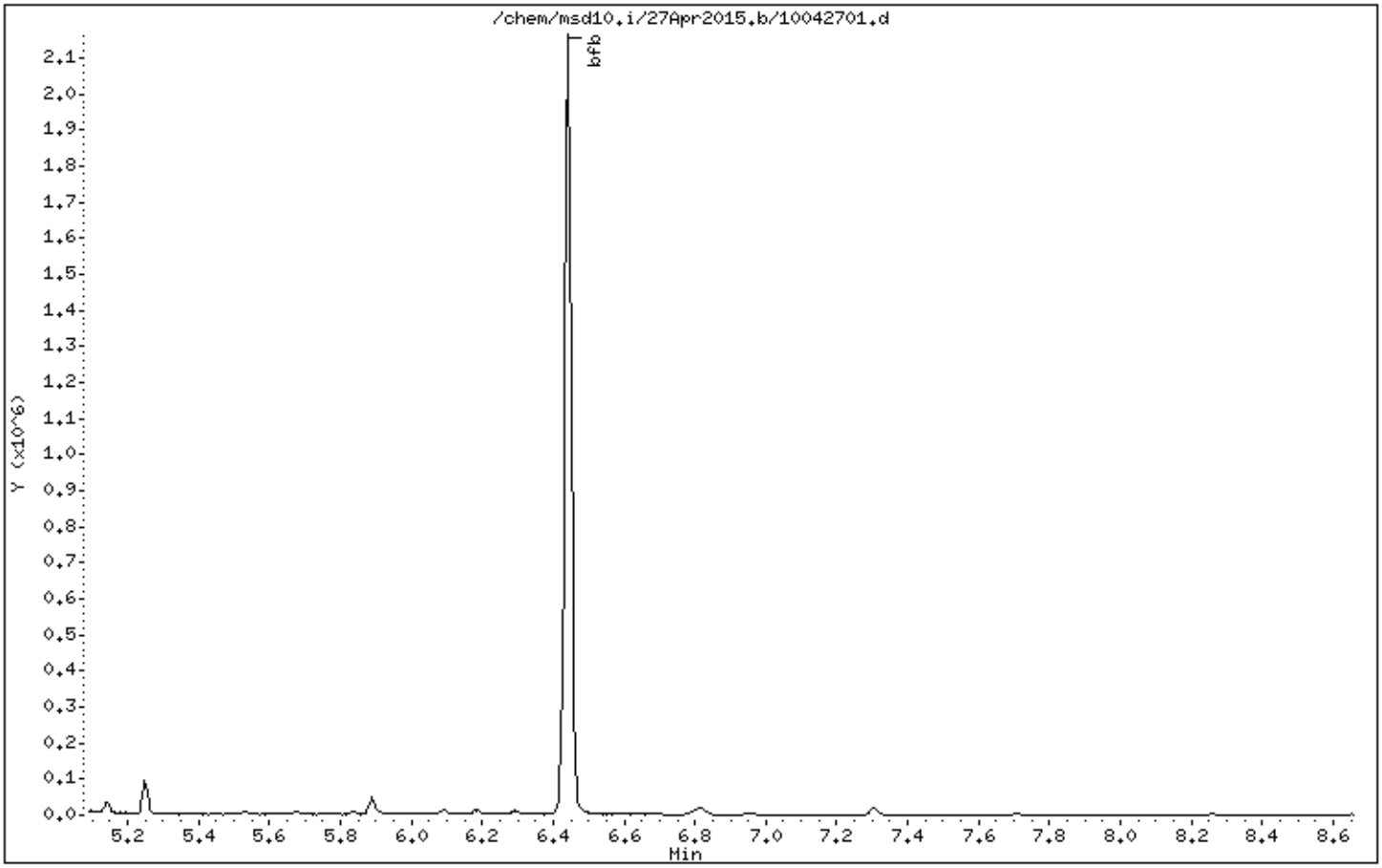
Sample Info: ;2299-807;BFB

Volume Injected (uL): 1.0

Operator: gm

Column phase:

Column diameter: 2.00



Data File: /chem/msd10.i/27Apr2015.b/10042701.d

Date : 27-APR-2015 08:06

Client ID: BFB

Instrument: msd10.i

Sample Info: ;2299-807;BFB

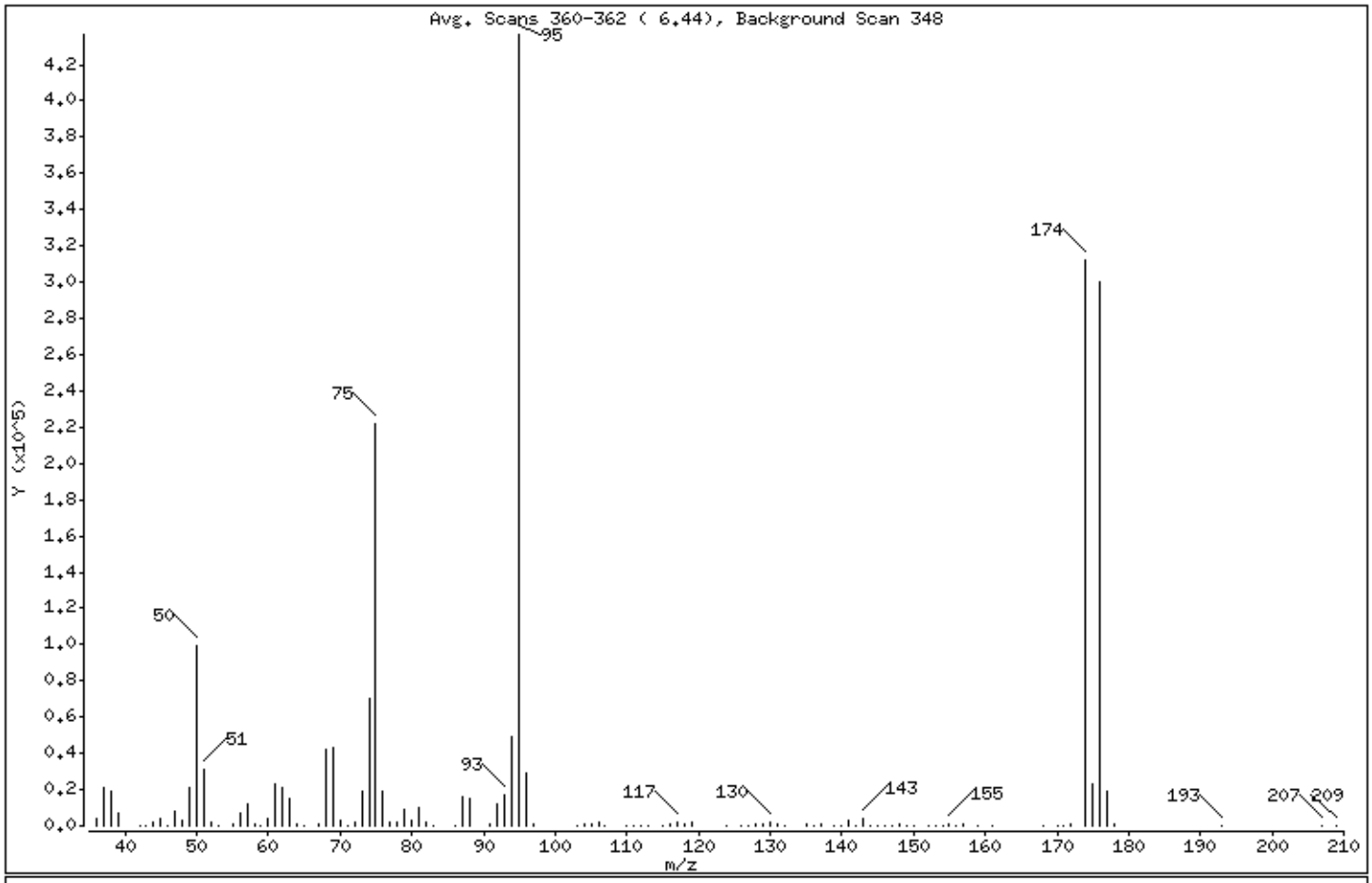
Volume Injected (uL): 1.0

Operator: gm

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.72
75	30.00 - 60.00% of mass 95	50.80
96	5.00 - 9.00% of mass 95	6.62
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	71.48
175	5.00 - 9.00% of mass 174	5.28 (7.39)
176	95.00 - 101.00% of mass 174	68.70 (96.12)
177	5.00 - 9.00% of mass 176	4.47 (6.51)

Date : 27-APR-2015 08:06

Client ID: BFB Instrument: msd10.i

Sample Info: ;2299-807;BFB

Volume Injected (uL): 1.0 Operator: gm

Column phase: Column diameter: 2.00

Data File: 10042701.d
Spectrum: Avg. Scans 360-362 (6.44), Background Scan 348
Location of Maximum: 95.00
Number of points: 111

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4205	68.00	42088	105.00	627	144.00	314
37.00	21296	69.00	43240	106.00	1578	145.00	414
38.00	18720	70.00	3083	107.00	379	146.00	409
39.00	7036	71.00	73	110.00	122	147.00	432
42.00	72	72.00	2266	111.00	276	148.00	1018
43.00	136	73.00	18600	112.00	264	149.00	359
44.00	2134	74.00	70672	113.00	313	150.00	378
45.00	3779	75.00	221824	115.00	470	152.00	267
46.00	426	76.00	19176	116.00	1330	153.00	368
47.00	7916	77.00	2404	117.00	2272	154.00	151
48.00	2745	78.00	1645	118.00	1421	155.00	1265
49.00	20632	79.00	9448	119.00	1888	156.00	50
50.00	99208	80.00	2672	124.00	137	157.00	639
51.00	30800	81.00	9750	126.00	186	159.00	406
52.00	1518	82.00	2242	127.00	55	161.00	409
53.00	52	83.00	202	128.00	1426	168.00	78
55.00	1369	86.00	357	129.00	553	170.00	63
56.00	7182	87.00	16347	130.00	1651	171.00	416
57.00	12015	88.00	15386	131.00	508	172.00	891
58.00	652	91.00	1408	132.00	117	174.00	312064
59.00	95	92.00	11843	135.00	590	175.00	23072
60.00	4092	93.00	17432	136.00	65	176.00	299968
61.00	22672	94.00	49352	137.00	736	177.00	19528
62.00	21544	95.00	436608	139.00	111	178.00	513
63.00	15526	96.00	28896	140.00	221	193.00	69
64.00	1471	97.00	936	141.00	3289	207.00	150
65.00	277	103.00	163	142.00	475	209.00	85
67.00	1104	104.00	1474	143.00	3794		

Shipping/ Receiving Documents

eurofins | Air Toxics

Eurofins Air Toxics, Inc. Sample Receipt Confirmation Cover Page

Thank you for choosing Eurofins Air Toxics, Inc. (EATL). We have received your samples and have listed any Sample Receipt Descrepancies below.

In order to expedite analysis and reporting, please review the attached information for accuracy.

For corrections call: **Air Toxics, Ltd. at 916-985-1000**

EATL will proceed with the analysis as specified on the Chain of Custody (COC) and Sample Receipt Summary page.

Please note : The Sample Receipt Confirmation, including the total workorder charge, is subject to change upon secondary review. Our aim is to provide a confirmation to you in a timely manner. Sample Receipt Discrepancies, if any, may not include discrepancies regarding sample receipt pressure(s). Additionally, the COC will be provided with the final report.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 6:30 A.M to 5:30 P.M. PST

PASSIVE SAMPLE COLLECTION

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630
(916) 985-1000 FAX (916) 985-1020

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922.

Page ____ of ____

Project Manager DON GRUBER

Collected by: (Print and Sign) ED GILLERA/RIZ SARMIENTO

Company GILBANE Email rsarmiento@gilbaneco.com

Address 2730 SHADELANDS DR. City WALNUT CREEK State CA Zip 94598

Phone 925-946-3414 Fax

Project Info:
P.O. #
Project #
Project Name

Turn Around Time: ☑ Normal ☐ Rush (specify)

Reporting Units: ☐ ppmv ☐ ppbv ☑ µg/m3 ☐ mg/m3

Lab I.D.	Field Sample I.D. (Location)	Sampler #	Date of Deployment (mm/dd/yy)	Time of Deployment (hr : min)	Date of Retrieval (mm/dd/yy)	Time of Retrieval (hr : min)	Analysis Requested	Indoor Air	Outdoor Air	Workplace Monitoring	Other ( )
01A	965NP		04/16/15	1225	04/23/15	1103		☐	☐	☐	☐
02A	964NP		04/16/15	1015	04/23/15	1038		☐	☐	☐	☐
03A	915NP		04/17/15	1738	04/24/15	1250		☐	☐	☐	☐
04A	913NP		04/17/15	1230	04/24/15	1215		☐	☐	☐	☐
05A	914NP		04/17/15	1245	04/24/15	1235		☐	☐	☐	☐
								☐	☐	☐	☐
								☐	☐	☐	☐
								☐	☐	☐	☐
								☐	☐	☐	☐
								☐	☐	☐	☐
								☐	☐	☐	☐

Relinquished by: (signature) Date/Time 04/24/15 1650
Received by: (signature) Date/Time 4/25/15 0905

Relinquished by: (signature) Date/Time
Received by: (signature) Date/Time

Relinquished by: (signature) Date/Time
Received by: (signature) Date/Time

Sample Site Air Temperature:

Notes:

Lab Use Only

Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
FedEx		8.2°C	SPK	Yes / No / (None)	1504453

4/25/15

eurofins | Air Toxics

SAMPLE RECEIPT SUMMARY

WORKORDER 1504459R1

Client

Mr. Thomas Beer
Gilbane Company
2730 Shadelands Drive
Suite 100
Walnut Creek, CA 94598

Phone

925-946-3100

Fax

925-256-8998

Sales Rep: N/A

Date Promised: 07/06/15
Date Completed: 7/13/15
Date Received: 4/25/15
PO#: J163006400-002
Project#:

Total $: $ 0.00
Logged By: MH

Fraction	Sample #	Analysis	Collected	Amount$
01A	765NP	Passive S.E. RAD130/SKC	4/16/2015	$0.00
02A	764NP	Passive S.E. RAD130/SKC	4/16/2015	$0.00
03A	915NP	Passive S.E. RAD130/SKC	4/17/2015	$0.00
04A	913NP	Passive S.E. RAD130/SKC	4/17/2015	$0.00
05A	914NP	Passive S.E. RAD130/SKC	4/17/2015	$0.00
06A	Lab Blank	Passive S.E. RAD130/SKC	NA	$0.00
07A	LCS	Passive S.E. RAD130/SKC	NA	$0.00
07AA	LCSD	Passive S.E. RAD130/SKC	NA	$0.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: SAIA/20267

BILL TO: Mr. Thomas Beer
Gilbane Company
2730 Shadelands Drive
Suite 100
Walnut Creek, CA 94598

Analysis Code: Other GC

TERMS: NET 45

Reporting Method: Passive SE GC/MS (Sp)-Gilbane (SAIA) v2

Sample Discrepancy Report

Identification

Initiated By: MS **Project ID:**20267 **PM**: KV **Date:** 4/27/2015 **Discrepancy Type:** ☐ **1.** ☒ **2.** ☐ **3.**

Workorder(s) affected:1504459 **Sample(s) affected:** 01A-05A

1. Sample Receipt Discrepancies

Narration Not Required:

1.1. ☐ Sample container (cartridge/tube/VOA vial) was received broken, however sample was intact.
1.2. ☐ No brass cap on canister.
1.3. ☐ Date of Collection noted on first sample, but no arrow down to indicate all samples.

Notify Lab for further determination:

1.4. ☐ Tedlar bag received with minimal volume.

Initials: _____ Date: _____

Narration Required in Lab Narrative and Sample Confirmation:

1.5. ☐ COC was not filled out in ink.
1.6. ☐ COC improperly relinquished / received.
1.7. ☐ Sample tags / can numbers do not match the COC.
1.8. ☐ Sample date ☐ error / ☐ missing on COC but noted on sample tag (check one).
1.9. ☐ Custody Seal on the outside of the container was ☐ broken / ☐ improperly placed (check one).
1.10. ☐ ID-none on the sample Tag/Blank
1.11. ☐ Other (describe below).

Describe the Discrepancy: _____

2. Sample Receipt/Screening Discrepancies requiring PM notification

Document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative

If Section II. is filled out PM must be notified within 24 hrs of initiation

2.1. ☐ COC was not received with samples.
2.2. ☐ Analysis method(s) is ☐ not specified / ☐ incorrectly specified (check one) on the COC.
2.3. ☐ Incorrect sampling media / container for analysis requested.
2.4. ☐ Number of samples on the COC does not match the number of samples that were received.
2.5. ☐ Samples were received expired.
2.6. ☐ Sampling date (time for sulfur) is not documented for ☐ *some* / ☐ *any* samples (check one).
2.7. ☐ Sample received with amount of H_2O in the Tedlar Bag.
2.8. ☐ Sample cannot be analyzed. Container was ☐ received broken / ☐ leaking / ☐ flat / ☐ defective.
2.9. ☐ Tedlar bag / canister received emitting a strong odor; Sample ☐ can / ☐ cannot (check one) be analyzed.
2.10. ☐ Tedlar Bag for Sulfur analysis has metal fitting.
2.11. ☐ Environmental Supply Company valves
2.12. ☐ Sorbent samples-sampling volume was not provided
2.13. ☐ Flow controller used – canister samples received at ambient or under pressure.
2.14. ☐ Canister was at ambient pressure at time of pressurization and (check all that apply):
- ☐ Canister failed leak check on two manifolds,
- ☐ Canister valve was open,
- ☐ Brass nut was loose/not present.
- ☐ Sample can be analyzed
- ☐ Cannot be analyzed

2.15. ☐ Canister sample received with a vacuum difference >5.0"Hg between the receipt vac. And the final vac. reported on the COC, indicating loss of vacuum.
2.16. ☐ Canister sample received at >15"Hg (*not* identified as a Trip/Field Blank).
2.17. ☐ Canister Trip Blank received at low vacuum (<25"Hg).
2.18. ☒ Sorbent Sample received outside method required temperature of 2°C to 6°C; ☐ ice / ☒ blue ice (check one) was present. A temp. Blank ☐ was / ☒ was not present (check one).
2.19. ☐ Flow Controller RPD of = 20% was not met.
2.20. ☐ Other (describe below)

Initials: **MS** **Date:** **4/27/2015** **Notify Receiving:** ☐ **Notify PM:** ☐

Describe the Discrepancy: Temperature of samples at receivinf was measured to be 8.2 C

3. Lab Discrepancies requiring Team Leader/PM notification

Document in Analytical Notes of Lab Narrative

If Section III. is filled out PM must be notified within 24 hrs of initiation

3.1. ☐ Tedlar Bag found to be leaking at the time of analysis; sample ☐ can / ☐ cannot (check one) be analyzed.

3.2. ☐ Tedlar Bag found to be flat/low volume; sample cannot be analyzed.

3.3. ☐ Sulfur samples received with insufficient time to analyze prior to expiration.

3.4. ☐ Canister found to be leaking at the time of analysis.

3.5. ☐ VOST tube saturated; bag dilution necessary.

3.6. ☐ Sample loss due to instrument malfunction / broken glassware.

3.7. ☐ Low/high surrogate recoveries noted in QC/sample(s) for extractable samples.

3.8. ☐ Reporting Limit was raised.

3.9. ☐ Post weight > Pre weight in field/lab Blank for PM10/TSP samples.

3.10. ☐ Other (describe below).

Initials: _____ **Date:** _____ **Notify Receiving:** ☐ **Notify PM:** ☐ _____

Team Lead Initials: _____ **Date:** _____

Describe the Discrepancy: _____

_____

_____

How Does this Affect Client: _____

_____

_____

Project Manager Use Only

Project Manager Notification ☒ **Section 2 Complete** ☐ **Section 3 Complete**

Action:

☒ It is not necessary to notify the client. Narrate the discrepancy in Receiving Notes/Analytical Notes of Lab Narrative.

PM Initials:KCB Date: 4/28/2015

☐ Client notification required. See attached client contact / email, or comments below:

Client Notification:

PM Initials:_____ Person notified: _____ Date: _____

☐ Waiting for Client Reply

Comments: _____

_____

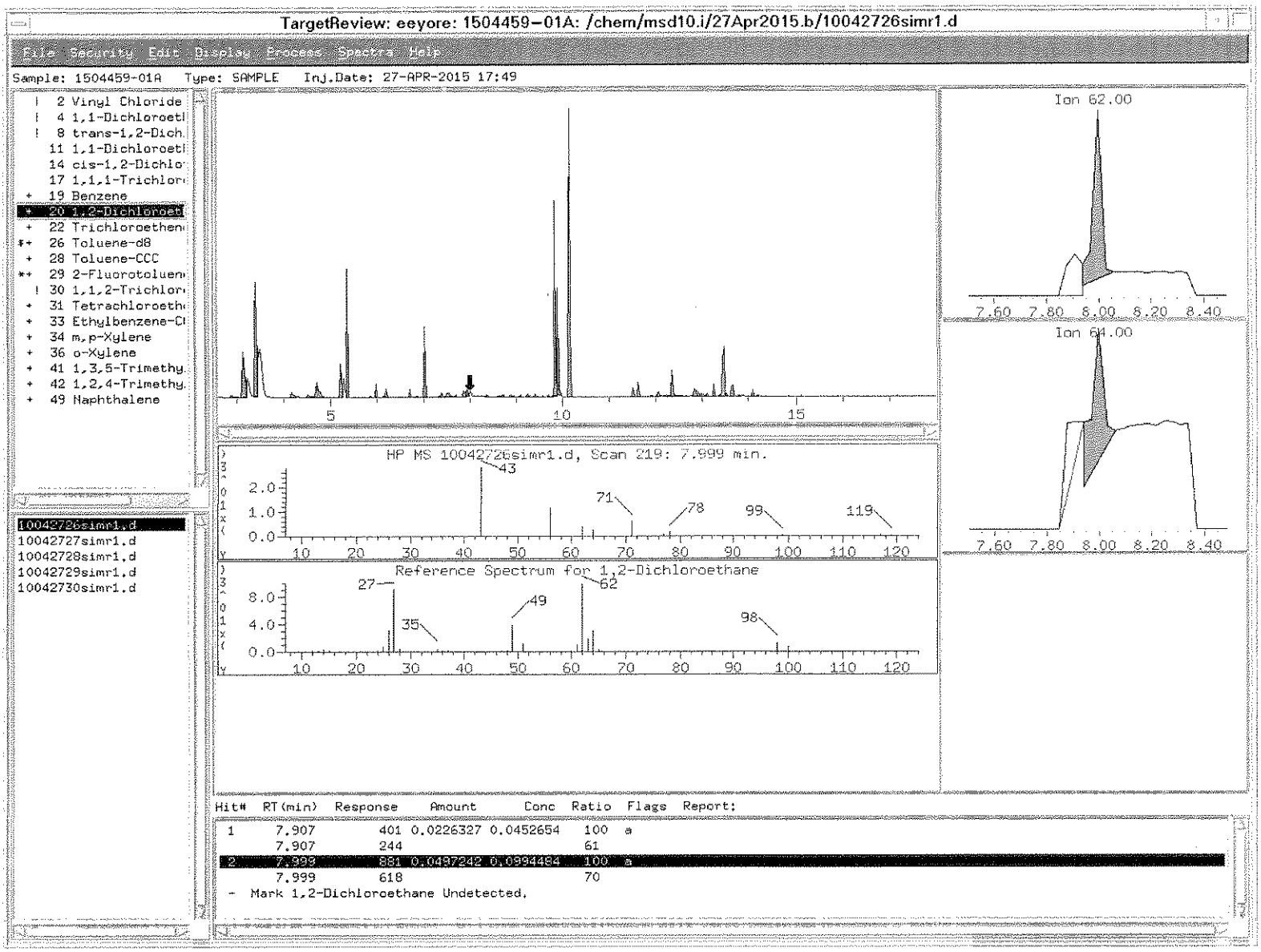
☐ Notify Lab Name: _____ Date: _____ **Notify Receiving:** ☐ _____

☐ **Additional notifications attached.**

Additional Comments:

_____

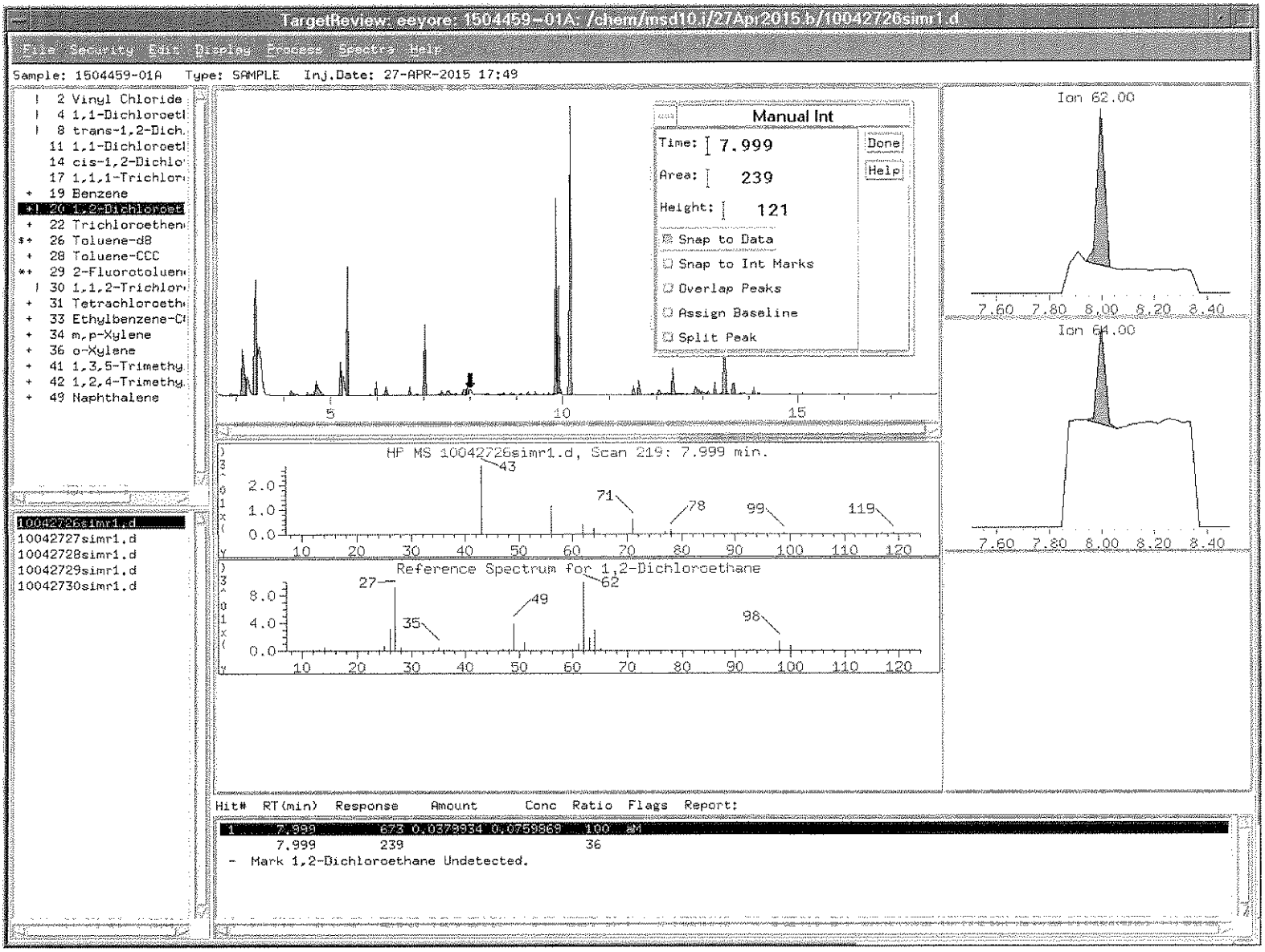
Other Records



Before

gm

7/13/15



After

Correct Baseline	
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	

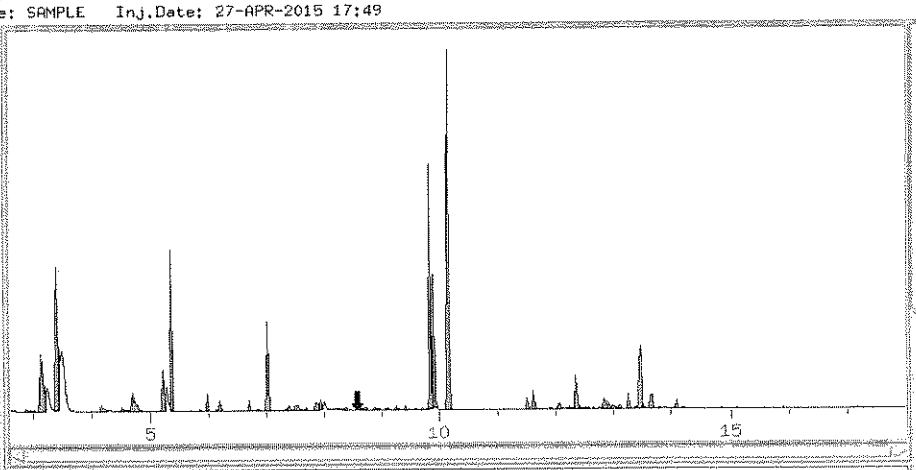
7/13/15

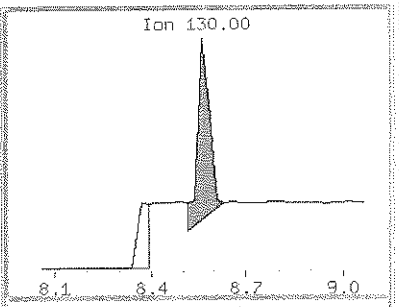
TargetReview: eeyore: 1504459-01A: /chem/msd10.i/27Apr2015.b/10042726simr1.d

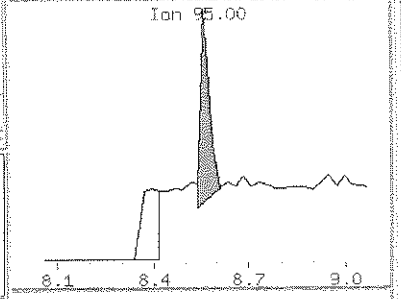
File Security Edit Display Process Spectra Help

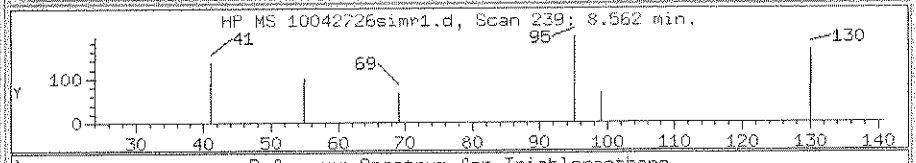
Sample: 1504459-01A Type: SAMPLE Inj.Date: 27-APR-2015 17:49

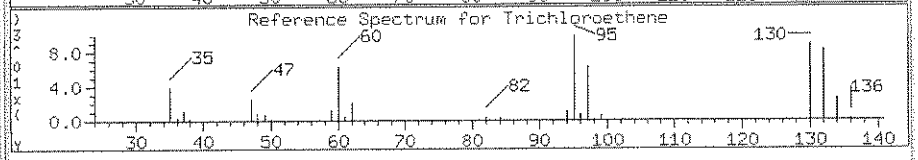
!	2	Vinyl Chloride
!	4	1,1-Dichloroeth
!	8	trans-1,2-Dich
	11	1,1-Dichloroeth
	14	cis-1,2-Dichlo
	17	1,1,1-Trichlor
+	19	Benzene
+!	20	1,2-Dichloroeth
$	22	Trichloroethen
$+	26	Toluene-d8
+	28	Toluene-CCC
*+	29	2-Fluorotoluen
!	30	1,1,2-Trichlor
+	31	Tetrachloroeth
+	33	Ethylbenzene-C
+	34	m,p-Xylene
+	36	o-Xylene
+	41	1,3,5-Trimethy
+	42	1,2,4-Trimethy
+	49	Naphthalene











10042726simr1.d
10042727simr1.d
10042728simr1.d
10042729simr1.d
10042730simr1.d

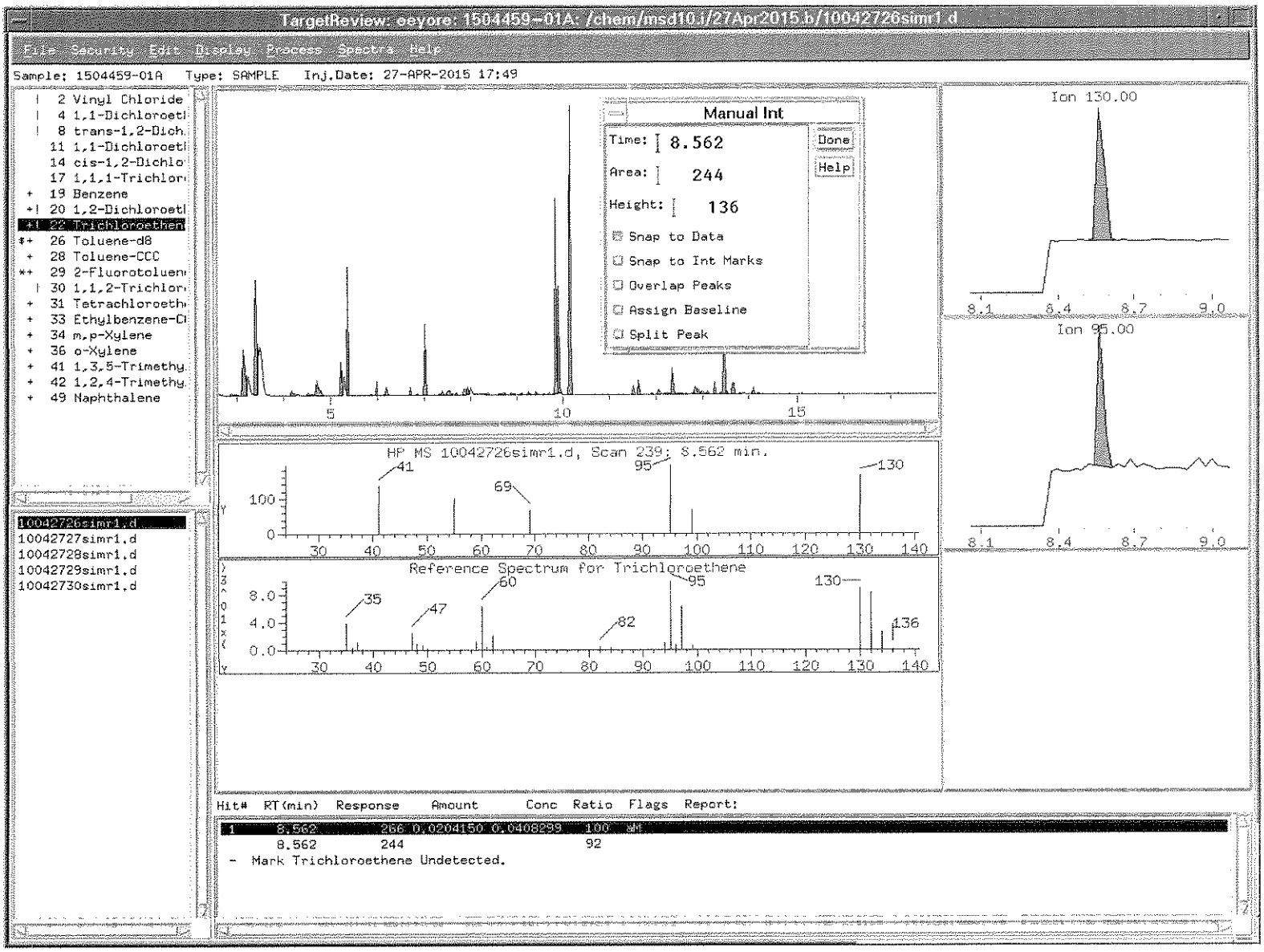
Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	8.369	149	0.0114311	0.0228622	100	a	
	8.393	254			170		
2	8.562	352	0.0270050	0.0540101	100	a	
	8.562	302			86		

- Mark Trichloroethene Undetected.

Before

9m

7/13/15



After	
Correct Baseline	✓
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	

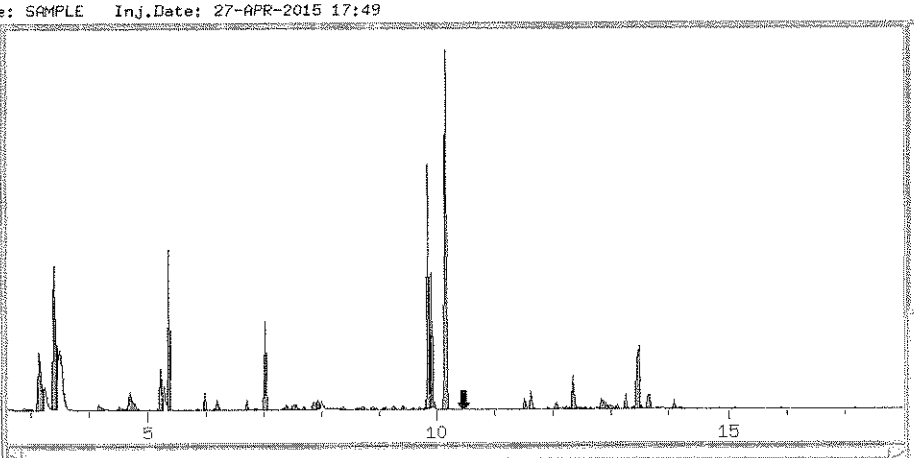
9m
7/13/15

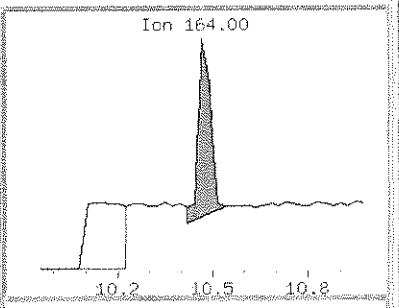
TargetReview: eeyore: 1504459-01A: /chem/msd10.i/27Apr2015.b/10042726simr1.d

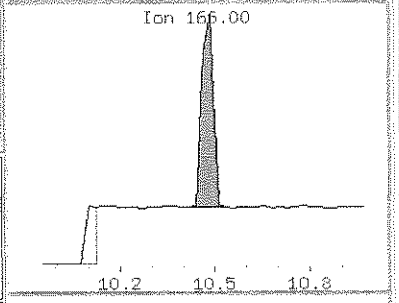
File Security Edit Display Process Spectra Help

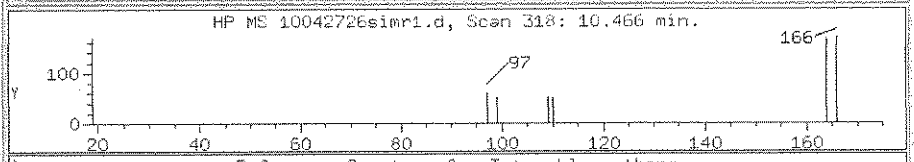
Sample: 1504459-01A Type: SAMPLE Inj.Date: 27-APR-2015 17:49

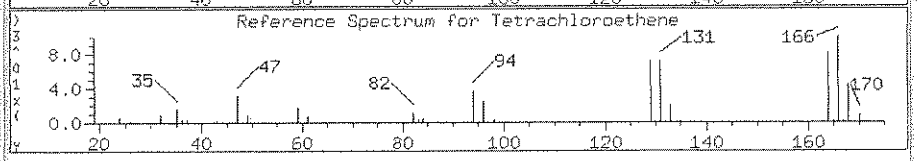
	2	Vinyl Chloride
	4	1,1-Dichloroeth
	8	trans-1,2-Dich
	11	1,1-Dichloroeth
	14	cis-1,2-Dichlo
	17	1,1,1-Trichlor
+	19	Benzene
+|	20	1,2-Dichloroeth
+|	22	Trichloroethen
$+	26	Toluene-d8
+	28	Toluene-CCC
*+	29	2-Fluorotoluen
|	30	1,1,2-Trichlor
+	31	Tetrachloroeth
+	33	Ethylbenzene-C
+	34	m,p-Xylene
+	36	o-Xylene
+	41	1,3,5-Trimethy
+	42	1,2,4-Trimethy
+	49	Naphthalene









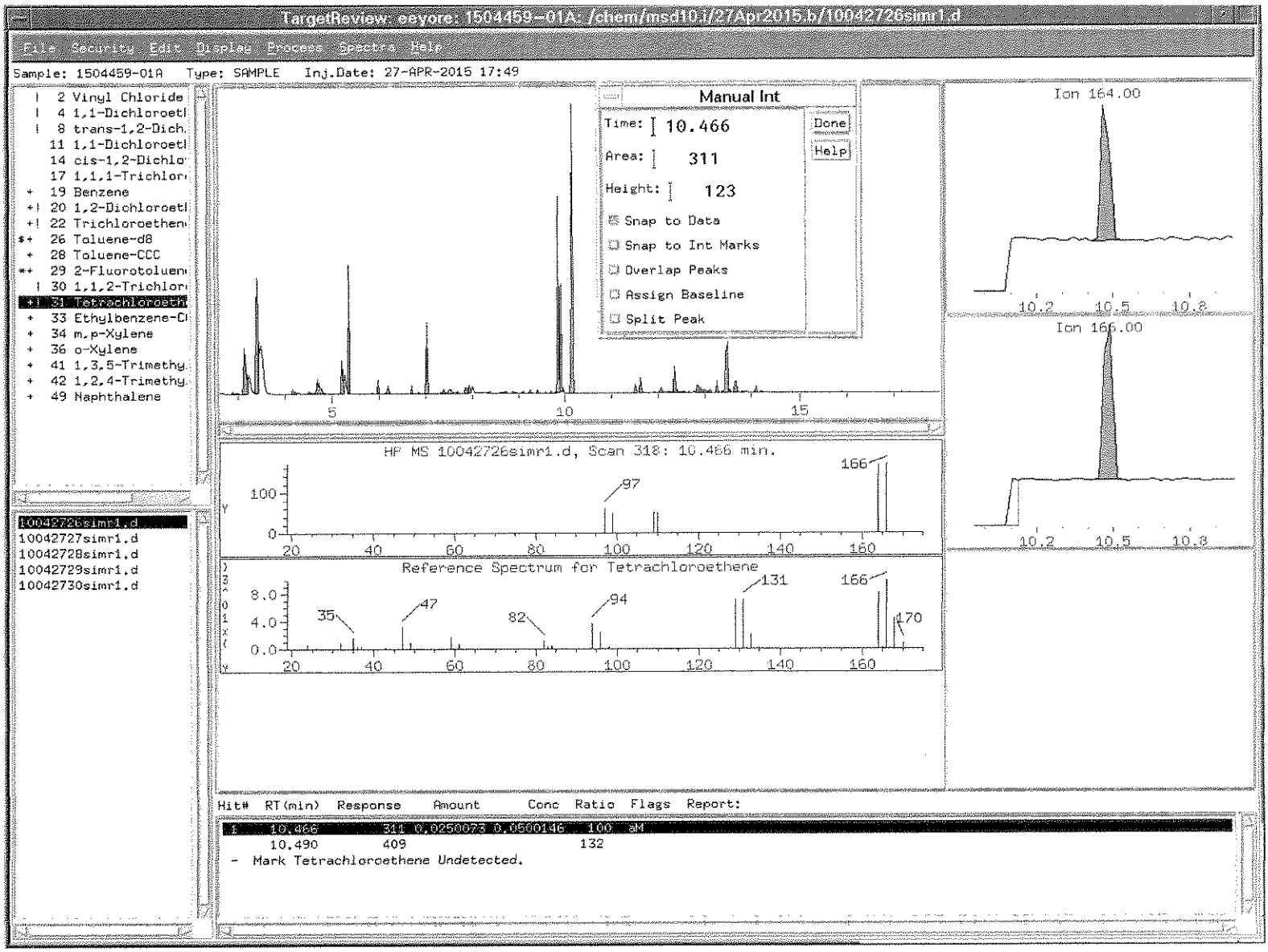


10042726simr1.d
10042727simr1.d
10042728simr1.d
10042729simr1.d
10042730simr1.d

Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	10.128	409	0.0328900	0.0657800	100	a	
	10.104	134			33		
2	10.466	367	0.0295125	0.0590250	100	a	
	10.490	409			111		

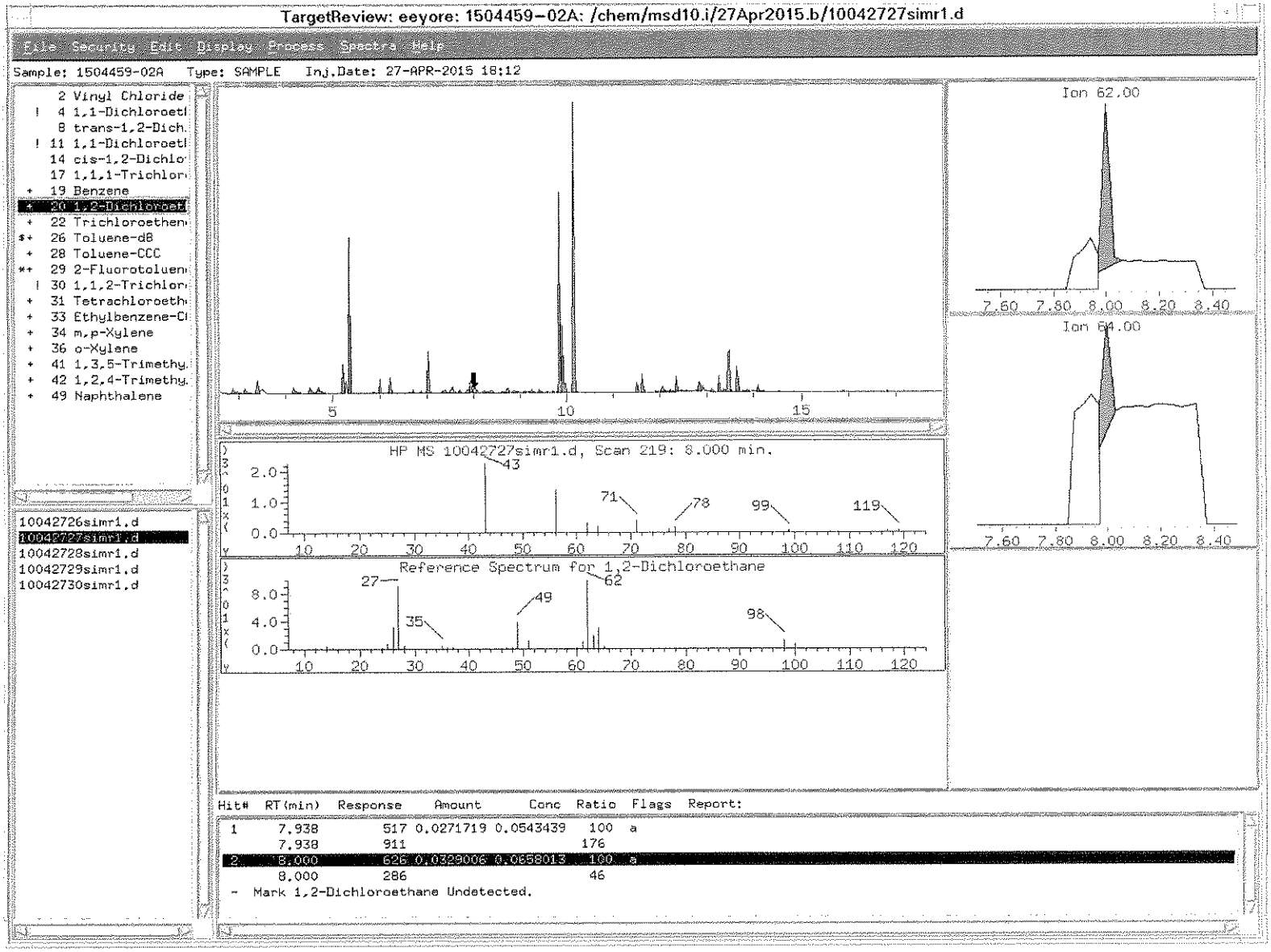
- Mark Tetrachloroethene Undetected.

Before
gm
7/13/15



After	
Correct Baseline	✓
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	

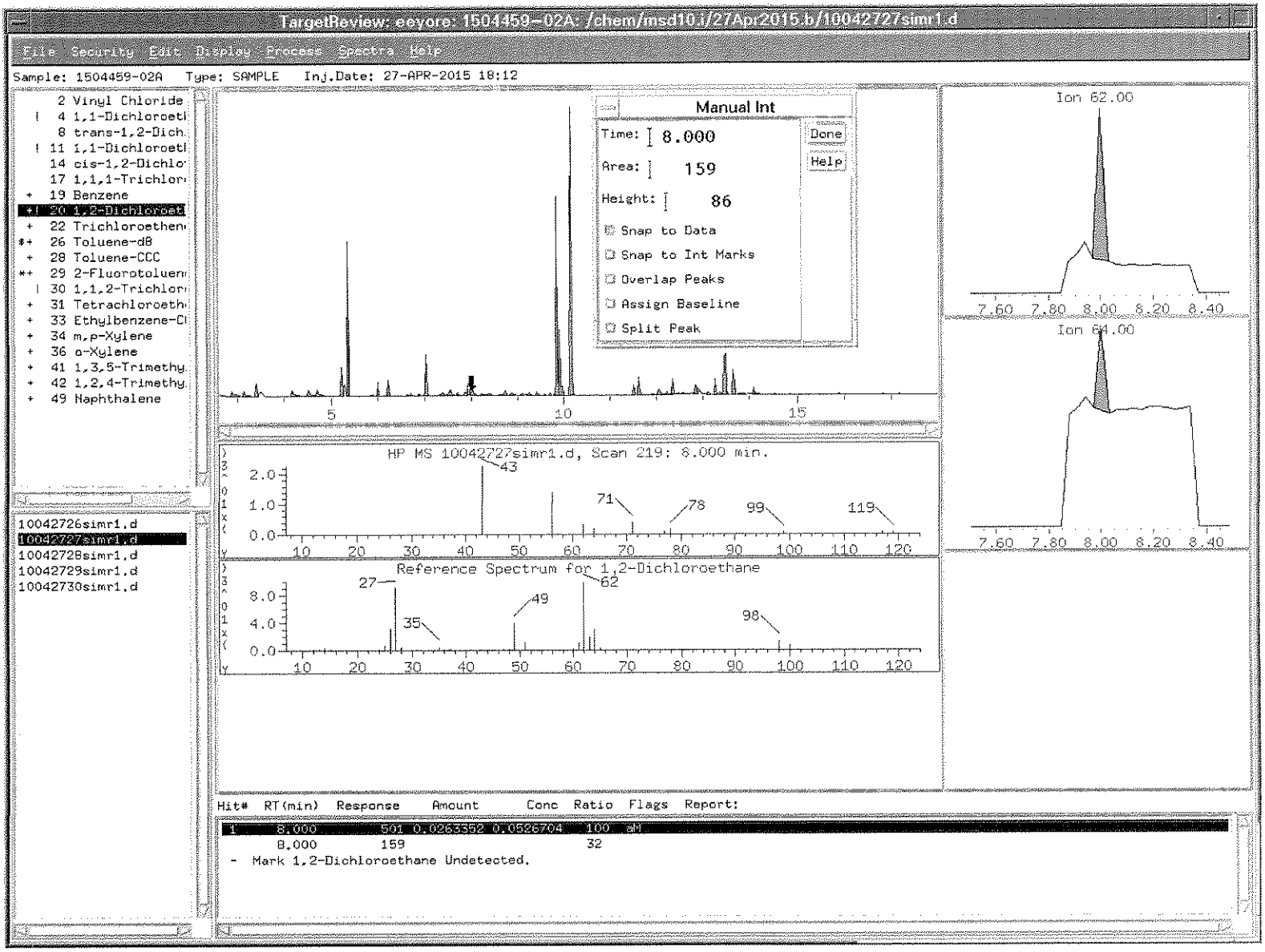
7/13/15



Before

gm

7/13/15



After

Correct Baseline	✓
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	

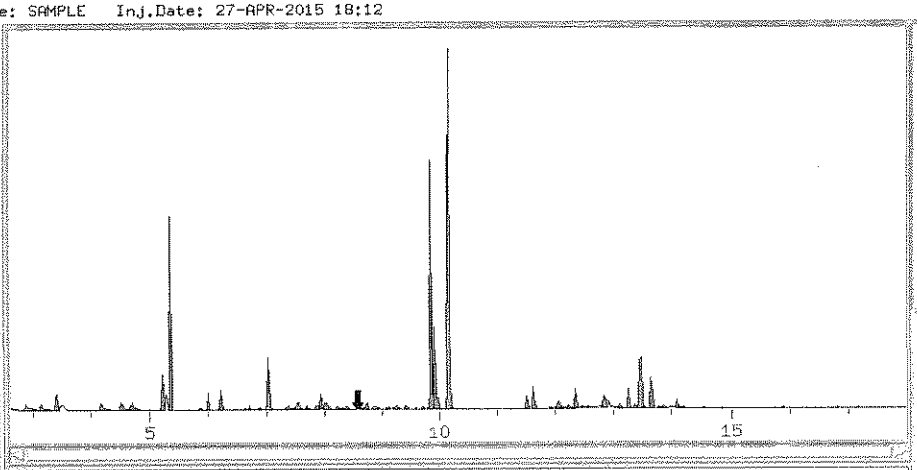
JM
7/13/15

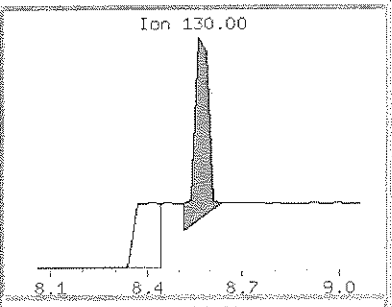
TargetReview: eeyore: 1504459-02A: /chem/msd10.i/27Apr2015.b/10042727simr1.d

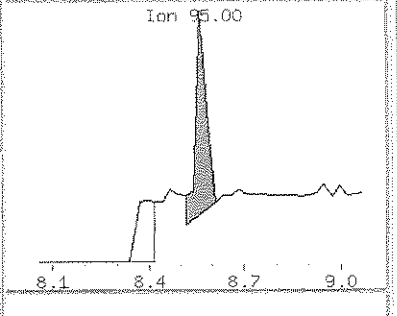
File Security Edit Display Process Spectra Help

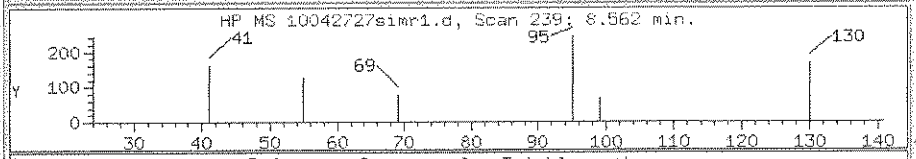
Sample: 1504459-02A Type: SAMPLE Inj.Date: 27-APR-2015 18:12

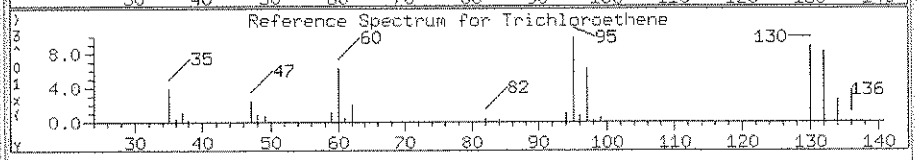
2 Vinyl Chloride
! 4 1,1-Dichloroeth
8 trans-1,2-Dich
! 11 1,1-Dichloroeth
14 cis-1,2-Dichlo
17 1,1,1-Trichlor
+ 19 Benzene
+! 20 1,2-Dichloroeth
+ 22 Trichloroethen
$+ 26 Toluene-d8
+ 28 Toluene-CCC
*+ 29 2-Fluorotoluen
! 30 1,1,2-Trichlor
+ 31 Tetrachloroeth
+ 33 Ethylbenzene-C
+ 34 m,p-Xylene
+ 36 o-Xylene
+ 41 1,3,5-Trimethy
+ 42 1,2,4-Trimethy
+ 49 Naphthalene









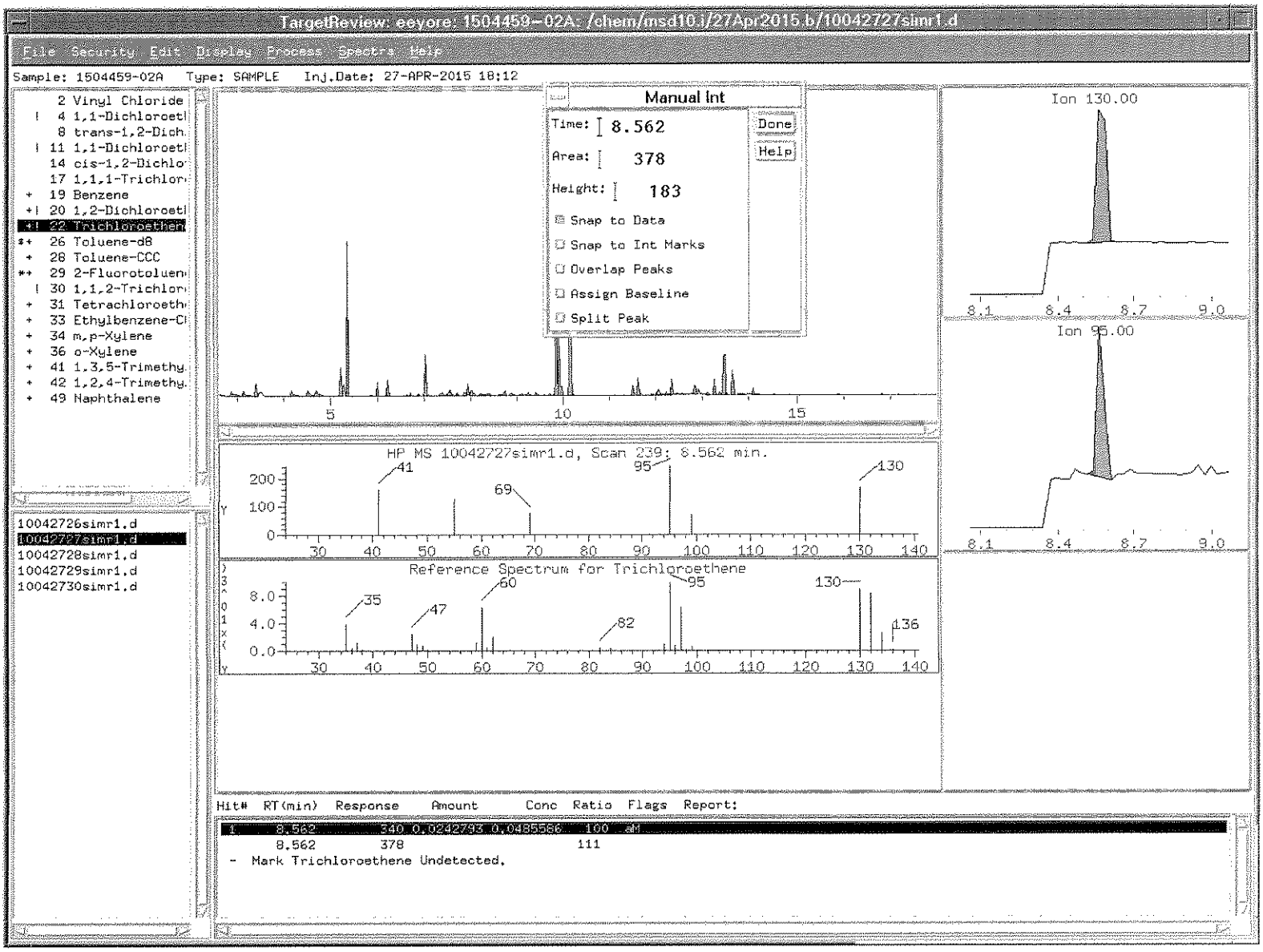


10042726simr1.d
10042727simr1.d
10042728simr1.d
10042729simr1.d
10042730simr1.d

Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	8.418	286	0.0204318	0.0408636	100	a	
	8.393	281			98		
2	8.562	426	0.0304334	0.0608667	100	a	
	8.562	483			113		

- Mark Trichloroethene Undetected.

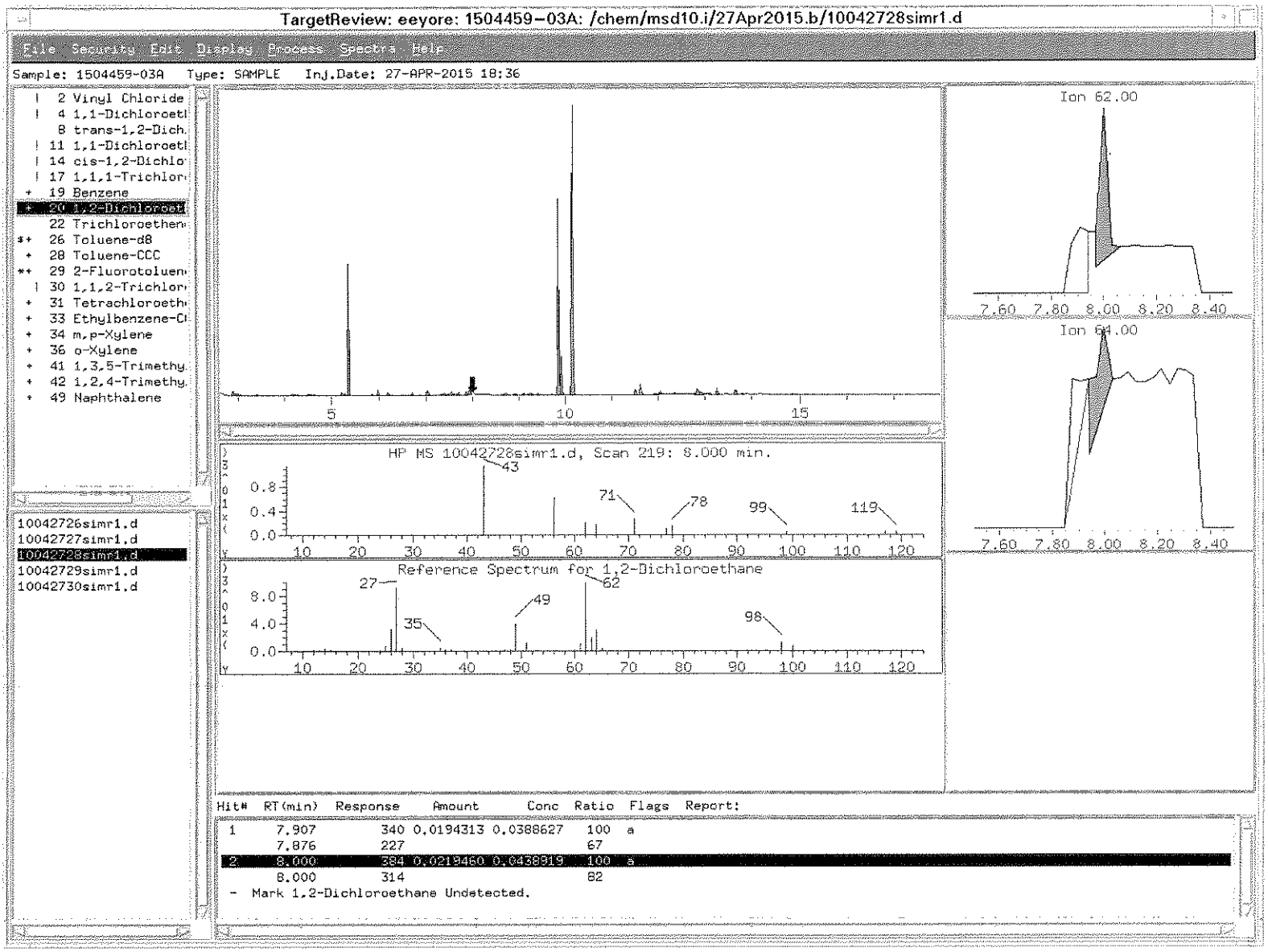
Before
gm
7/13/15



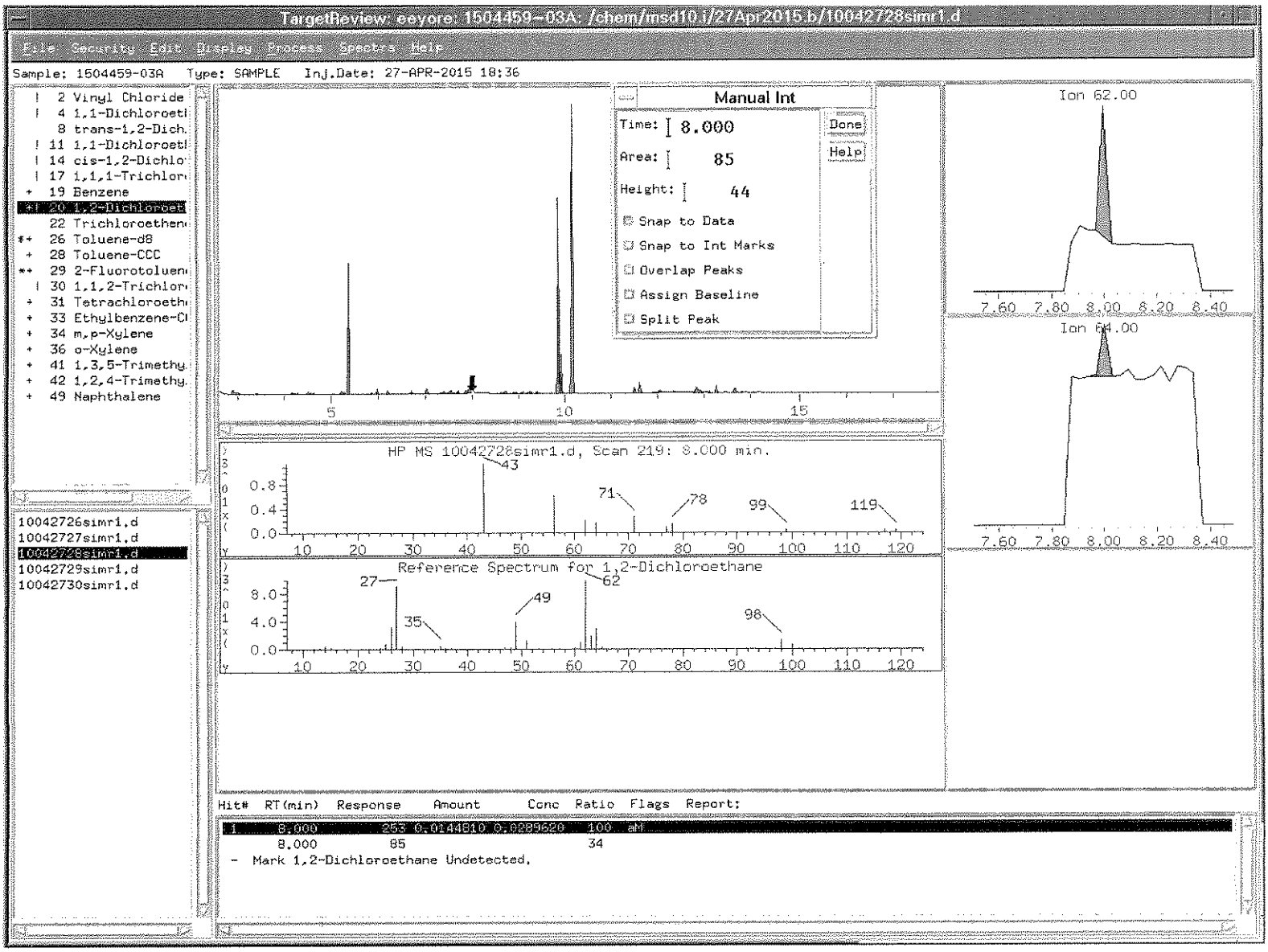
After

Correct Baseline	✓
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	

9m
7/13/15



Before
gm
7/13/15



After

Correct Baseline	
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	

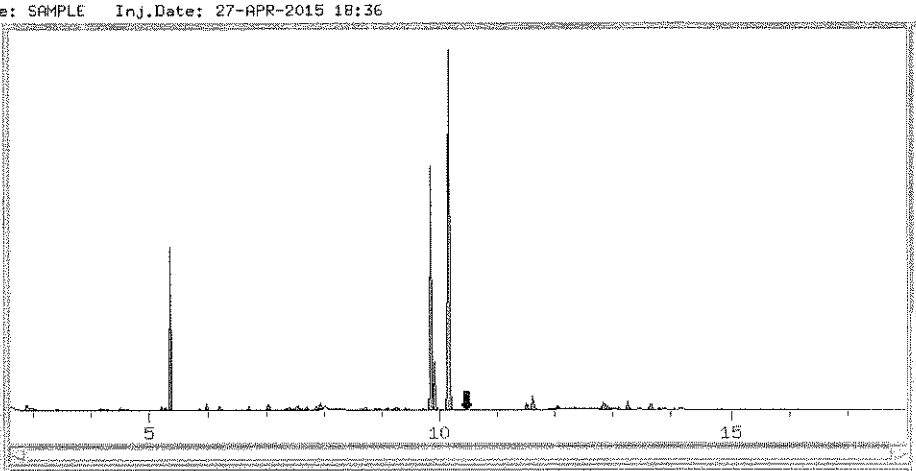
7/13/15

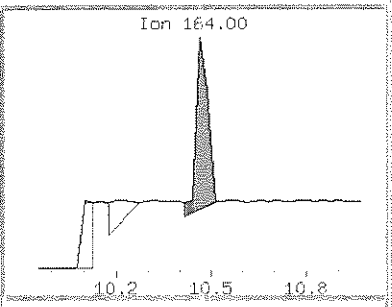
TargetReview: eeyore: 1504459-03A: /chem/msd10.i/27Apr2015.b/10042728simr1.d

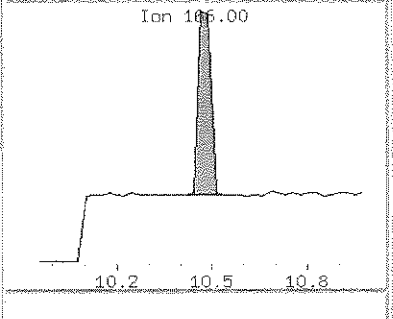
File Scoring Edit Display Process Spectra Help

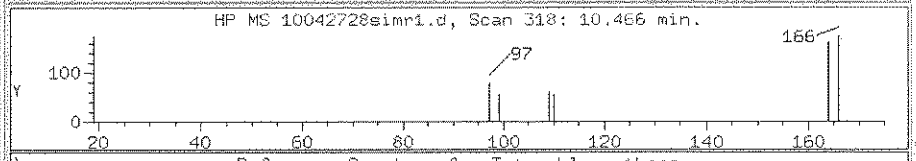
Sample: 1504459-03A Type: SAMPLE Inj.Date: 27-APR-2015 18:36

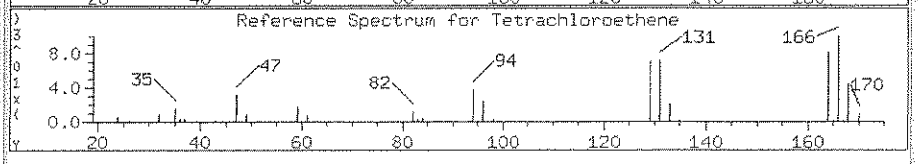
	2	Vinyl Chloride
	4	1,1-Dichloroeth
	8	trans-1,2-Dich
	11	1,1-Dichloroeth
	14	cis-1,2-Dichlo
	17	1,1,1-Trichlor
+	19	Benzene
+|	20	1,2-Dichloroeth
	22	Trichloroethen
$+	26	Toluene-d8
+	28	Toluene-CCC
#+	29	2-Fluorotoluen
	30	1,1,2-Trichlor
+	31	Tetrachloroeth
+	33	Ethylbenzene-C
+	34	m,p-Xylene
+	36	o-Xylene
+	41	1,3,5-Trimethy
+	42	1,2,4-Trimethy
+	49	Naphthalene







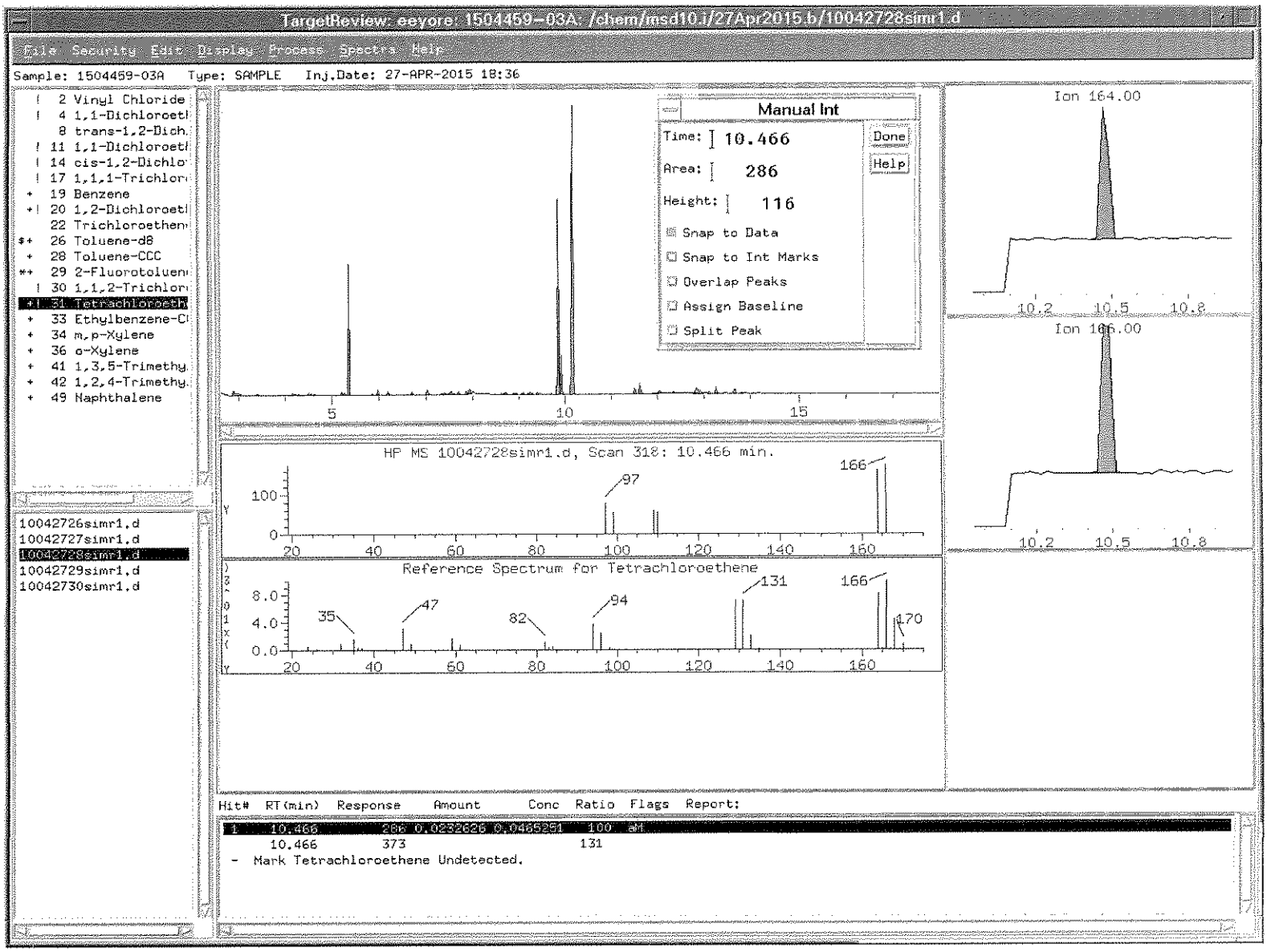




10042726simr1.d
10042727simr1.d
10042728simr1.d
10042729simr1.d
10042730simr1.d

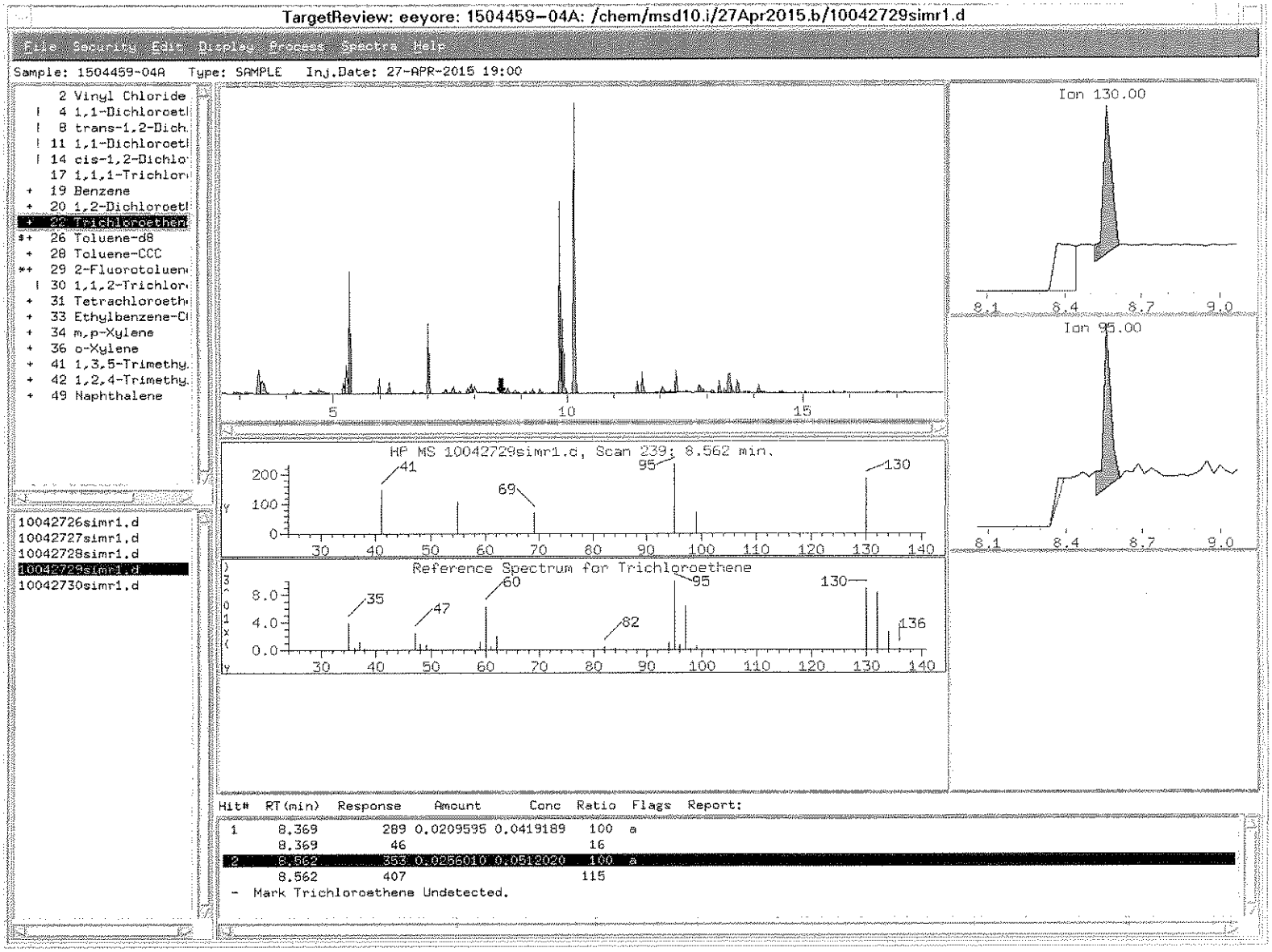
Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	10.104	135	0.0109927	0.0219855	100	a	
	10.466	373			274		
2	10.201	90	0.00732849	0.0146570	100	a	
	10.466	373			413		
3	10.466	325	0.0264640	0.0529280	100	a	
	10.466	373			115		

BE for
9m
7/13/15

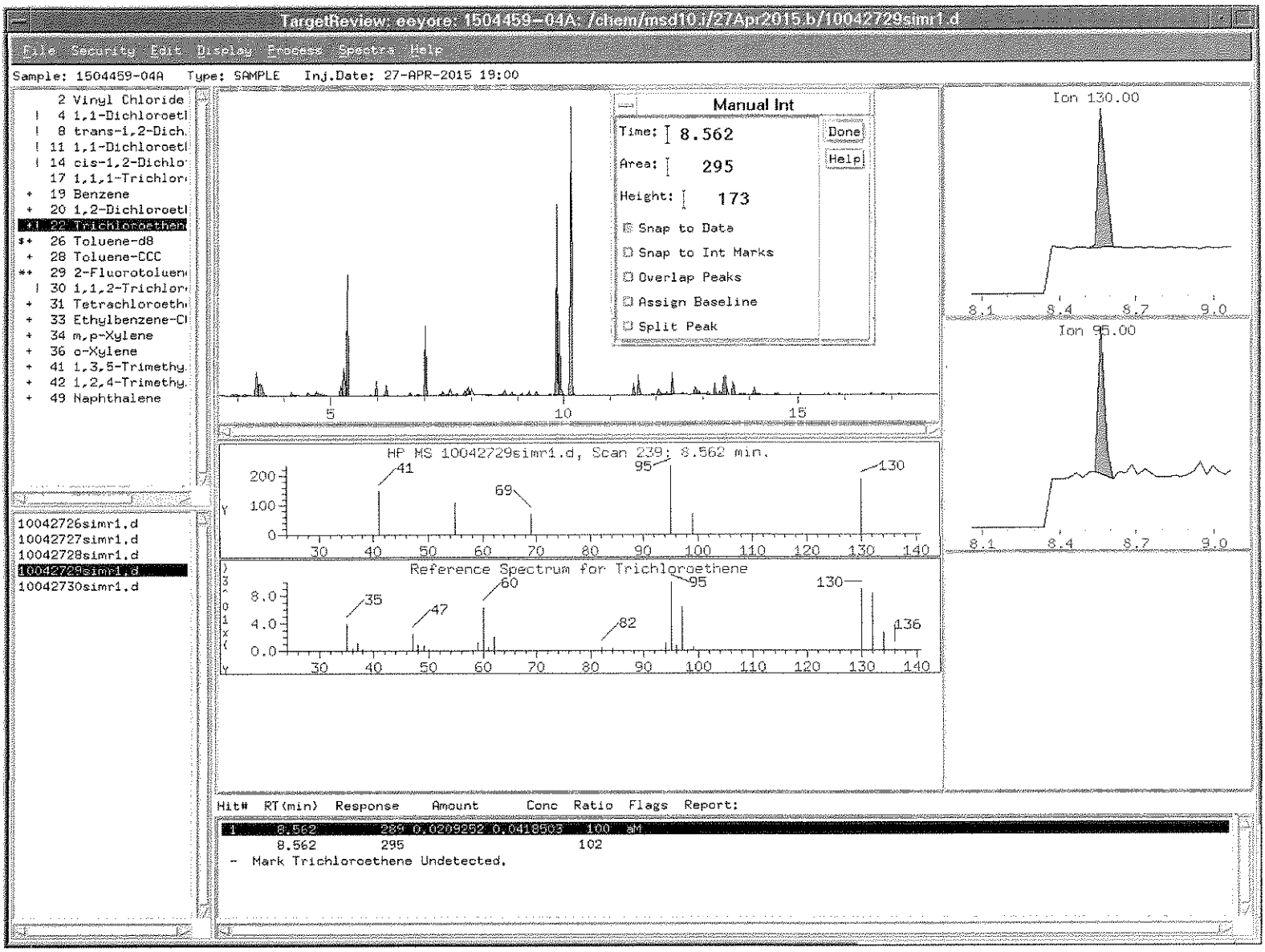


After	
Correct Baseline	✓
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	

gm
7/13/15



Before
gm
7/13/15



After	
Correct Baseline	✓
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	

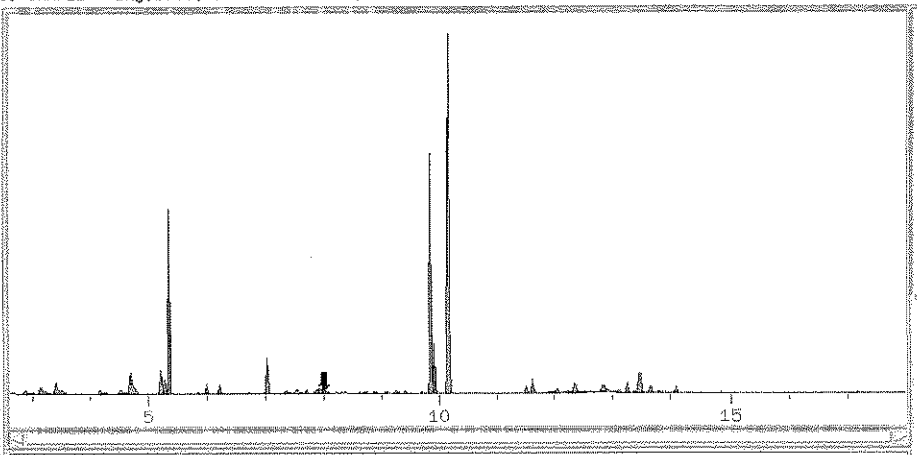
gm 7/13/15

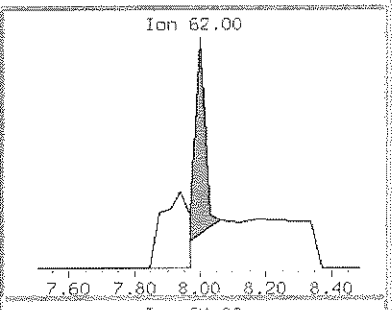
TargetReview: eeyore: 1504459-05A: /chem/msd10.i/27Apr2015.b/10042730simr1.d

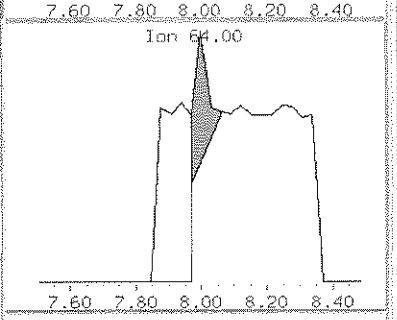
File Security Edit Display Process Spectra Help

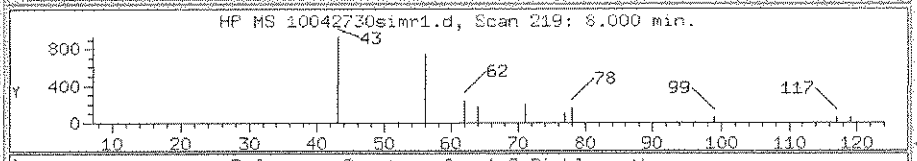
Sample: 1504459-05A Type: SAMPLE Inj.Date: 27-APR-2015 19:24

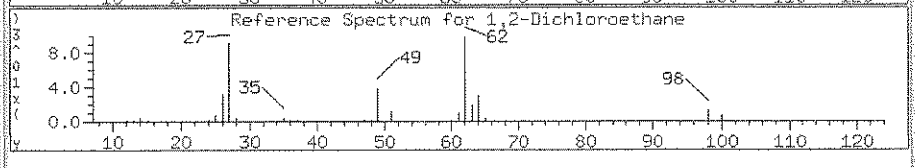
2 Vinyl Chloride
4 1,1-Dichloroeth
8 trans-1,2-Dich
11 1,1-Dichloroeth
14 cis-1,2-Dichlo
17 1,1,1-Trichlor
19 Benzene
20 1,2-Dichloroet
22 Trichloroethen
26 Toluene-d8
28 Toluene-CCC
29 2-Fluorotoluen
30 1,1,2-Trichlor
31 Tetrachloroeth
33 Ethylbenzene-Cl
34 m,p-Xylene
36 o-Xylene
41 1,3,5-Trimethy
42 1,2,4-Trimethy
49 Naphthalene









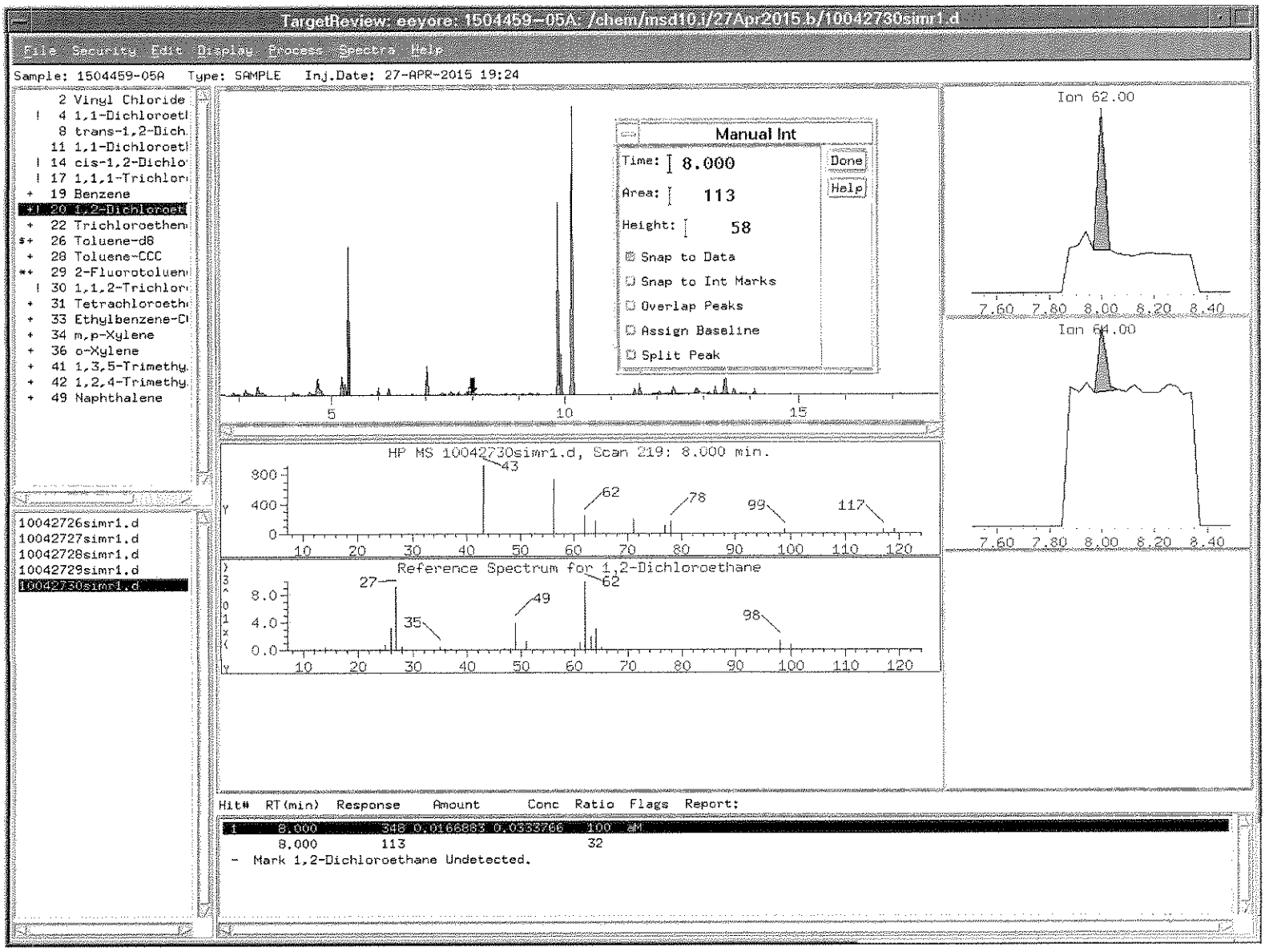


10042726simr1.d
10042727simr1.d
10042728simr1.d
10042729simr1.d
10042730simr1.d

Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	7.938	471	0.0226058	0.0452117	100	a	
	7.938	900			191		
2	8.000	456	0.0218859	0.0437718	100	a	
	8.000	305			67		

- Mark 1,2-Dichloroethane Undetected.

Before
gm
7/13/15



After

Correct Baseline	✓
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	

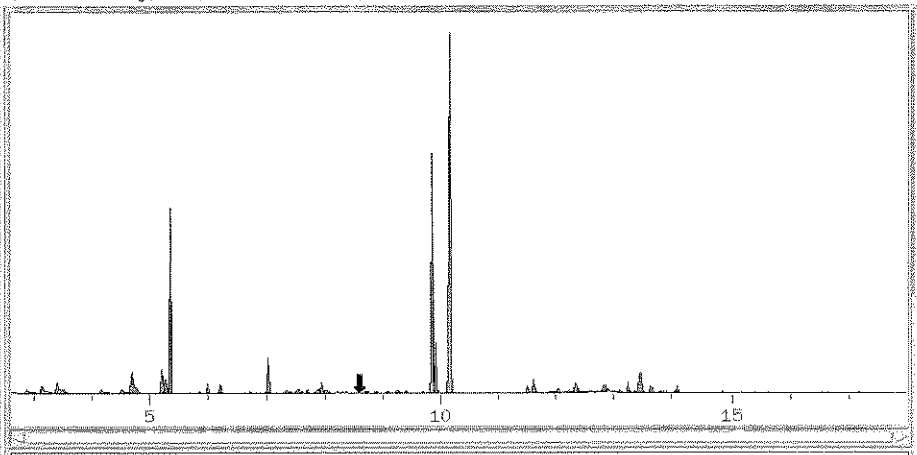
7/13/15

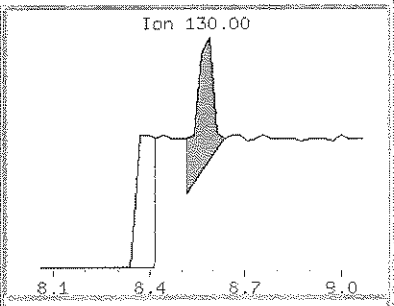
TargetReview: eeyore: 1504459-05A: /chem/msd10.i/27Apr2015.b/10042730simr1.d

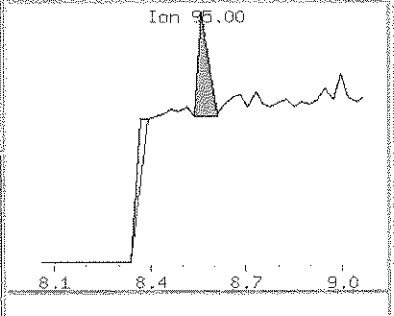
File Security Edit Display Process Spectra Help

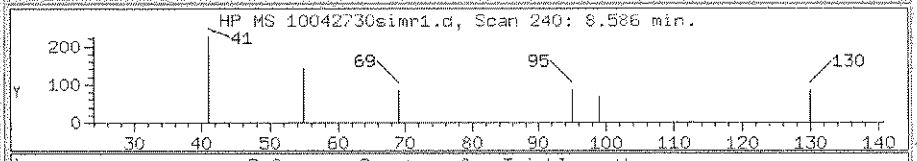
Sample: 1504459-05A Type: SAMPLE Inj.Date: 27-APR-2015 19:24

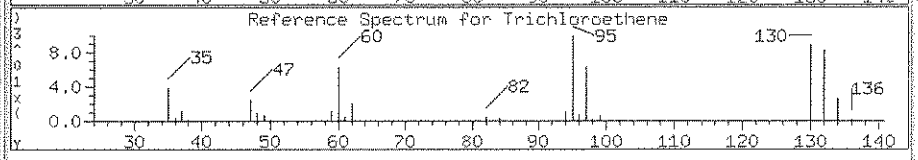
2 Vinyl Chloride
! 4 1,1-Dichloroeth
8 trans-1,2-Dich
11 1,1-Dichloroeth
! 14 cis-1,2-Dichlo
! 17 1,1,1-Trichlor
+ 19 Benzene
+! 20 1,2-Dichloroeth
* 22 Trichloroethen
$+ 26 Toluene-d8
+ 28 Toluene-CCC
** 29 2-Fluorotoluen
! 30 1,1,2-Trichlor
+ 31 Tetrachloroeth
+ 33 Ethylbenzene-C
+ 34 m,p-Xylene
+ 36 o-Xylene
+ 41 1,3,5-Trimethy
+ 42 1,2,4-Trimethy
+ 49 Naphthalene









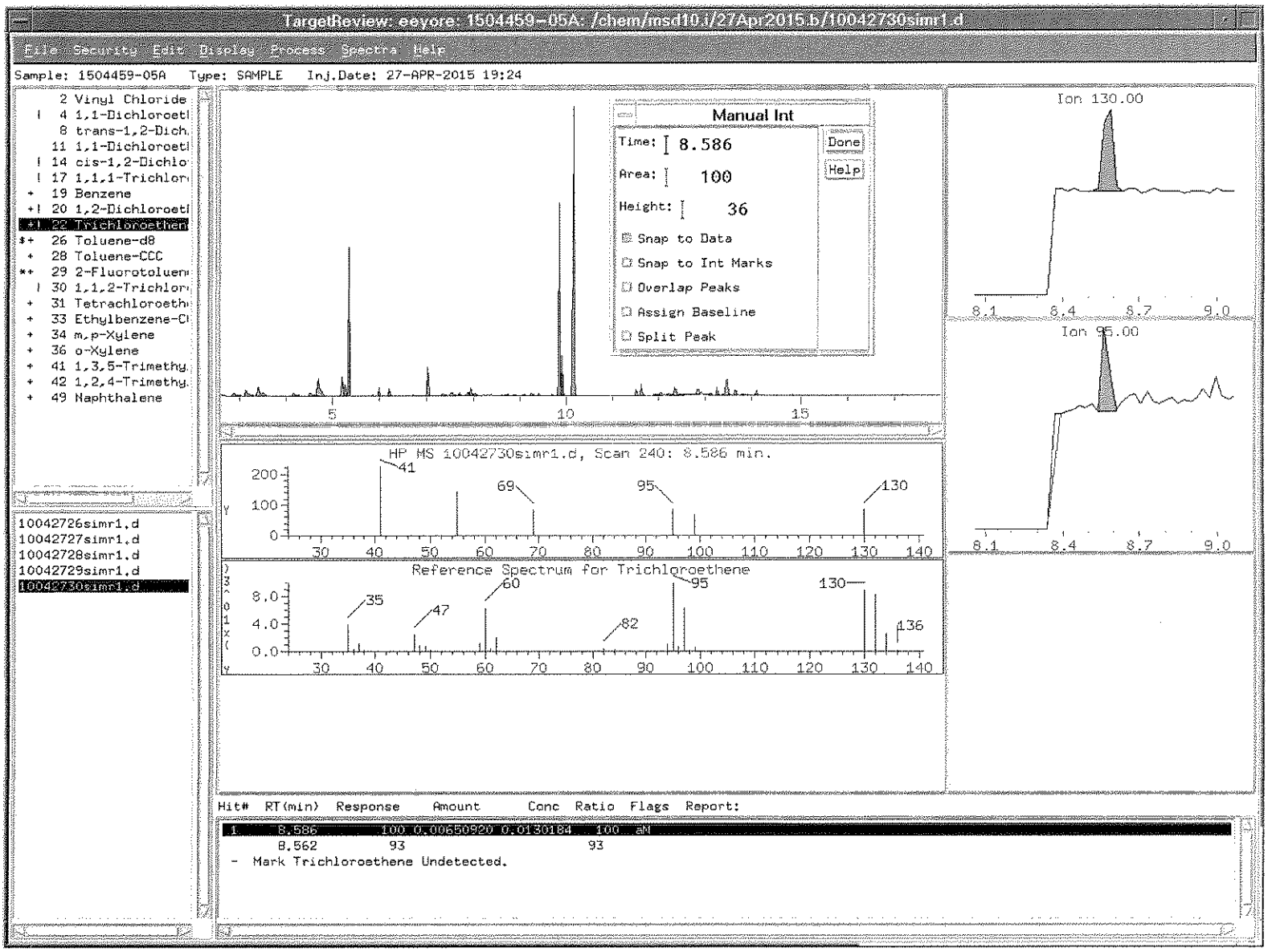


10042726simr1.d
10042727simr1.d
10042728simr1.d
10042729simr1.d
10042730simr1.d

Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	8.369	221	0.0144179	0.0288358	100	a	
	8.369	50			23		
2	8.586	186	0.0121345	0.0242690	100	a	
	8.562	93			50		

- Mark Trichloroethene Undetected.

Before
gm
7/13/15



After	
Correct Baseline	✓
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	

gm 7/13/15

Compound List

Passive SE GC/MS (Sp)-Gilbane (SAIA) v2

CAS Number	Compound	Detection Limit ug	Type
71-55-6	1,1,1-Trichloroethane	0.10	
71-43-2	Benzene	0.40	
107-06-2	1,2-Dichloroethane	0.10	
79-01-6	Trichloroethene	0.10	
108-88-3	Toluene	0.10	
127-18-4	Tetrachloroethene	0.10	
100-41-4	Ethyl Benzene	0.10	
108-38-3	m,p-Xylene	0.10	
95-47-6	o-Xylene	0.10	
91-20-3	Naphthalene	0.10	
75-34-3	1,1-Dichloroethane	0.10	
75-35-4	1,1-Dichloroethene	0.40	
156-59-2	cis-1,2-Dichloroethene	0.10	
156-60-5	trans-1,2-Dichloroethene	0.20	
79-00-5	1,1,2-Trichloroethane	0.10	
95-63-6	1,2,4-Trimethylbenzene	0.10	
108-67-8	1,3,5-Trimethylbenzene	0.10	
75-01-4	Vinyl Chloride	0.40	
2037-26-5	Toluene-d8		

Eurofins Air Toxics, Inc.	Data Review Checklist			Release Date: 03/26/15
Workorder # 1504459	Form F1.27	Revision #11	Revision date: 03/26/15	Page 1 of 2

S1	S2	S3	S4	D	***Section 1* – Spec Out**				
					Initials/Instrument/Date	**S1:** MSD +0 JM 4/28/15	**S2:**	**S3:**	**S4:**
✓				■	Project Identification (PID), Project Requirements Table (PRT), Daily QC and ICAL met Criteria				
MM				■	Lumen QC and ICAL evaluation (ref. SOP/Method) report initialed and in folder				
✓				■	Manual Integrations included and approved				
✓				✓	Chain of Custody verified for special comments (add comments below)				
MM				■	Non-standard Target sublist printed				

Profile, analyses, reporting, special notes and unusual circumstances:

1,1-DCE ✓ MM LCS

A1	A2	A3	A4	D	***Section 2* – Sample Analysis**				
				✓	**Initials/Date**	**A1:** JM 4/28/15	**A2:**	**A3:**	**A4:**
✓				✓	Internal Standard/Surrogate Recoveries, Dilution Factors, Load Volumes, Initial/Final Pressures, and Canister #s Verified				
MM				MM	**a)** Tedlar Bag IDs verified against COC **b)** Tedlar Bag ID confirmed with loading sequence/leg of instrument				
✓				✓	Manual Integrations/Bag or Can Dilution Forms/Re-pressurization Forms/Bag-Can Transfer Forms present (circle all that apply)				
✓				■	12/24 Hr clock time & Hold Time met for all samples				
MM				MM	Re-analysis of sample(s) have been evaluated for comparability and/or samples have been checked for trends (Inf/Eff).				
✓				✓	All runs have been evaluated for potential carry-over (TPHg/non-Target/over-range compounds etc)				

Analytical and special notes:

J Flag to the MDL

D1	D2	D3	D4	T	3T	***Section 3* – Target Data Reduction**	**Technical Review Needed? Circle one: Yes/No**		**T:**	
						Initials/Instrument/ Date	**D1:** JM 5/8/15	**D2:**	**D3:**	**D4:**
MM					■	CAR # *(if applicable)*				
✓					■	Spectra Verified *(documentation of spectral defense included if applicable)*				
MM					■	TICs resemble reference spectra/ TICs between sample dups. are consistent *(if applicable)*				
✓						Lab Narrative is correct				
MM					■	TPH/NMOC calculations complete and included in folder				

Special notes:

A	3T	***Section 4*- Atlas Data Entry**	**Lumen verified and included in folder**	**Circle one: Yes/No**
		Initials/Date: JM 5/8/15	**3rd Tier:** *(needed only for DOD or per client request)*	
MM		Sample Discrepancy Report (SDR) complete and approved *(if applicable)*		
✓		Manually entered results are checked		
✓		At least one result per sample is verified against Target quant sheets		
✓		Appropriate data qualifier flags are applied		
✓		Final Invoice is correct/ Final PDF report, COC and EDD reviewed and correct		

Special Notes:

Note (1) *Please check all the appropriate boxes. Indicate "NA" for any statement that doesn't apply*
Note (2) 3rd Tier Report Reviewer and Write Up Reviewer must be separate individuals for DoD & Client Specific Projects

Workorder # :	Reason for Reissue:
150459R1	to perform manual integrations

W	T	3T	Q	
✓			✓	Reissue Request form Present
✓			✓	Client or QA or Lab contact present with reason for reissue
✓			✓	Review all affected data
✓			✓	Report header has correct R1, R2 etc
✓			–	The Lab Narrative clearly explains the reissue (Date, Reason and whether client requested)
✓			✓	Date for Reissue in Report Header matches date in Lab Narrative
✓			✓	Check Project Profile for correct reporting instructions (multiple clients, # hardcopies, etc)
NA			–	Corrective Action issued - #
✓			–	The reissued workorder has been approved by QA Manager or a Technical Director

Additional Comments:

Write Up (Initials/Date)	**Tech Review** (Initials/Date)	***3rd Tier Review** ** 3rd Tier Report Review is for DoD & Client Specific projects only* (Initials/Date)	**QA Review** (Initials/Date)
jm 7/13/15			7/14/15

Workorder # :	Reason for Reissue:

W	T	3T	Q	
				Reissue Request form Present
				Client or QA or Lab contact present with reason for reissue
				Review all affected data
				Report header has correct R1, R2 etc
				The Lab Narrative clearly explains the reissue (Date, Reason and whether client requested)
				Date for Reissue in Report Header matches date in Lab Narrative
				Check Project Profile for correct reporting instructions (multiple clients, # hardcopies, etc)
				Corrective Action issued - #
				The reissued workorder has been approved by QA Manager or a Technical Director

Additional Comments:

Write Up (Initials/Date)	**Tech Review** (Initials/Date)	***3rd Tier Review** ** 3rd Tier Report Review is for DoD & Client Specific projects only* (Initials/Date)	**QA Review** (Initials/Date)

Note (1) *Please check all the appropriate boxes. Indicate "NA" for any statement that doesn't apply*
Note (2) 3rd Tier Report Reviewer and Write Up Reviewer must be separate individuals for DoD & Client Specific Projects

Not Applicable

Electronic Comprehensive Validation Package (eCVP)

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COMPREHENSIVE VALIDATION PACKAGE

Passive S.E. RAD130/SKC

INVENTORY SHEET

Work Order #: 1504309R2

	Page Nos.	
	From	To
1. Work Order Cover Page & Laboratory Narrative	1	5
a. Lumen Validation Report	--	--
2. Sample Results and Raw Data (Organized by Sample)	6	154
a. ATL Sample Results Form		
b. Target Compound Raw Data		
-Internal Standard Area and Retention Time Summary		
-Surrogate Recovery Summary (If Applicable)		
-Chromatogram(s) and Ion Profiles (If Applicable)		
3. QC Results and Raw Data		
a. Method Blank (Results+ Raw Data)	155	162
b. Surrogate Recover Summary Form (If Applicable)	163	163
c. Internal Standard Summary Form (If Applicable)	--	--
d. Duplicate Results Summary Sheet	164	164
e. Matrix Spike/Matrix Spike Duplicate (Results + Raw Data	--	--
f. Initial Calibration Data (Summary Sheet + Raw Data)	165	277
g. MDL Study (If Applicable)	278	280
h. Continuing Calibration Verification Data (Summary Sheet	281	286
i. Second Source LCS(Summary + Raw Data)	287	390
j. Extraction Logs	391	392
k. Instrument Run Logs/Software Verification	393	394
l. GC/MS Tune (Results + Raw Data)	395	403
4. Shipping/Receiving Documents		
a. Login Receipt Summary Sheet	404	405
b. Chain-of-Custody Records	406	406
c. Sample Log-In Sheet	407	407
d. Misc Shipping/Receiving Records (list of individual records)		
Sample Receipt Discrepancy Report	--	--
5. Other Records (describe or list)		
a. Manual Spectral Defense	--	--
b. Manual Integrations	408	420
c. Manual Calculations	--	--
d. Canister Dilution Factors	--	--
e. Laboratory Corrective Action Request	--	--
f. CAS Number Reference	421	421
g. Variance Table	--	--
h. Canister Certification	--	--
i. Data Review Check Sheet	422	423

Comments:

Completed by:

Vera Belitsky	Vera Belitsky / Document Control	7/22/15
(Signature)	(Print Name & Title)	(Date)

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eurofins | Air Toxics

WORK ORDER #: 1504309R2

Work Order Summary

CLIENT:	Mr. Thomas Beer Gilbane Company 2730 Shadelands Drive Suite 100 Walnut Creek, CA 94598	**BILL TO:**	Mr. Thomas Beer Gilbane Company 2730 Shadelands Drive Suite 100 Walnut Creek, CA 94598
PHONE:	925-946-3100	**P.O. #**	J163006400-002
FAX:	925-256-8998	**PROJECT #**	07163 - 0064 SAIA
DATE RECEIVED:	04/18/2015	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	05/01/2015		
DATE REISSUED:	07/17/2015		

FRACTION #	NAME	TEST
01A	5227-IA02-0415	Passive S.E. RAD130/SKC
02A	5230-IA01-0415	Passive S.E. RAD130/SKC
03A	5230-OA01-0415	Passive S.E. RAD130/SKC
04A	5230-FB01-0415	Passive S.E. RAD130/SKC
05A	5211-IA01-0415	Passive S.E. RAD130/SKC
06A	5211-CS01-0415	Passive S.E. RAD130/SKC
07A	5234-IA01-0415	Passive S.E. RAD130/SKC
08A	5234-CS01-0415	Passive S.E. RAD130/SKC
09A	5215-CS01-0415	Passive S.E. RAD130/SKC
10A	Lab Blank	Passive S.E. RAD130/SKC
11A	LCS	Passive S.E. RAD130/SKC
11AA	LCSD	Passive S.E. RAD130/SKC

CERTIFIED BY: DATE: 07/17/15

Technical Director

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

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LABORATORY NARRATIVE
Passive SE GC/MS
Gilbane Company
Workorder# 1504309R2

Nine Radiello 130 (Solvent) samples were received on April 18, 2015. The laboratory extracted the charcoal sorbent bed of the passive sampler using carbon disulfide. An aliquot of the extract was injected into a GC/MS for identification and quantification of volatile organic compounds (VOCs).

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value. Results are not corrected for desorption efficiency.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The uptake rates were corrected based on average field temperatures if provided. In the absence of field temperatures, the uptake rates determined at 25 deg C were used.

If validated uptake rates were not available, rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. Chemicals that are poorly retained by the sorbent over the sampling duration may exhibit a low bias. All concentrations calculated using estimated rates are qualified with a "C" flag.

To calculate ug/m3 concentrations in the Lab Blank, a sampling duration of 10155 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

The workorder was reissued on 5/10/2015 to amend the reporting list and to report estimated values for target compound hits that are below the reporting limit but greater than the method detection limit.

The workorder was reissued on July 17, 2015 for the following reasons:

1) To correct the baseline for 1,2-Dichloroethane in samples 5230-IA01-0415, 5230-FB01-0415, 5211-CS01-0415, 5234-CS01-0415; for Trichloroethene in samples 5230-FB01-0415 and for Tetrachloroethene in sample 5230-IA01-0415. The manual integrations resulted in a change in the reported values.
2) To report the correct results for Trichloroethene in sample 5227-IA02-0415.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not

performed).

J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.
C - Estimated concentration due to calculated sampling rate

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
5227-IA02-0415	1504309R2-01A	4/16/2015	4/18/2015	4/23/2015	7	4/23/2015	0	Good
5230-IA01-0415	1504309R2-02A	4/16/2015	4/18/2015	4/23/2015	7	4/23/2015	0	Good
5230-OA01-0415	1504309R2-03A	4/16/2015	4/18/2015	4/23/2015	7	4/23/2015	0	Good
5230-FB01-0415	1504309R2-04A	4/16/2015	4/18/2015	4/23/2015	7	4/23/2015	0	Good
5211-IA01-0415	1504309R2-05A	4/17/2015	4/18/2015	4/23/2015	6	4/23/2015	0	Good
5211-CS01-0415	1504309R2-06A	4/17/2015	4/18/2015	4/23/2015	6	4/23/2015	0	Good
5234-IA01-0415	1504309R2-07A	4/17/2015	4/18/2015	4/23/2015	6	4/23/2015	0	Good
5234-CS01-0415	1504309R2-08A	4/17/2015	4/18/2015	4/23/2015	6	4/23/2015	0	Good
5215-CS01-0415	1504309R2-09A	4/17/2015	4/18/2015	4/23/2015	6	4/23/2015	0	Good
Lab Blank	1504309R2-10A	NA	NA	4/23/2015	NA	4/23/2015	0	Good
LCS	1504309R2-11A	NA	NA	4/23/2015	NA	4/23/2015	0	Good
LCSD	1504309R2-11A	NA	NA	4/23/2015	NA	4/23/2015	0	Good

Sample Results and Raw Data

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Summary of Detected Compounds
VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: 5227-IA02-0415

Lab ID#: 1504309R2-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Benzene	0.40	0.48	0.51	0.61
1,2-Dichloroethane	0.10	0.12	0.090 J	0.11 J
Toluene	0.10	0.13	1.4	1.8
Tetrachloroethene	0.10	0.16	0.072 J	0.12 J
Ethyl Benzene	0.10	0.14	0.31	0.44
m,p-Xylene	0.10	0.14	0.74	1.0
o-Xylene	0.10	0.15	0.24	0.36
1,2,4-Trimethylbenzene	0.10	0.19	0.21	0.40
1,3,5-Trimethylbenzene	0.10	0.18	0.060 J	0.11 J

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Client Sample ID: 5227-IA02-0415

Lab ID#: 1504309R2-01A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**c042309simr2**	**Date of Collection: 4/16/15 1:02:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/15 12:35 PM**	
		Date of Extraction: 4/23/15	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
1,1,1-Trichloroethane	0.10	0.15	Not Detected	Not Detected
Benzene	0.40	0.48	0.51	0.61
1,2-Dichloroethane	0.10	0.12	0.090 J	0.11 J
Trichloroethene	0.10	0.14	Not Detected	Not Detected
Toluene	0.10	0.13	1.4	1.8
Tetrachloroethene	0.10	0.16	0.072 J	0.12 J
Ethyl Benzene	0.10	0.14	0.31	0.44
m,p-Xylene	0.10	0.14	0.74	1.0
o-Xylene	0.10	0.15	0.24	0.36
Naphthalene	0.10	0.38	Not Detected	Not Detected
1,1-Dichloroethane	0.10	0.15	Not Detected C	Not Detected C
1,1-Dichloroethene	0.40	0.50	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.15	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.32	Not Detected C	Not Detected C
1,1,2-Trichloroethane	0.10	0.14	Not Detected C	Not Detected C
1,2,4-Trimethylbenzene	0.10	0.19	0.21	0.40
1,3,5-Trimethylbenzene	0.10	0.18	0.060 CJ	0.11 CJ
Vinyl Chloride	0.40	0.43	Not Detected C	Not Detected C

J = Estimated value.
C = Estimated concentration due to calculated sampling rate.

Temperature = 89.6F , duration time = 10052 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	112	70-130

Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msdc.i/23Apr2015.b/c042309simr2.d
Lab Smp Id: 1504309R2-01A
Inj Date : 23-APR-2015 12:35
Operator : gm Inst ID: msdc.i
Smp Info : ;1504309R2-01A;
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Meth Date : 26-Jun-2015 14:36 gmash Quant Type: ISTD
Cal Date : 15-APR-2015 11:23 Cal File: c041509sim.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Gilbane.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
2	Vinyl Chloride	62	Compound Not Detected.					
4	1,1-Dichloroethene-CCC	96	Compound Not Detected.					
8	trans-1,2-Dichloroethene	96	Compound Not Detected.					
11	1,1-Dichloroethane-SPCC	63	Compound Not Detected.					
14	cis-1,2-Dichloroethene	96	Compound Not Detected.					
17	1,1,1-Trichloroethane	97	Compound Not Detected.					
19	Benzene	78	8.603	8.603	(0.783)	14373	0.25529	0.510584
20	1,2-Dichloroethane	62	8.696	8.696	(0.791)	1166	0.04507	0.0901421(a)
22	Trichloroethene	130	Compound Not Detected.					
$ 25	Toluene-d8	98	10.656	10.656	(0.969)	299121	5.60571	11.2114
26	Toluene-CCC	92	10.729	10.728	(0.976)	31516	0.68377	1.36753
* 27	2-Fluorotoluene	109	10.994	10.993	(1.000)	324177	5.00000	
28	1,1,2-Trichloroethane	97	Compound Not Detected.					
29	Tetrachloroethene	164	11.331	11.331	(1.031)	766	0.03612	0.0722493(a)
31	Ethylbenzene-CCC	106	12.377	12.377	(1.126)	4658	0.15716	0.314327
33	m,p-Xylene	106	12.506	12.506	(1.138)	15427	0.37198	0.743951

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
34 o-Xylene	106	12.956	12.956	(1.178)	3983	0.12084	0.241686
40 1,3,5-Trimethylbenzene	105	13.834	13.834	(1.258)	2222	0.02986	0.0597263(aM)
41 1,2,4-Trimethylbenzene	105	14.174	14.174	(1.289)	9769	0.10411	0.208220
48 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Report Date: 13-Jul-2015 13:44

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042309simr2.d
Lab Smp Id: 1504309R2-01A
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

Calibration Date: 23-APR-2015
Calibration Time: 09:09
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	324554	162277	649108	324177	-0.12

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	10.99	10.49	11.49	10.99	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 23Apr2015
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 1504309R2-01A
Level: MED Operator: gm
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS-CM.spk Quant Type: ISTD
Sublist File: Gilbane.sub
Method File: /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 25 Toluene-d8	10.0000	11.2114	112.11	70-130

Data File: /chem/msdc.i/23Apr2015.b/c042309simr2.d

Date : 23-APR-2015 12:35

Client ID:

Instrument: msdc.i

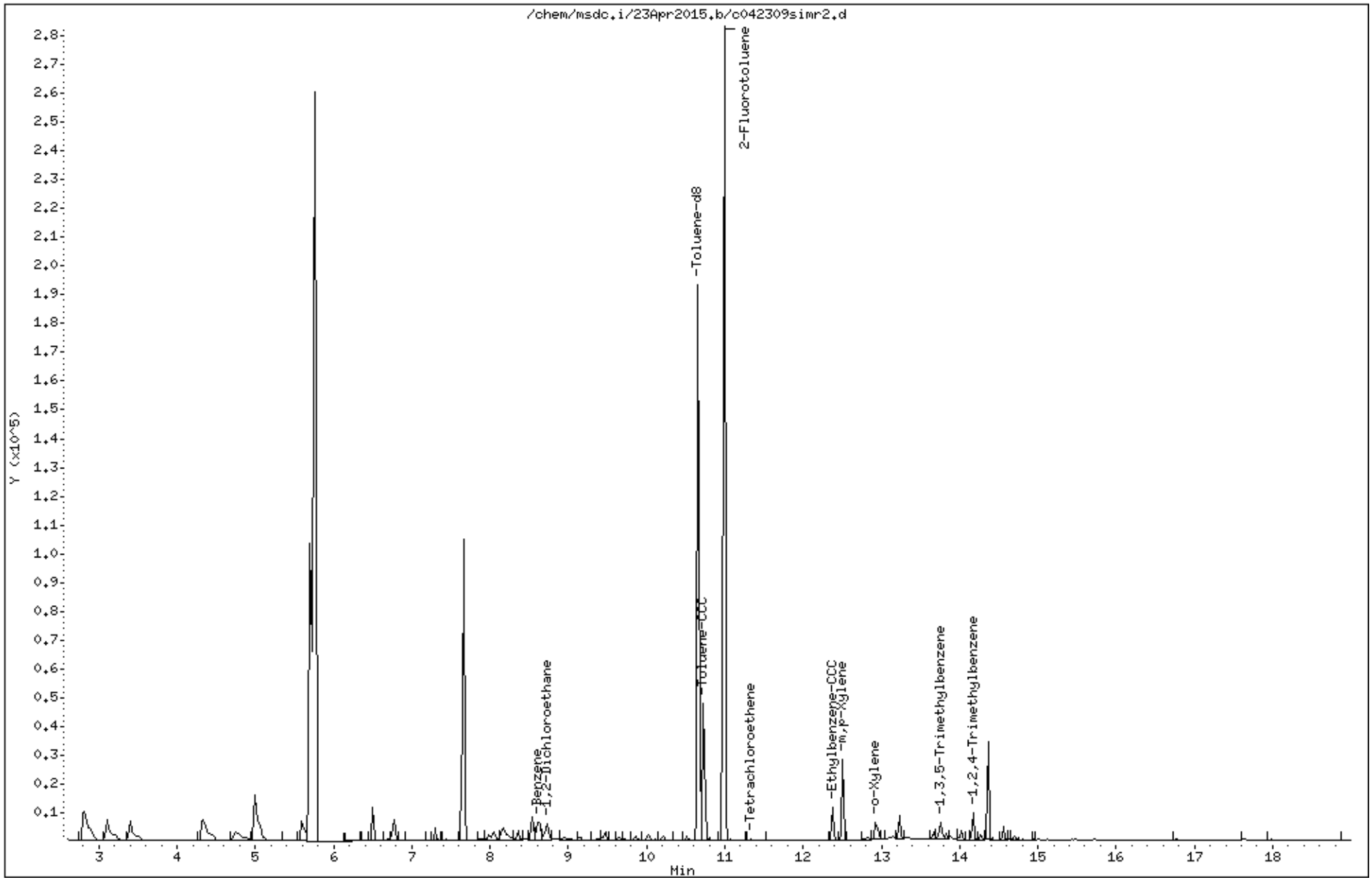
Sample Info: ;1504309R2-01A;

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdc.i/23Apr2015.b/c042309simr2.d

Date : 23-APR-2015 12:35

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-01A;

Volume Injected (uL): 1.0

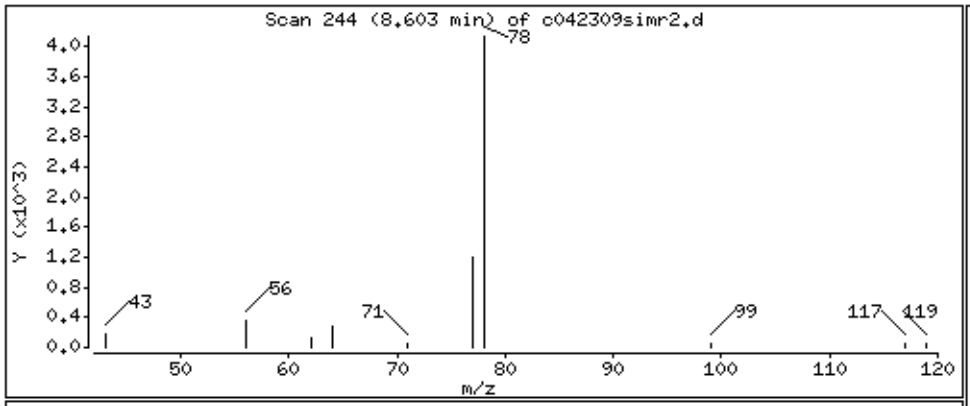
Operator: gm

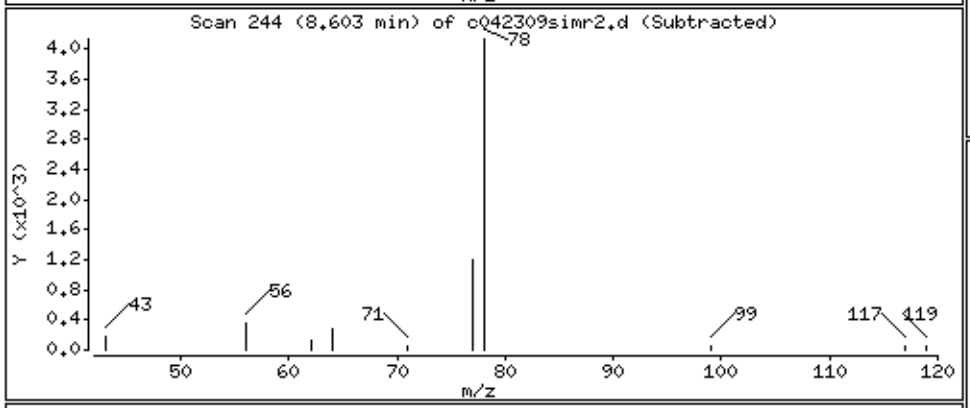
Column phase: DB-5.625

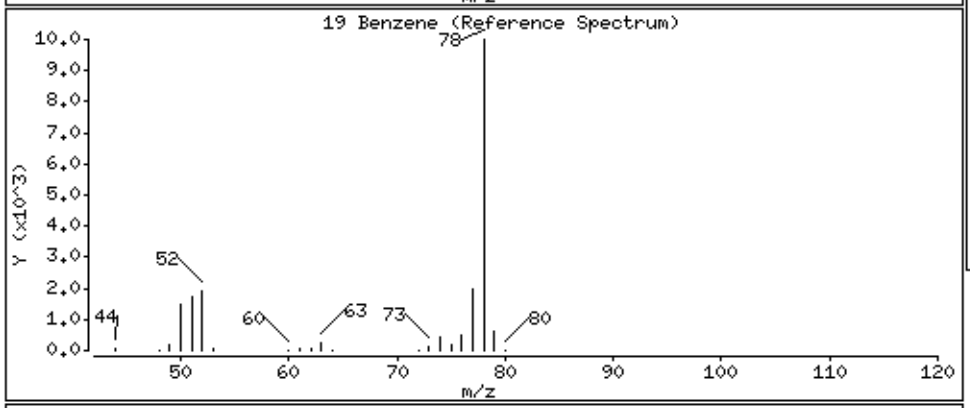
Column diameter: 0.25

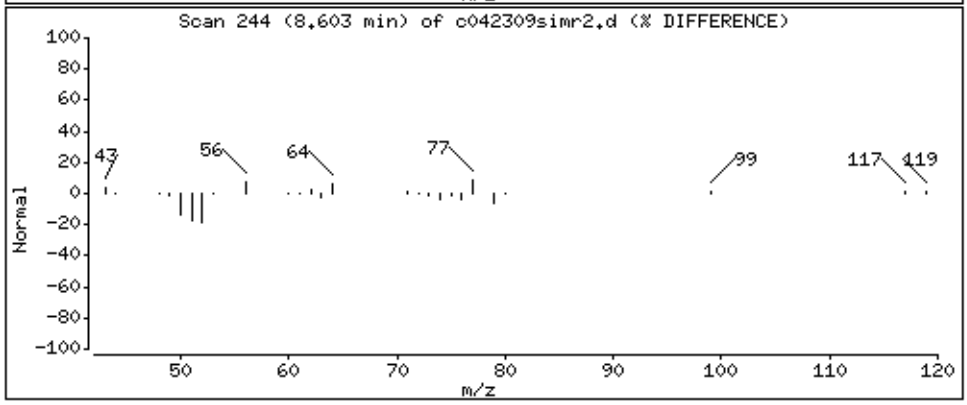
19 Benzene

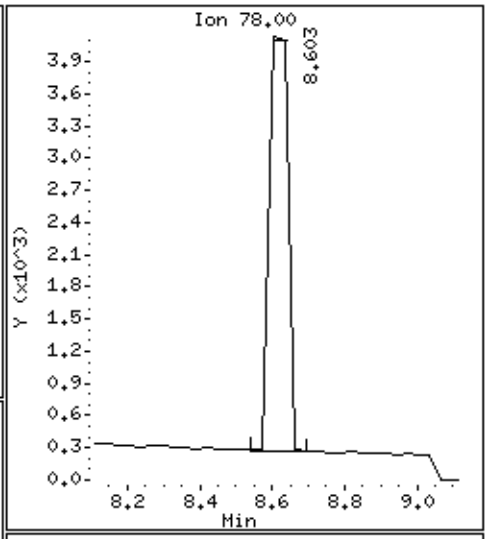
Concentration: 0.510584 ug

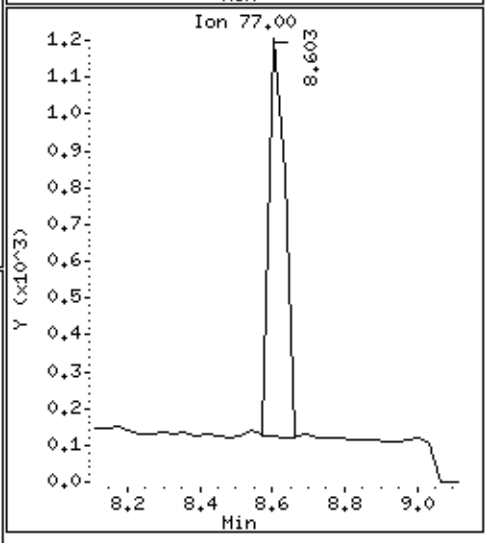












Data File: /chem/msdc.i/23Apr2015.b/c042309simr2.d

Date : 23-APR-2015 12:35

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-01A;

Volume Injected (uL): 1.0

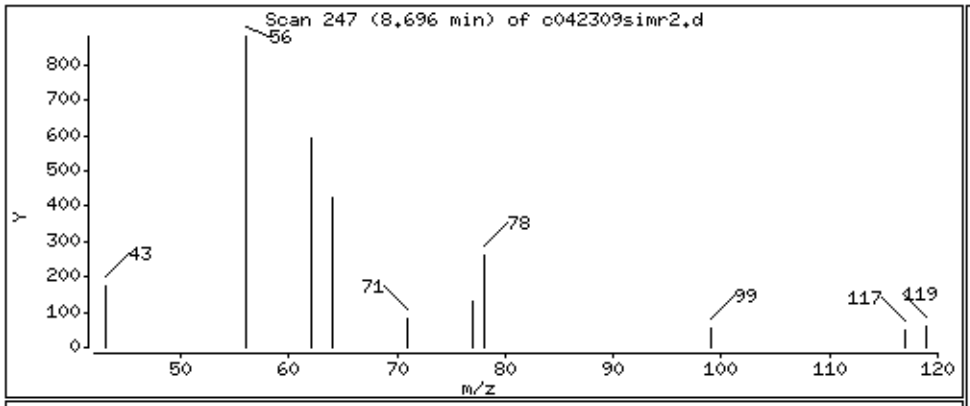
Operator: gm

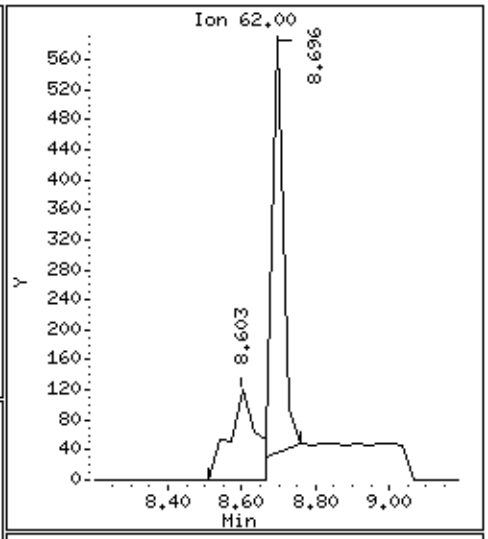
Column phase: DB-5.625

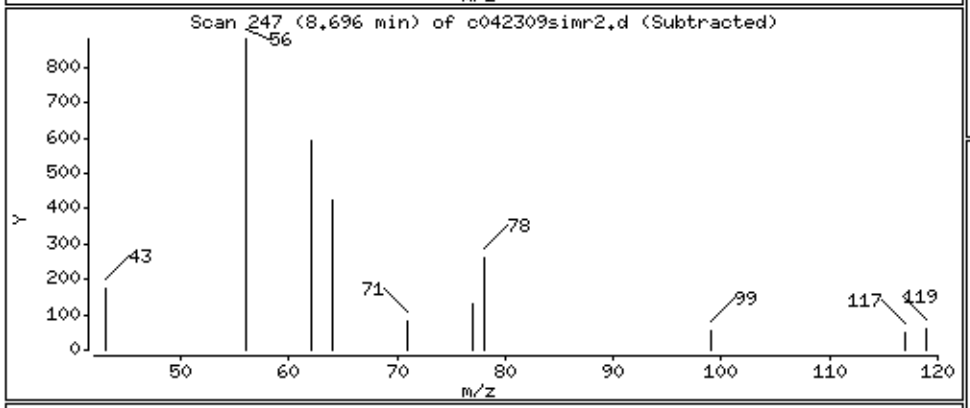
Column diameter: 0.25

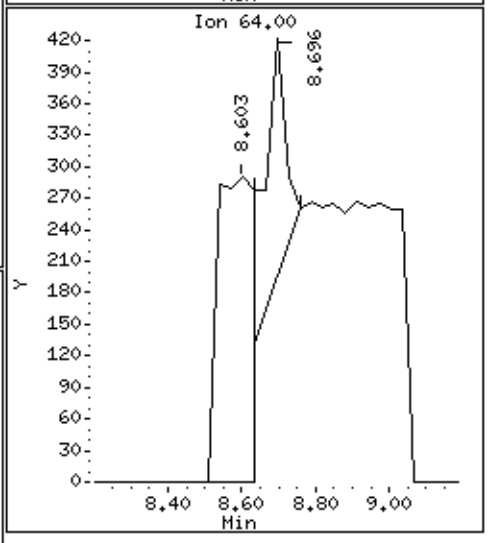
20 1,2-Dichloroethane

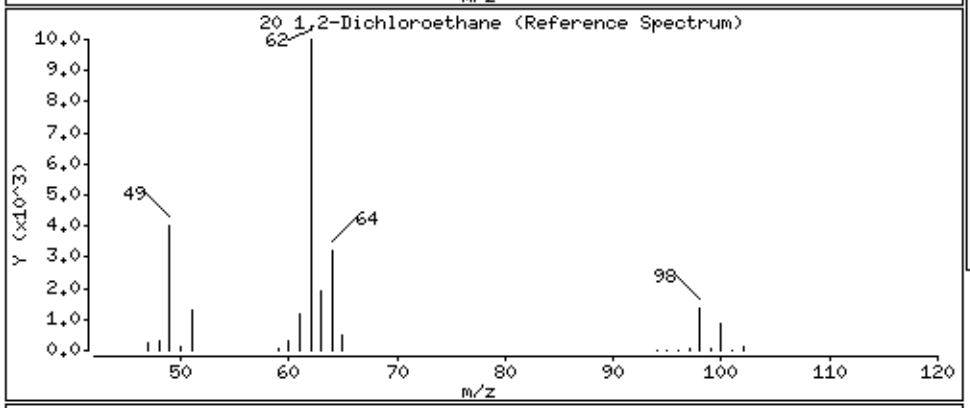
Concentration: 0.0901421 ug

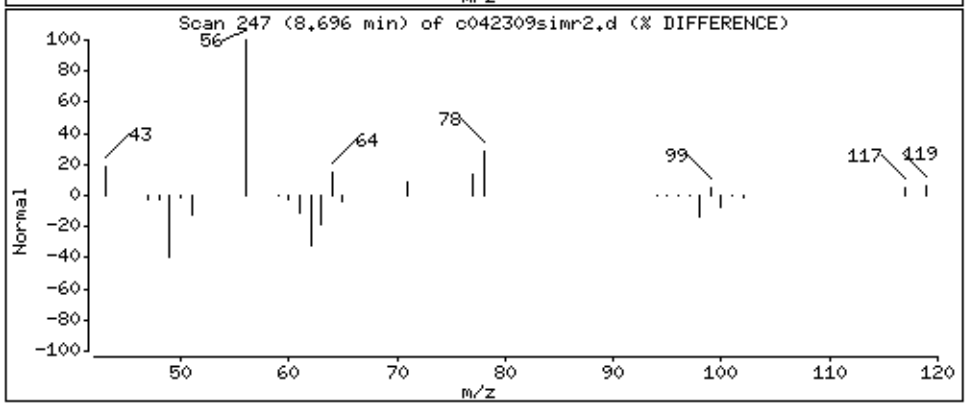












Data File: /chem/msdc.i/23Apr2015.b/c042309simr2.d

Date : 23-APR-2015 12:35

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-01A;

Volume Injected (uL): 1.0

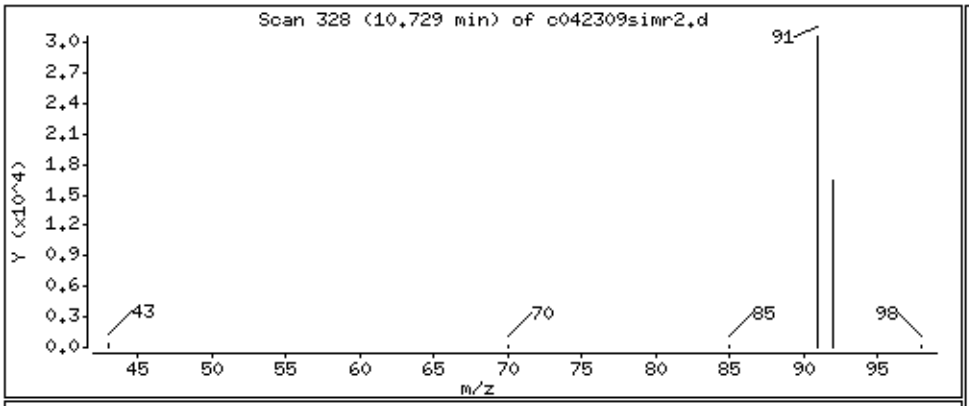
Operator: gm

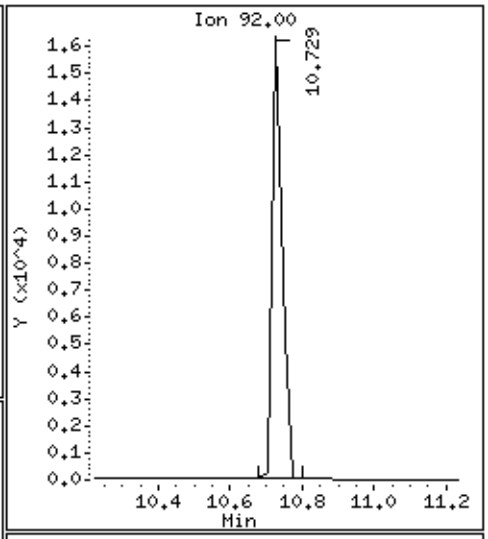
Column phase: DB-5.625

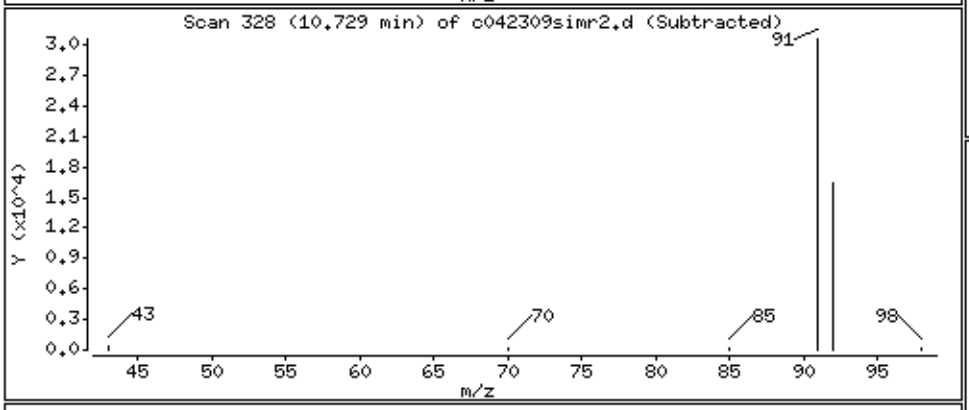
Column diameter: 0.25

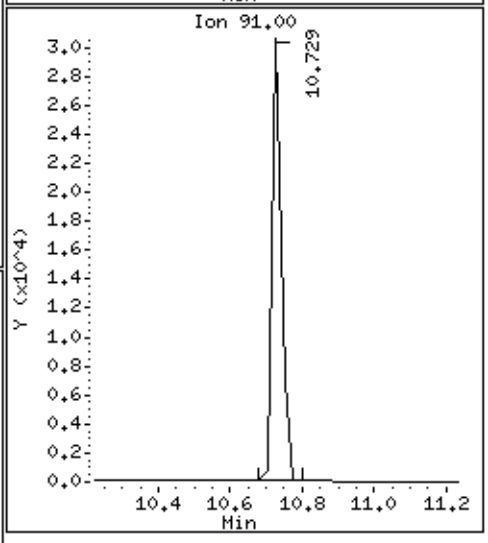
26 Toluene-CCC

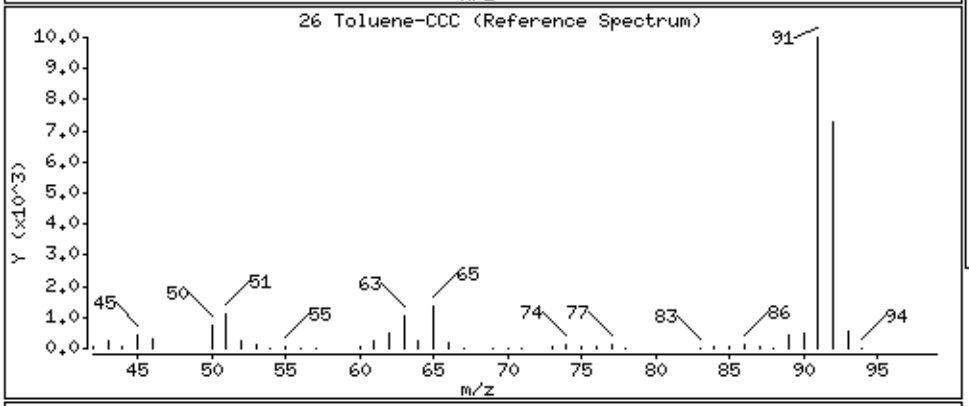
Concentration: 1.36753 ug

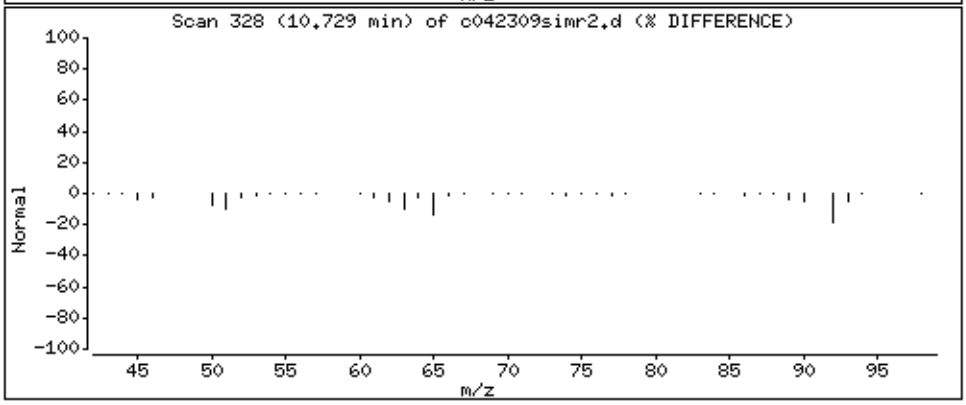












Data File: /chem/msdc.i/23Apr2015.b/c042309simr2.d

Date : 23-APR-2015 12:35

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-01A;

Volume Injected (uL): 1.0

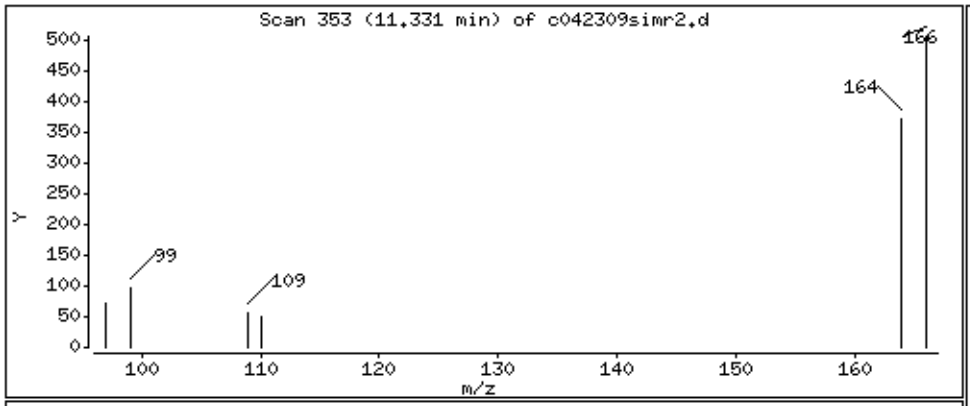
Operator: gm

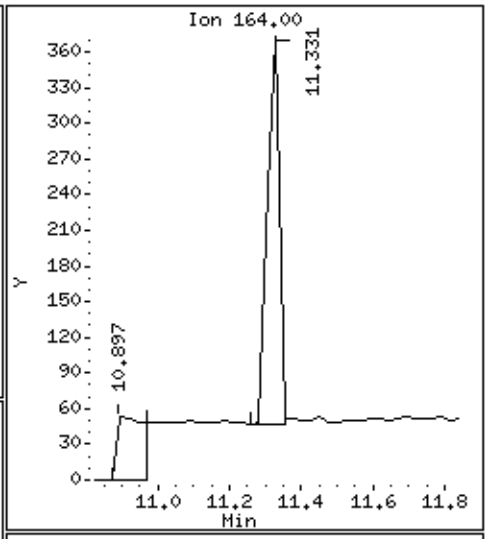
Column phase: DB-5.625

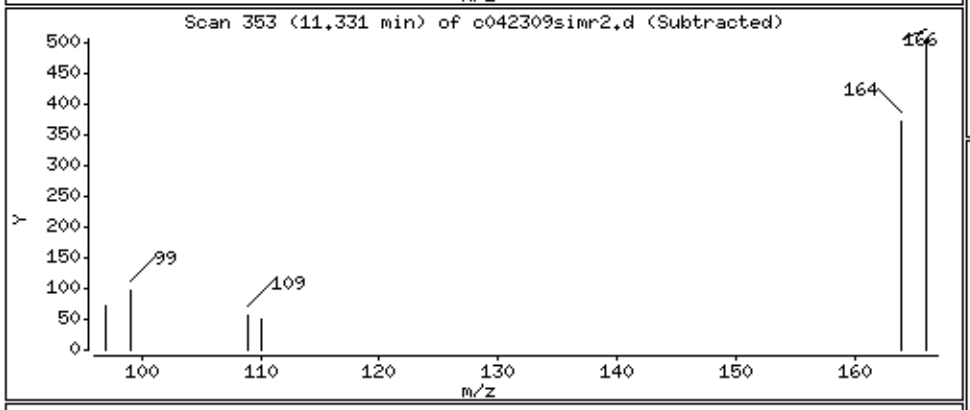
Column diameter: 0.25

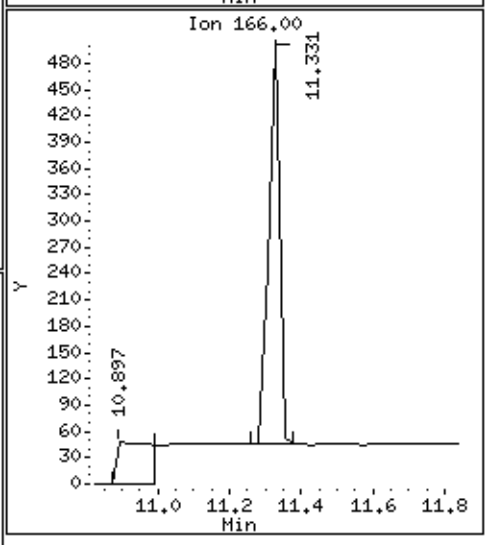
29 Tetrachloroethene

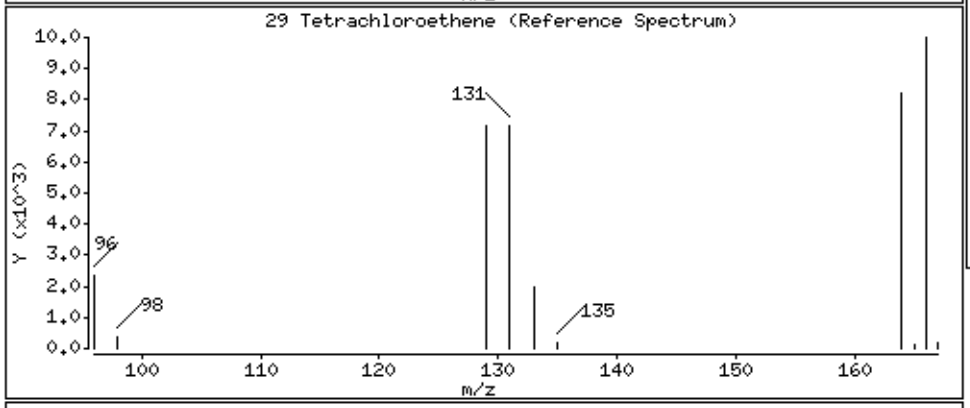
Concentration: 0.0722493 ug

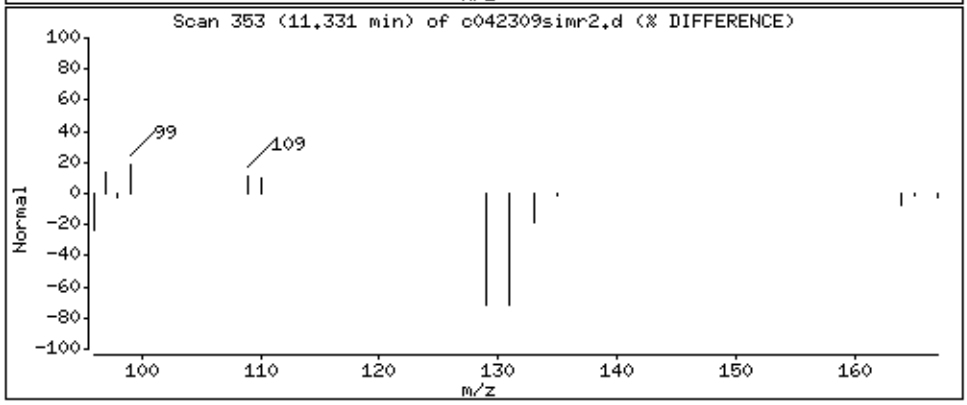












Data File: /chem/msdc.i/23Apr2015.b/c042309simr2.d

Date : 23-APR-2015 12:35

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-01A;

Volume Injected (uL): 1.0

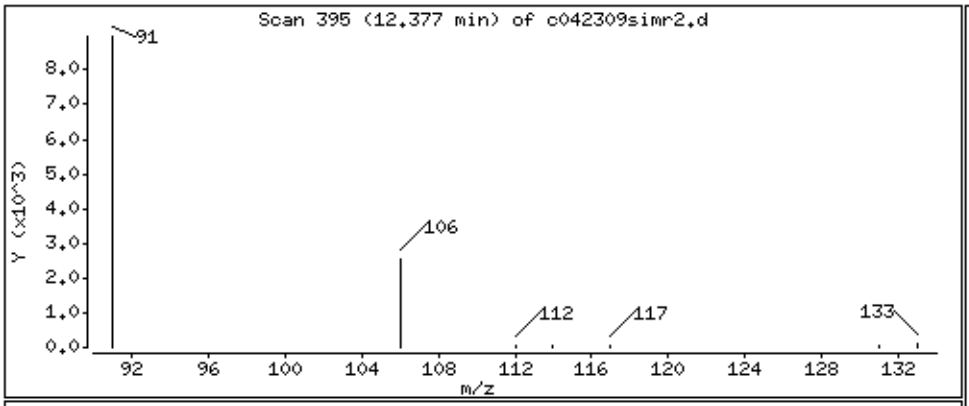
Operator: gm

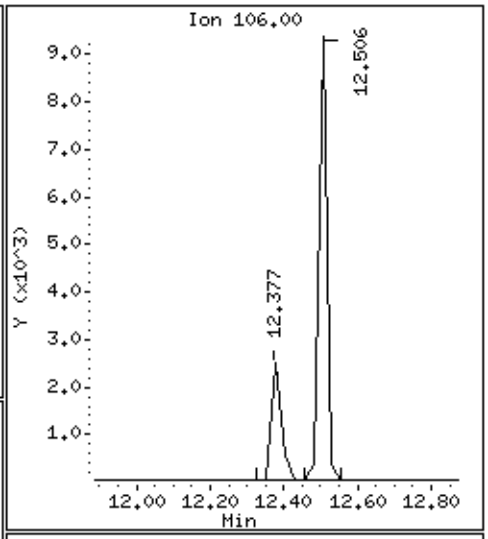
Column phase: DB-5.625

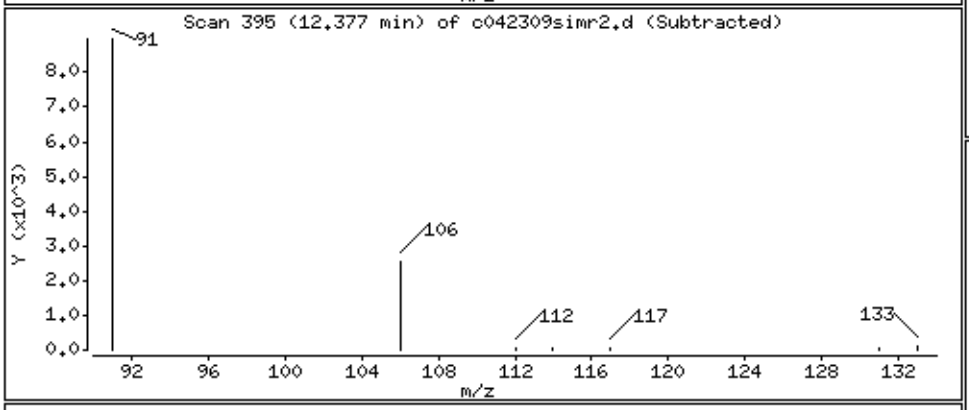
Column diameter: 0.25

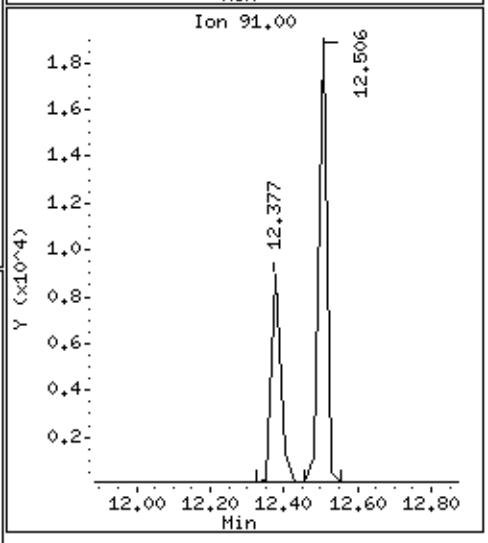
31 Ethylbenzene-CCC

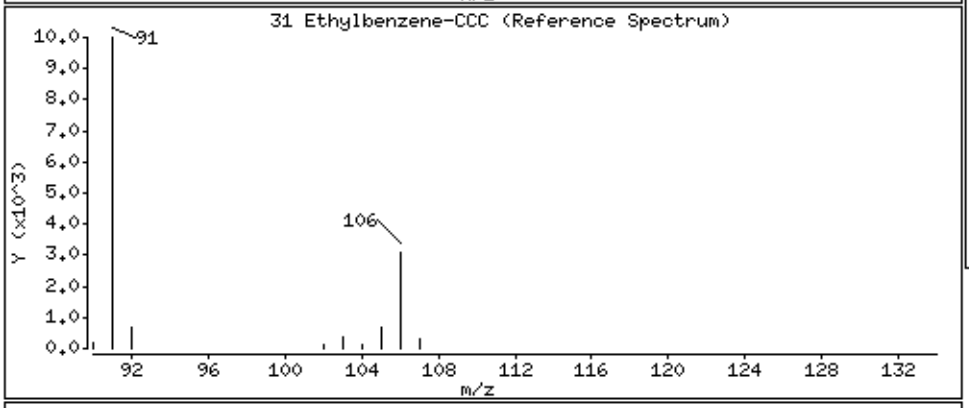
Concentration: 0.314327 ug

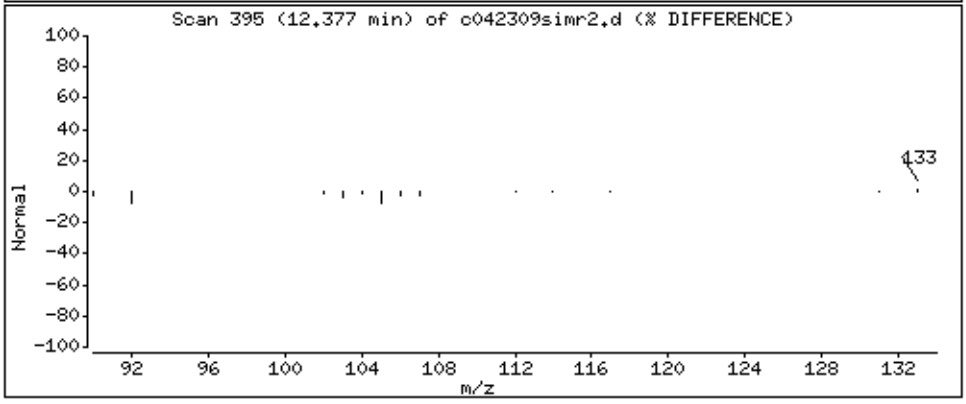












Data File: /chem/msdc.i/23Apr2015.b/c042309simr2.d

Date : 23-APR-2015 12:35

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-01A;

Volume Injected (uL): 1.0

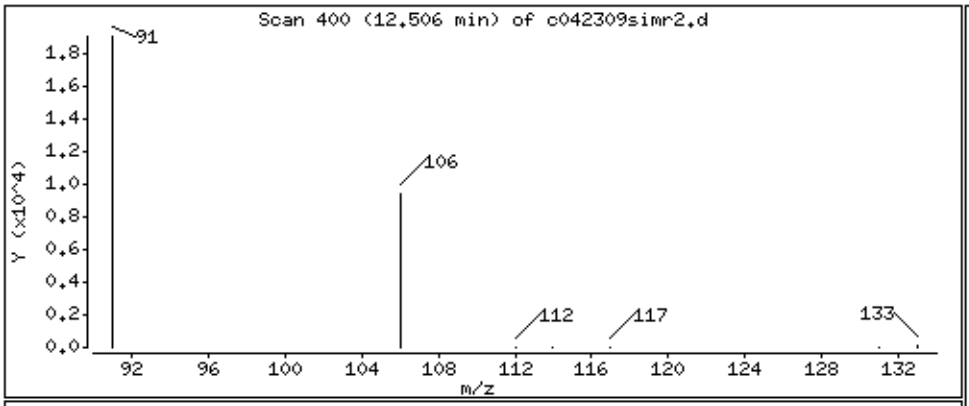
Operator: gm

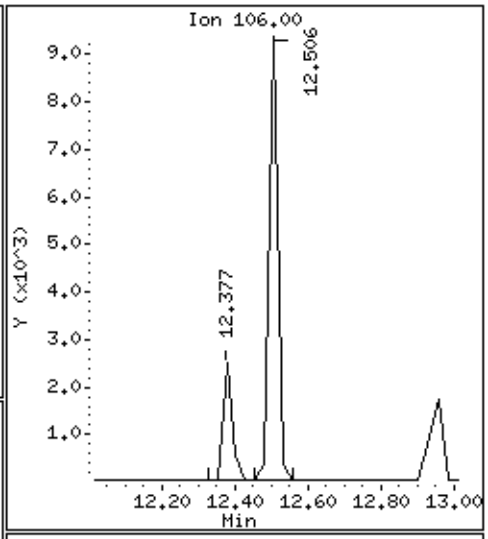
Column phase: DB-5.625

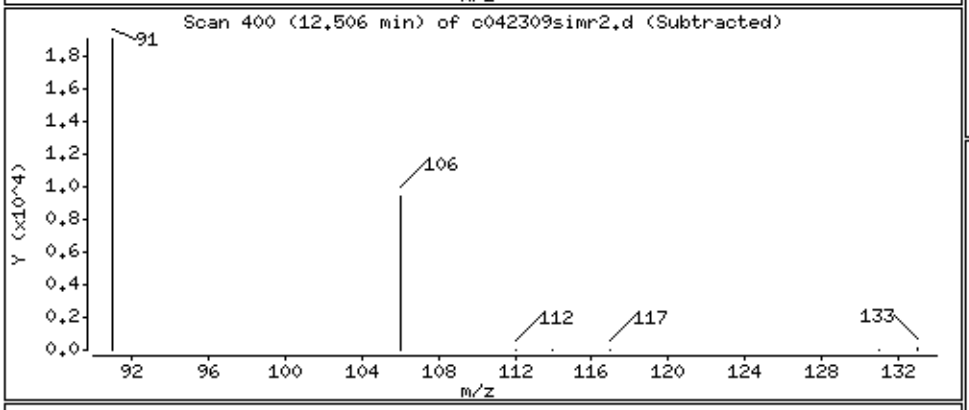
Column diameter: 0.25

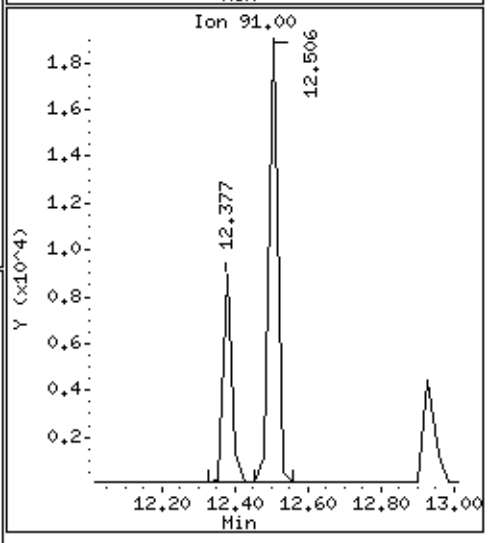
33 m,p-Xylene

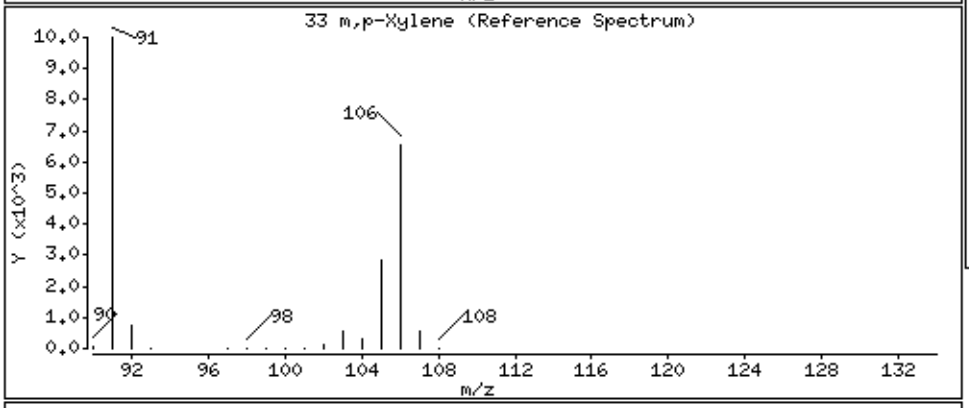
Concentration: 0.743951 ug

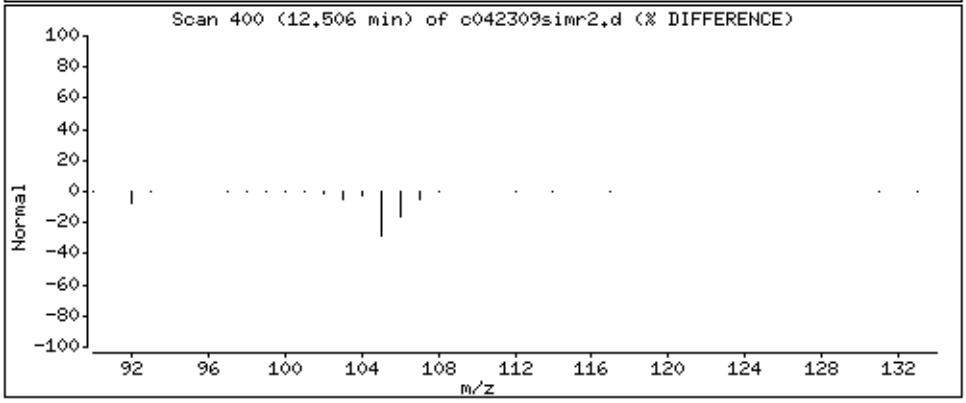












Data File: /chem/msdc.i/23Apr2015.b/c042309simr2.d

Date : 23-APR-2015 12:35

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-01A;

Volume Injected (uL): 1.0

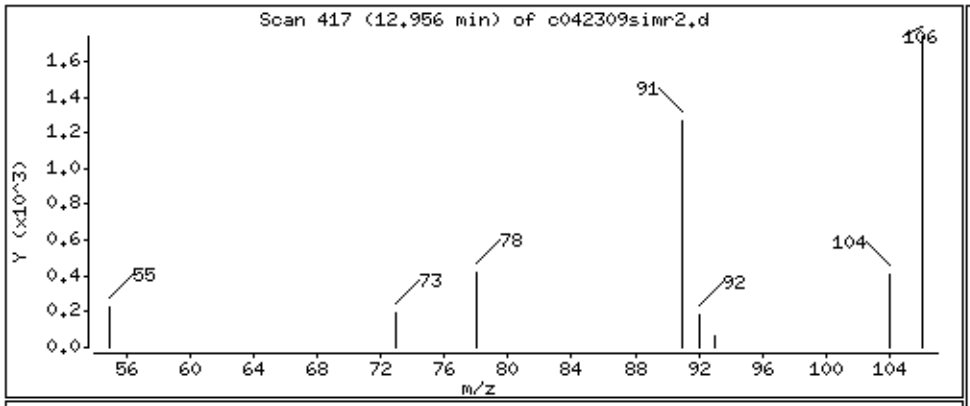
Operator: gm

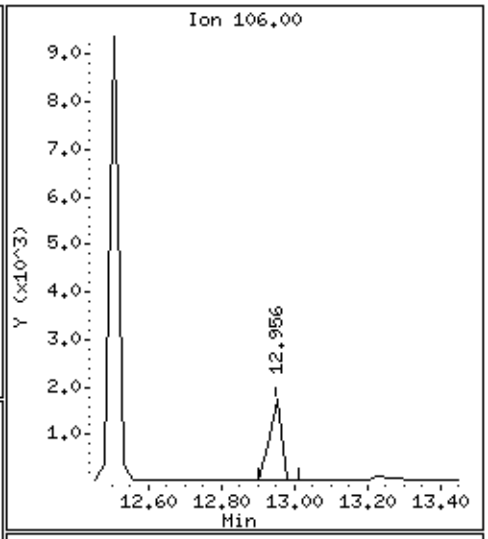
Column phase: DB-5.625

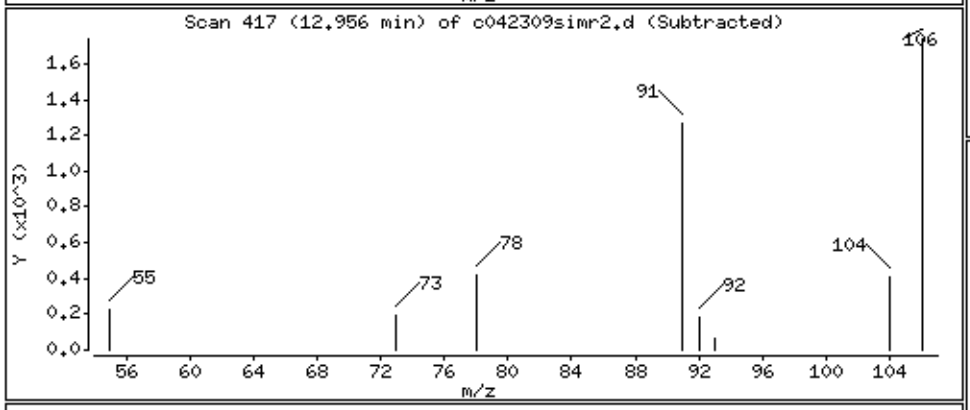
Column diameter: 0.25

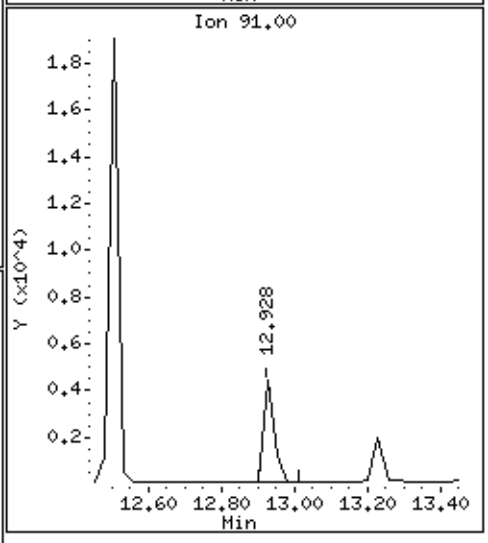
34 o-Xylene

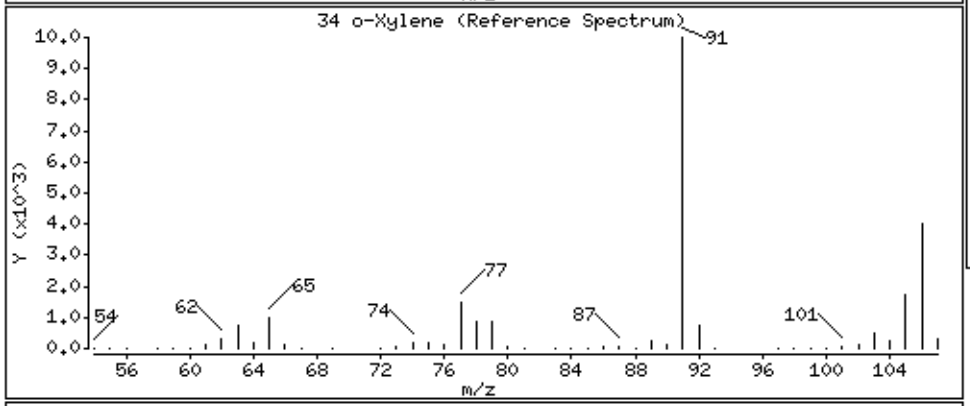
Concentration: 0.241686 ug

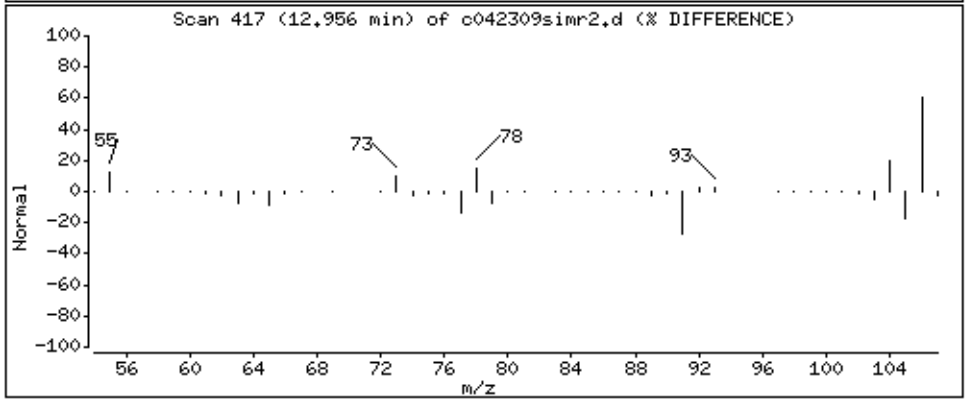












Data File: /chem/msdc.i/23Apr2015.b/c042309simr2.d

Date : 23-APR-2015 12:35

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-01A;

Volume Injected (uL): 1.0

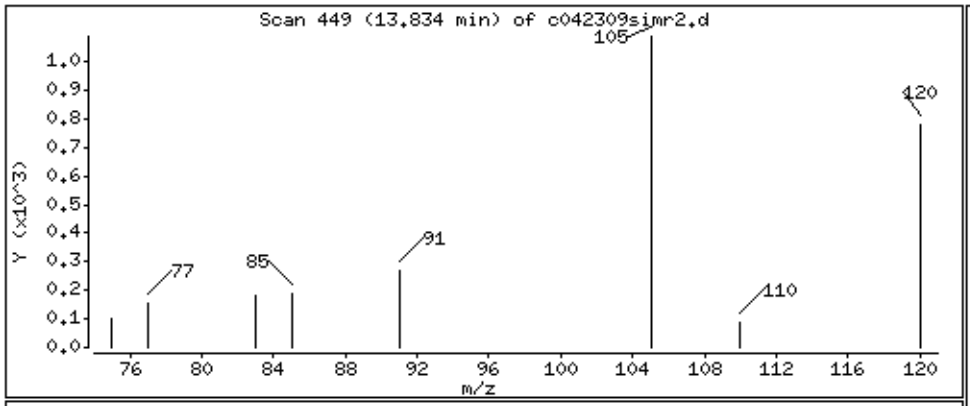
Operator: gm

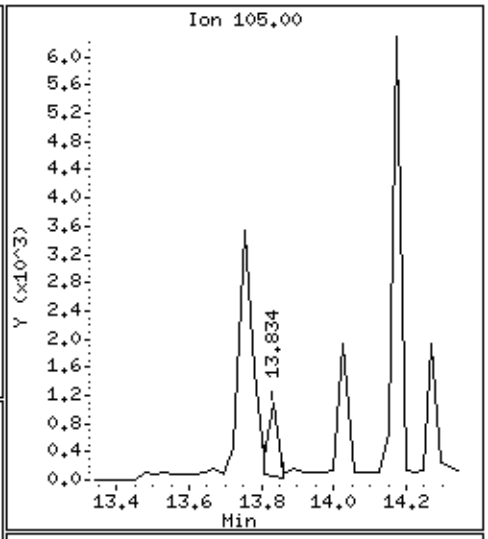
Column phase: DB-5.625

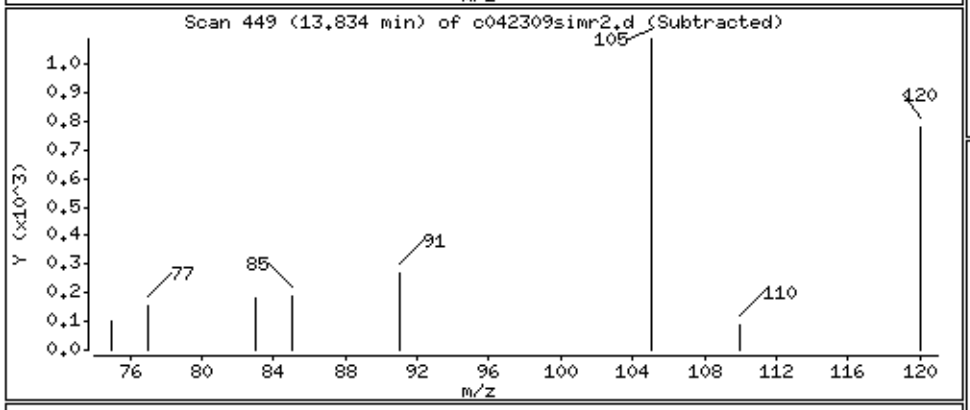
Column diameter: 0.25

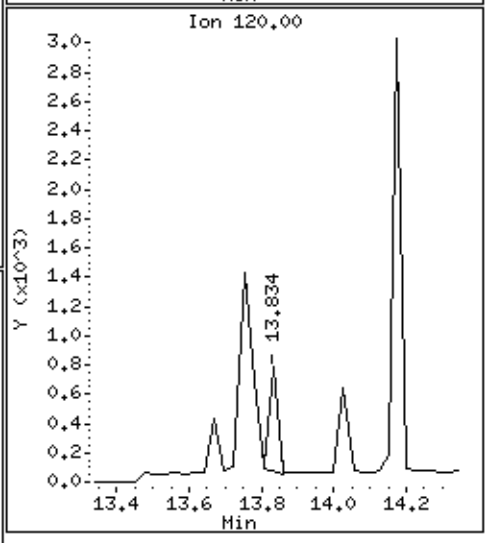
40 1,3,5-Trimethylbenzene

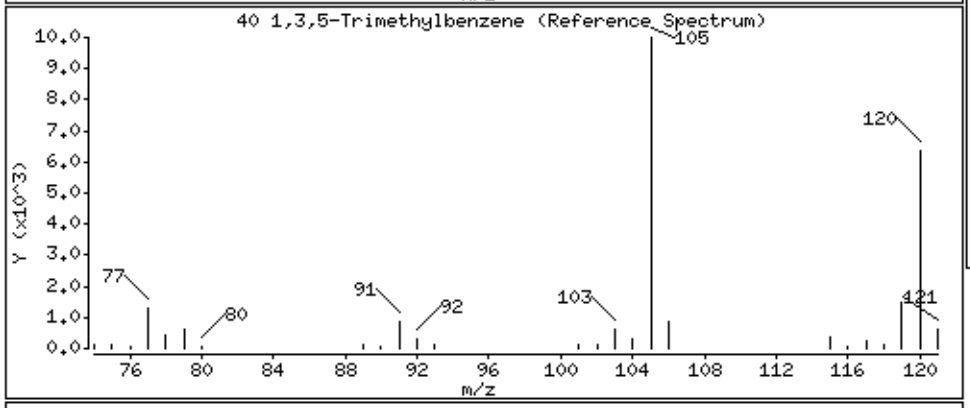
Concentration: 0.0597263 ug

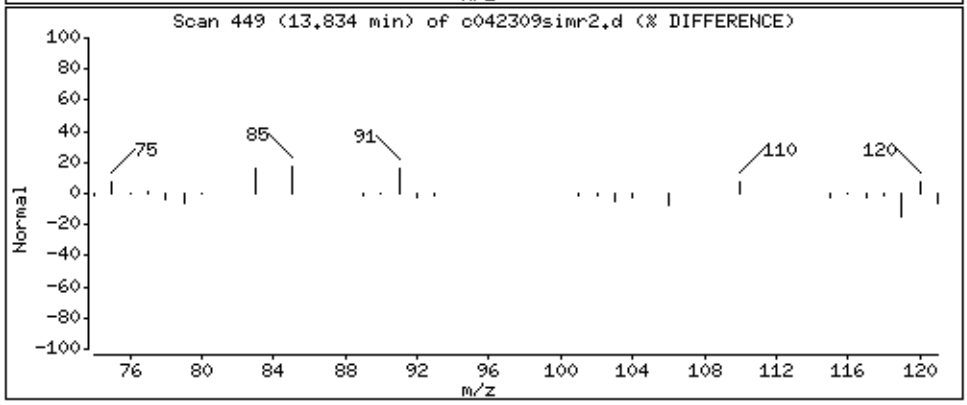












Data File: /chem/msdc.i/23Apr2015.b/c042309simr2.d

Date : 23-APR-2015 12:35

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-01A;

Volume Injected (uL): 1.0

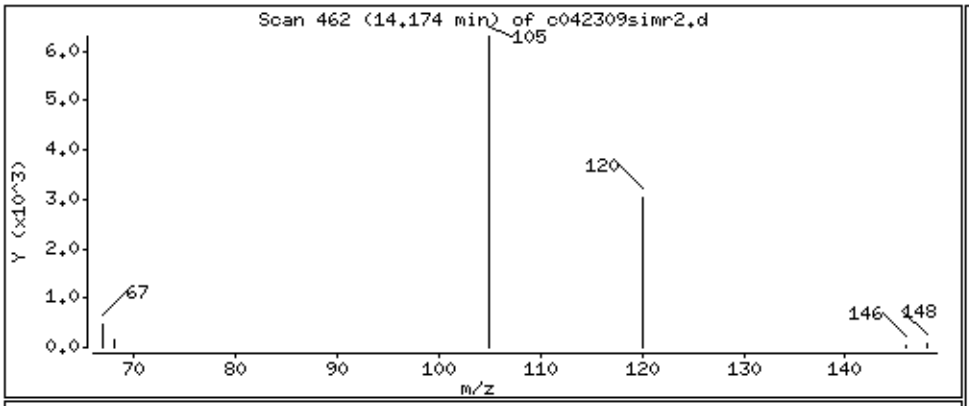
Operator: gm

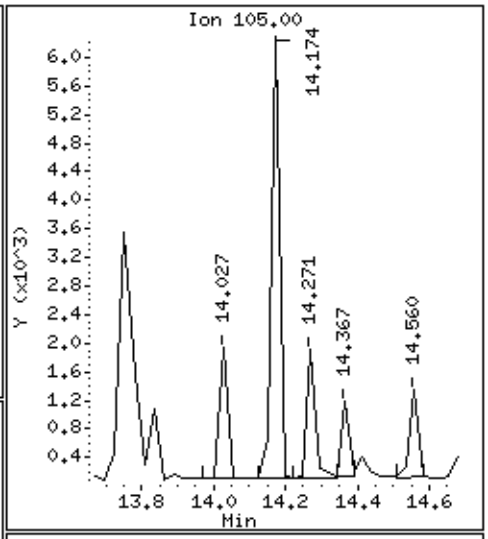
Column phase: DB-5.625

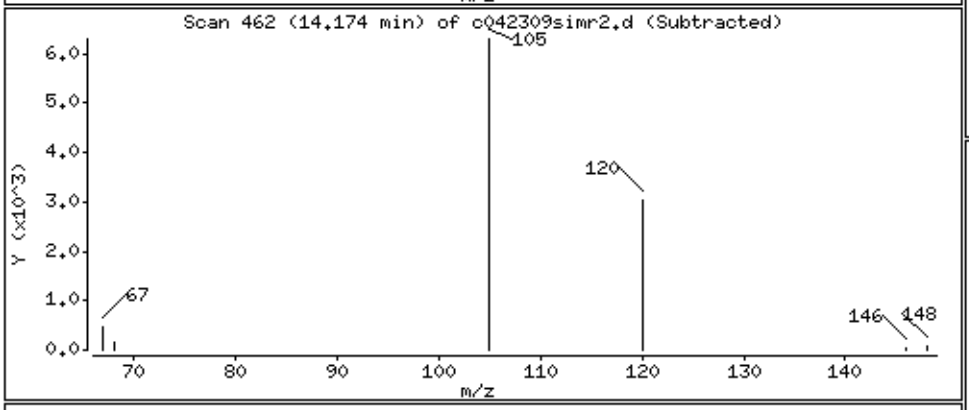
Column diameter: 0.25

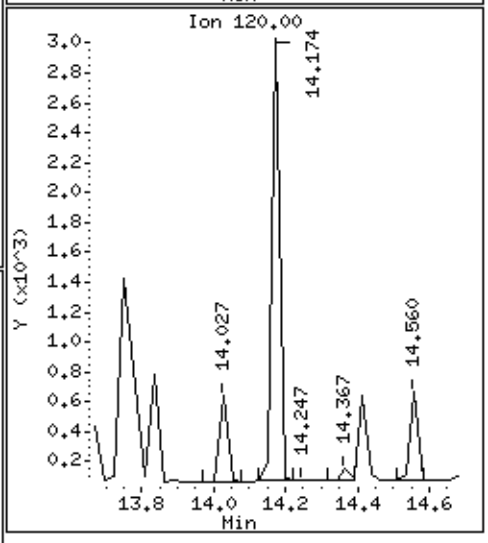
41 1,2,4-Trimethylbenzene

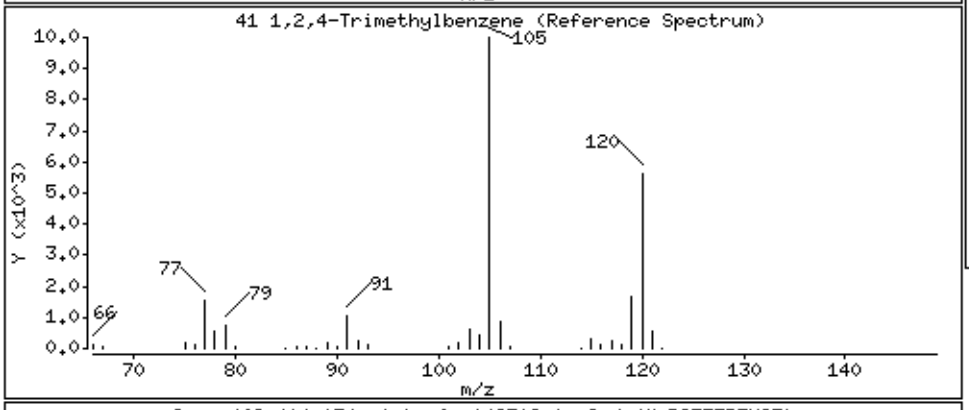
Concentration: 0.208220 ug

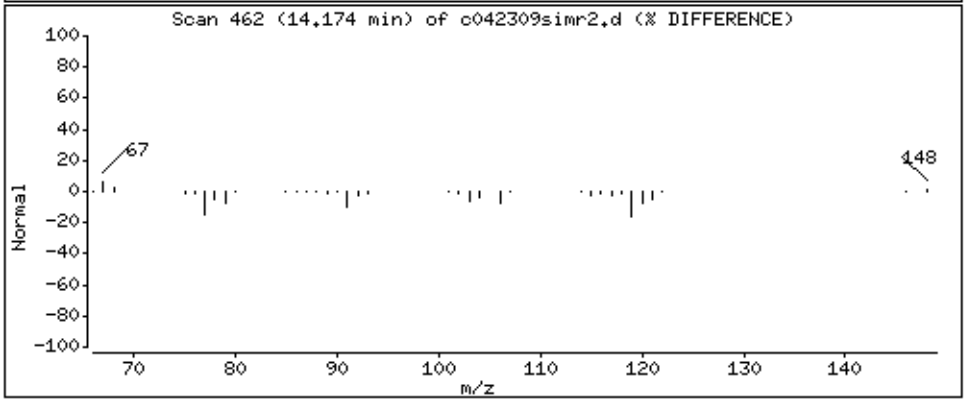












eurofins | Air Toxics

Summary of Detected Compounds
VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: 5230-IA01-0415

Lab ID#: 1504309R2-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Benzene	0.40	0.48	0.63	0.76
1,2-Dichloroethane	0.10	0.12	0.072 J	0.090 J
Trichloroethene	0.10	0.14	0.038 J	0.052 J
Toluene	0.10	0.13	2.0	2.6
Tetrachloroethene	0.10	0.16	0.083 J	0.14 J
Ethyl Benzene	0.10	0.14	0.48	0.67
m,p-Xylene	0.10	0.14	1.6	2.2
o-Xylene	0.10	0.15	0.41	0.60
1,2,4-Trimethylbenzene	0.10	0.19	0.26	0.51
1,3,5-Trimethylbenzene	0.10	0.18	0.076 J	0.14 J

eurofins | Air Toxics

Client Sample ID: 5230-IA01-0415

Lab ID#: 1504309R2-02A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**c042310simr2**	**Date of Collection: 4/16/15 2:00:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/15 01:00 PM**	
		Date of Extraction: 4/23/15	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
1,1,1-Trichloroethane	0.10	0.15	Not Detected	Not Detected
Benzene	0.40	0.48	0.63	0.76
1,2-Dichloroethane	0.10	0.12	0.072 J	0.090 J
Trichloroethene	0.10	0.14	0.038 J	0.052 J
Toluene	0.10	0.13	2.0	2.6
Tetrachloroethene	0.10	0.16	0.083 J	0.14 J
Ethyl Benzene	0.10	0.14	0.48	0.67
m,p-Xylene	0.10	0.14	1.6	2.2
o-Xylene	0.10	0.15	0.41	0.60
Naphthalene	0.10	0.38	Not Detected	Not Detected
1,1-Dichloroethane	0.10	0.15	Not Detected C	Not Detected C
1,1-Dichloroethene	0.40	0.50	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.15	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.32	Not Detected C	Not Detected C
1,1,2-Trichloroethane	0.10	0.14	Not Detected C	Not Detected C
1,2,4-Trimethylbenzene	0.10	0.19	0.26	0.51
1,3,5-Trimethylbenzene	0.10	0.18	0.076 CJ	0.14 CJ
Vinyl Chloride	0.40	0.43	Not Detected C	Not Detected C

J = Estimated value.
C = Estimated concentration due to calculated sampling rate.

Temperature = 89.6F , duration time = 10060 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	113	70-130

Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msdc.i/23Apr2015.b/c042310simr2.d
Lab Smp Id: 1504309R2-02A
Inj Date : 23-APR-2015 13:00
Operator : gm Inst ID: msdc.i
Smp Info : ;1504309R2-02A;
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Meth Date : 26-Jun-2015 14:36 gmash Quant Type: ISTD
Cal Date : 15-APR-2015 11:23 Cal File: c041509sim.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Gilbane.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
2	Vinyl Chloride	62	Compound Not Detected.					
4	1,1-Dichloroethene-CCC	96	Compound Not Detected.					
8	trans-1,2-Dichloroethene	96	Compound Not Detected.					
11	1,1-Dichloroethane-SPCC	63	Compound Not Detected.					
14	cis-1,2-Dichloroethene	96	Compound Not Detected.					
17	1,1,1-Trichloroethane	97	Compound Not Detected.					
19	Benzene	78	8.603	8.603	(0.783)	15899	0.31610	0.632204
20	1,2-Dichloroethane	62	8.696	8.696	(0.791)	835	0.03617	0.0723352(aM)
22	Trichloroethene	130	9.331	9.331	(0.849)	313	0.01885	0.0377017(a)
$ 25	Toluene-d8	98	10.656	10.656	(0.969)	269305	5.64931	11.2986
26	Toluene-CCC	92	10.728	10.728	(0.976)	41522	1.00837	2.01675
* 27	2-Fluorotoluene	109	10.993	10.993	(1.000)	289611	5.00000	
28	1,1,2-Trichloroethane	97	Compound Not Detected.					
29	Tetrachloroethene	164	11.331	11.331	(1.031)	787	0.04157	0.0831407(aM)
31	Ethylbenzene-CCC	106	12.377	12.377	(1.126)	6302	0.23801	0.476023
33	m,p-Xylene	106	12.506	12.506	(1.138)	30150	0.81374	1.62749

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
34 o-Xylene	106	12.956	12.956	(1.178)	5994	0.20356	0.407122
40 1,3,5-Trimethylbenzene	105	13.834	13.834	(1.258)	2520	0.03791	0.0758210(aM)
41 1,2,4-Trimethylbenzene	105	14.174	14.174	(1.289)	11133	0.13281	0.265614
48 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Report Date: 13-Jul-2015 13:48

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042310simr2.d
Lab Smp Id: 1504309R2-02A
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

Calibration Date: 23-APR-2015
Calibration Time: 09:09
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	324554	162277	649108	289611	-10.77

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	10.99	10.49	11.49	10.99	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 23Apr2015
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 1504309R2-02A
Level: MED Operator: gm
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS-CM.spk Quant Type: ISTD
Sublist File: Gilbane.sub
Method File: /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 25 Toluene-d8	10.0000	11.2986	112.99	70-130

Data File: /chem/msdc.i/23Apr2015.b/c042310simr2.d

Date : 23-APR-2015 13:00

Client ID:

Instrument: msdc.i

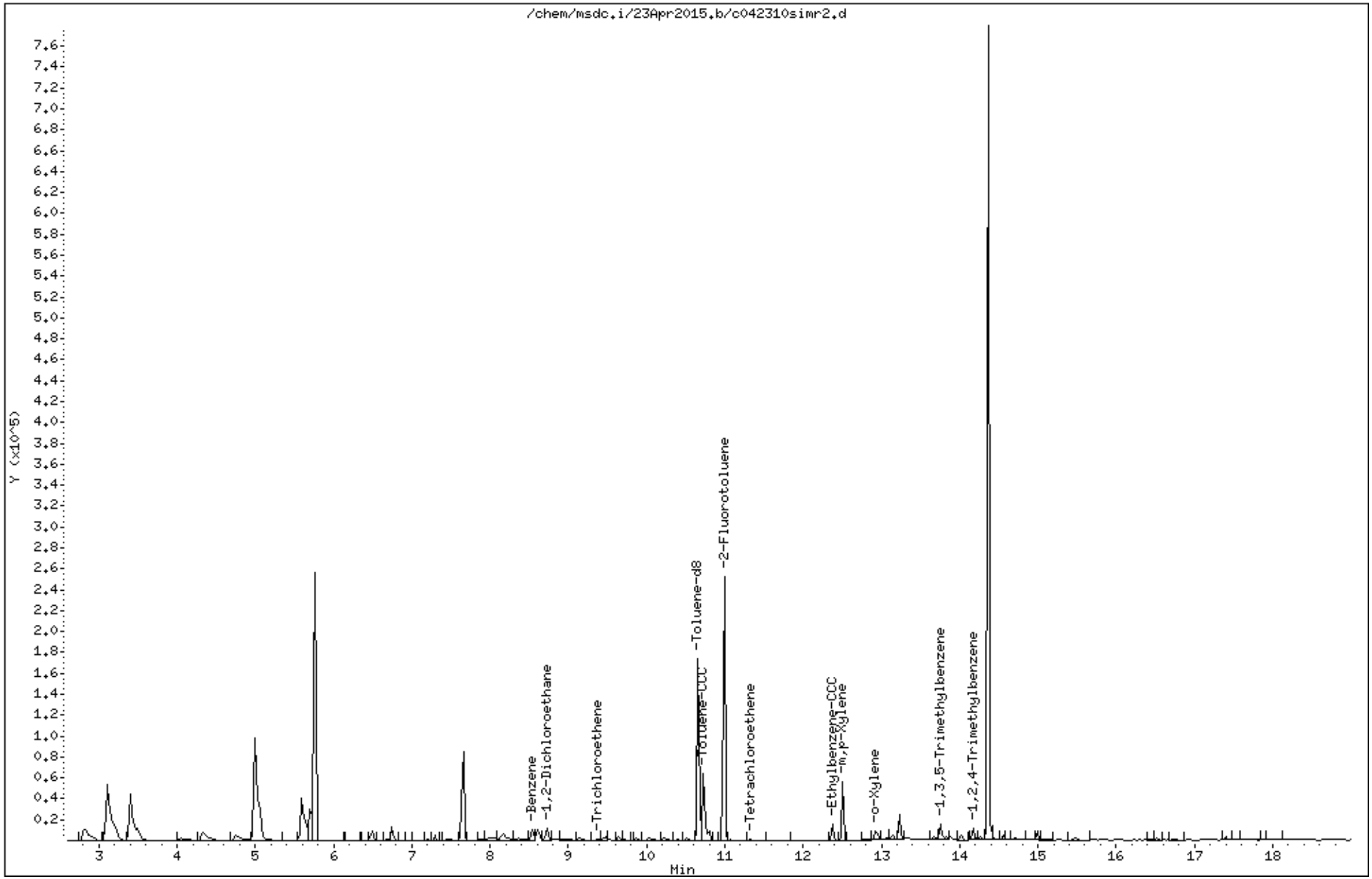
Sample Info: ;1504309R2-02A;

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdc.i/23Apr2015.b/c042310simr2.d

Date : 23-APR-2015 13:00

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-02A;

Volume Injected (uL): 1.0

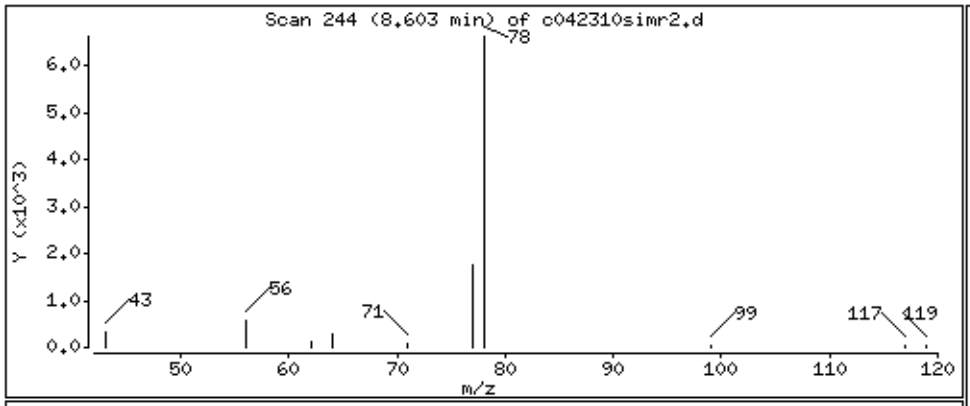
Operator: gm

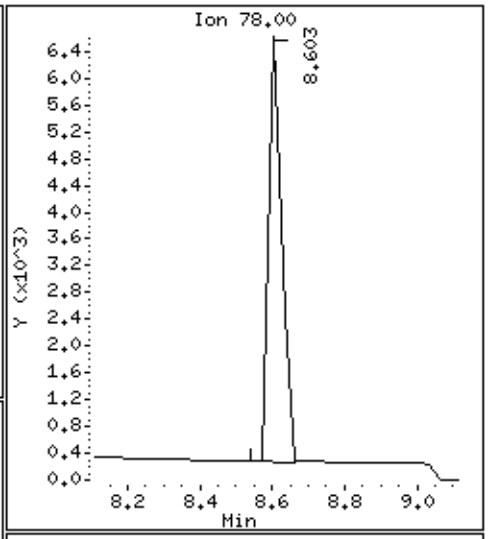
Column phase: DB-5.625

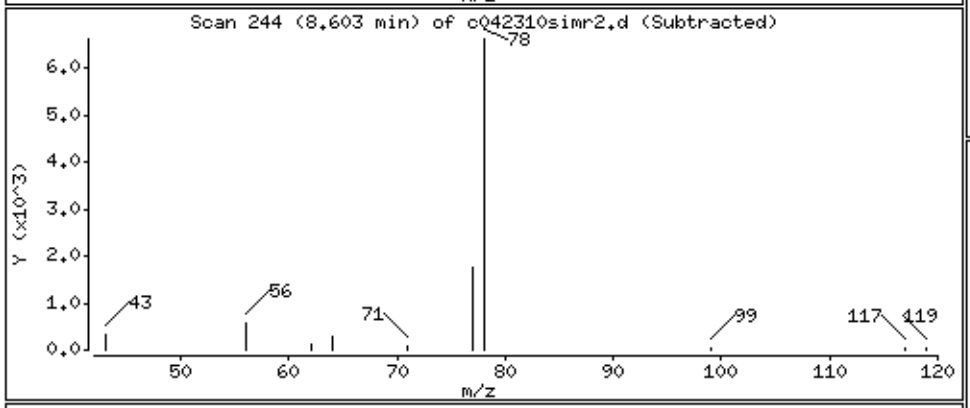
Column diameter: 0.25

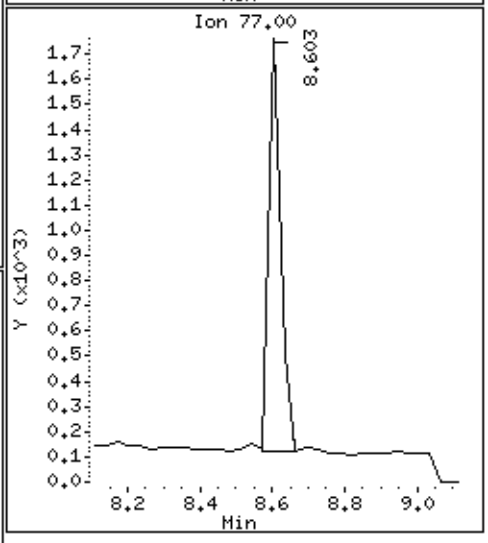
19 Benzene

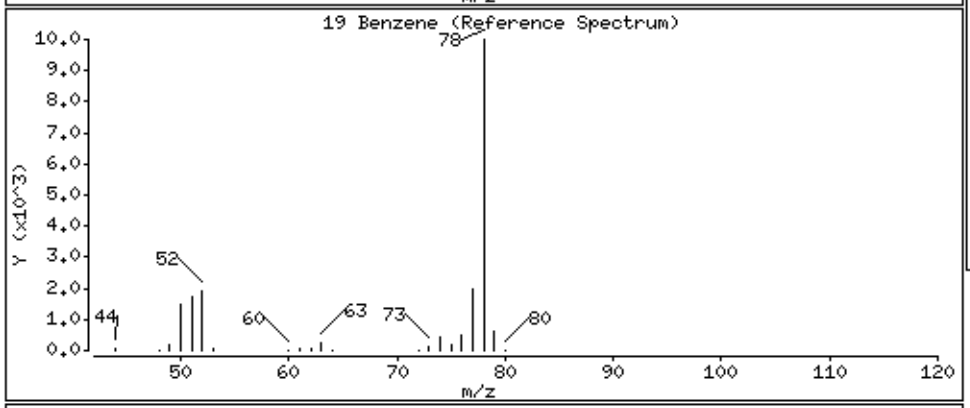
Concentration: 0.632204 ug

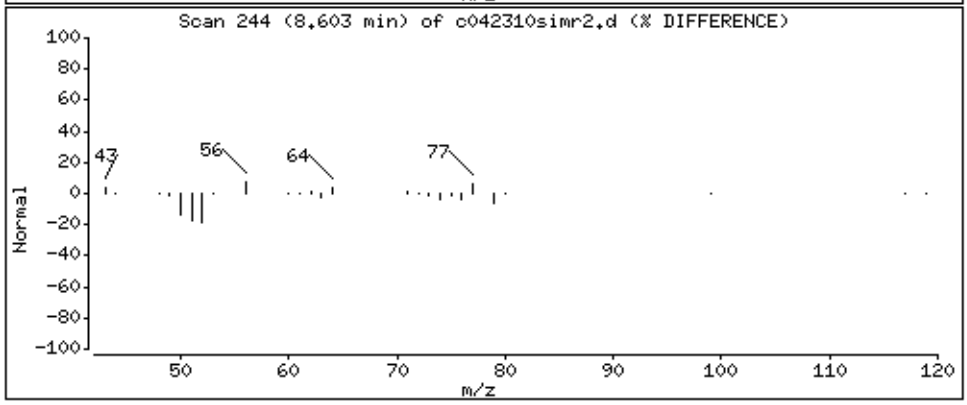












Data File: /chem/msdc.i/23Apr2015.b/c042310simr2.d

Date : 23-APR-2015 13:00

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-02A;

Volume Injected (uL): 1.0

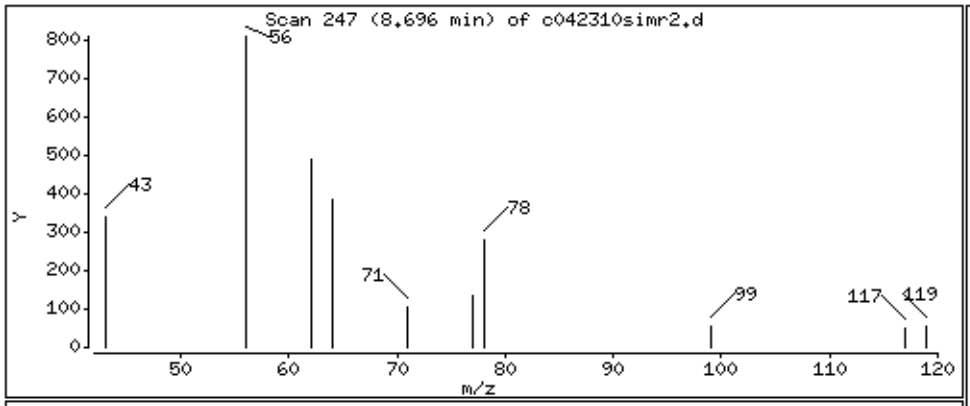
Operator: gm

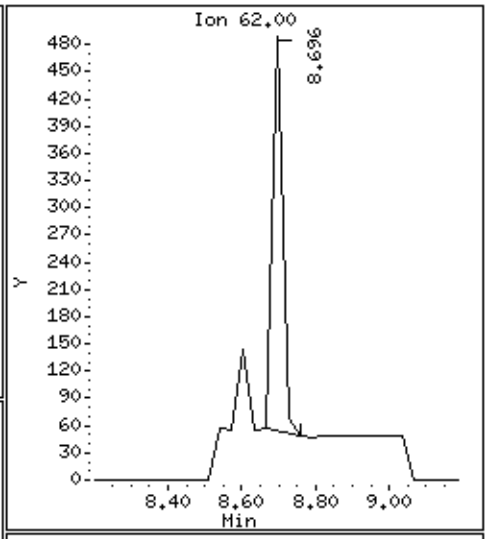
Column phase: DB-5.625

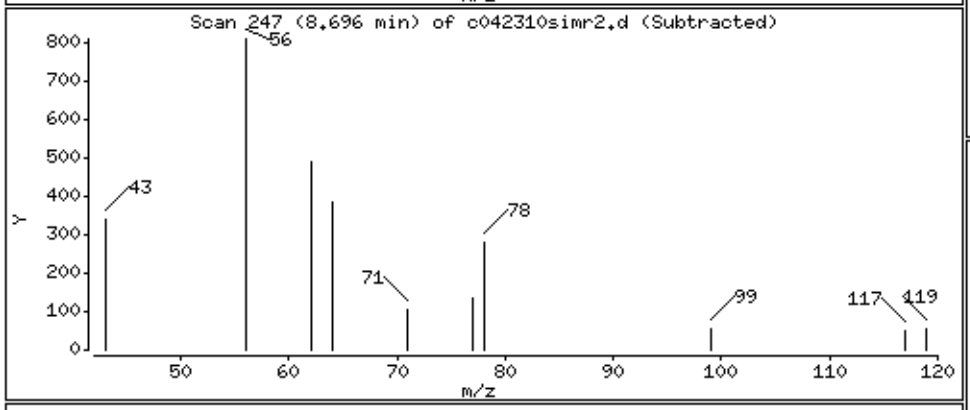
Column diameter: 0.25

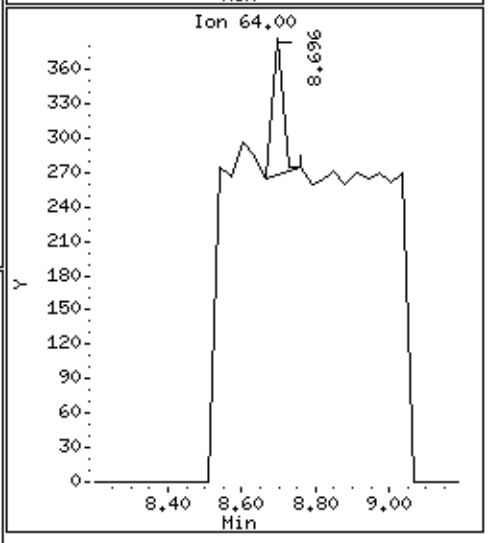
20 1,2-Dichloroethane

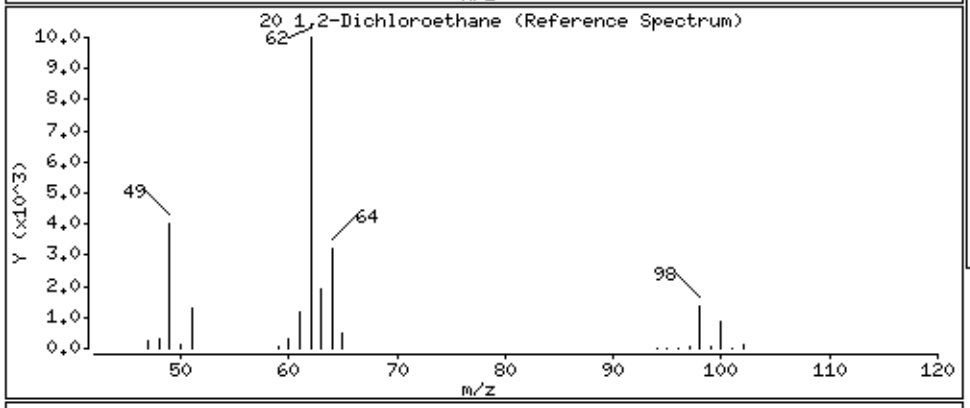
Concentration: 0.0723352 ug

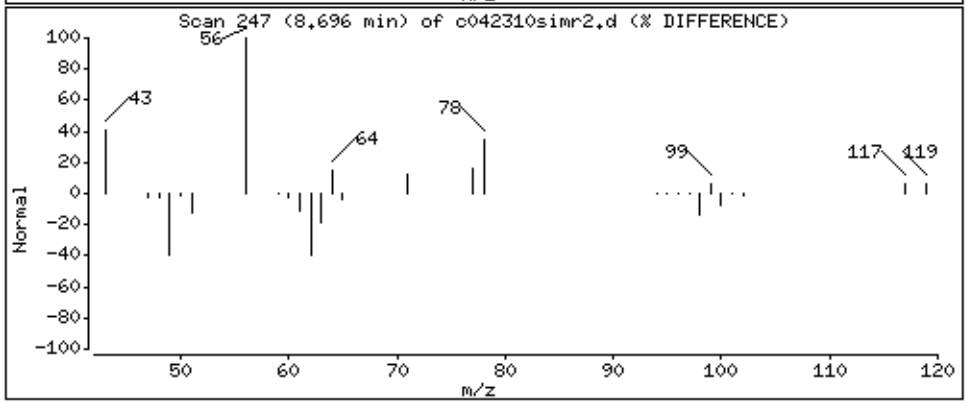












Data File: /chem/msdc.i/23Apr2015.b/c042310simr2.d

Date : 23-APR-2015 13:00

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-02A;

Volume Injected (uL): 1.0

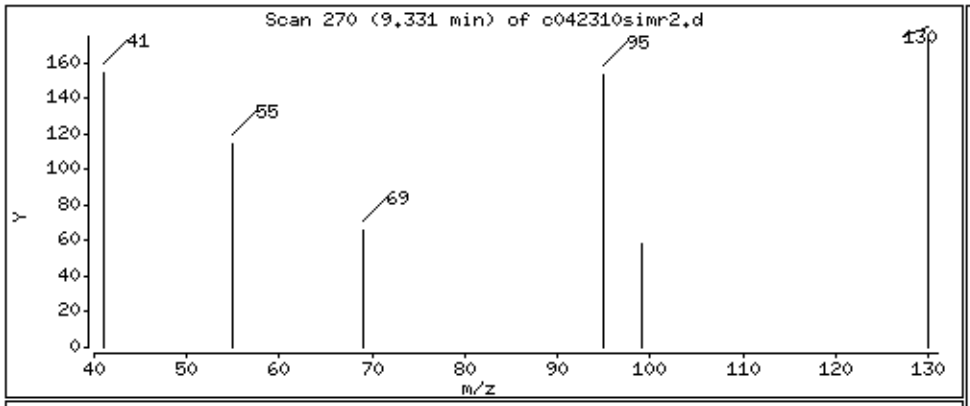
Operator: gm

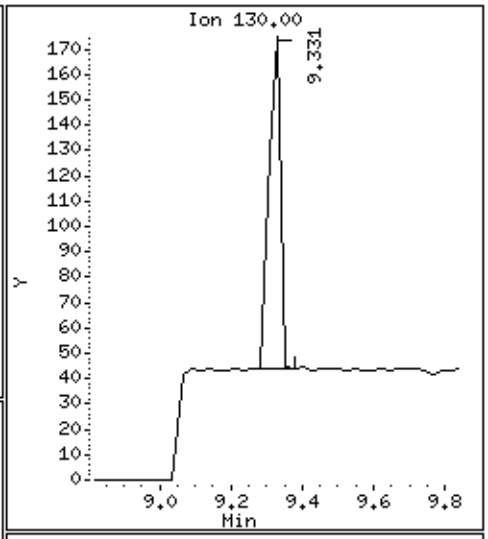
Column phase: DB-5.625

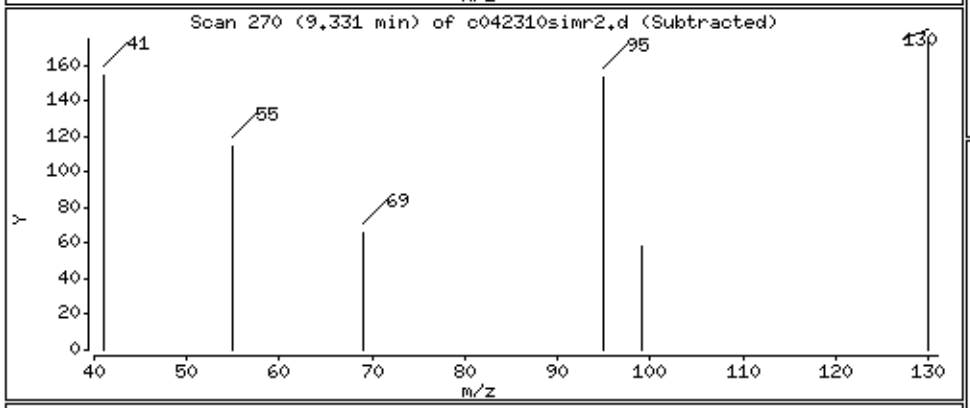
Column diameter: 0.25

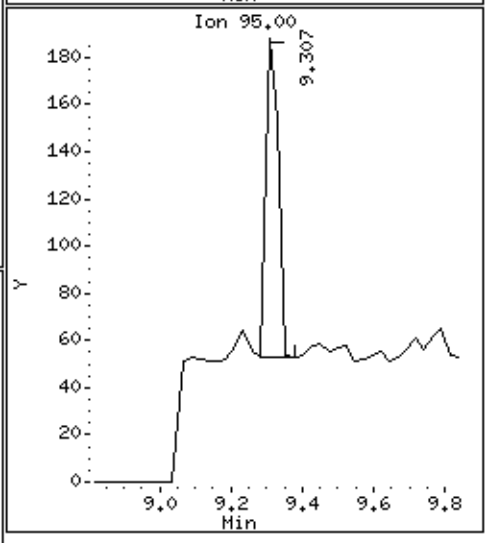
22 Trichloroethene

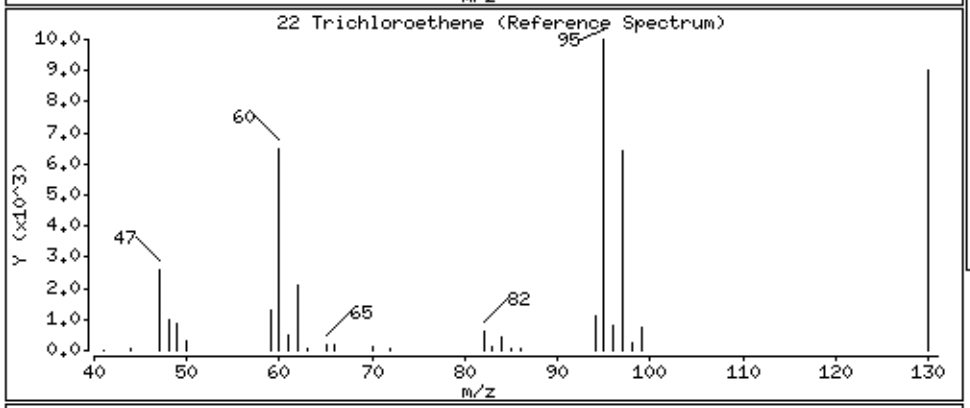
Concentration: 0.0377017 ug

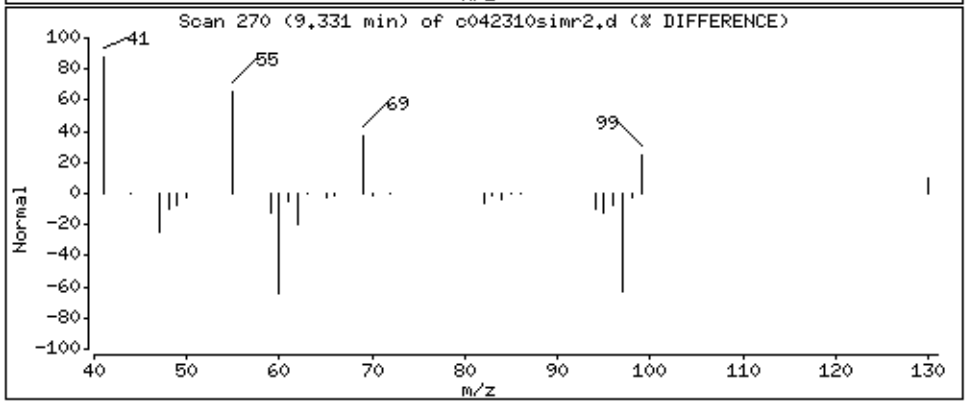












Data File: /chem/msdc.i/23Apr2015.b/c042310simr2.d

Date : 23-APR-2015 13:00

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-02A;

Volume Injected (uL): 1.0

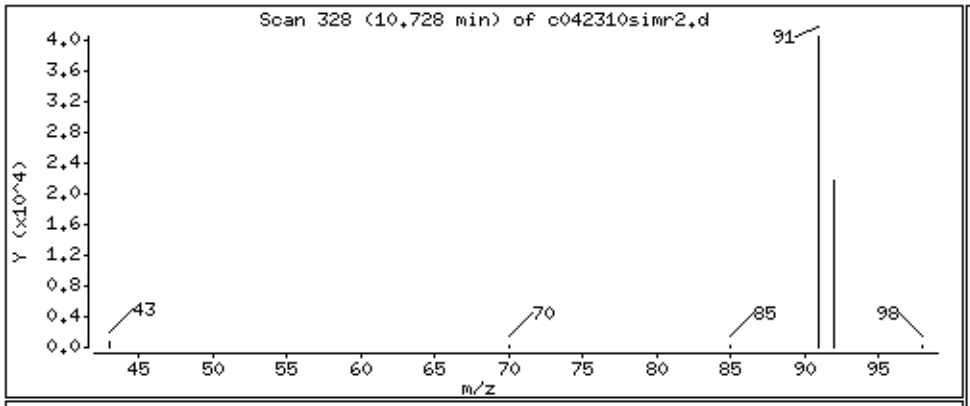
Operator: gm

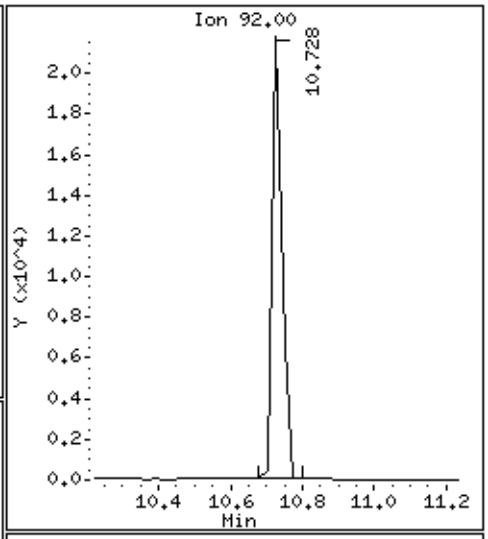
Column phase: DB-5.625

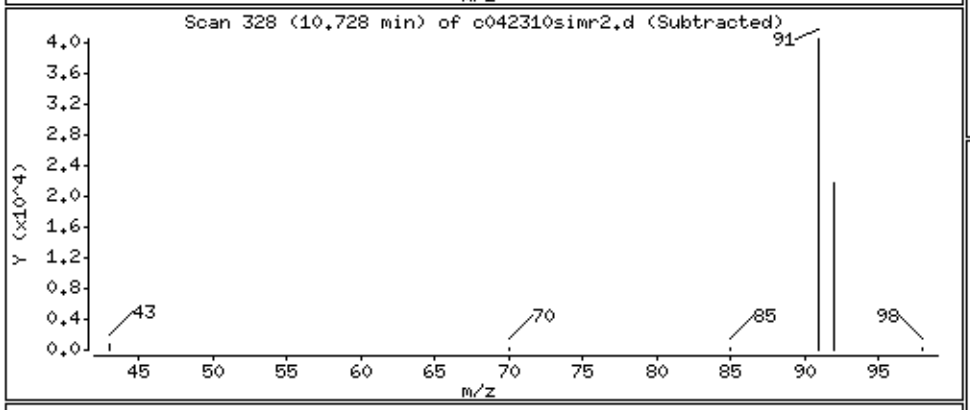
Column diameter: 0.25

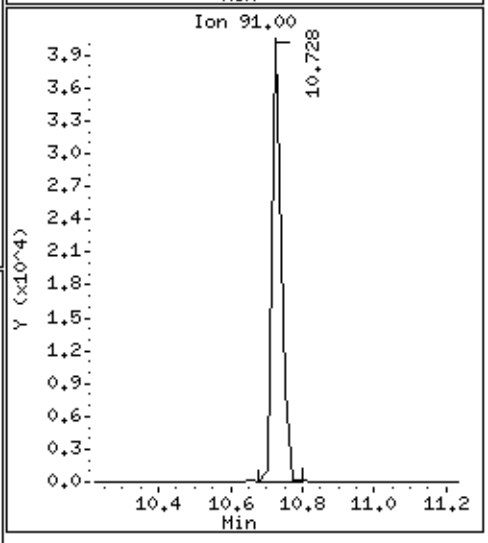
26 Toluene-CCC

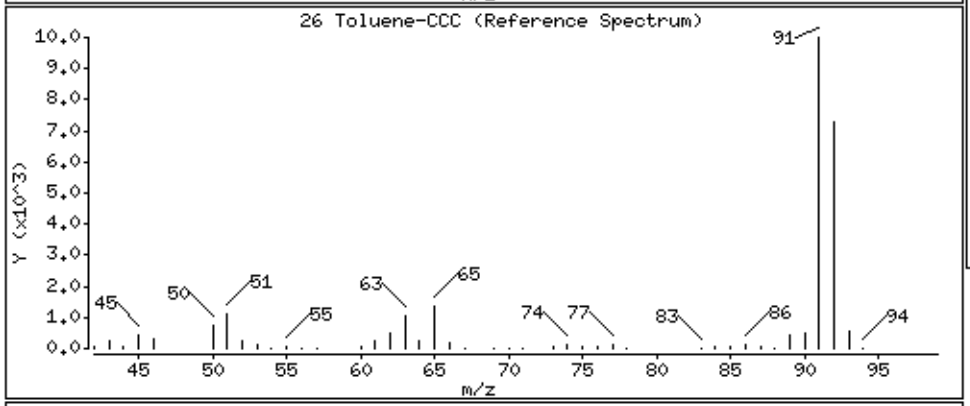
Concentration: 2.01675 ug

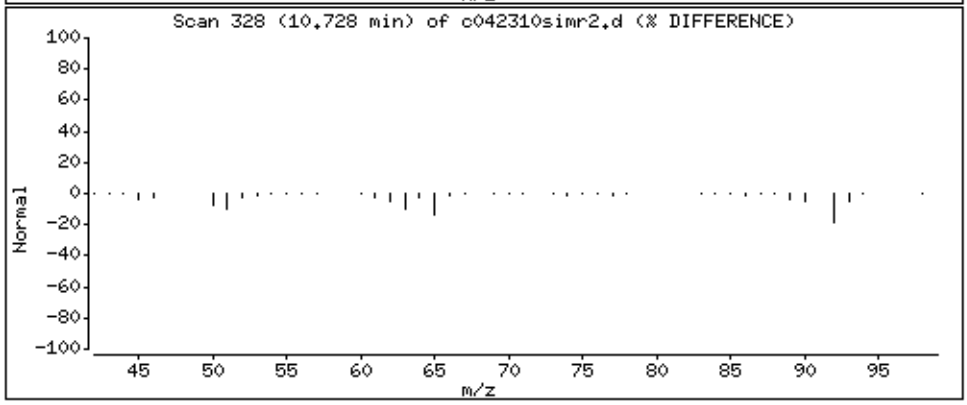












Data File: /chem/msdc.i/23Apr2015.b/c042310simr2.d

Date : 23-APR-2015 13:00

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-02A;

Volume Injected (uL): 1.0

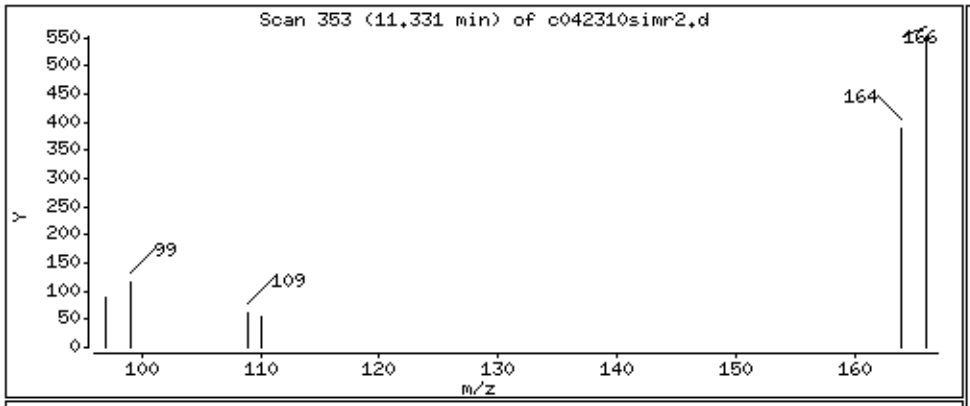
Operator: gm

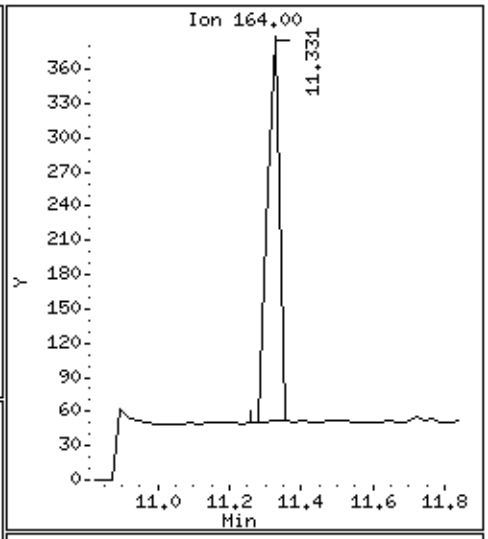
Column phase: DB-5.625

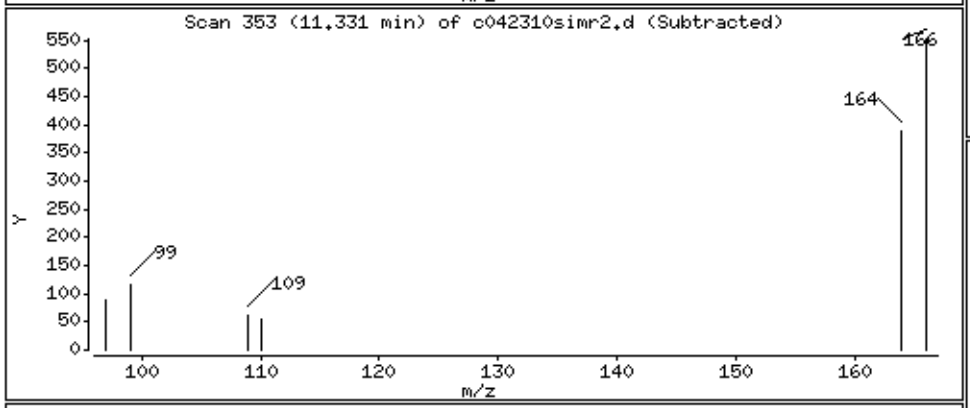
Column diameter: 0.25

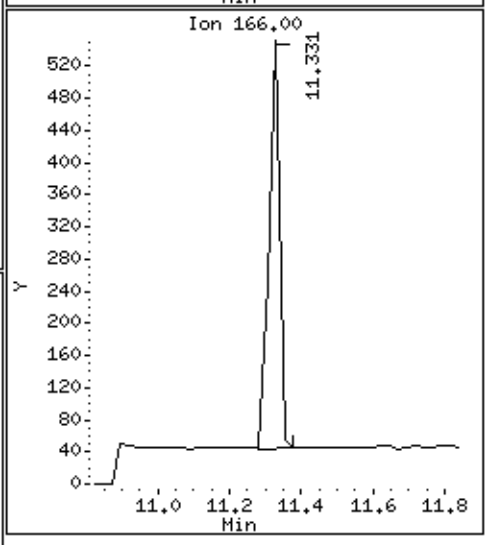
29 Tetrachloroethene

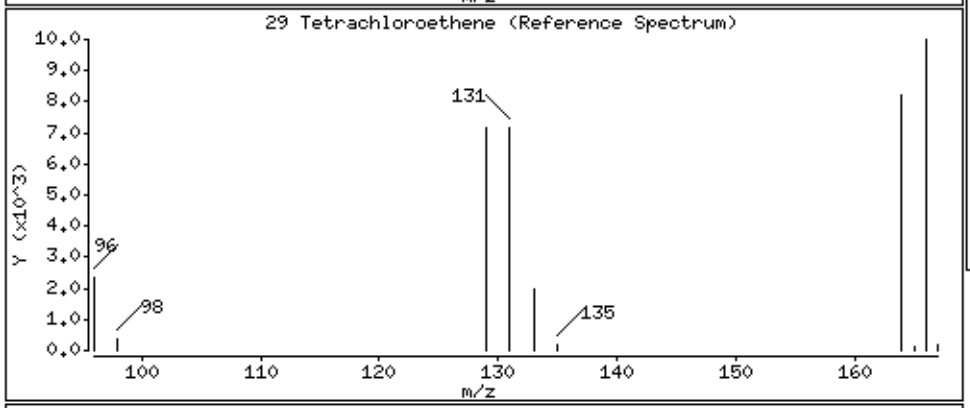
Concentration: 0.0831407 ug

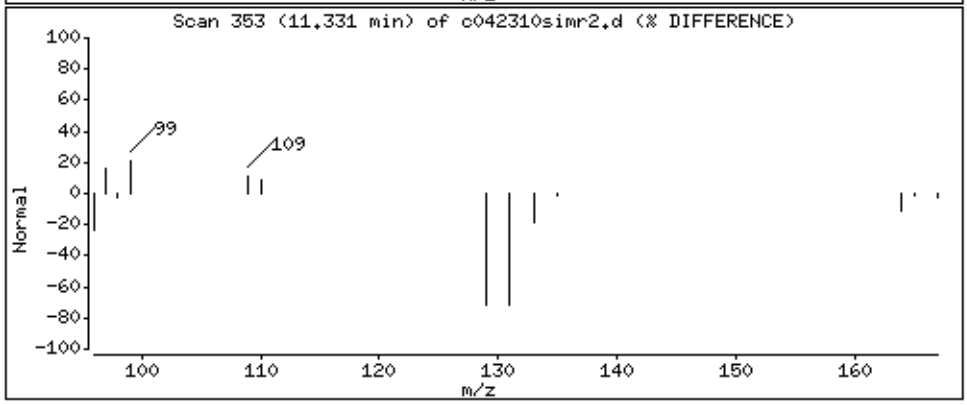












Data File: /chem/msdc.i/23Apr2015.b/c042310simr2.d

Date : 23-APR-2015 13:00

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-02A;

Volume Injected (uL): 1.0

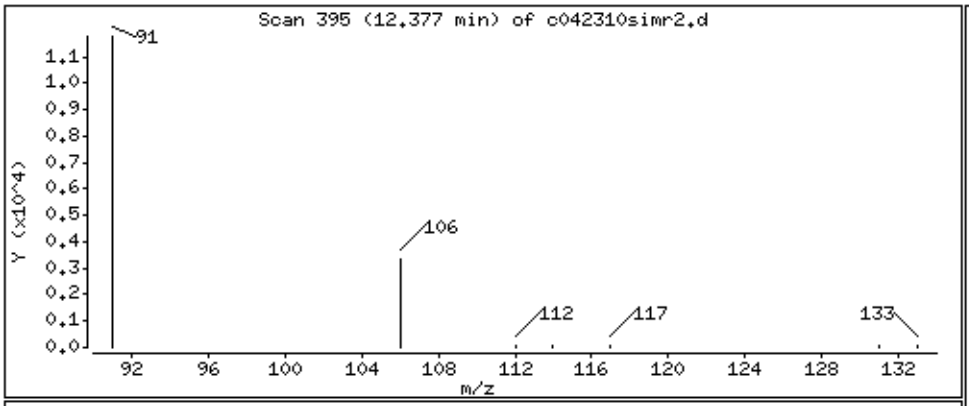
Operator: gm

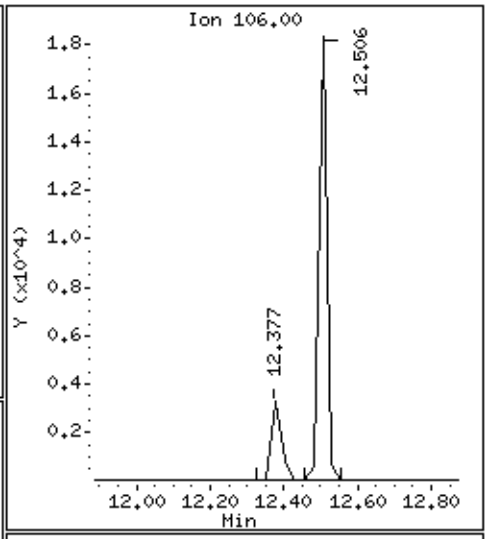
Column phase: DB-5.625

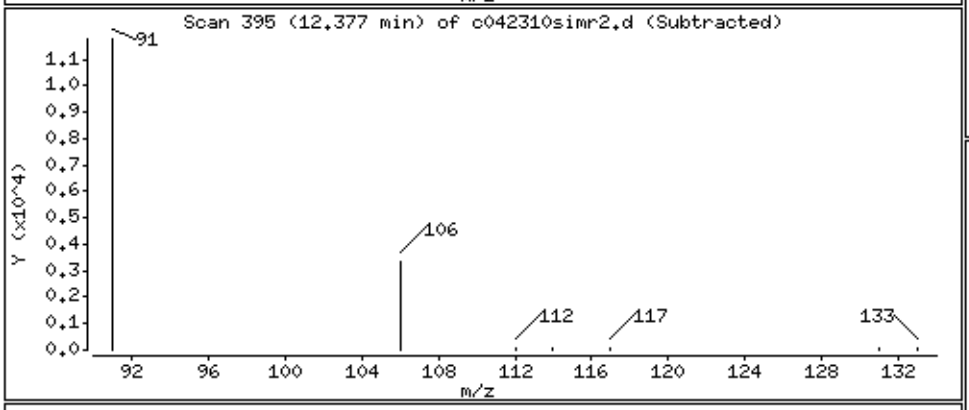
Column diameter: 0.25

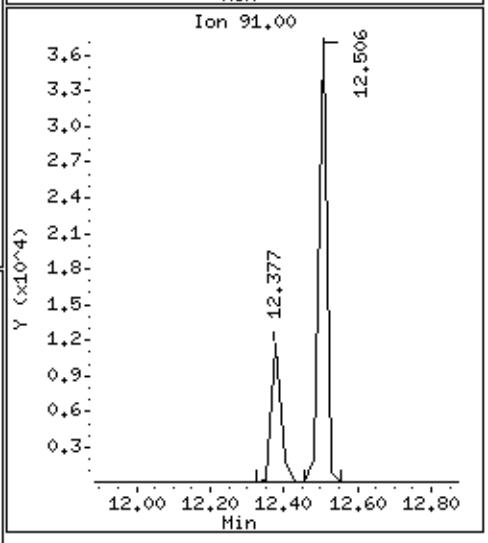
31 Ethylbenzene-CCC

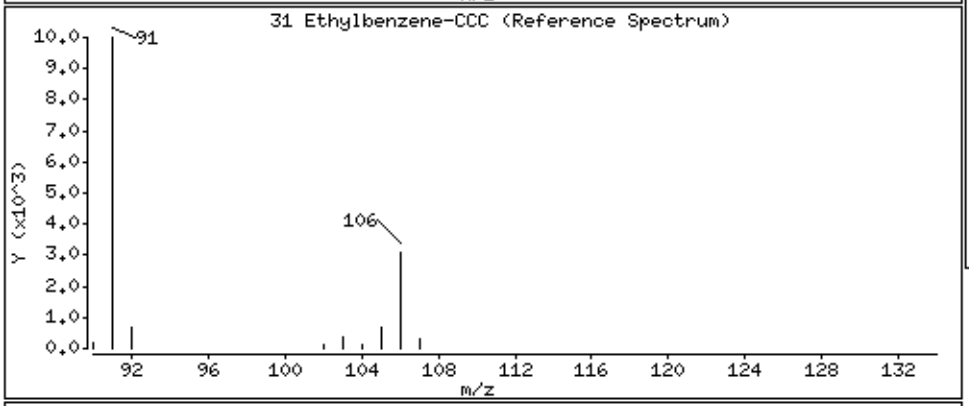
Concentration: 0.476023 ug

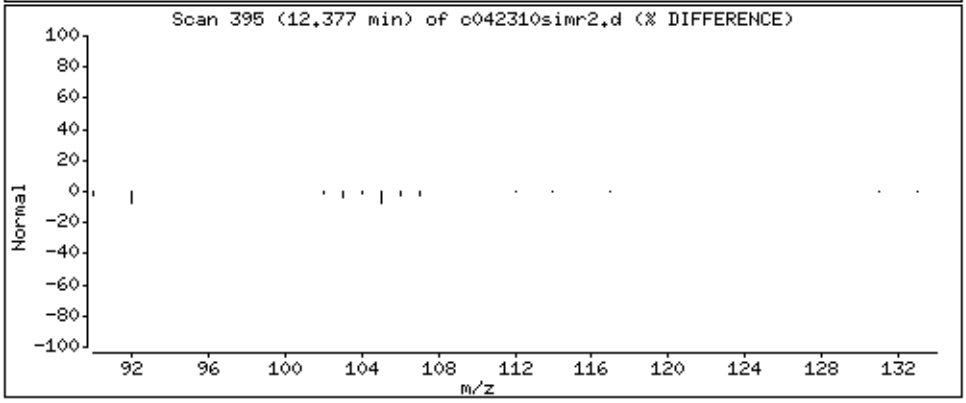












Data File: /chem/msdc.i/23Apr2015.b/c042310simr2.d

Date : 23-APR-2015 13:00

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-02A;

Volume Injected (uL): 1.0

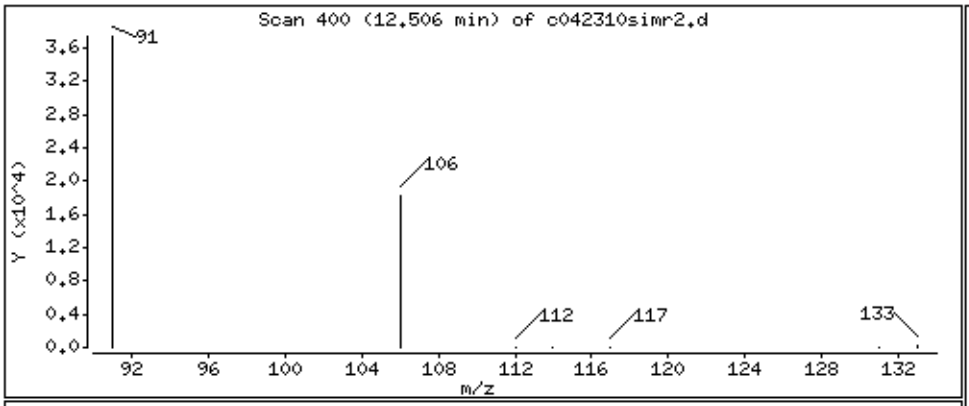
Operator: gm

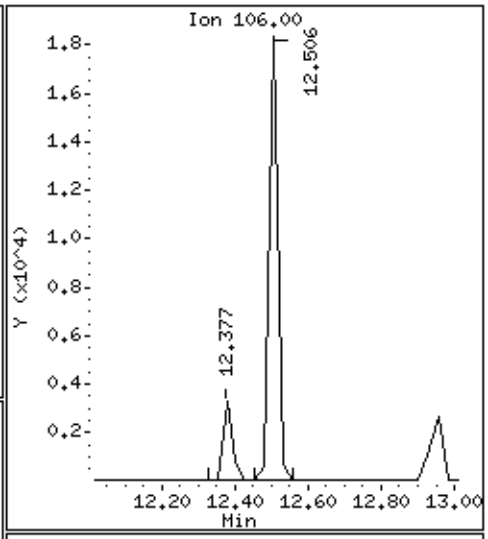
Column phase: DB-5.625

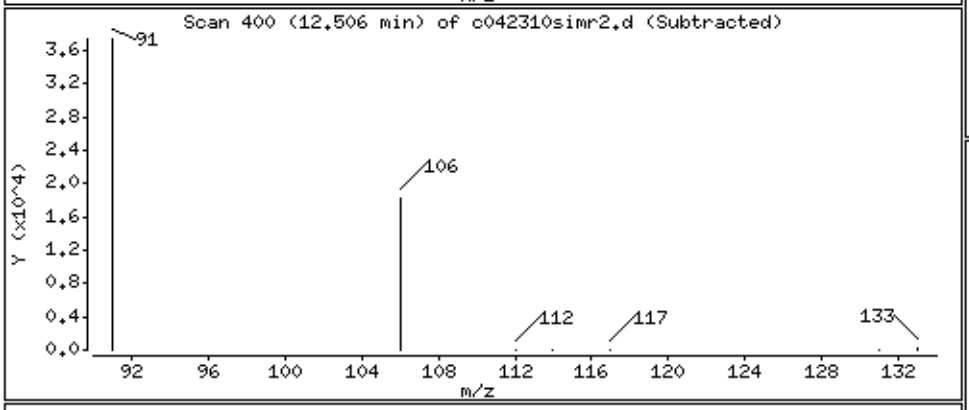
Column diameter: 0.25

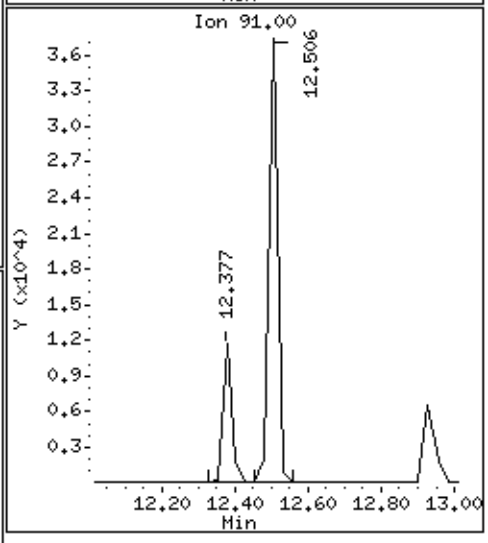
33 m,p-Xylene

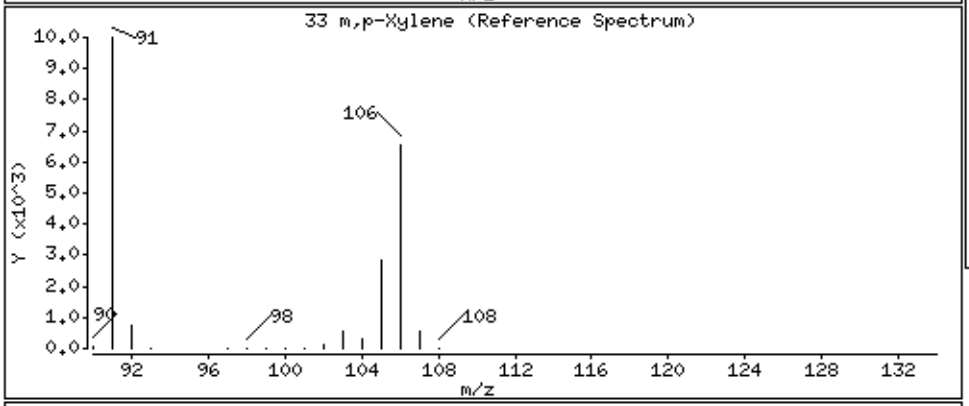
Concentration: 1.62749 ug

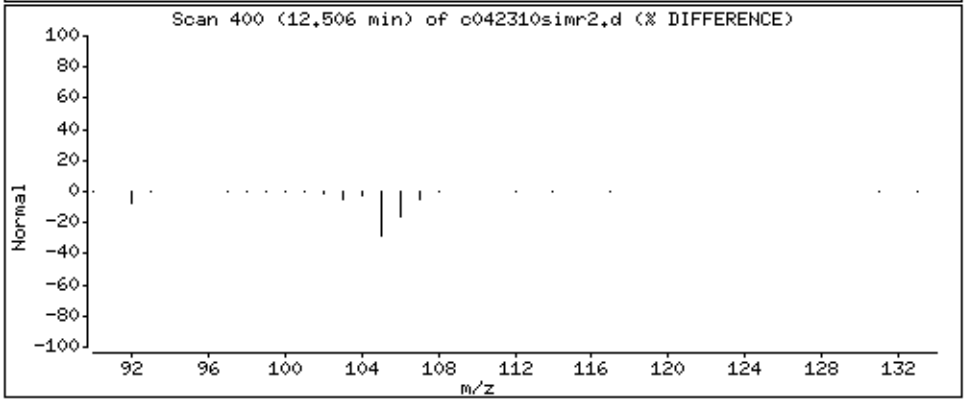












Data File: /chem/msdc.i/23Apr2015.b/c042310simr2.d

Date : 23-APR-2015 13:00

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-02A;

Volume Injected (uL): 1.0

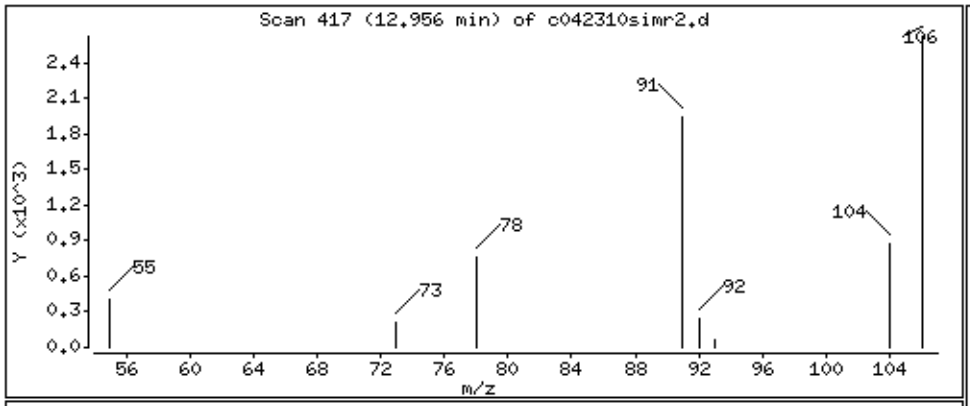
Operator: gm

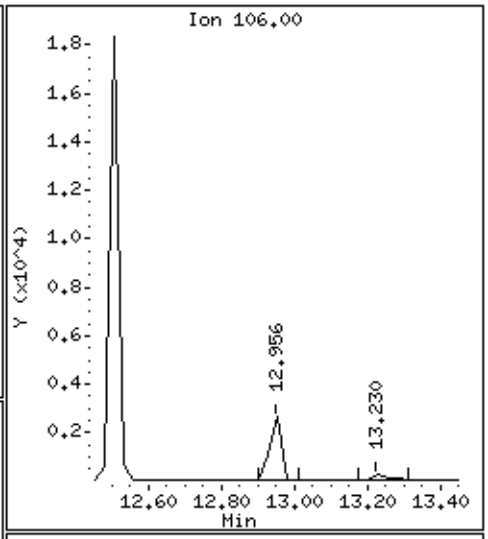
Column phase: DB-5.625

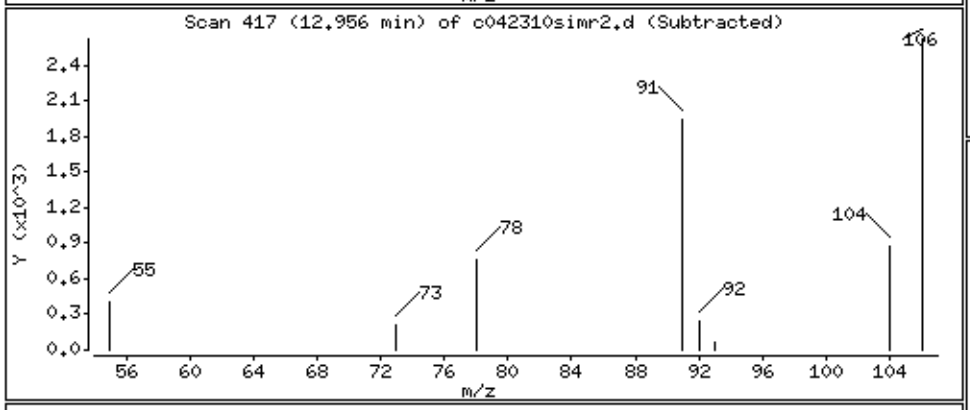
Column diameter: 0.25

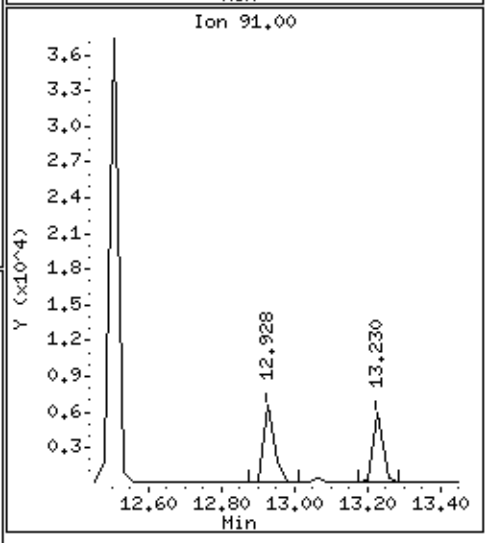
34 o-Xylene

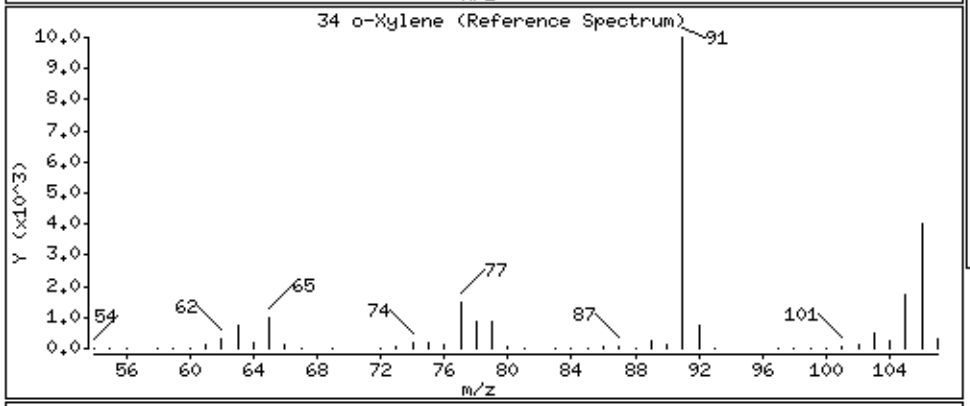
Concentration: 0.407122 ug

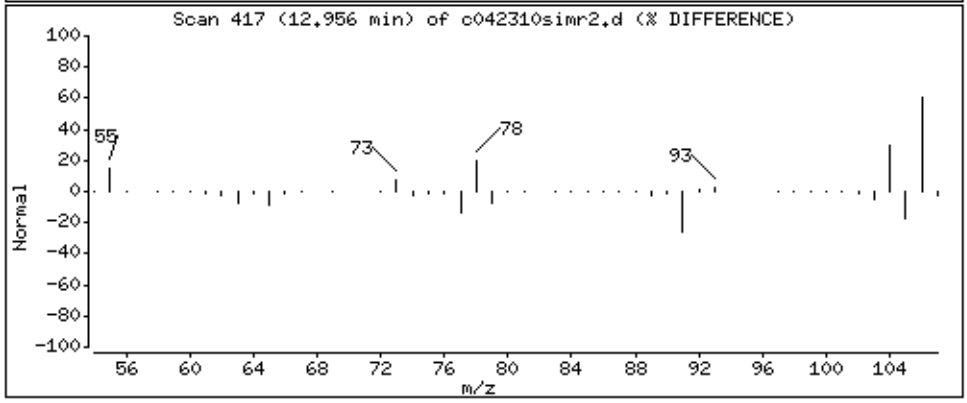












Data File: /chem/msdc.i/23Apr2015.b/c042310simr2.d

Date : 23-APR-2015 13:00

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-02A;

Volume Injected (uL): 1.0

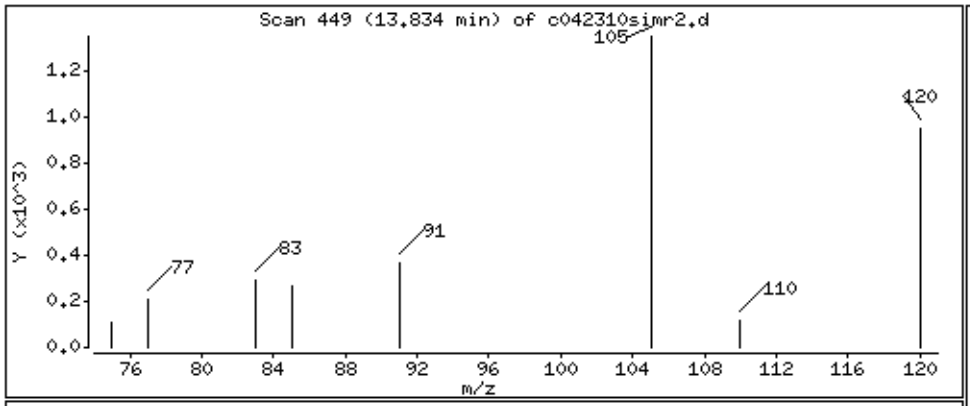
Operator: gm

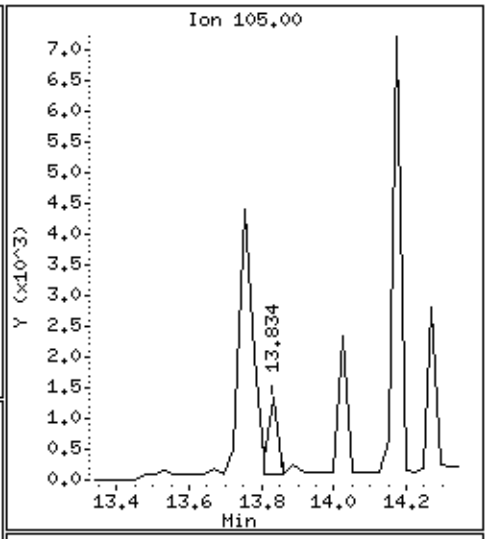
Column phase: DB-5.625

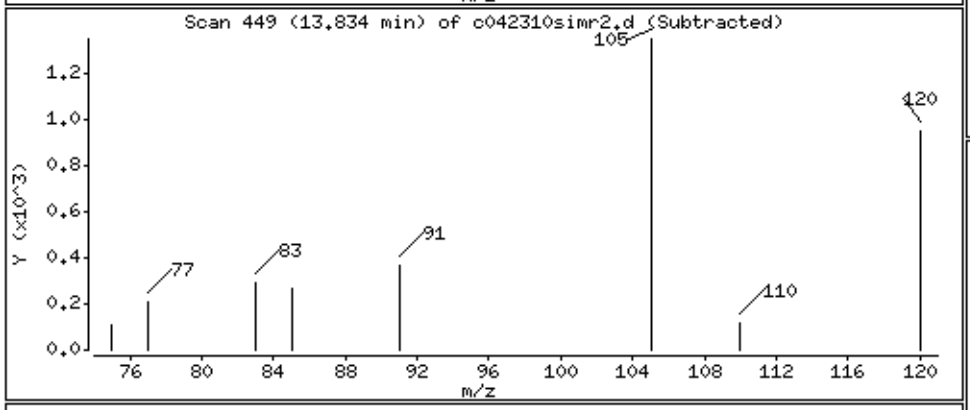
Column diameter: 0.25

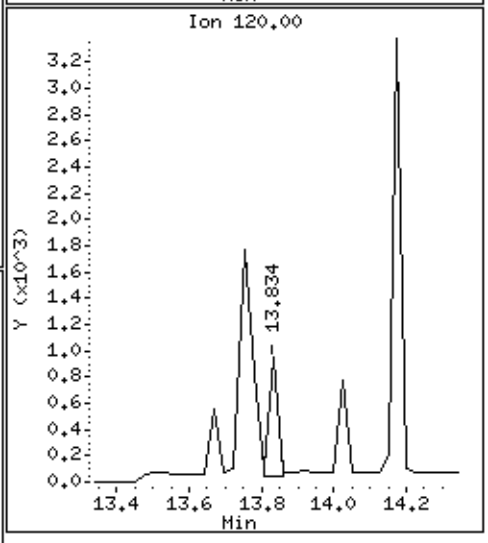
40 1,3,5-Trimethylbenzene

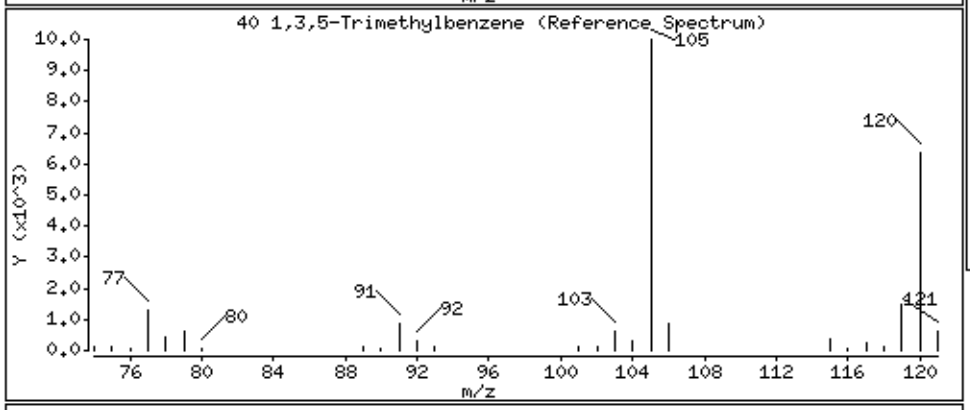
Concentration: 0.0758210 ug

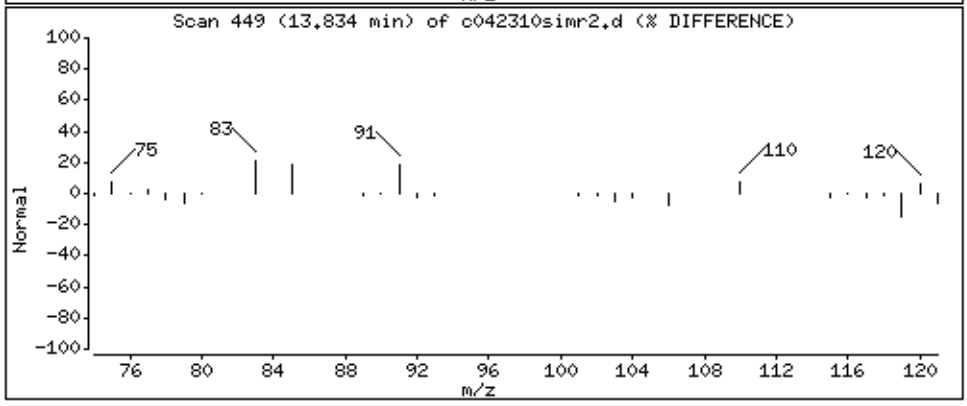












Data File: /chem/msdc.i/23Apr2015.b/c042310simr2.d

Date : 23-APR-2015 13:00

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-02A;

Volume Injected (uL): 1.0

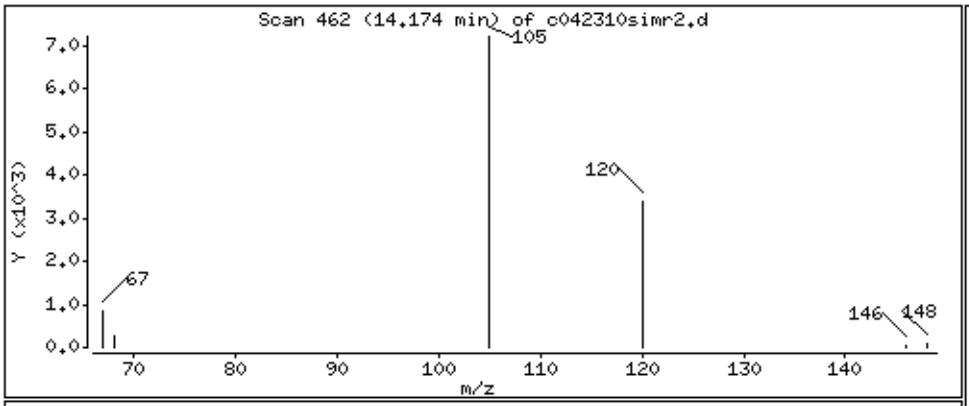
Operator: gm

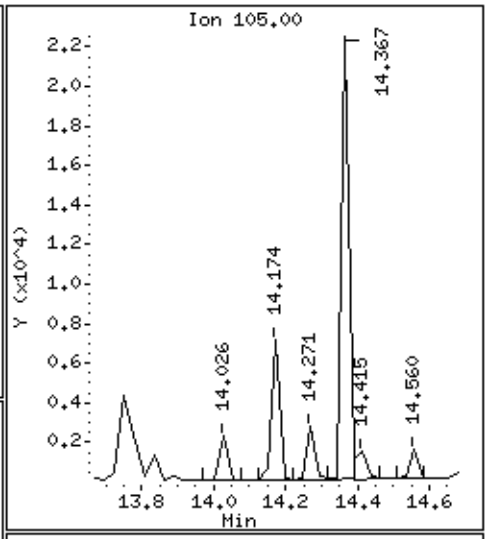
Column phase: DB-5.625

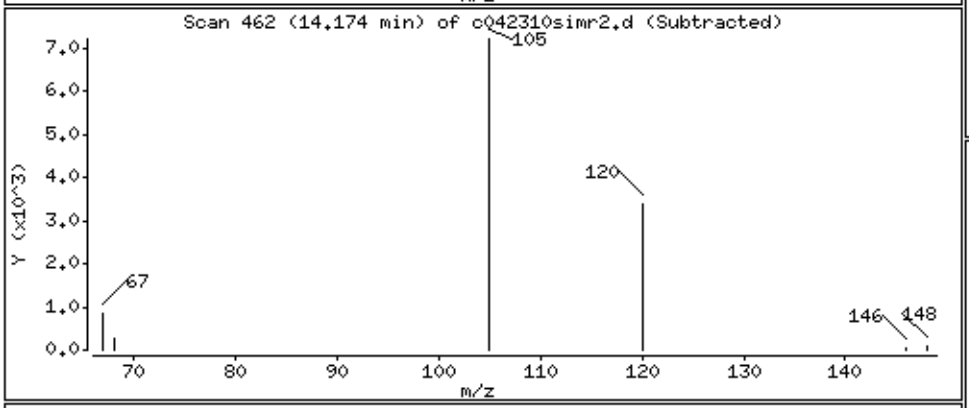
Column diameter: 0.25

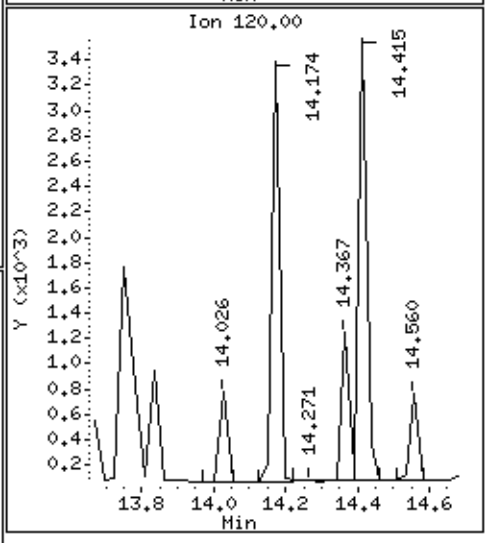
41 1,2,4-Trimethylbenzene

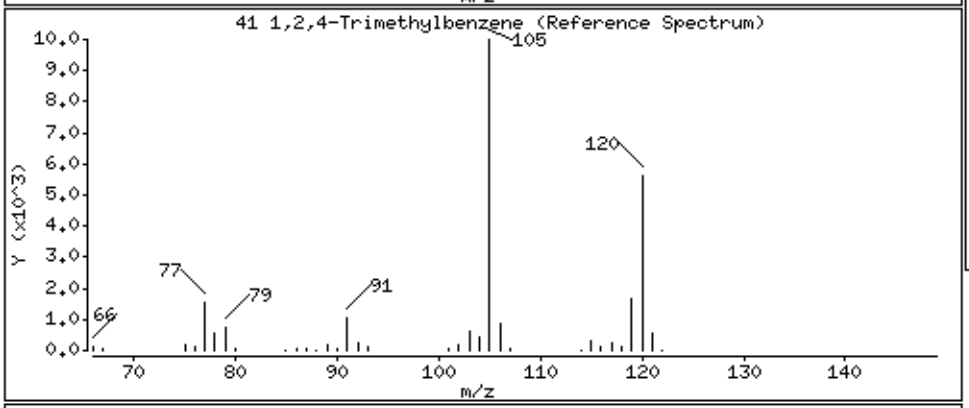
Concentration: 0.265614 ug

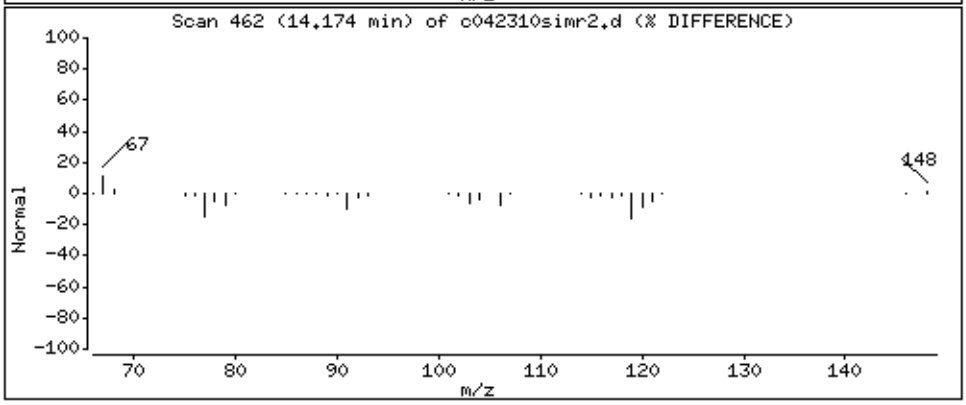












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Summary of Detected Compounds
VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: 5230-OA01-0415

Lab ID#: 1504309R2-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Benzene	0.40	0.48	0.55	0.66
1,2-Dichloroethane	0.10	0.12	0.048 J	0.059 J
Toluene	0.10	0.13	1.3	1.7
Tetrachloroethene	0.10	0.16	0.053 J	0.086 J
Ethyl Benzene	0.10	0.14	0.20	0.29
m,p-Xylene	0.10	0.14	0.70	0.96
o-Xylene	0.10	0.15	0.22	0.32
1,2,4-Trimethylbenzene	0.10	0.19	0.20	0.39
1,3,5-Trimethylbenzene	0.10	0.18	0.060 CJ	0.11 CJ

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Client Sample ID: 5230-OA01-0415

Lab ID#: 1504309R2-03A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**c042311simr1**	**Date of Collection: 4/16/15 2:05:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/15 01:24 PM**	
		Date of Extraction: 4/23/15	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
1,1,1-Trichloroethane	0.10	0.15	Not Detected	Not Detected
Benzene	0.40	0.48	0.55	0.66
1,2-Dichloroethane	0.10	0.12	0.048 J	0.059 J
Trichloroethene	0.10	0.14	Not Detected	Not Detected
Toluene	0.10	0.13	1.3	1.7
Tetrachloroethene	0.10	0.16	0.053 J	0.086 J
Ethyl Benzene	0.10	0.14	0.20	0.29
m,p-Xylene	0.10	0.14	0.70	0.96
o-Xylene	0.10	0.15	0.22	0.32
Naphthalene	0.10	0.38	Not Detected	Not Detected
1,1-Dichloroethane	0.10	0.15	Not Detected C	Not Detected C
1,1-Dichloroethene	0.40	0.50	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.15	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.32	Not Detected C	Not Detected C
1,1,2-Trichloroethane	0.10	0.14	Not Detected C	Not Detected C
1,2,4-Trimethylbenzene	0.10	0.19	0.20	0.39
1,3,5-Trimethylbenzene	0.10	0.18	0.060 CJ	0.11 CJ
Vinyl Chloride	0.40	0.43	Not Detected C	Not Detected C

J = Estimated value.
C = Estimated concentration due to calculated sampling rate.

Temperature = 89.8F , duration time = 10055 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	109	70-130

Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msdc.i/23Apr2015.b/c042311simr1.d
Lab Smp Id: 1504309R1-03A
Inj Date : 23-APR-2015 13:24
Operator : gm Inst ID: msdc.i
Smp Info : ;1504309R1-03A;
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Meth Date : 10-May-2015 12:15 gmash Quant Type: ISTD
Cal Date : 15-APR-2015 11:23 Cal File: c041509sim.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Gilbane.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
2	Vinyl Chloride	62	Compound Not Detected.					
4	1,1-Dichloroethene-CCC	96	Compound Not Detected.					
8	trans-1,2-Dichloroethene	96	Compound Not Detected.					
11	1,1-Dichloroethane-SPCC	63	Compound Not Detected.					
14	cis-1,2-Dichloroethene	96	Compound Not Detected.					
17	1,1,1-Trichloroethane	97	Compound Not Detected.					
19	Benzene	78	8.603	8.603	(0.783)	14813	0.27532	0.550649
20	1,2-Dichloroethane	62	8.696	8.696	(0.791)	589	0.02382	0.0476493(a)
22	Trichloroethene	130	Compound Not Detected.					
$ 25	Toluene-d8	98	10.656	10.656	(0.969)	278260	5.45691	10.9138
26	Toluene-CCC	92	10.728	10.728	(0.976)	29034	0.65917	1.31833
* 27	2-Fluorotoluene	109	10.993	10.993	(1.000)	309792	5.00000	
28	1,1,2-Trichloroethane	97	Compound Not Detected.					
29	Tetrachloroethene	164	11.331	11.331	(1.031)	535	0.02640	0.0528045(a)
31	Ethylbenzene-CCC	106	12.377	12.377	(1.126)	2910	0.10274	0.205488
33	m,p-Xylene	106	12.506	12.506	(1.138)	13880	0.35021	0.700429

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
34 o-Xylene	106	12.956	12.956	(1.178)	3409	0.10823	0.216461
40 1,3,5-Trimethylbenzene	105	13.834	13.834	(1.258)	2127	0.02992	0.0598304(aM)
41 1,2,4-Trimethylbenzene	105	14.174	14.174	(1.289)	9027	0.10067	0.201338
48 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Report Date: 10-May-2015 12:23

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042311simr1.d
Lab Smp Id: 1504309R1-03A
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

Calibration Date: 23-APR-2015
Calibration Time: 09:09
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	324554	162277	649108	309792	-4.55

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	10.99	10.49	11.49	10.99	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 10-May-2015 12:23

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 23Apr2015
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 1504309R1-03A
Level: MED Operator: gm
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS-CM.spk Quant Type: ISTD
Sublist File: Gilbane.sub
Method File: /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 25 Toluene-d8	10.0000	10.9138	109.14	70-130

Data File: /chem/msdc.i/23Apr2015.b/c042311simr1.d

Date : 23-APR-2015 13:24

Client ID:

Instrument: msdc.i

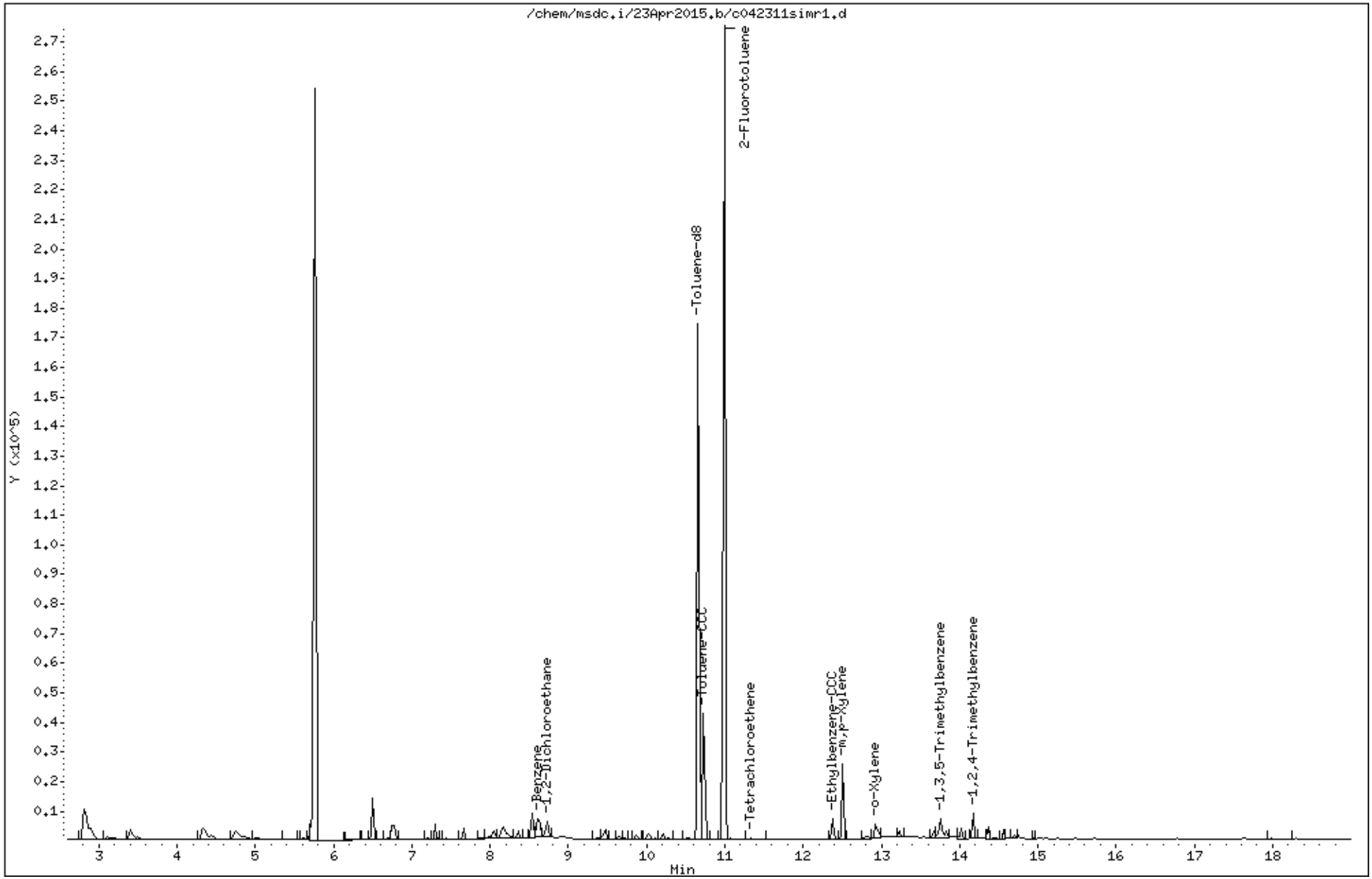
Sample Info: ;1504309R1-03A;

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdc.i/23Apr2015.b/c042311simr1.d

Date : 23-APR-2015 13:24

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-03A;

Volume Injected (uL): 1.0

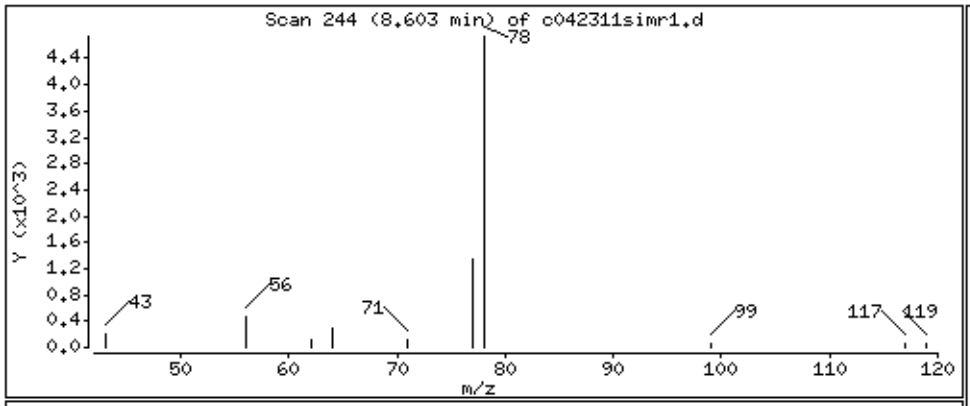
Operator: gm

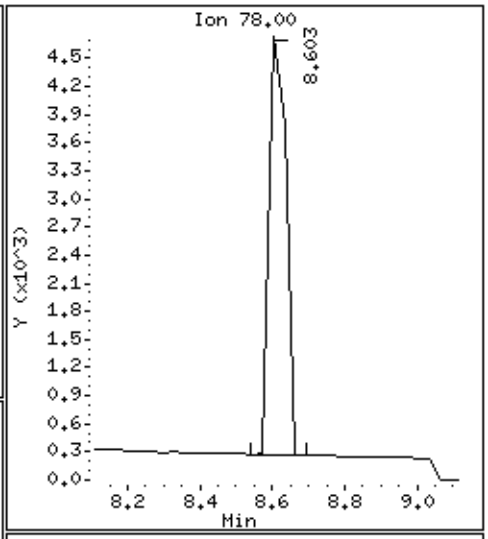
Column phase: DB-5.625

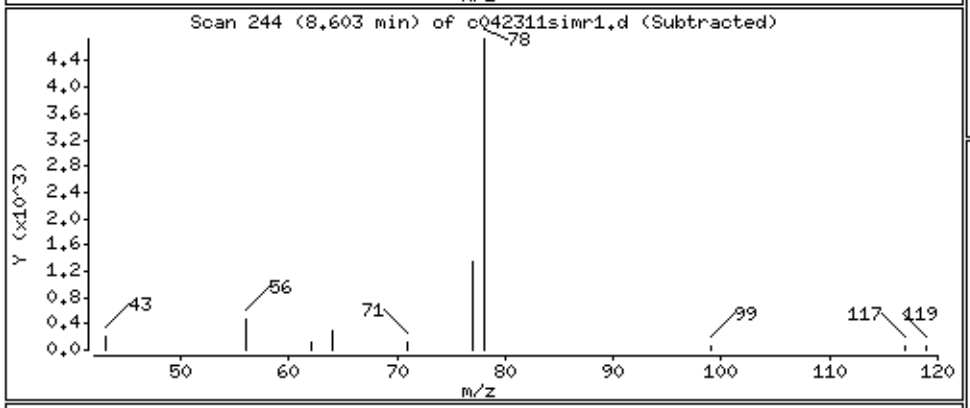
Column diameter: 0.25

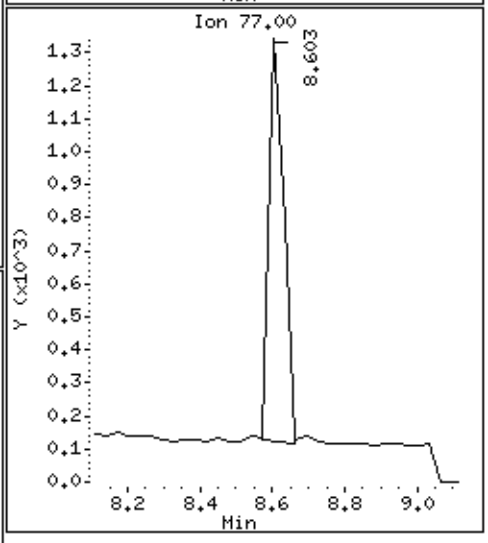
19 Benzene

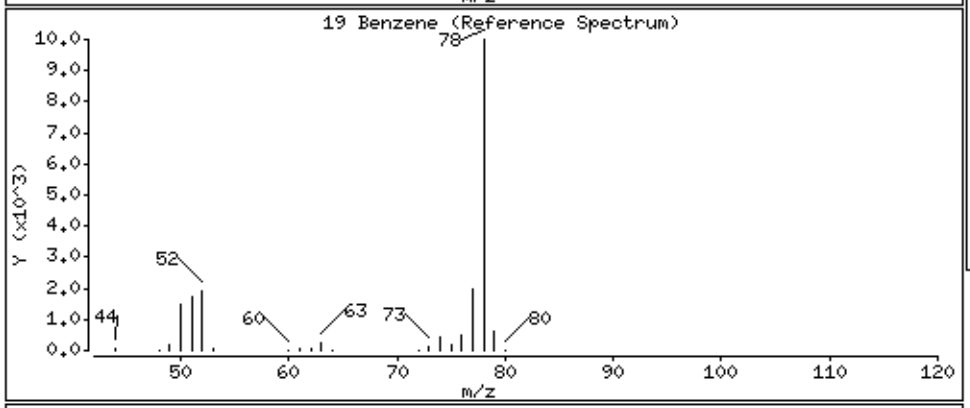
Concentration: 0.550649 ug

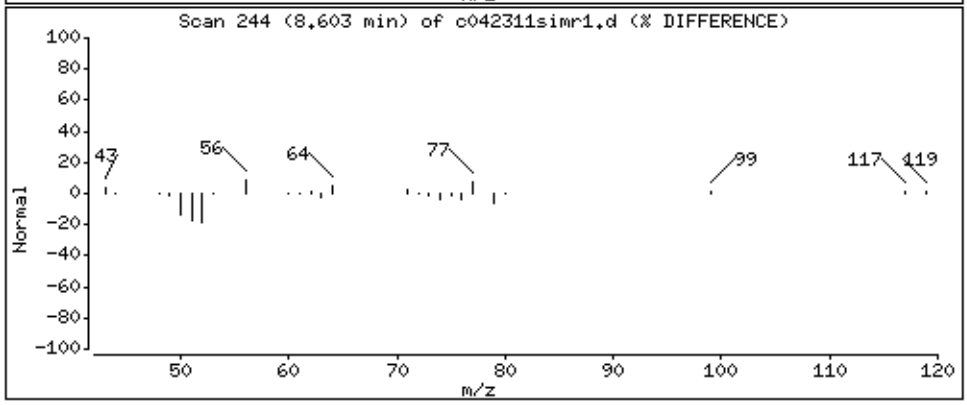












Data File: /chem/msdc.i/23Apr2015.b/c042311simr1.d

Date : 23-APR-2015 13:24

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-03A;

Volume Injected (uL): 1.0

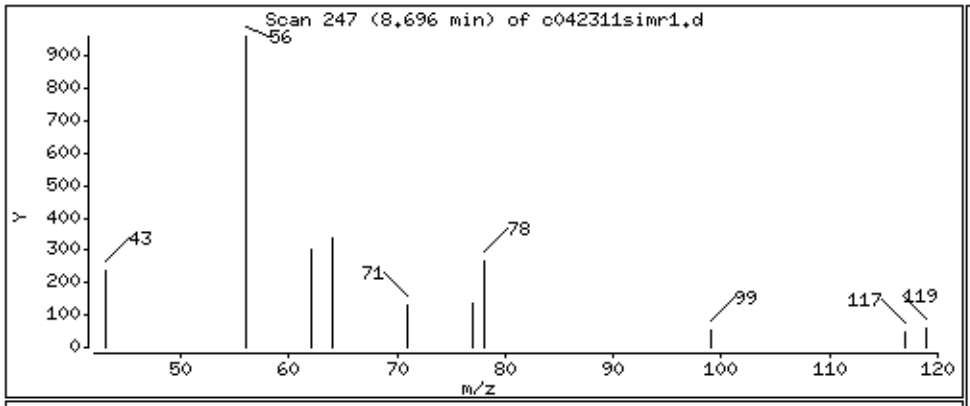
Operator: gm

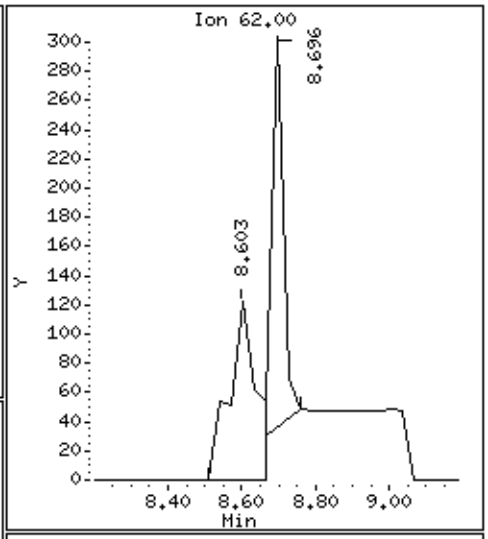
Column phase: DB-5.625

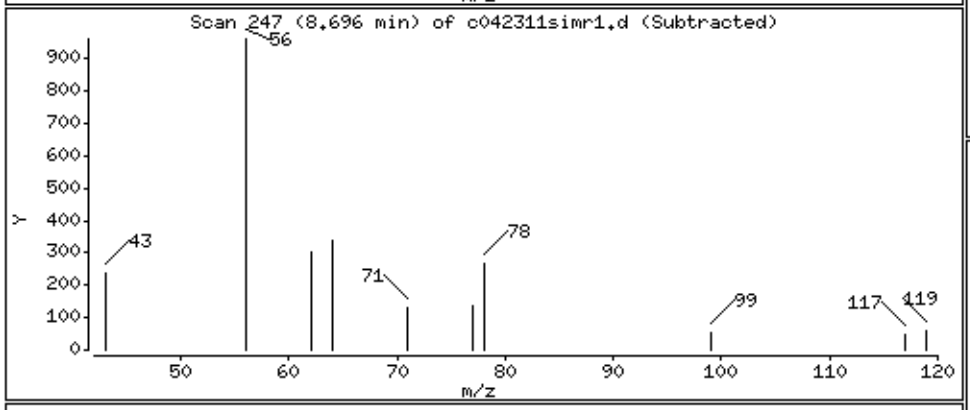
Column diameter: 0.25

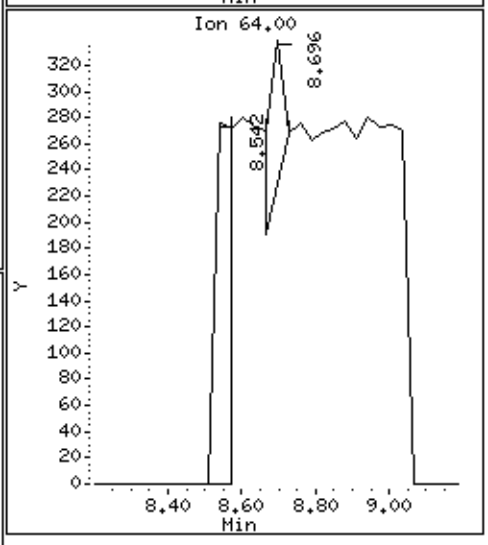
20 1,2-Dichloroethane

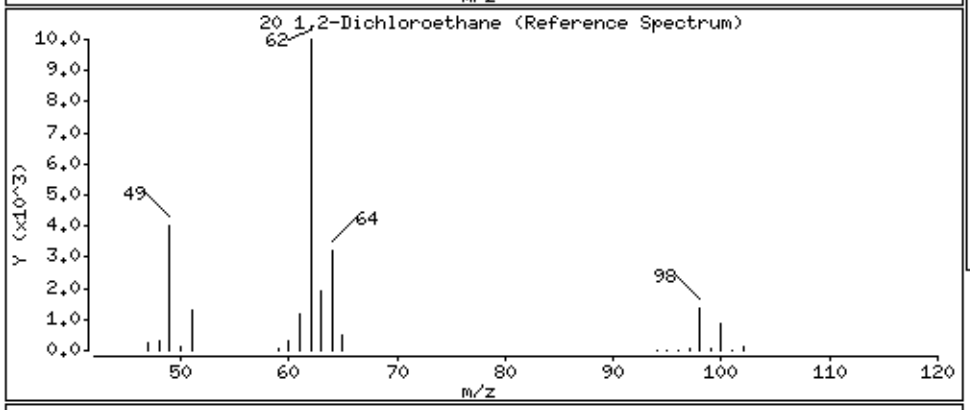
Concentration: 0.0476493 ug

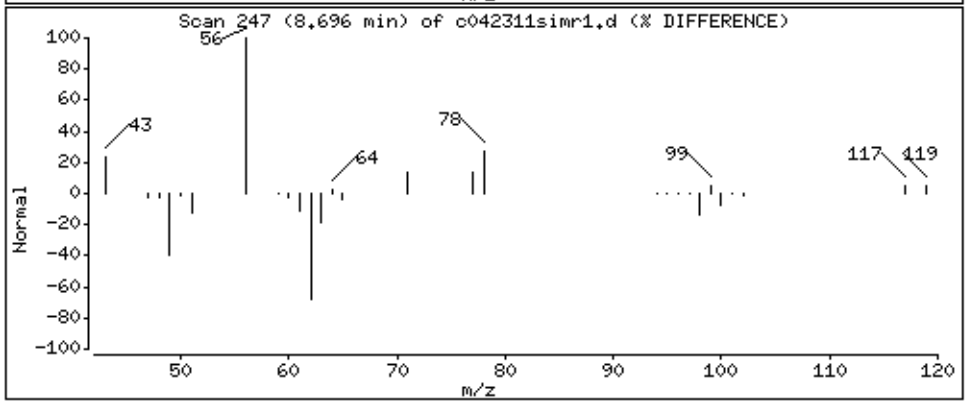












Data File: /chem/msdc.i/23Apr2015.b/c042311simr1.d

Date : 23-APR-2015 13:24

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-03A;

Volume Injected (uL): 1.0

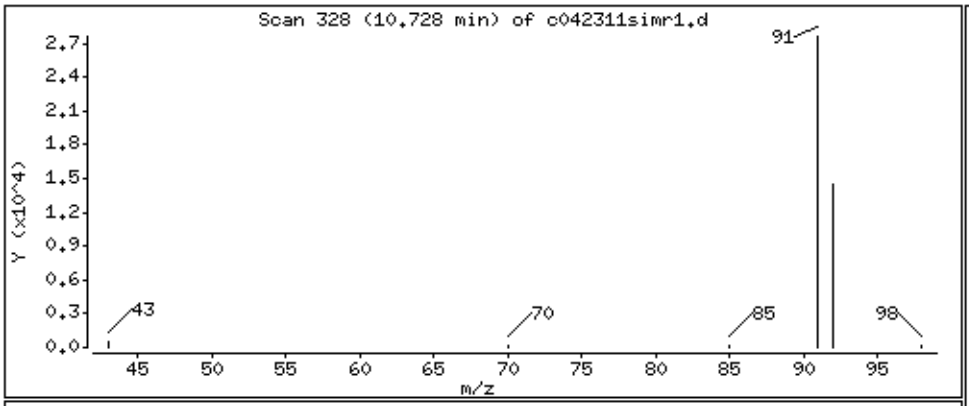
Operator: gm

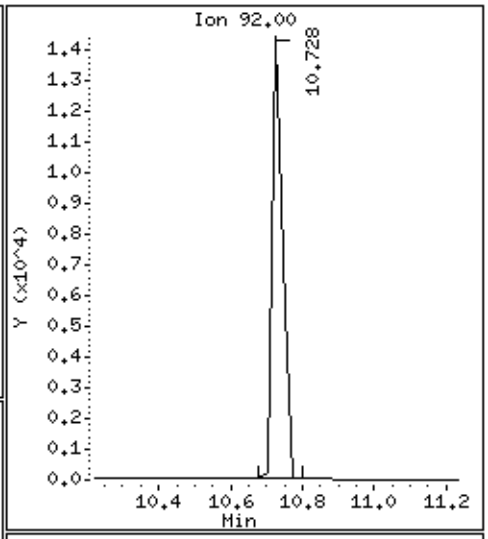
Column phase: DB-5.625

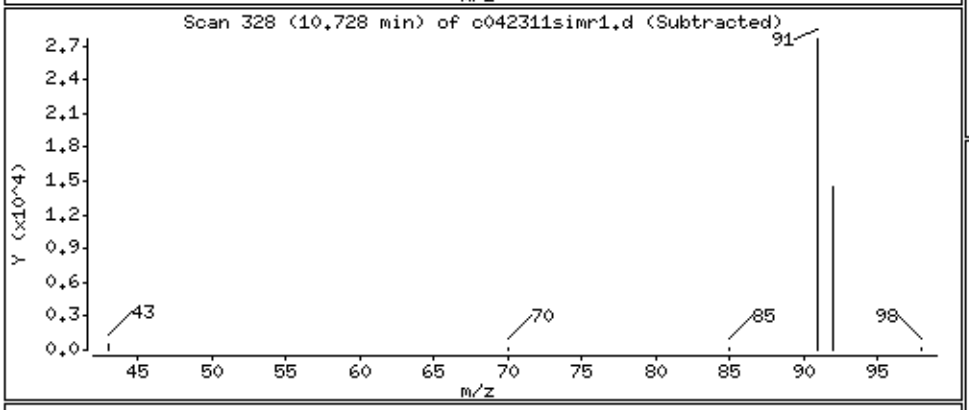
Column diameter: 0.25

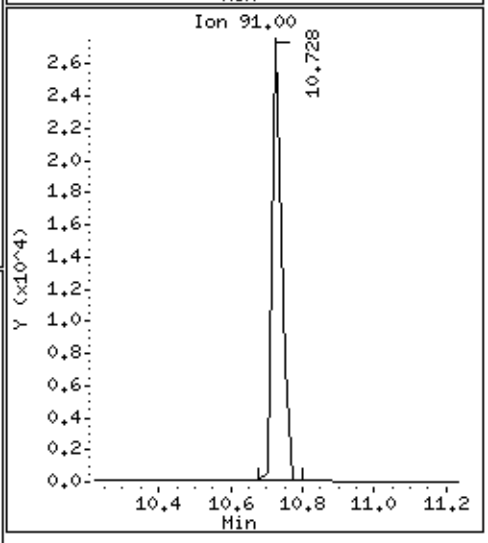
26 Toluene-CCC

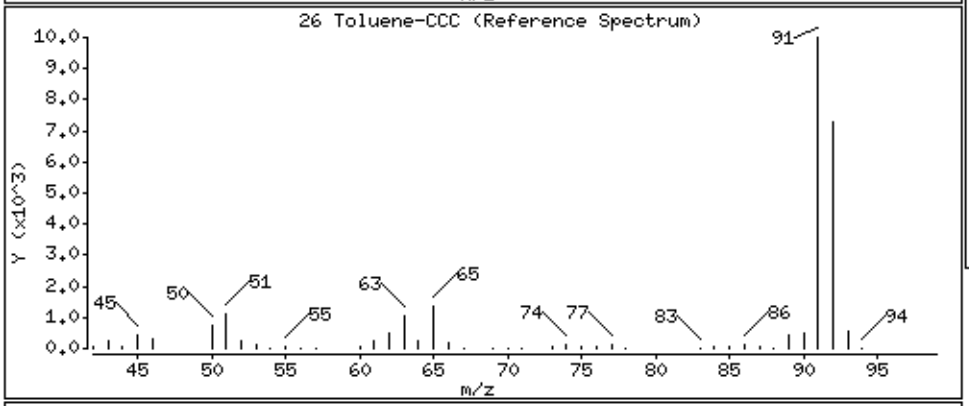
Concentration: 1.31833 ug

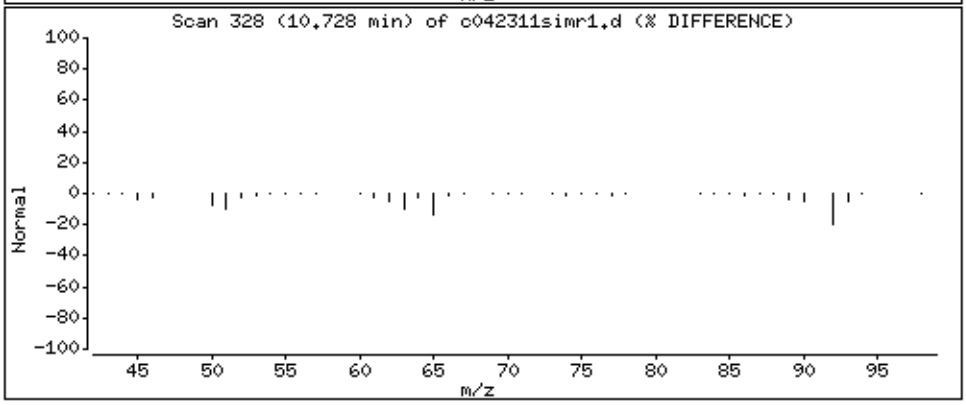












Data File: /chem/msdc.i/23Apr2015.b/c042311simr1.d

Date : 23-APR-2015 13:24

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-03A;

Volume Injected (uL): 1.0

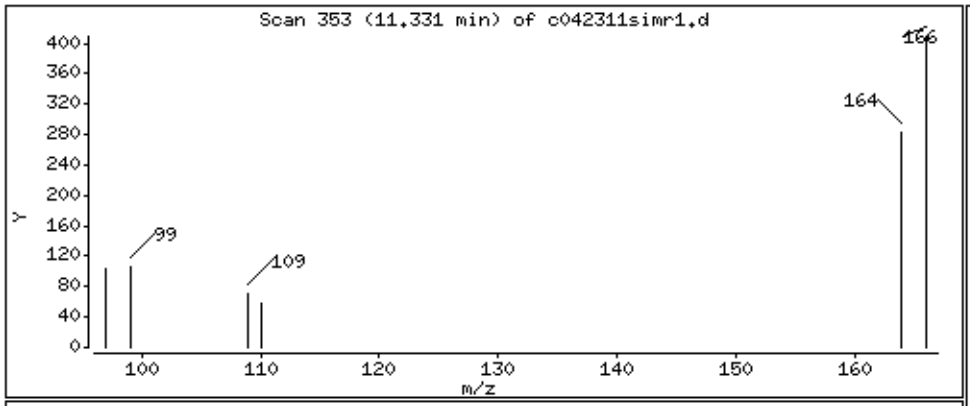
Operator: gm

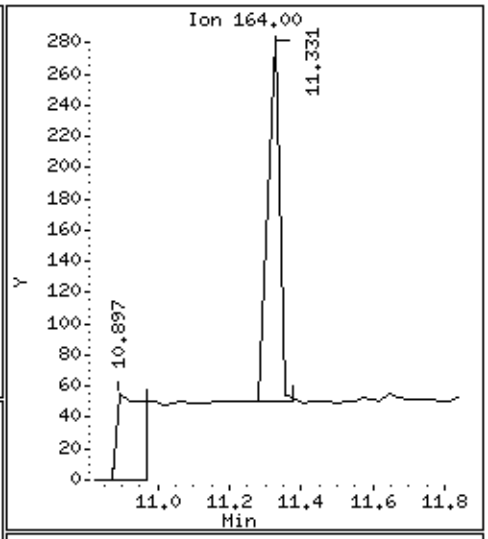
Column phase: DB-5.625

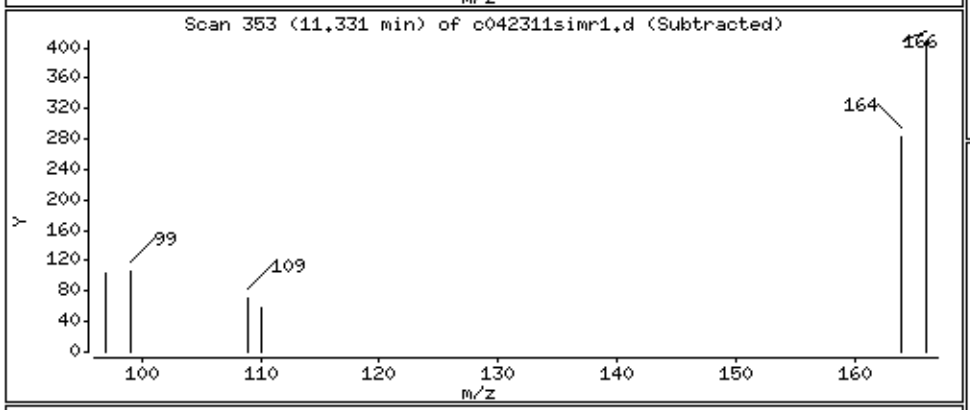
Column diameter: 0.25

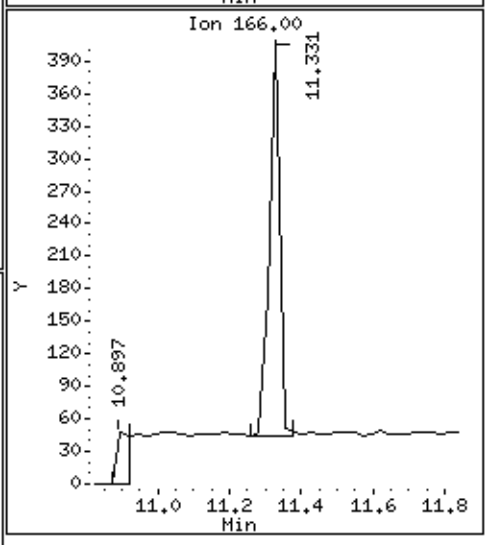
29 Tetrachloroethene

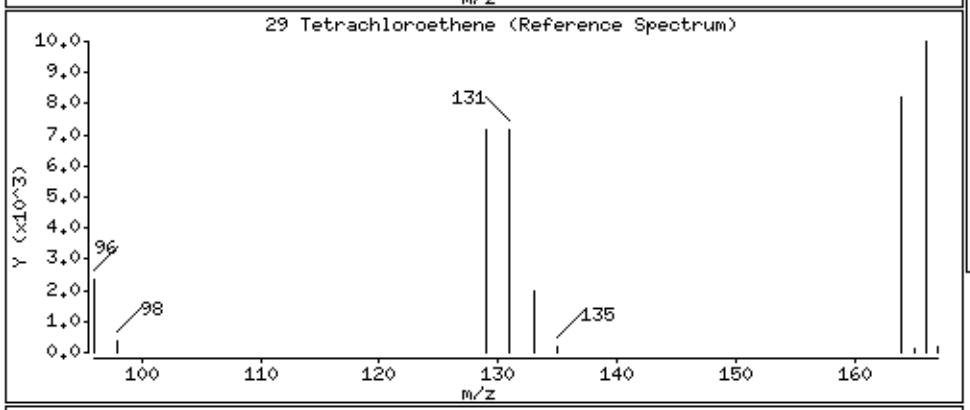
Concentration: 0.0528045 ug

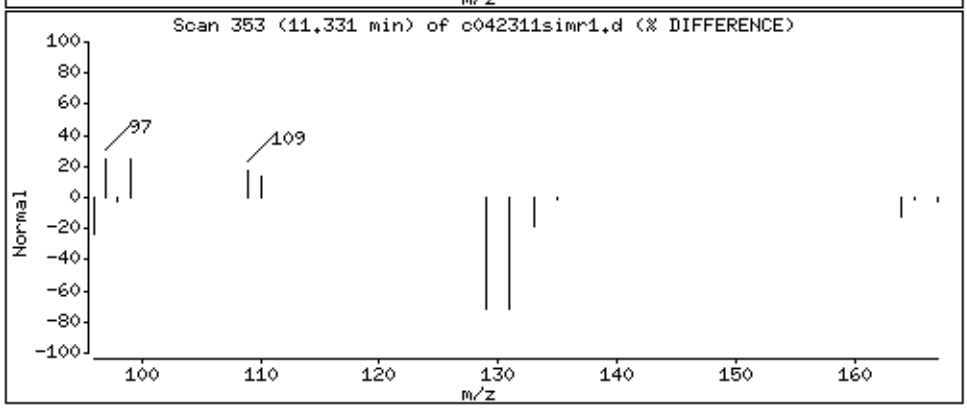












Data File: /chem/msdc.i/23Apr2015.b/c042311simr1.d

Date : 23-APR-2015 13:24

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-03A;

Volume Injected (uL): 1.0

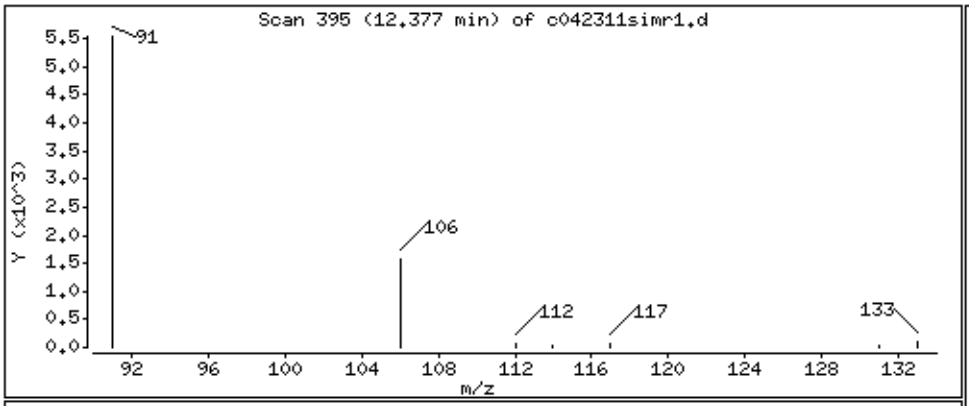
Operator: gm

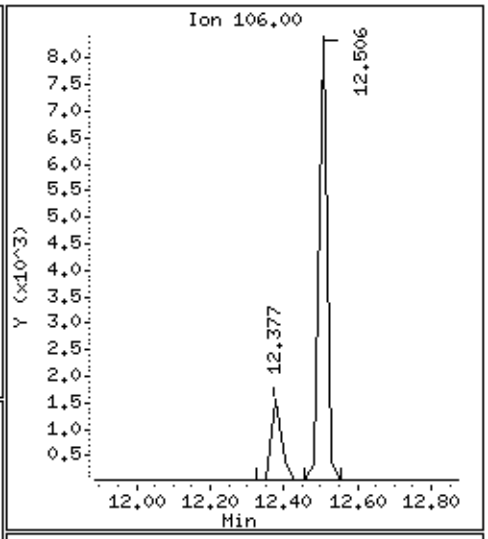
Column phase: DB-5.625

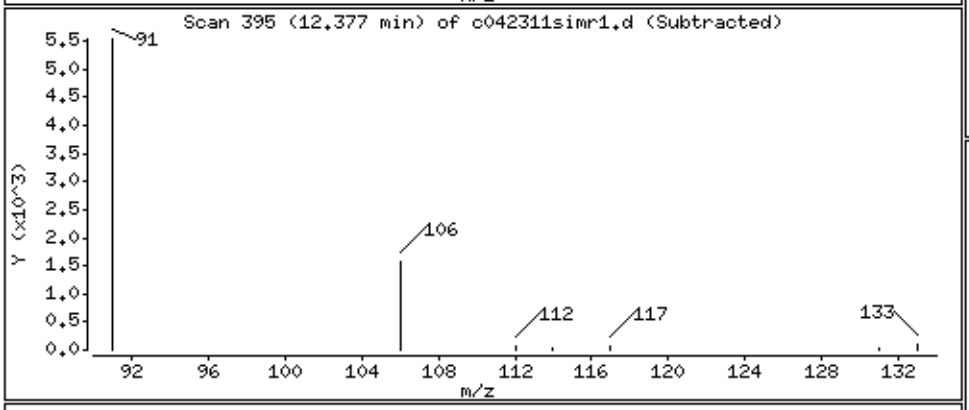
Column diameter: 0.25

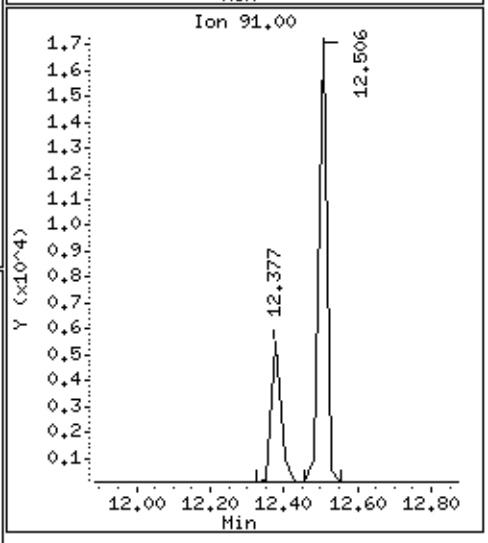
31 Ethylbenzene-CCC

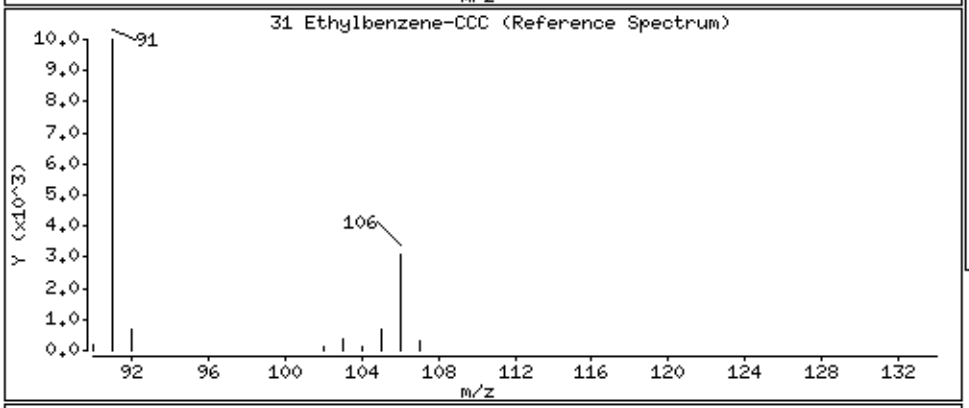
Concentration: 0.205488 ug

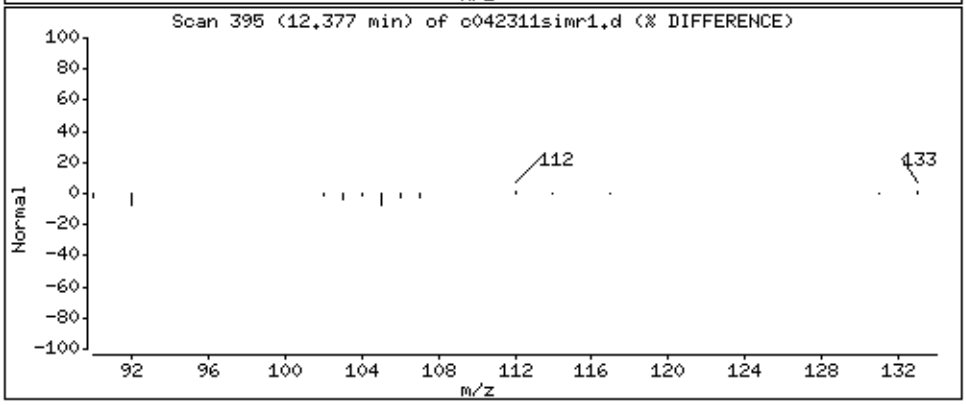












Data File: /chem/msdc.i/23Apr2015.b/c042311simr1.d

Date : 23-APR-2015 13:24

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-03A;

Volume Injected (uL): 1.0

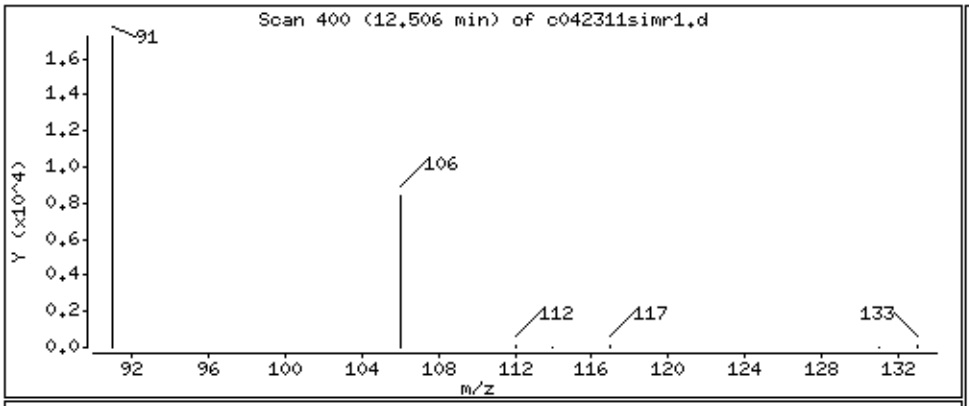
Operator: gm

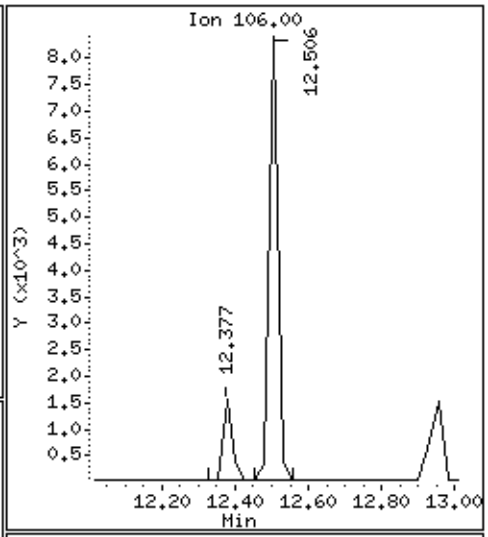
Column phase: DB-5.625

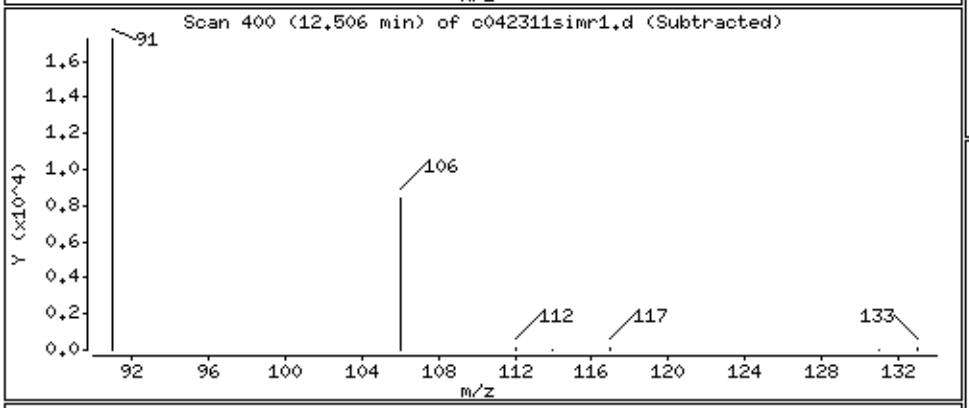
Column diameter: 0.25

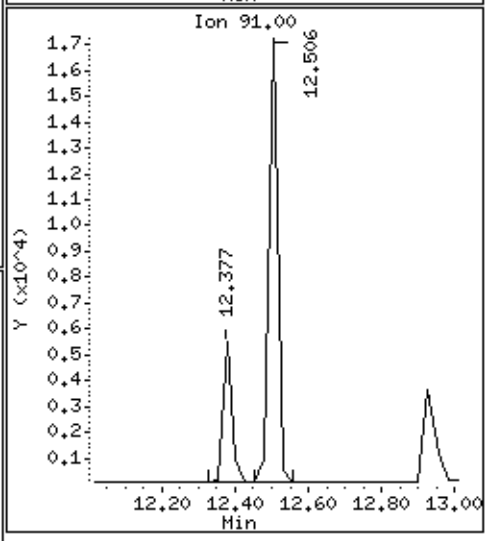
33 m,p-Xylene

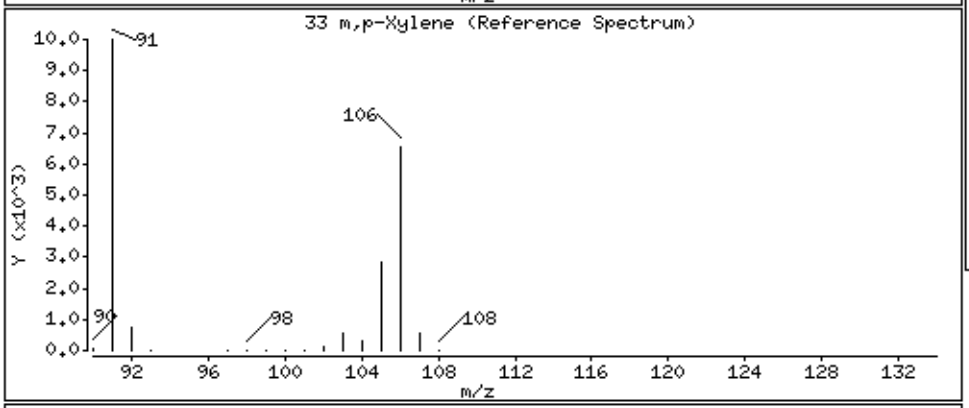
Concentration: 0.700429 ug

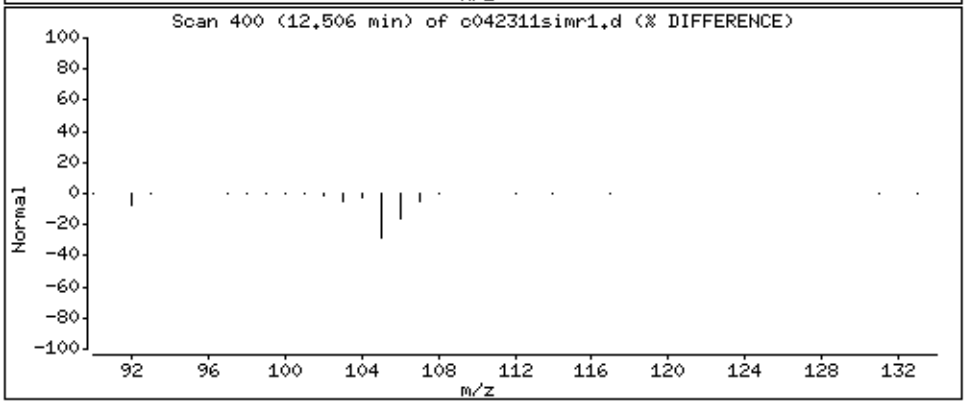












Data File: /chem/msdc.i/23Apr2015.b/c042311simr1.d

Date : 23-APR-2015 13:24

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-03A;

Volume Injected (uL): 1.0

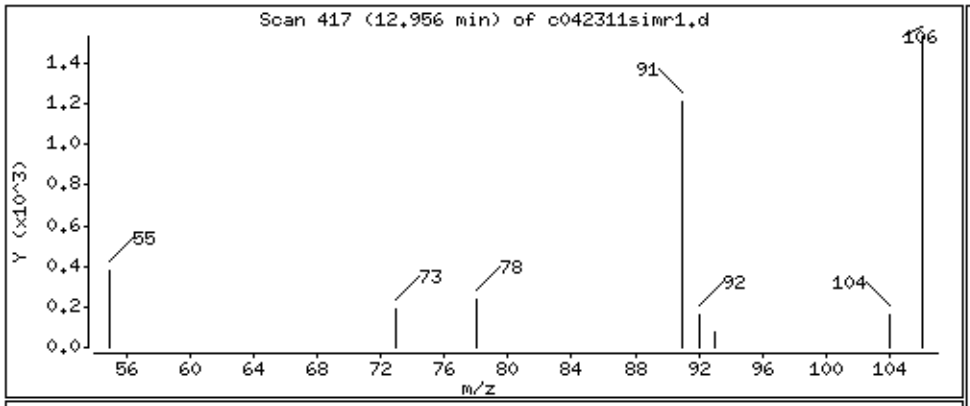
Operator: gm

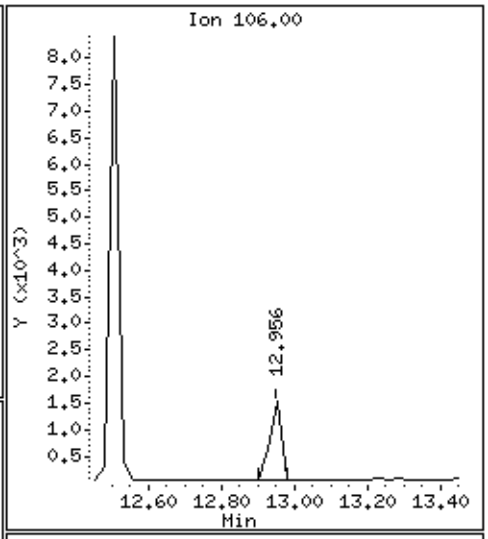
Column phase: DB-5.625

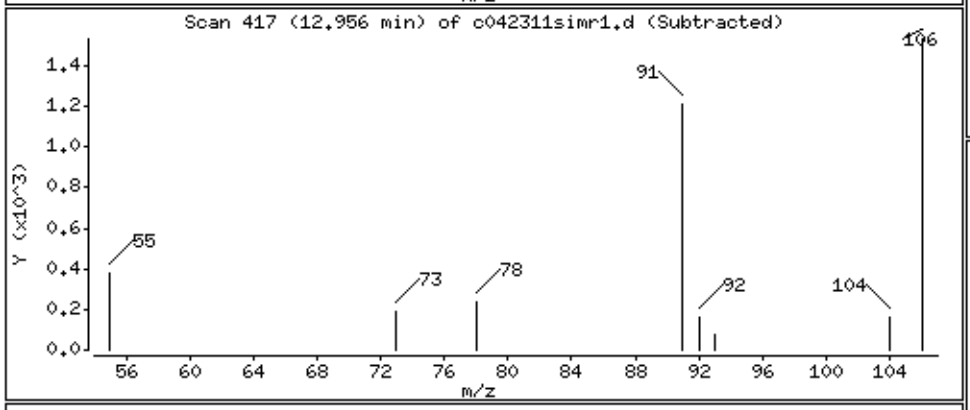
Column diameter: 0.25

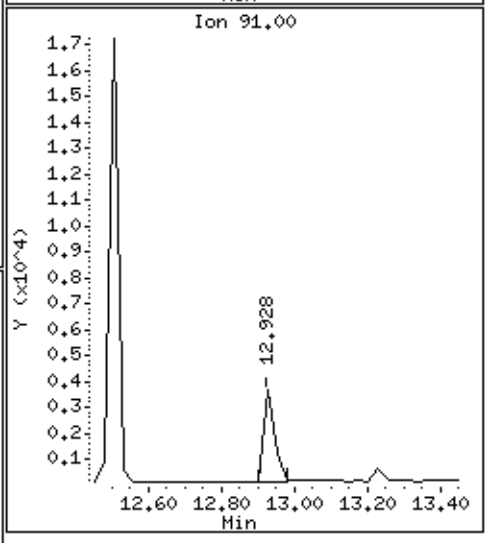
34 o-Xylene

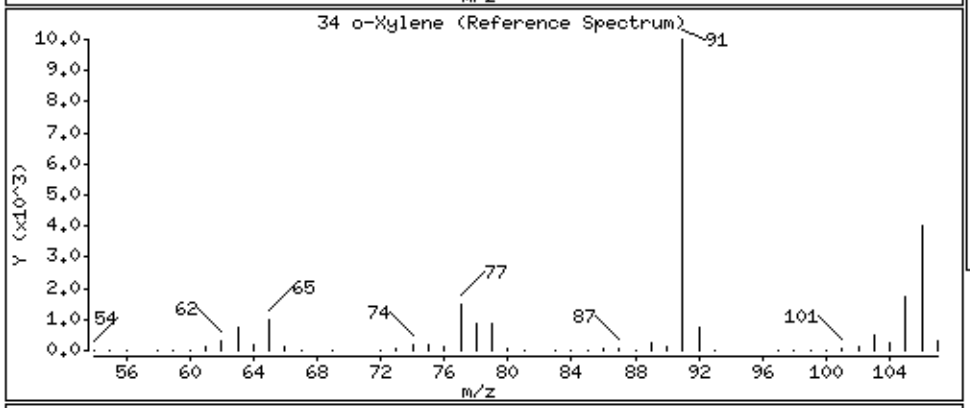
Concentration: 0.216461 ug

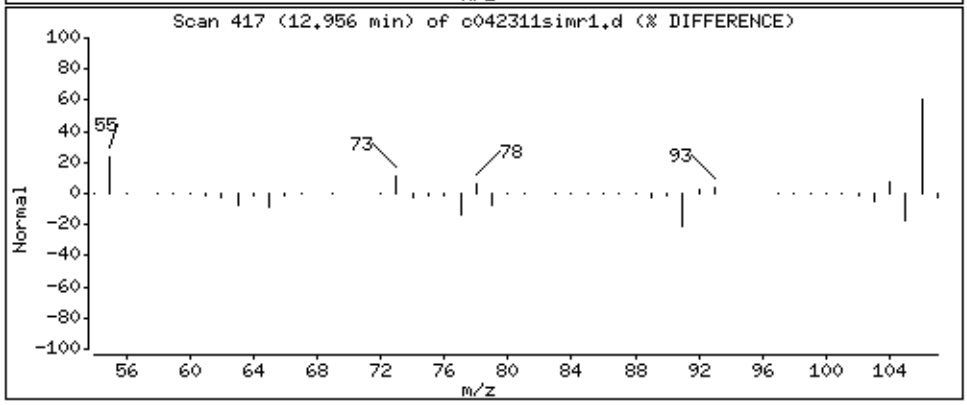












Data File: /chem/msdc.i/23Apr2015.b/c042311simr1.d

Date : 23-APR-2015 13:24

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-03A;

Volume Injected (uL): 1.0

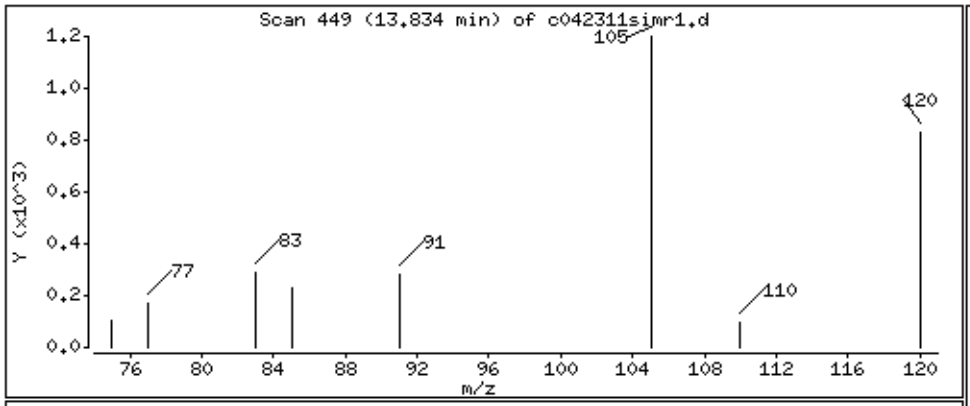
Operator: gm

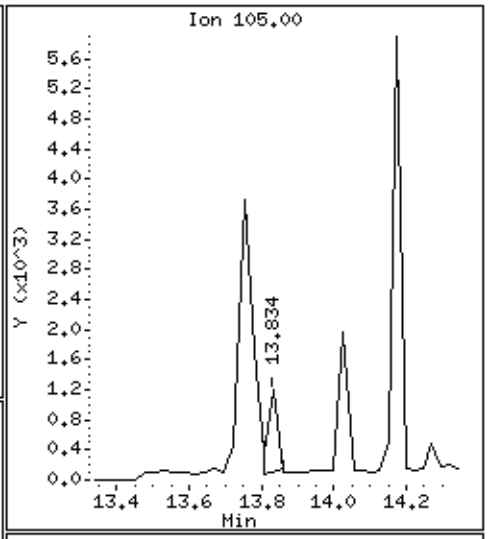
Column phase: DB-5.625

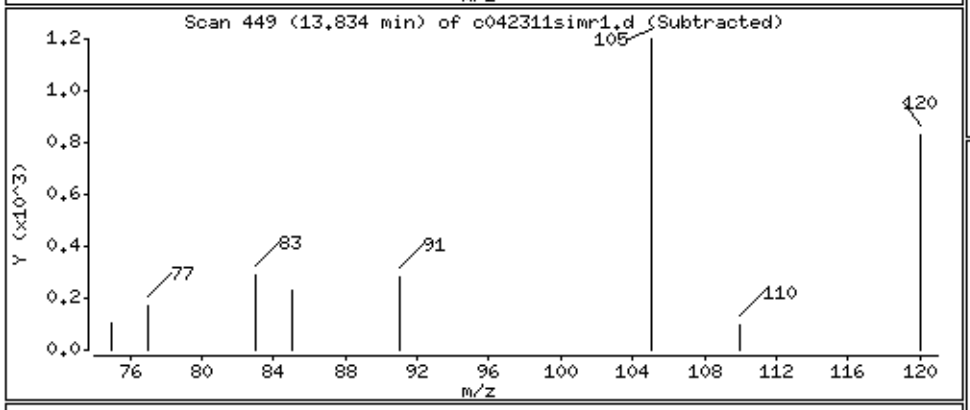
Column diameter: 0.25

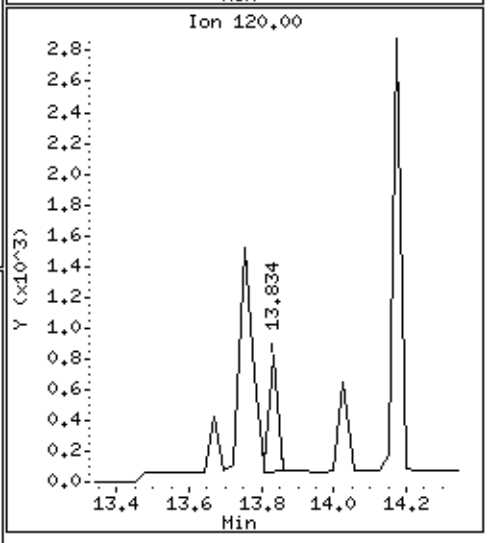
40 1,3,5-Trimethylbenzene

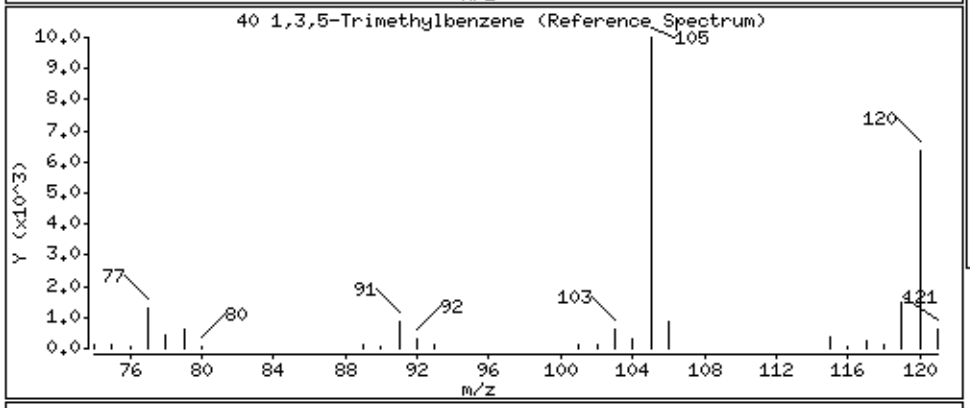
Concentration: 0.0598304 ug

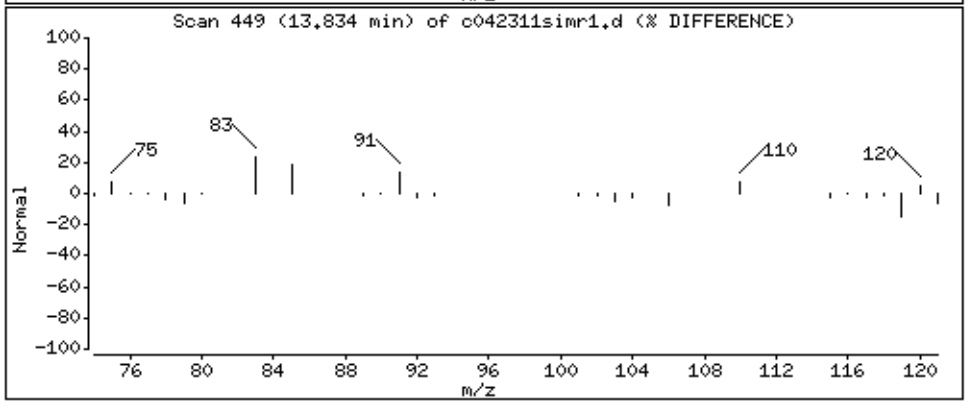












Data File: /chem/msdc.i/23Apr2015.b/c042311simr1.d

Date : 23-APR-2015 13:24

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-03A;

Volume Injected (uL): 1.0

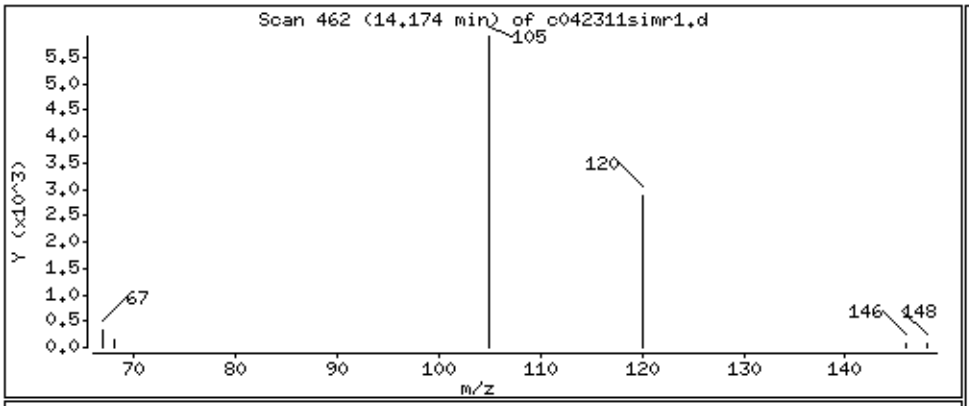
Operator: gm

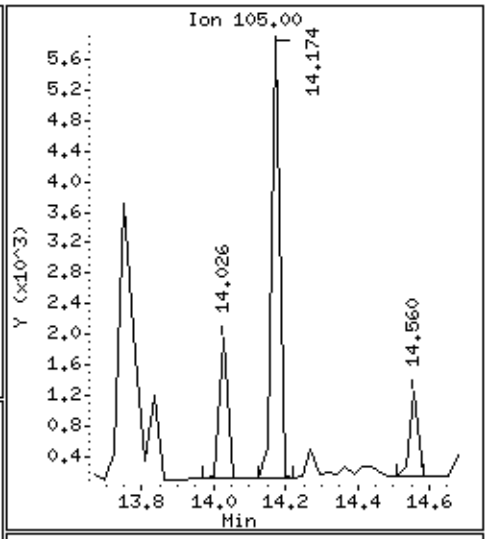
Column phase: DB-5.625

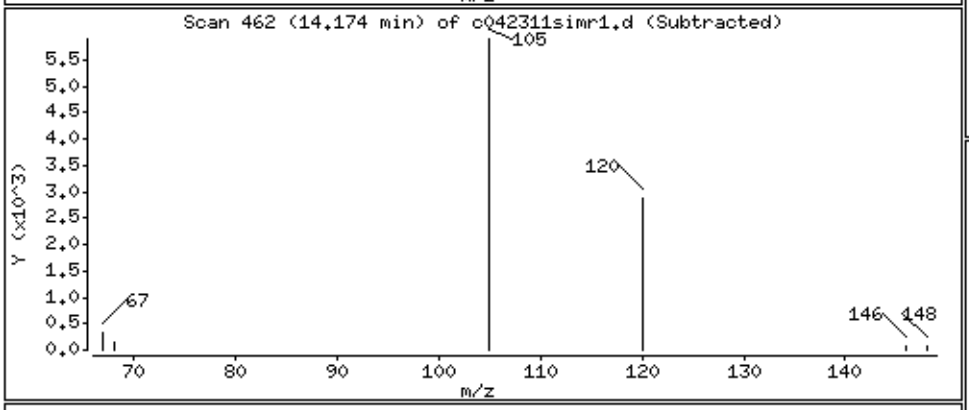
Column diameter: 0.25

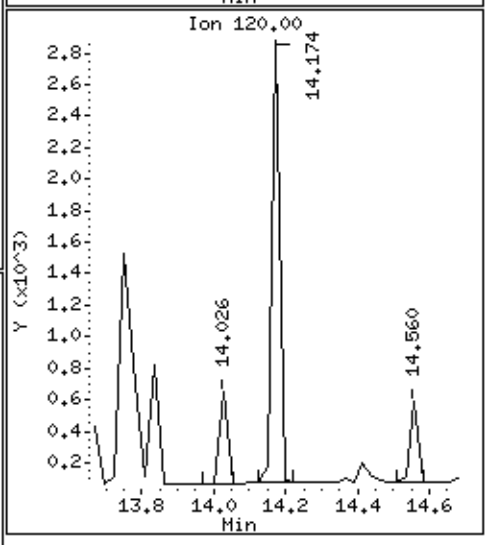
41 1,2,4-Trimethylbenzene

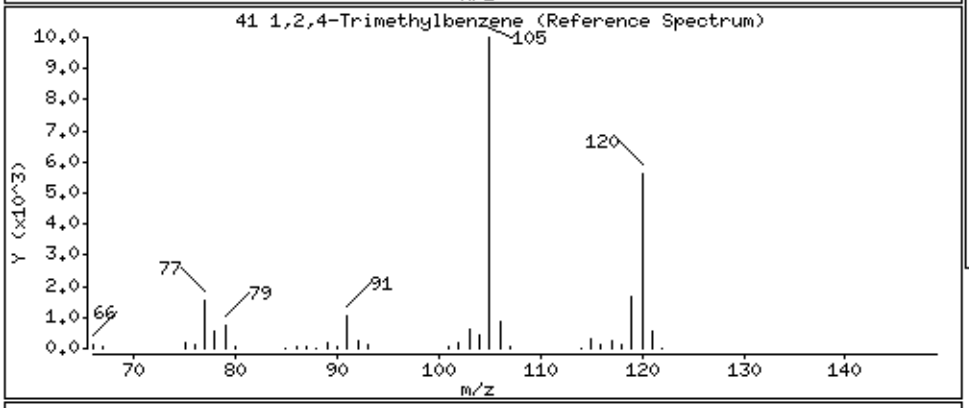
Concentration: 0.201338 ug

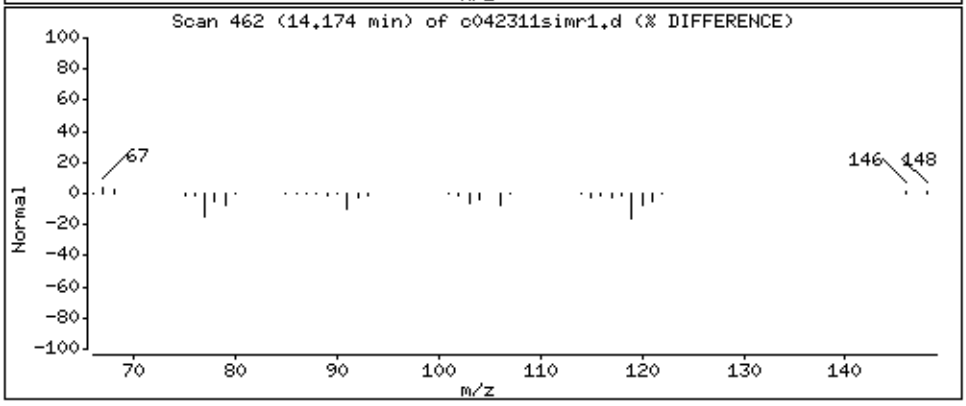












eurofins | Air Toxics

Summary of Detected Compounds
VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: 5230-FB01-0415

Lab ID#: 1504309R2-04A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Benzene	0.40	0.48	0.63	0.75
1,2-Dichloroethane	0.10	0.12	0.043 J	0.053 J
Toluene	0.10	0.13	1.4	1.8
Tetrachloroethene	0.10	0.16	0.053 J	0.086 J
Ethyl Benzene	0.10	0.14	0.21	0.30
m,p-Xylene	0.10	0.14	0.72	1.0
o-Xylene	0.10	0.15	0.22	0.33
1,2,4-Trimethylbenzene	0.10	0.19	0.21	0.41
1,3,5-Trimethylbenzene	0.10	0.18	0.063 J	0.11 J

eurofins | Air Toxics

Client Sample ID: 5230-FB01-0415

Lab ID#: 1504309R2-04A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**c042312simr2**	**Date of Collection: 4/16/15 2:10:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/15 01:49 PM**	
		Date of Extraction: 4/23/15	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
1,1,1-Trichloroethane	0.10	0.15	Not Detected	Not Detected
Benzene	0.40	0.48	0.63	0.75
1,2-Dichloroethane	0.10	0.12	0.043 J	0.053 J
Trichloroethene	0.10	0.14	Not Detected	Not Detected
Toluene	0.10	0.13	1.4	1.8
Tetrachloroethene	0.10	0.16	0.053 J	0.086 J
Ethyl Benzene	0.10	0.14	0.21	0.30
m,p-Xylene	0.10	0.14	0.72	1.0
o-Xylene	0.10	0.15	0.22	0.33
Naphthalene	0.10	0.38	Not Detected	Not Detected
1,1-Dichloroethane	0.10	0.15	Not Detected C	Not Detected C
1,1-Dichloroethene	0.40	0.50	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.15	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.32	Not Detected C	Not Detected C
1,1,2-Trichloroethane	0.10	0.14	Not Detected C	Not Detected C
1,2,4-Trimethylbenzene	0.10	0.19	0.21	0.41
1,3,5-Trimethylbenzene	0.10	0.18	0.063 CJ	0.11 CJ
Vinyl Chloride	0.40	0.43	Not Detected C	Not Detected C

J = Estimated value.
C = Estimated concentration due to calculated sampling rate.

Temperature = 89.6F , duration time = 10055 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	113	70-130

Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msdc.i/23Apr2015.b/c042312simr2.d
Lab Smp Id: 1504309R2-04A
Inj Date : 23-APR-2015 13:49
Operator : gm Inst ID: msdc.i
Smp Info : ;1504309R2-04A;
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Meth Date : 26-Jun-2015 14:36 gmash Quant Type: ISTD
Cal Date : 15-APR-2015 11:23 Cal File: c041509sim.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Gilbane.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
	2 Vinyl Chloride	62	Compound Not Detected.					
	4 1,1-Dichloroethene-CCC	96	Compound Not Detected.					
	8 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	11 1,1-Dichloroethane-SPCC	63	Compound Not Detected.					
	14 cis-1,2-Dichloroethene	96	Compound Not Detected.					
	17 1,1,1-Trichloroethane	97	Compound Not Detected.					
	19 Benzene	78	8.603	8.603	(0.783)	14737	0.31327	0.626540
	20 1,2-Dichloroethane	62	8.696	8.696	(0.791)	460	0.02130	0.0426033(aM)
	22 Trichloroethene	130	Compound Not Detected.					
$	25 Toluene-d8	98	10.656	10.656	(0.969)	251694	5.64516	11.2903
	26 Toluene-CCC	92	10.729	10.728	(0.976)	26750	0.69458	1.38915
*	27 2-Fluorotoluene	109	10.994	10.993	(1.000)	270871	5.00000	
	28 1,1,2-Trichloroethane	97	Compound Not Detected.					
	29 Tetrachloroethene	164	11.331	11.331	(1.031)	468	0.02641	0.0528288(a)
	31 Ethylbenzene-CCC	106	12.377	12.377	(1.126)	2613	0.10551	0.211029
	33 m,p-Xylene	106	12.506	12.506	(1.138)	12573	0.36282	0.725640

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
34 o-Xylene	106	12.956	12.956	(1.178)	3045	0.11057	0.221130
40 1,3,5-Trimethylbenzene	105	13.834	13.834	(1.258)	1947	0.03132	0.0626336(aM)
41 1,2,4-Trimethylbenzene	105	14.175	14.174	(1.289)	8359	0.10661	0.213228
48 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Report Date: 13-Jul-2015 13:49

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042312simr2.d
Lab Smp Id: 1504309R2-04A
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

Calibration Date: 23-APR-2015
Calibration Time: 09:09
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	324554	162277	649108	270871	-16.54

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	10.99	10.49	11.49	10.99	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 13-Jul-2015 13:49

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 23Apr2015
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 1504309R2-04A
Level: MED Operator: gm
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS-CM.spk Quant Type: ISTD
Sublist File: Gilbane.sub
Method File: /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 25 Toluene-d8	10.0000	11.2903	112.90	70-130

Data File: /chem/msdc.i/23Apr2015.b/c042312simr2.d

Page 1

Date : 23-APR-2015 13:49

Client ID:

Instrument: msdc.i

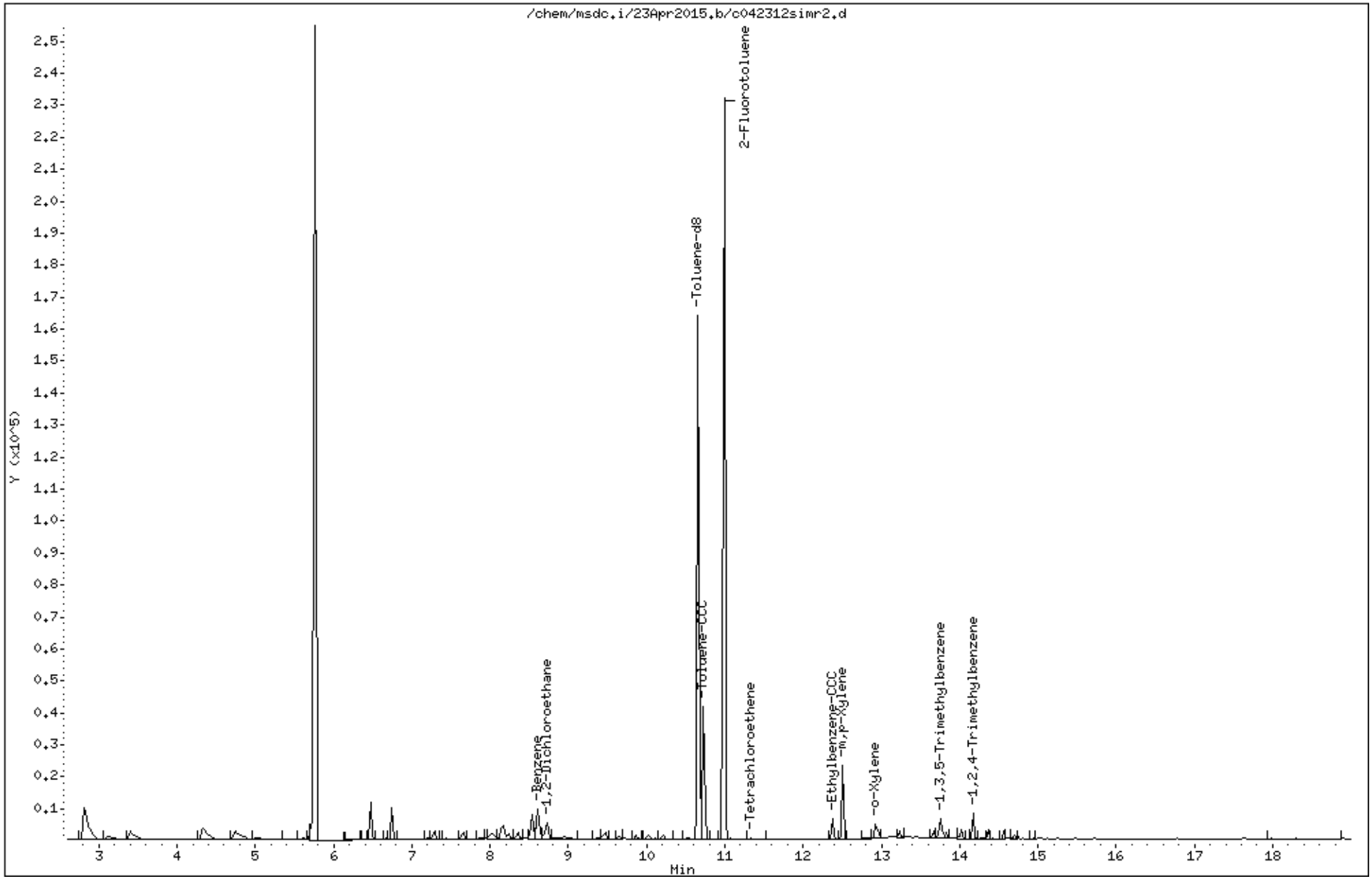
Sample Info: ;1504309R2-04A;

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdc.i/23Apr2015.b/c042312simr2.d

Date : 23-APR-2015 13:49

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-04A;

Volume Injected (uL): 1.0

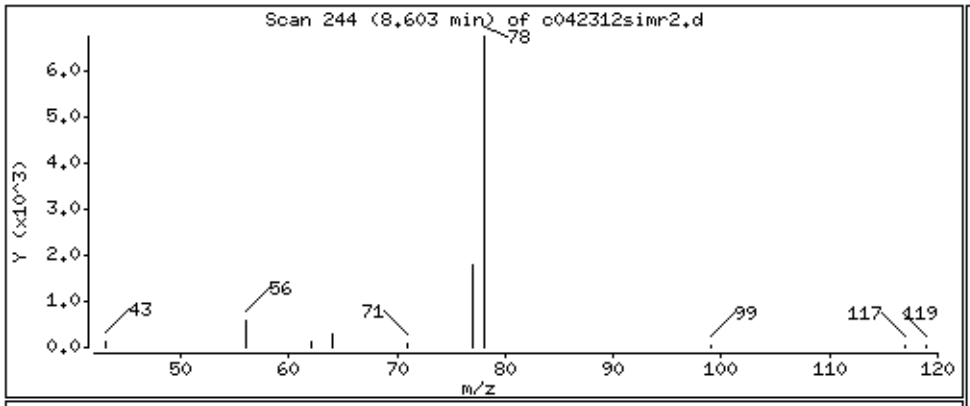
Operator: gm

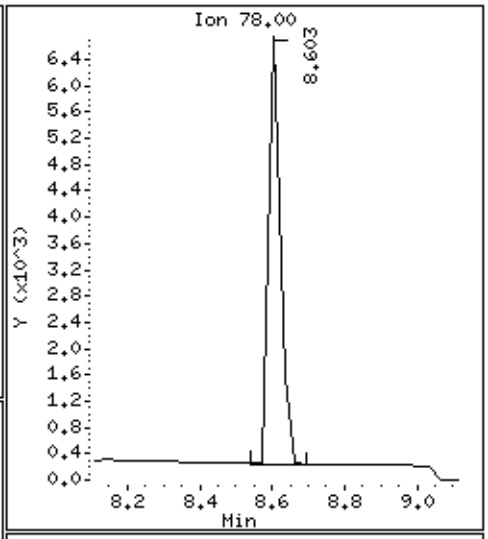
Column phase: DB-5.625

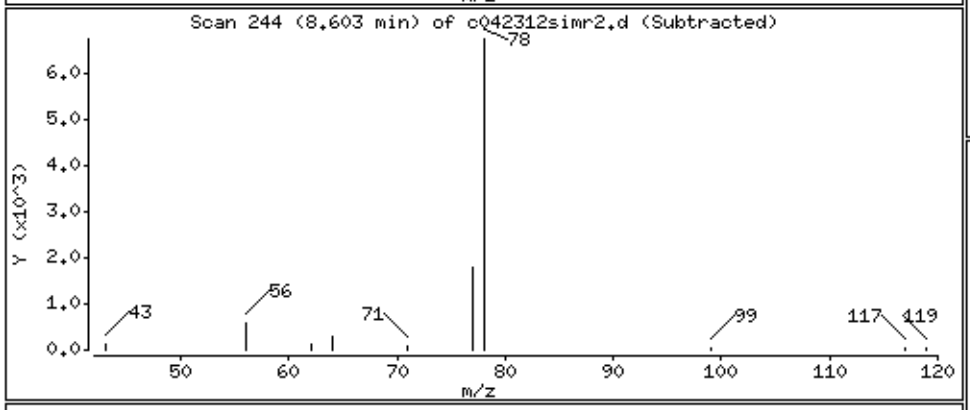
Column diameter: 0.25

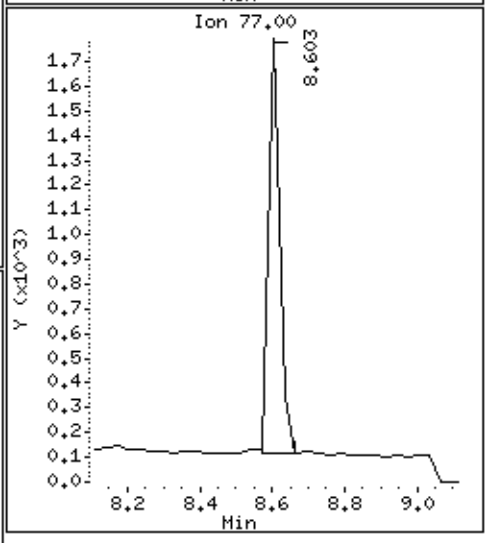
19 Benzene

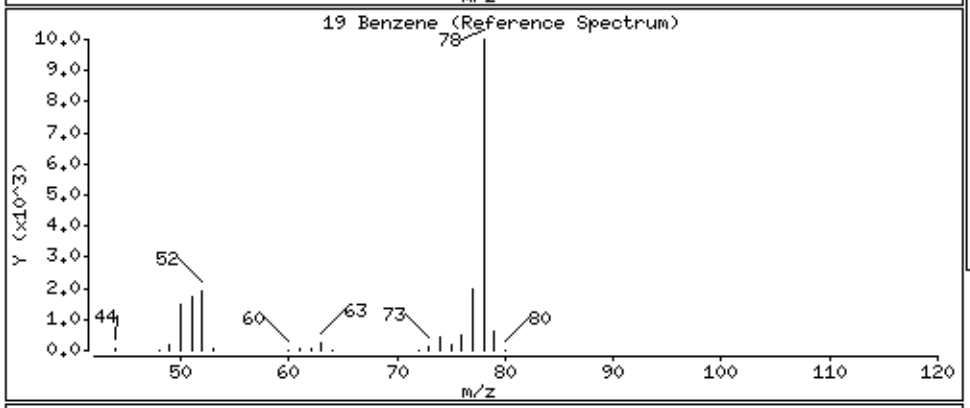
Concentration: 0.626540 ug

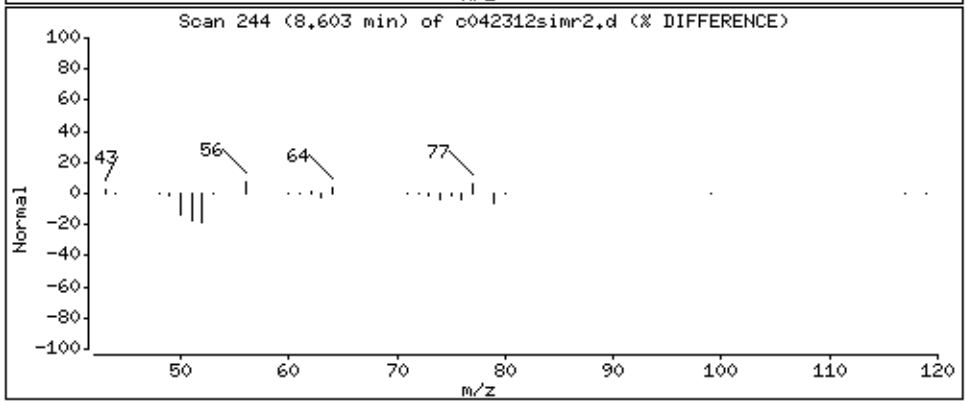












Data File: /chem/msdc.i/23Apr2015.b/c042312simr2.d

Date : 23-APR-2015 13:49

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-04A;

Volume Injected (uL): 1.0

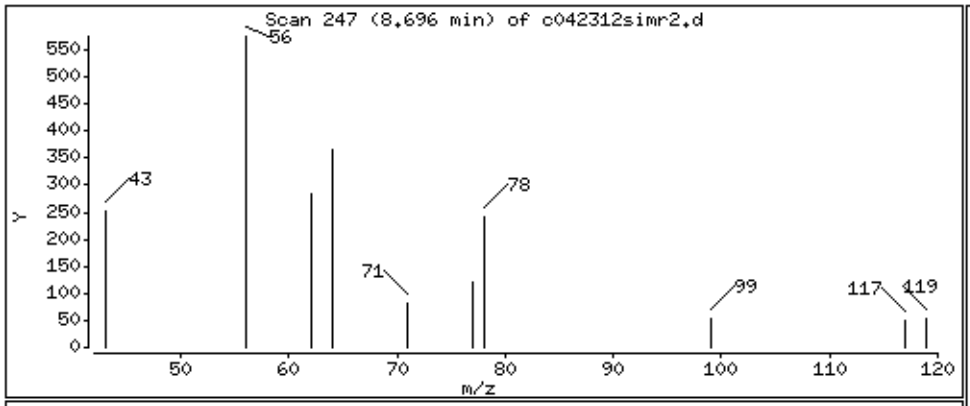
Operator: gm

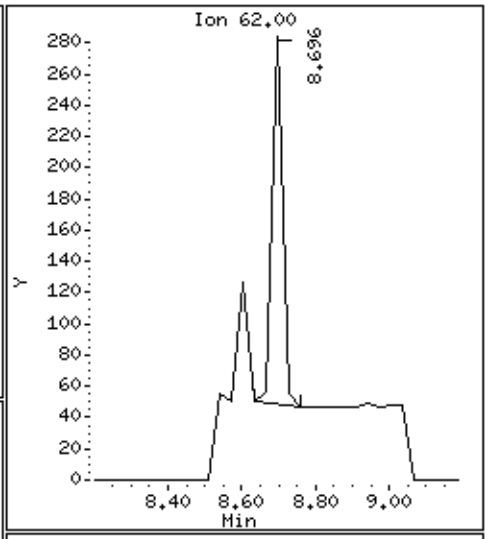
Column phase: DB-5.625

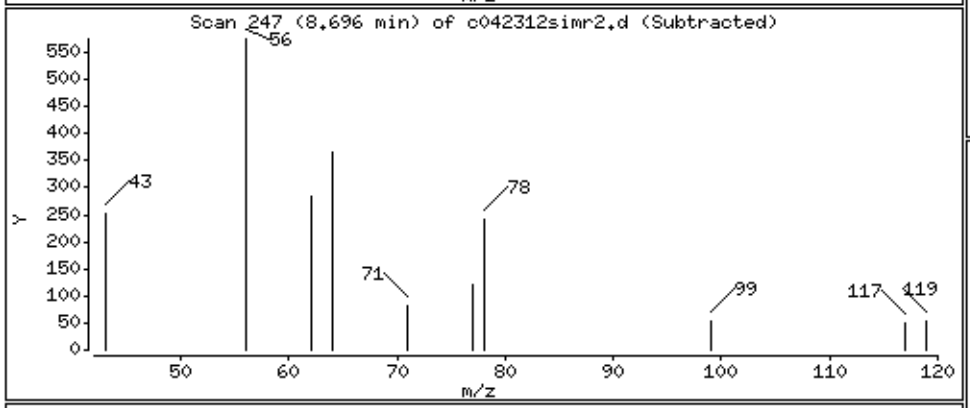
Column diameter: 0.25

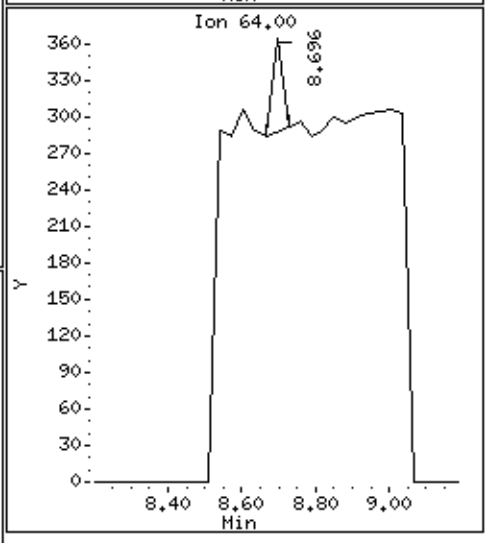
20 1,2-Dichloroethane

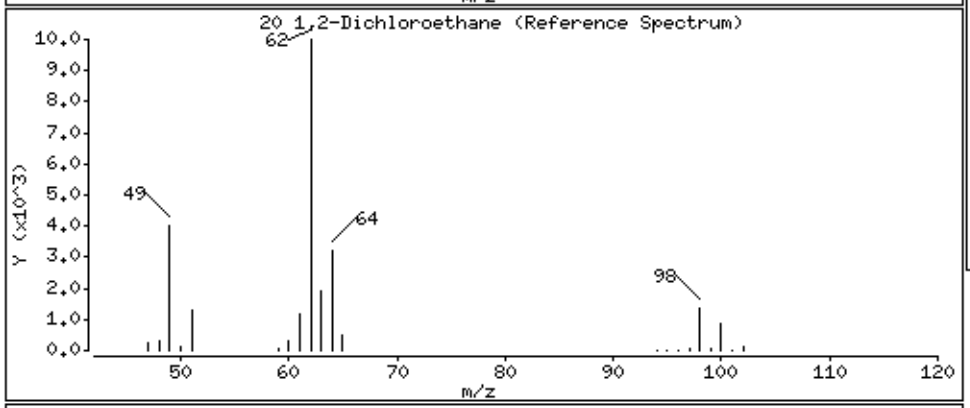
Concentration: 0.0426033 ug

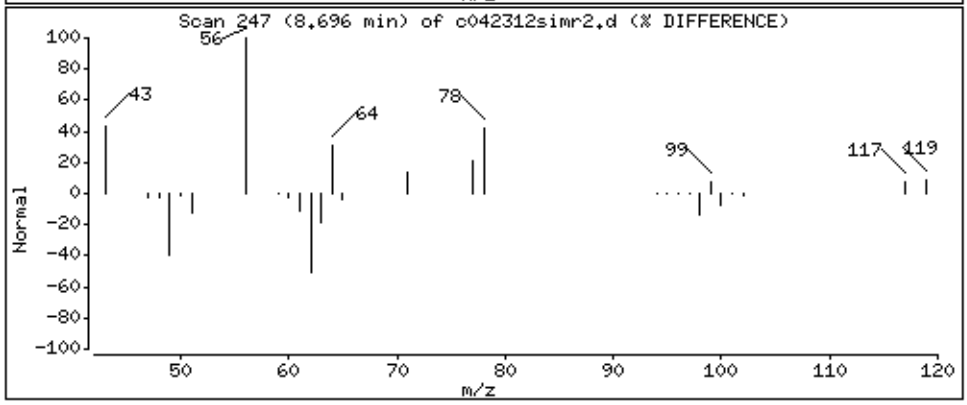












Data File: /chem/msdc.i/23Apr2015.b/c042312simr2.d

Date : 23-APR-2015 13:49

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-04A;

Volume Injected (uL): 1.0

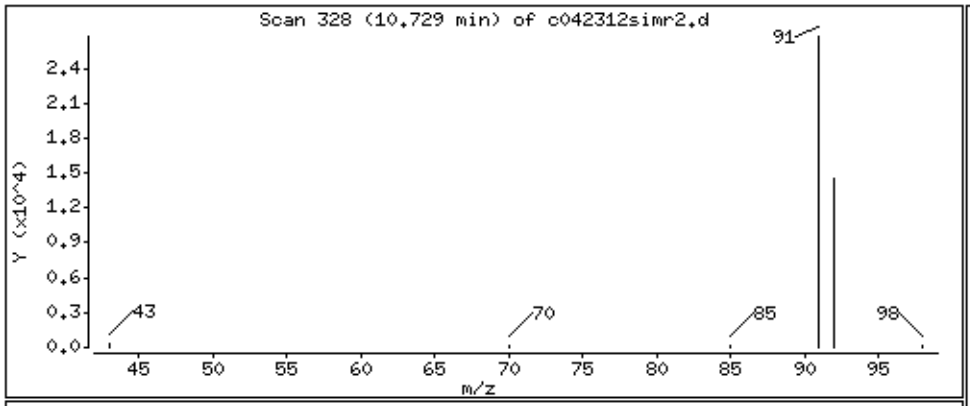
Operator: gm

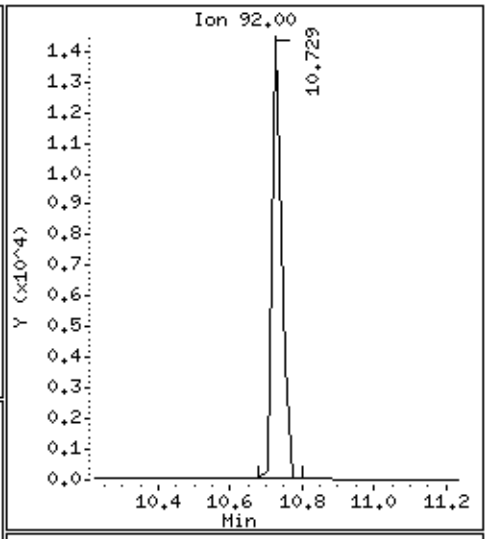
Column phase: DB-5.625

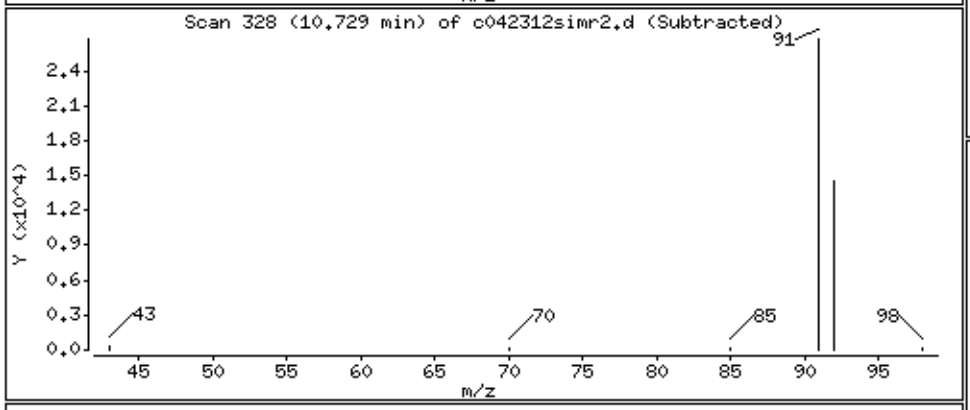
Column diameter: 0.25

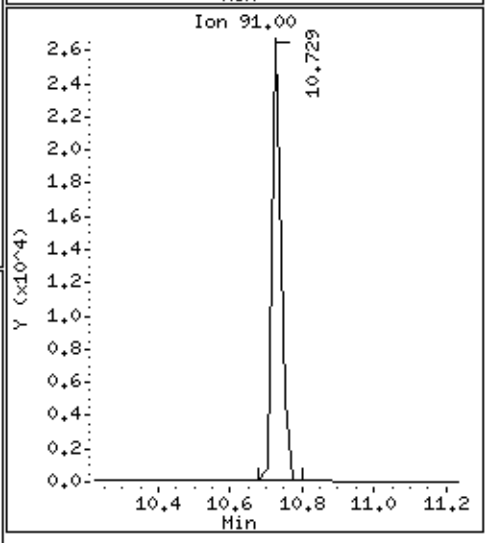
26 Toluene-CCC

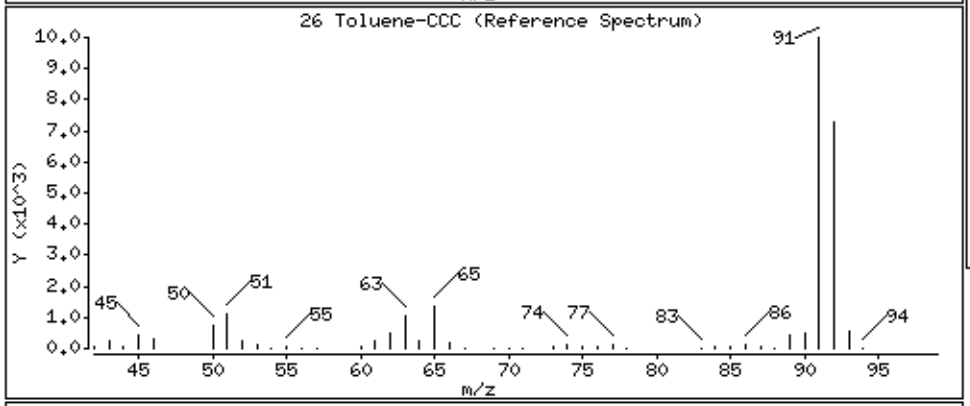
Concentration: 1.38915 ug

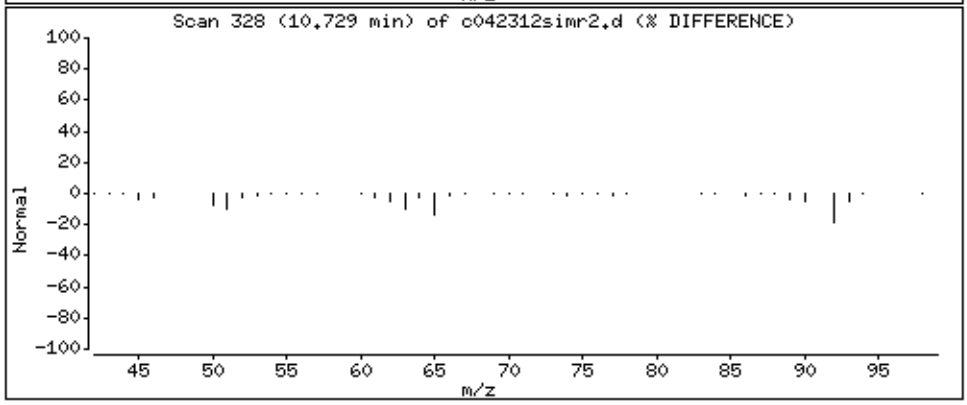












Data File: /chem/msdc.i/23Apr2015.b/c042312simr2.d

Date : 23-APR-2015 13:49

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-04A;

Volume Injected (uL): 1.0

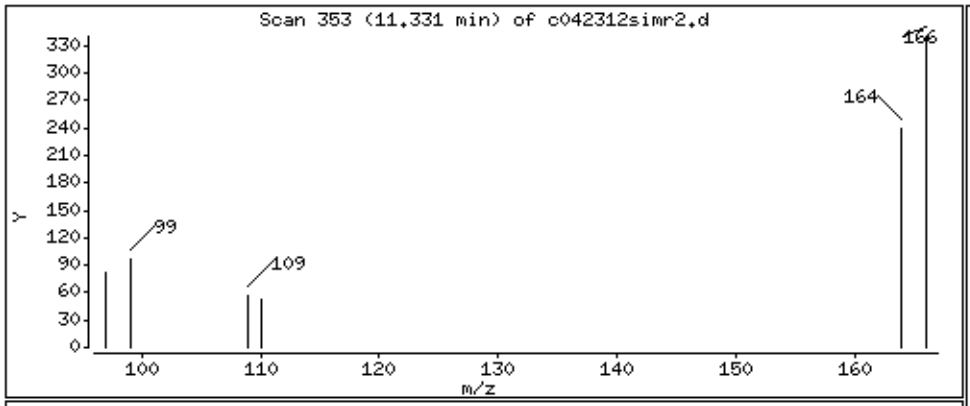
Operator: gm

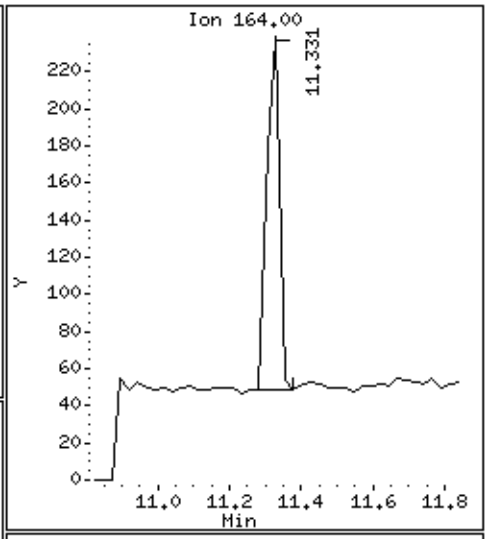
Column phase: DB-5.625

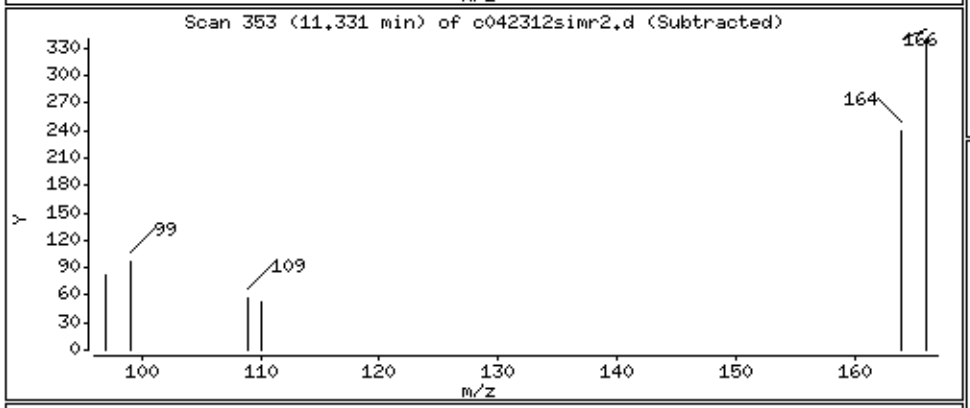
Column diameter: 0.25

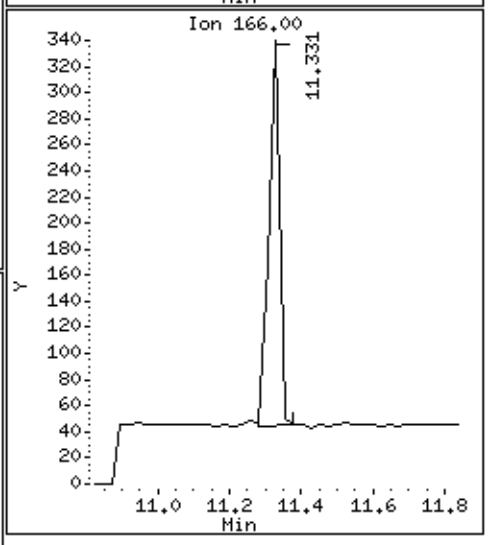
29 Tetrachloroethene

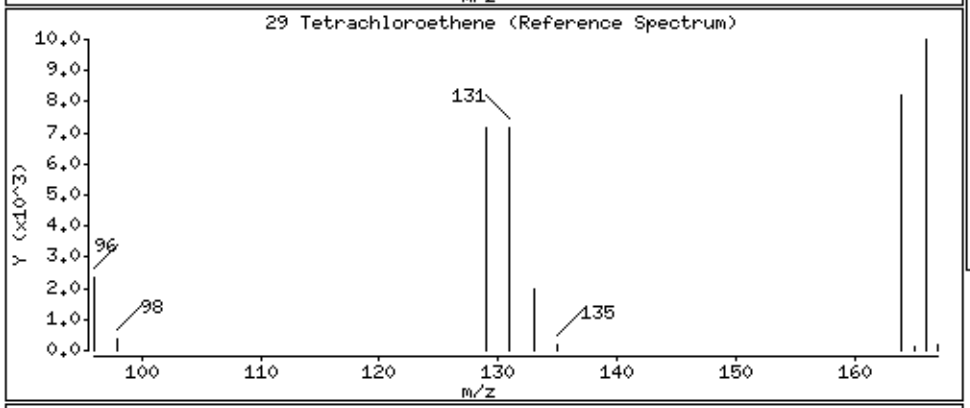
Concentration: 0.0528288 ug

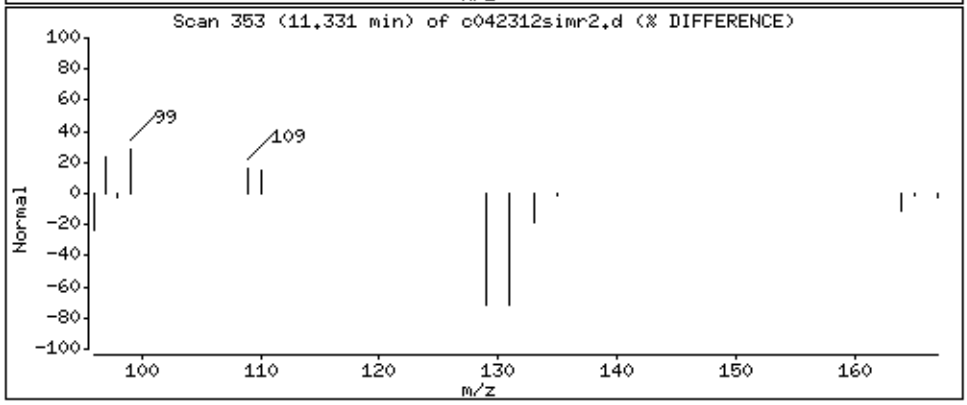












Data File: /chem/msdc.i/23Apr2015.b/c042312simr2.d

Date : 23-APR-2015 13:49

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-04A;

Volume Injected (uL): 1.0

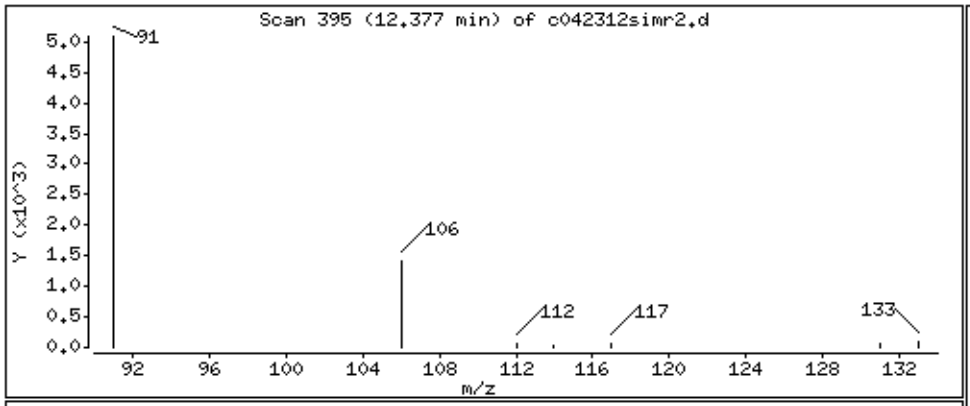
Operator: gm

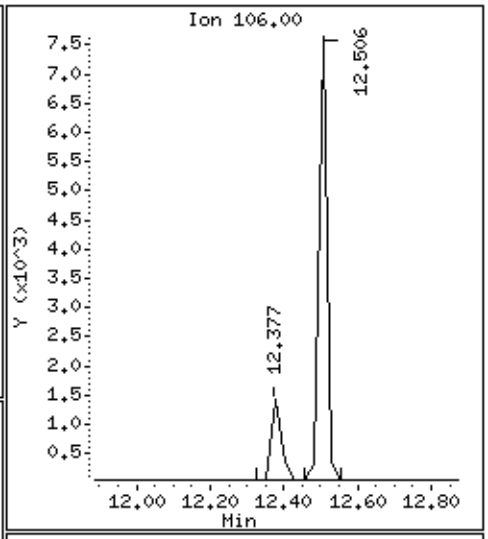
Column phase: DB-5.625

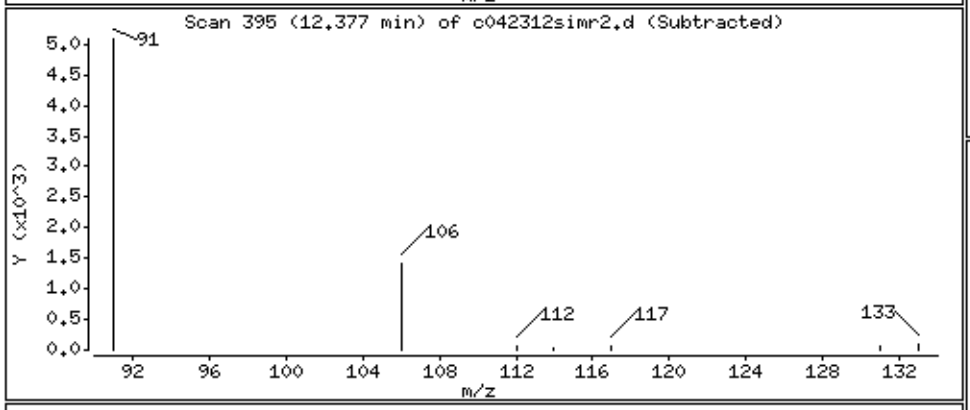
Column diameter: 0.25

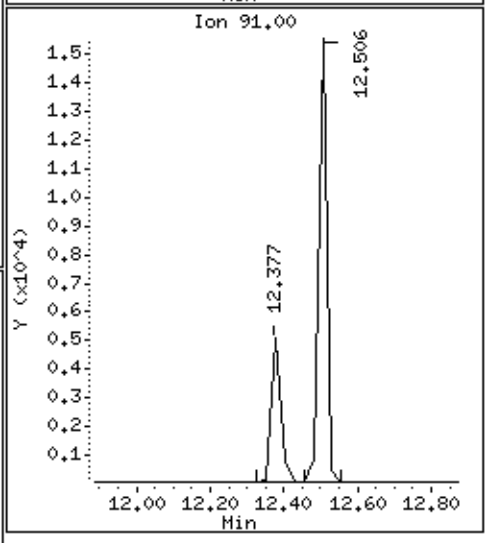
31 Ethylbenzene-CCC

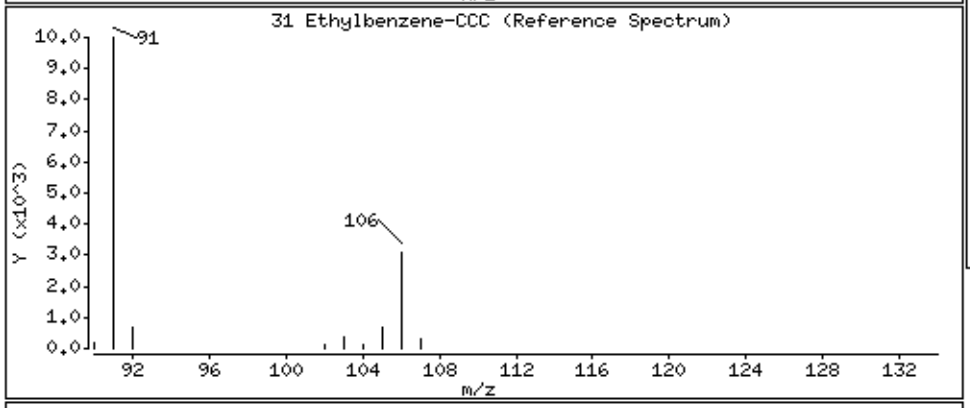
Concentration: 0.211029 ug

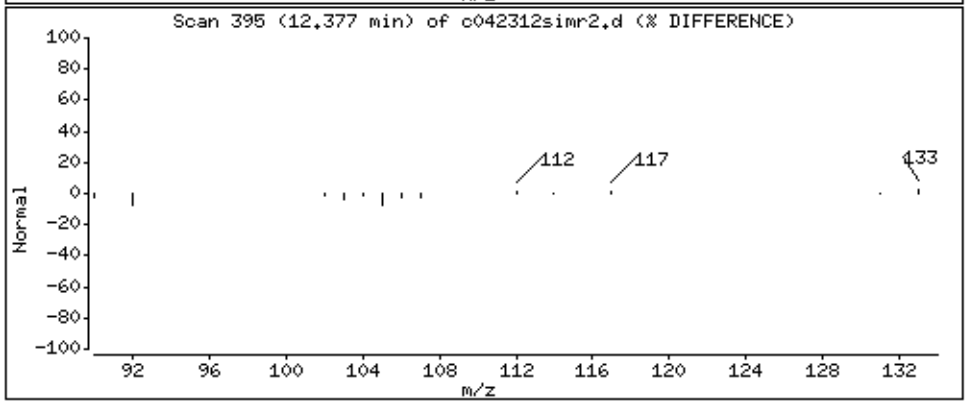












Data File: /chem/msdc.i/23Apr2015.b/c042312simr2.d

Date : 23-APR-2015 13:49

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-04A;

Volume Injected (uL): 1.0

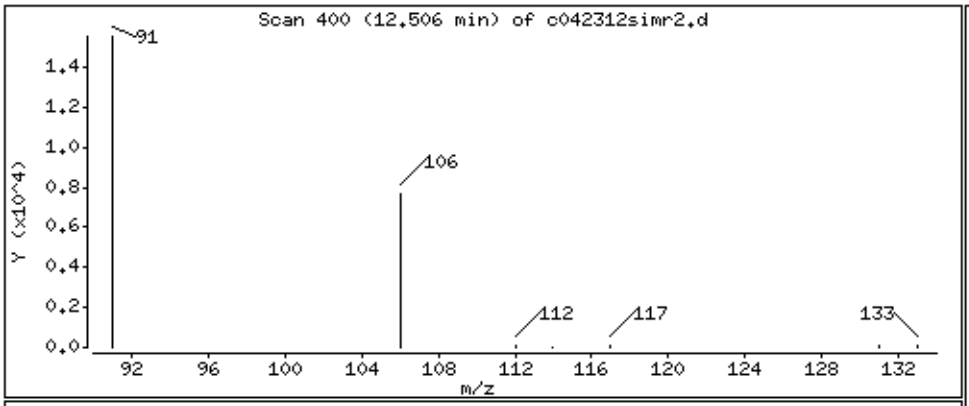
Operator: gm

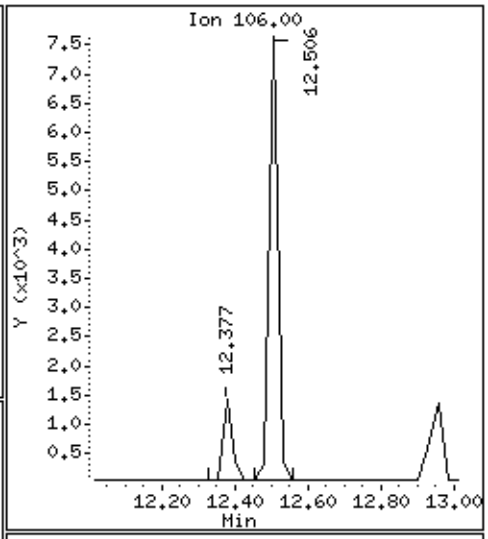
Column phase: DB-5.625

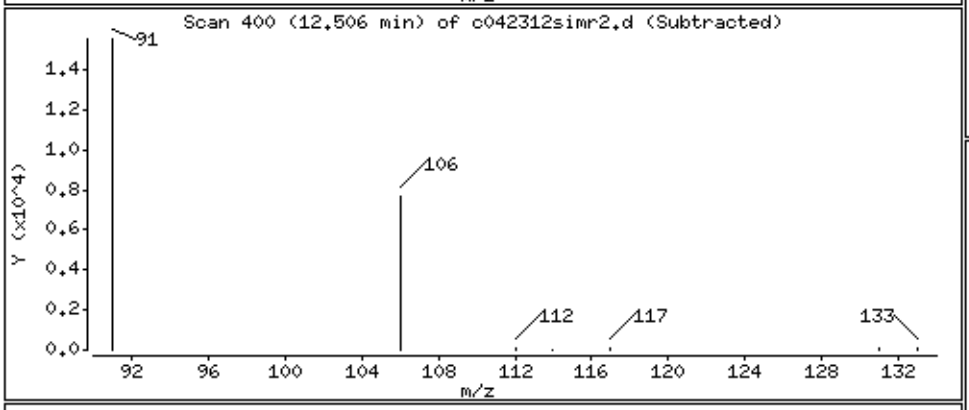
Column diameter: 0.25

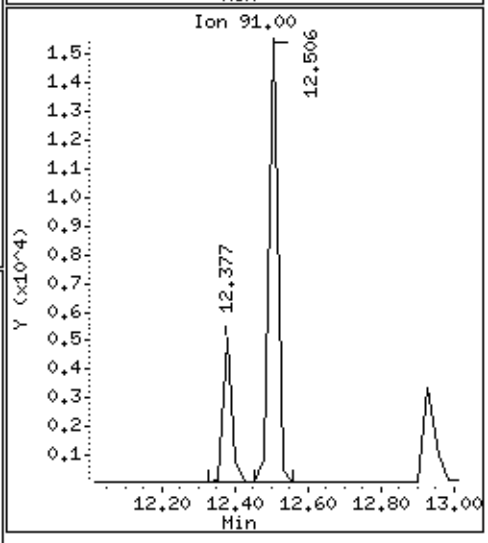
33 m,p-Xylene

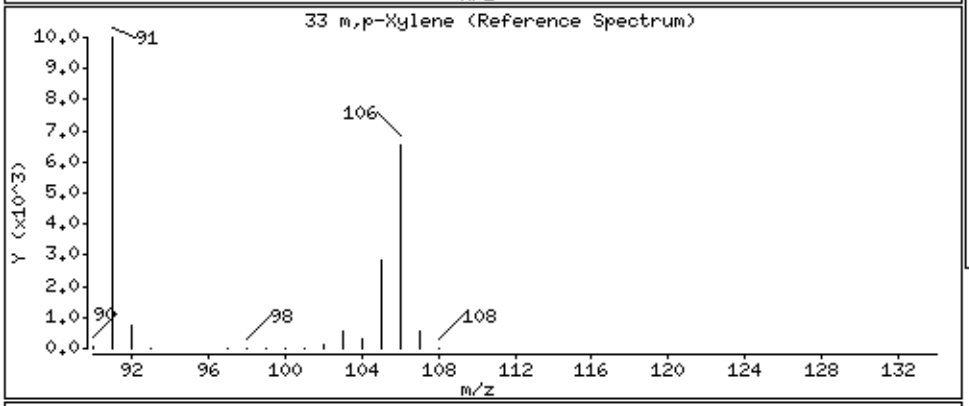
Concentration: 0.725640 ug

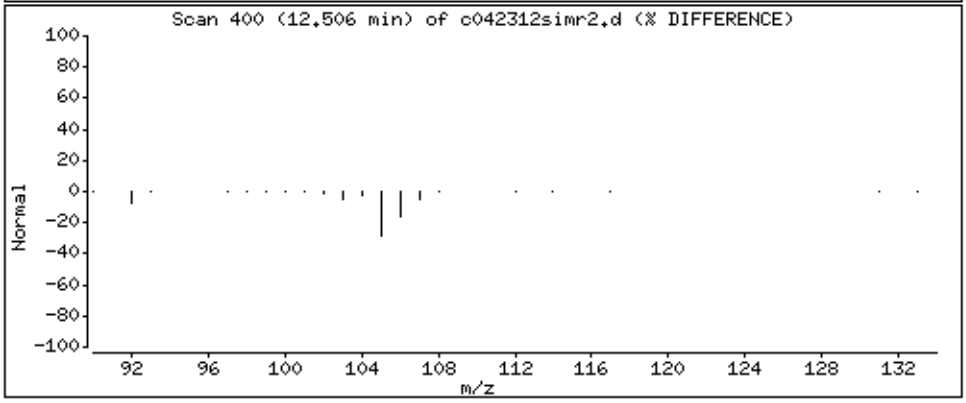












Data File: /chem/msdc.i/23Apr2015.b/c042312simr2.d

Date : 23-APR-2015 13:49

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-04A;

Volume Injected (uL): 1.0

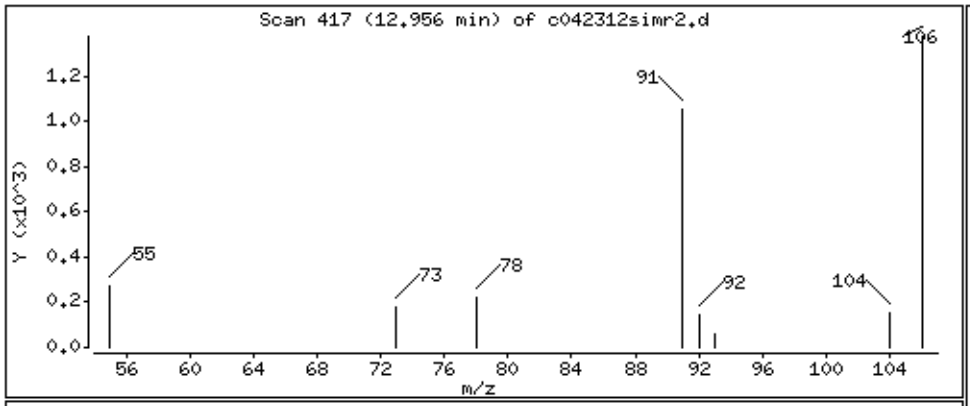
Operator: gm

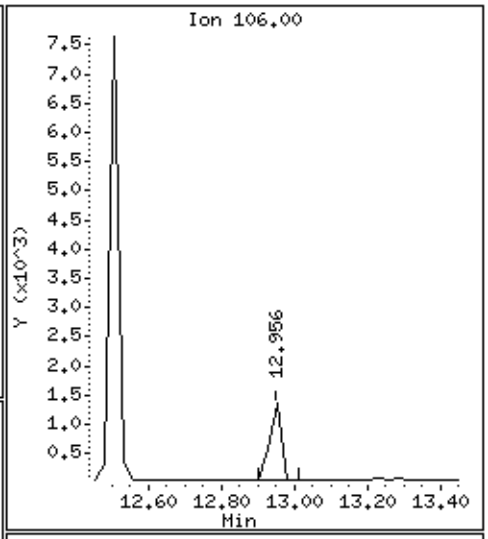
Column phase: DB-5.625

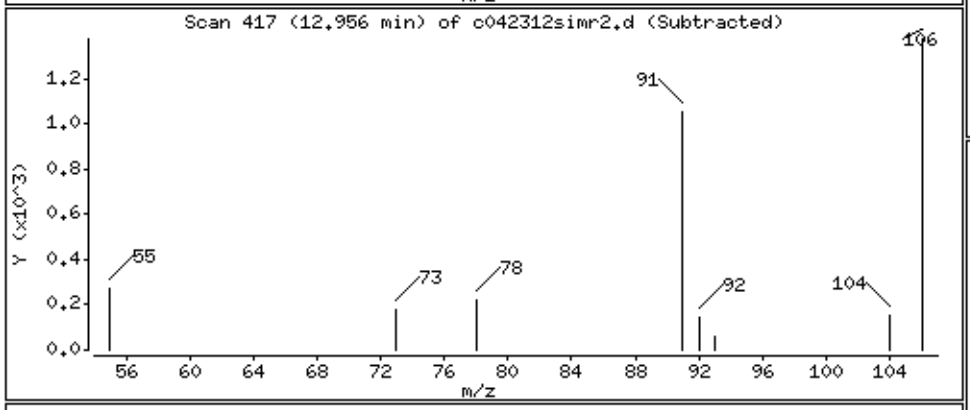
Column diameter: 0.25

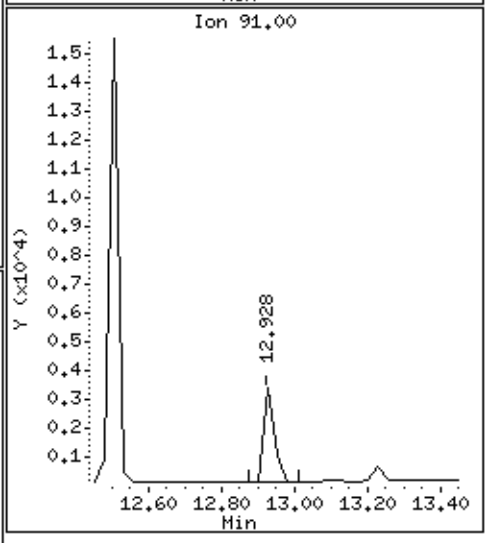
34 o-Xylene

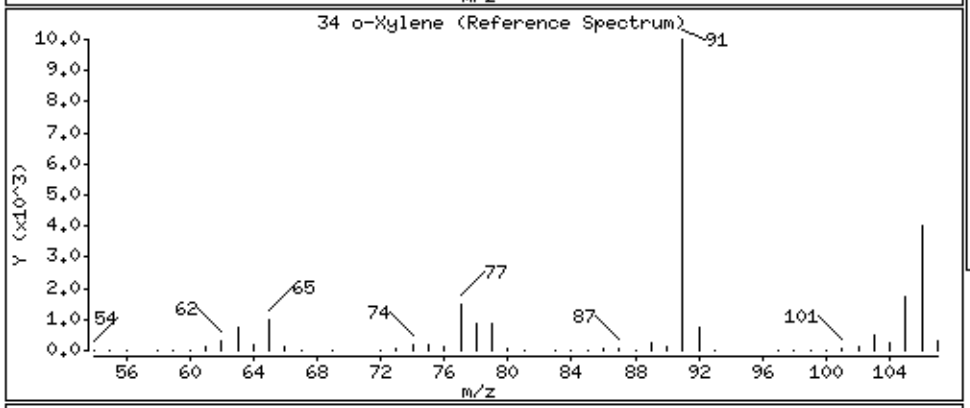
Concentration: 0.221130 ug

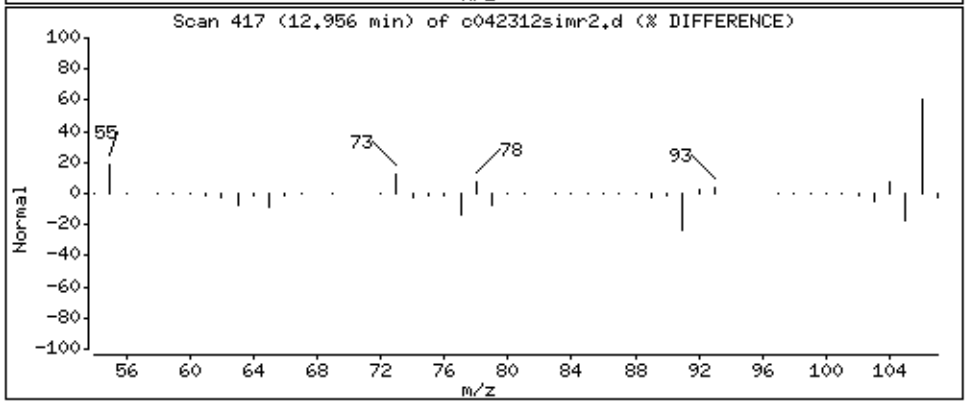












Data File: /chem/msdc.i/23Apr2015.b/c042312simr2.d

Date : 23-APR-2015 13:49

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-04A;

Volume Injected (uL): 1.0

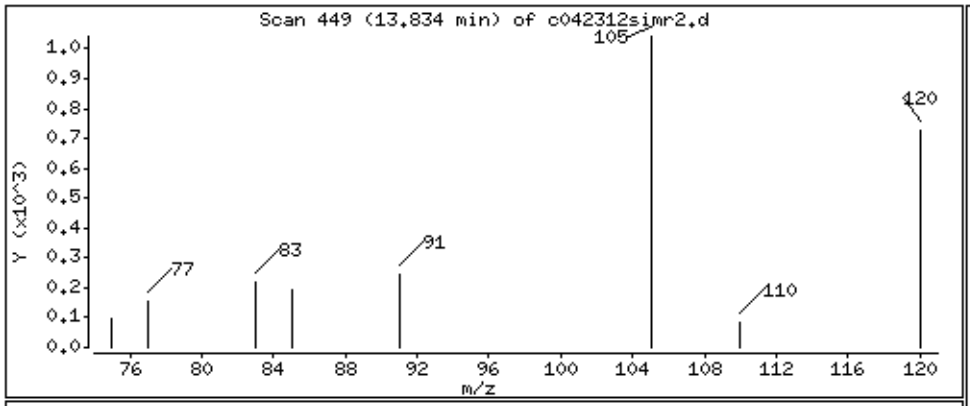
Operator: gm

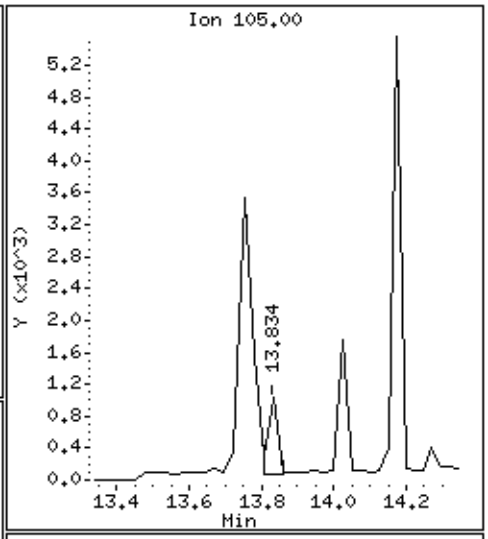
Column phase: DB-5.625

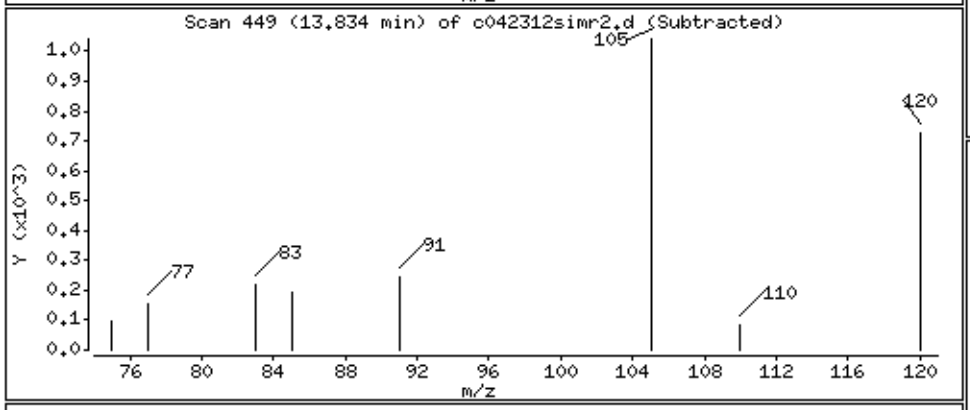
Column diameter: 0.25

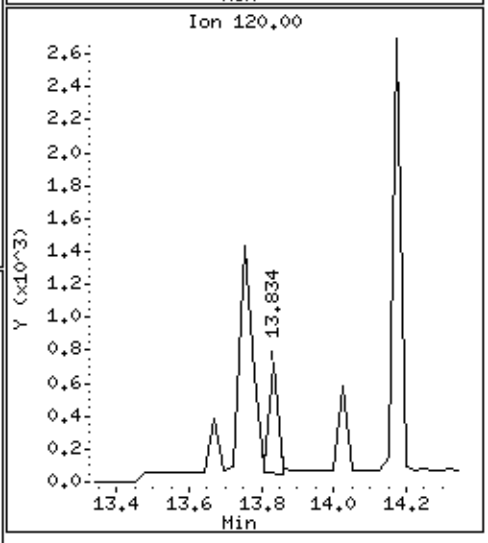
40 1,3,5-Trimethylbenzene

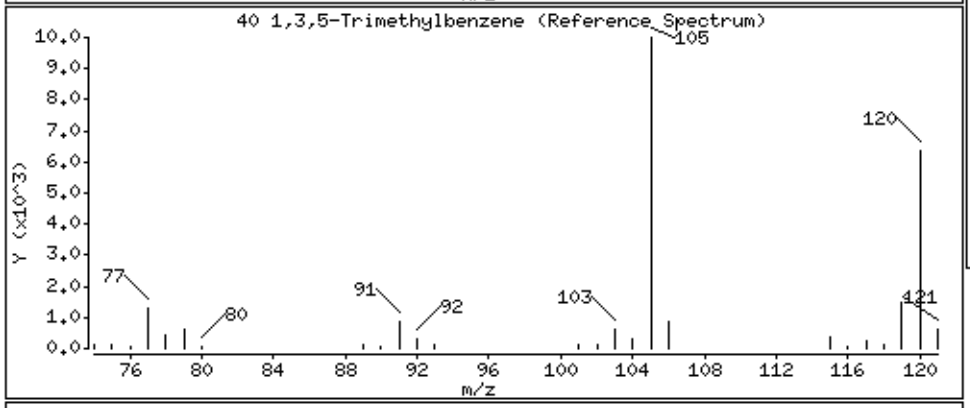
Concentration: 0.0626336 ug

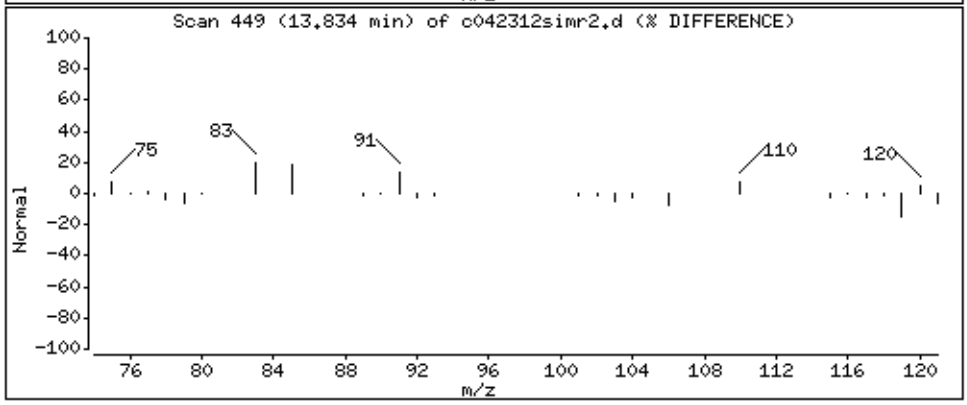












Data File: /chem/msdc.i/23Apr2015.b/c042312simr2.d

Date : 23-APR-2015 13:49

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-04A;

Volume Injected (uL): 1.0

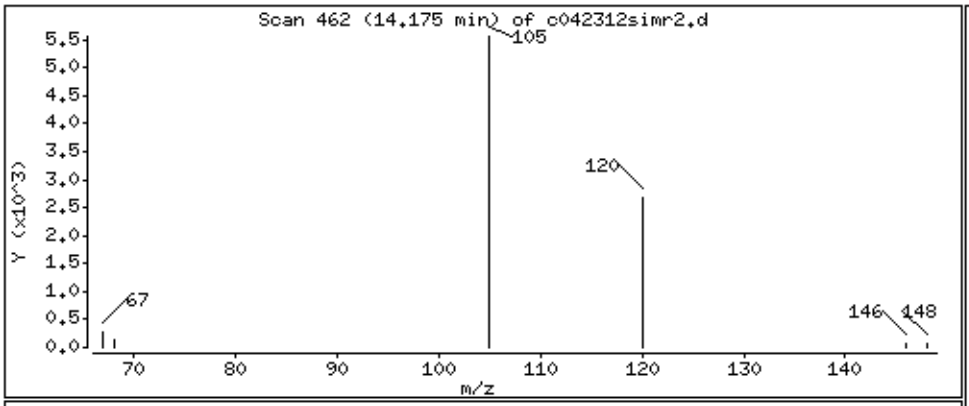
Operator: gm

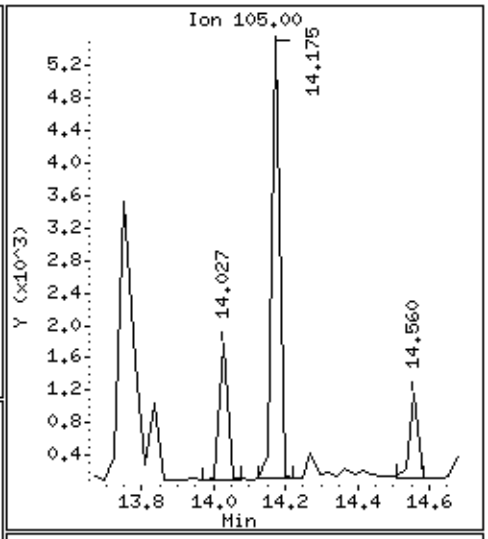
Column phase: DB-5.625

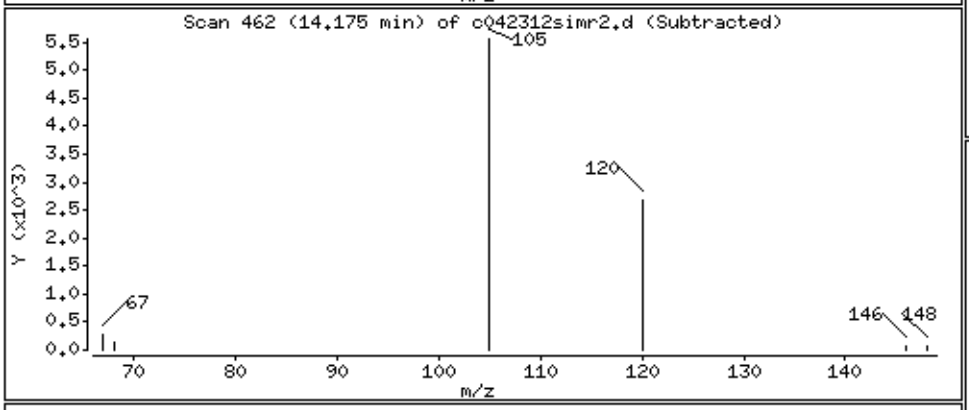
Column diameter: 0.25

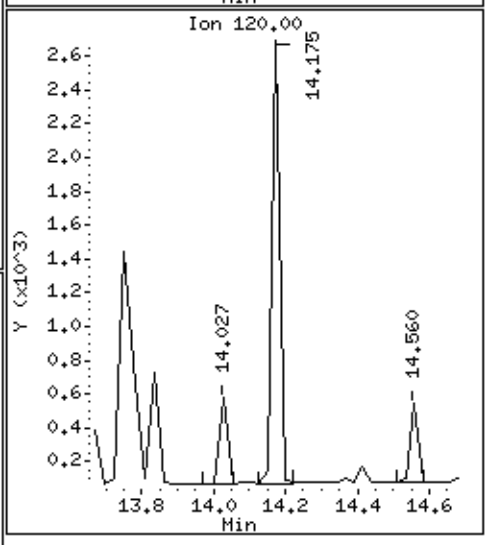
41 1,2,4-Trimethylbenzene

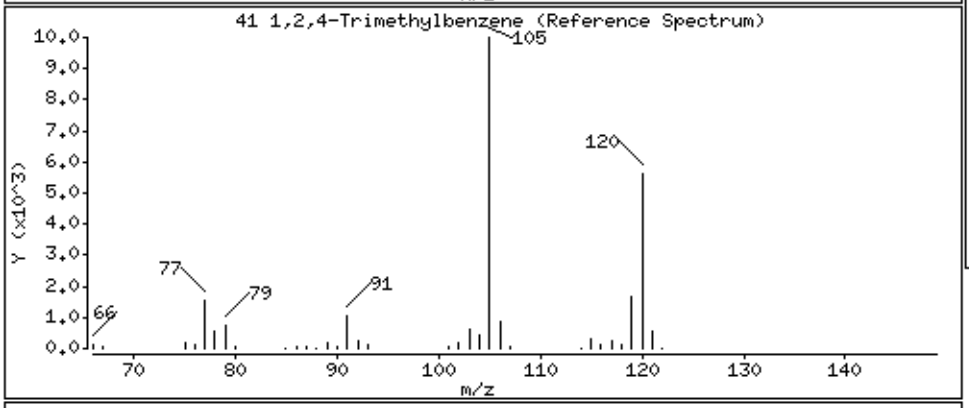
Concentration: 0.213228 ug

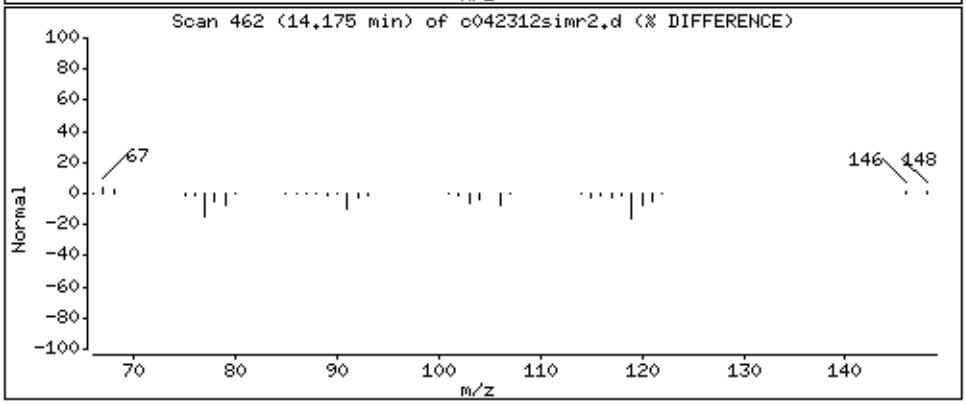












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Summary of Detected Compounds
VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: 5211-IA01-0415

Lab ID#: 1504309R2-05A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Benzene	0.40	0.48	0.52	0.63
1,2-Dichloroethane	0.10	0.12	0.15	0.19
Trichloroethene	0.10	0.14	0.039 J	0.054 J
Toluene	0.10	0.13	2.6	3.3
Tetrachloroethene	0.10	0.16	0.84	1.4
Ethyl Benzene	0.10	0.14	0.24	0.34
m,p-Xylene	0.10	0.14	0.76	1.0
o-Xylene	0.10	0.15	0.24	0.35
1,2,4-Trimethylbenzene	0.10	0.19	0.21	0.40
1,3,5-Trimethylbenzene	0.10	0.18	0.061 CJ	0.11 CJ

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Client Sample ID: 5211-IA01-0415

Lab ID#: 1504309R2-05A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**c042313simr1**	**Date of Collection: 4/17/15 9:11:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/15 02:13 PM**	
		Date of Extraction: 4/23/15	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
1,1,1-Trichloroethane	0.10	0.15	Not Detected	Not Detected
Benzene	0.40	0.48	0.52	0.63
1,2-Dichloroethane	0.10	0.12	0.15	0.19
Trichloroethene	0.10	0.14	0.039 J	0.054 J
Toluene	0.10	0.13	2.6	3.3
Tetrachloroethene	0.10	0.16	0.84	1.4
Ethyl Benzene	0.10	0.14	0.24	0.34
m,p-Xylene	0.10	0.14	0.76	1.0
o-Xylene	0.10	0.15	0.24	0.35
Naphthalene	0.10	0.38	Not Detected	Not Detected
1,1-Dichloroethane	0.10	0.15	Not Detected C	Not Detected C
1,1-Dichloroethene	0.40	0.50	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.15	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.32	Not Detected C	Not Detected C
1,1,2-Trichloroethane	0.10	0.14	Not Detected C	Not Detected C
1,2,4-Trimethylbenzene	0.10	0.19	0.21	0.40
1,3,5-Trimethylbenzene	0.10	0.18	0.061 CJ	0.11 CJ
Vinyl Chloride	0.40	0.42	Not Detected C	Not Detected C

J = Estimated value.
C = Estimated concentration due to calculated sampling rate.

Temperature = 89.8F , duration time = 10076 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	115	70-130

Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msdc.i/23Apr2015.b/c042313simr1.d
Lab Smp Id: 1504309R1-05A
Inj Date : 23-APR-2015 14:13
Operator : gm Inst ID: msdc.i
Smp Info : ;1504309R1-05A;
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Meth Date : 10-May-2015 12:15 gmash Quant Type: ISTD
Cal Date : 15-APR-2015 11:23 Cal File: c041509sim.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Gilbane.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
2	Vinyl Chloride	62	Compound Not Detected.					
4	1,1-Dichloroethene-CCC	96	Compound Not Detected.					
8	trans-1,2-Dichloroethene	96	Compound Not Detected.					
11	1,1-Dichloroethane-SPCC	63	Compound Not Detected.					
14	cis-1,2-Dichloroethene	96	Compound Not Detected.					
17	1,1,1-Trichloroethane	97	Compound Not Detected.					
19	Benzene	78	8.604	8.603	(0.783)	13957	0.26157	0.523142
20	1,2-Dichloroethane	62	8.696	8.696	(0.791)	1853	0.07558	0.151151
22	Trichloroethene	130	9.331	9.331	(0.849)	341	0.01936	0.0387178(a)
$ 25	Toluene-d8	98	10.656	10.656	(0.969)	289953	5.73349	11.4670
26	Toluene-CCC	92	10.729	10.728	(0.976)	56040	1.28287	2.56574
* 27	2-Fluorotoluene	109	10.994	10.993	(1.000)	307238	5.00000	
28	1,1,2-Trichloroethane	97	Compound Not Detected.					
29	Tetrachloroethene	164	11.331	11.331	(1.031)	8461	0.42102	0.842043
31	Ethylbenzene-CCC	106	12.377	12.377	(1.126)	3387	0.12058	0.241160
33	m,p-Xylene	106	12.506	12.506	(1.138)	14977	0.38104	0.762070

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
34 o-Xylene	106	12.956	12.956	(1.178)	3691	0.11816	0.236315
40 1,3,5-Trimethylbenzene	105	13.834	13.834	(1.258)	2161	0.03065	0.0613087(aM)
41 1,2,4-Trimethylbenzene	105	14.175	14.174	(1.289)	9306	0.10464	0.209287
48 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042313simr1.d
Lab Smp Id: 1504309R1-05A
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

Calibration Date: 23-APR-2015
Calibration Time: 09:09
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	324554	162277	649108	307238	-5.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	10.99	10.49	11.49	10.99	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 10-May-2015 12:25

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 23Apr2015
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 1504309R1-05A
Level: MED Operator: gm
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS-CM.spk Quant Type: ISTD
Sublist File: Gilbane.sub
Method File: /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 25 Toluene-d8	10.0000	11.4670	114.67	70-130

Data File: /chem/msdc.i/23Apr2015.b/c042313simr1.d

Date : 23-APR-2015 14:13

Client ID:

Instrument: msdc.i

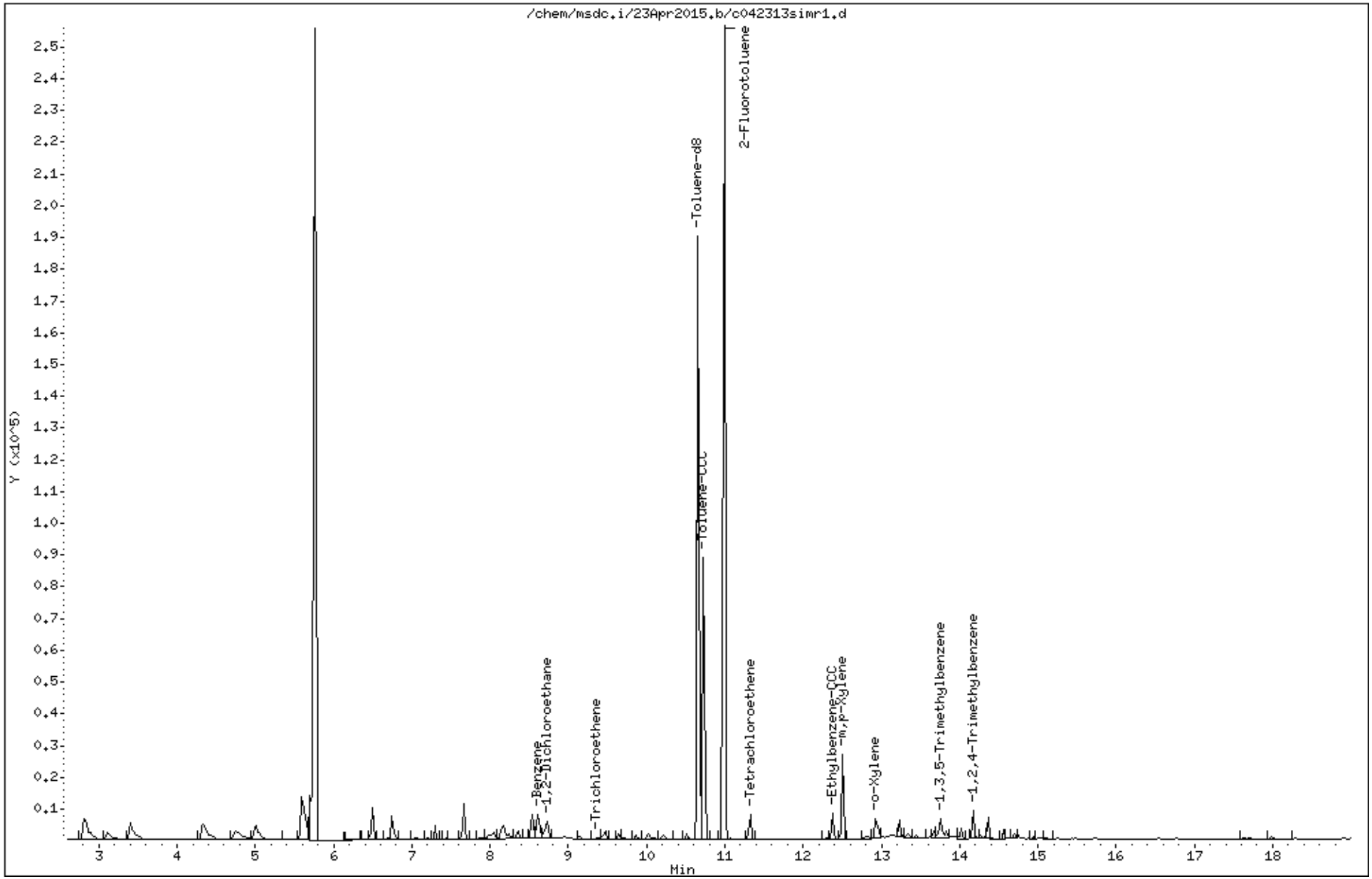
Sample Info: ;1504309R1-05A;

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdc.i/23Apr2015.b/c042313simr1.d

Date : 23-APR-2015 14:13

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-05A;

Volume Injected (uL): 1.0

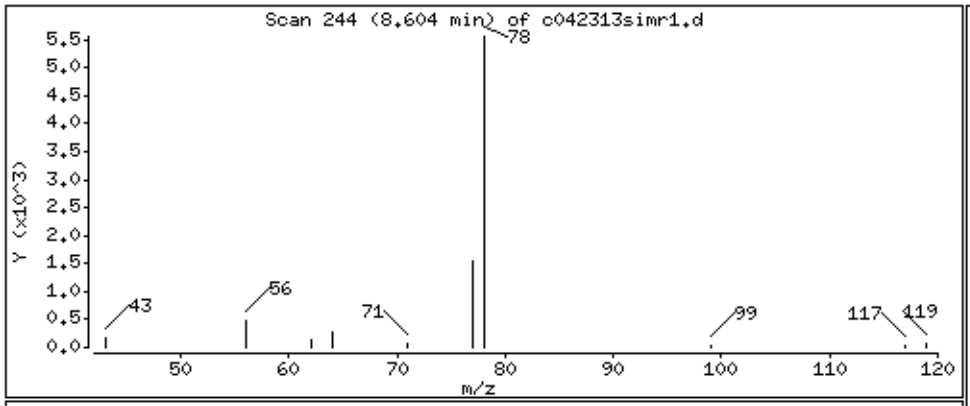
Operator: gm

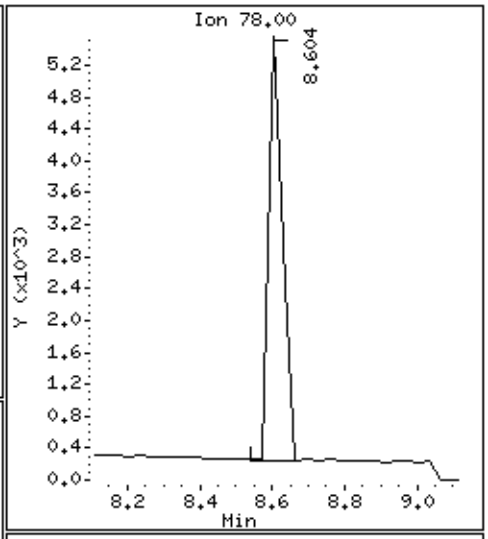
Column phase: DB-5.625

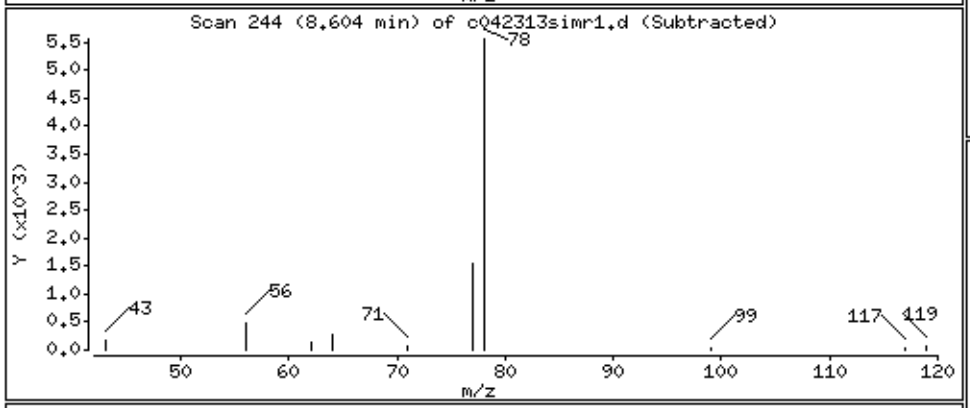
Column diameter: 0.25

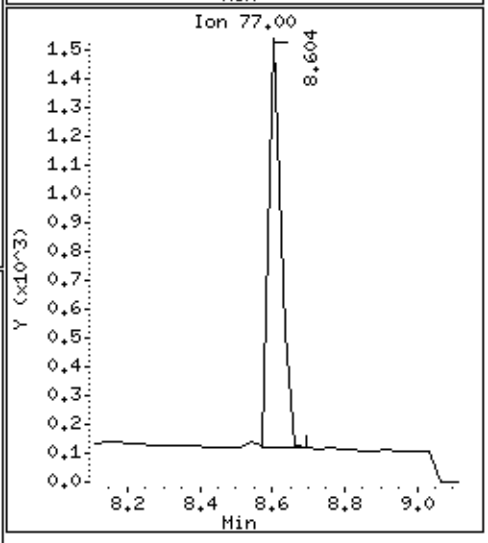
19 Benzene

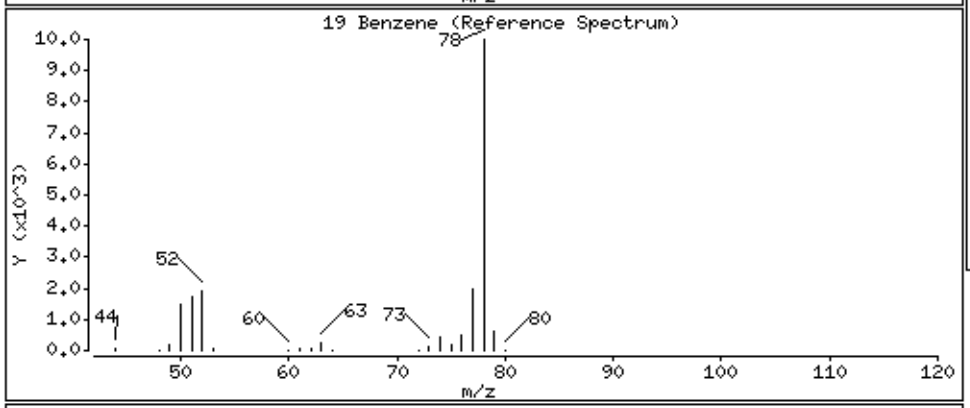
Concentration: 0.523142 ug

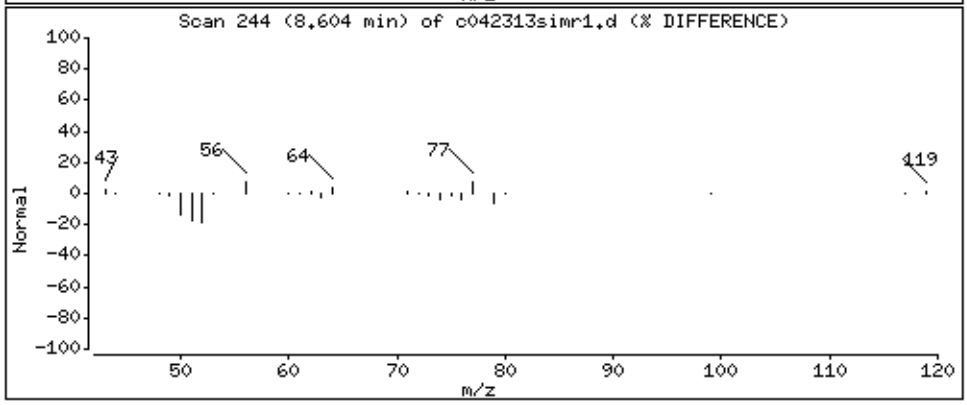












Data File: /chem/msdc.i/23Apr2015.b/c042313simr1.d

Date : 23-APR-2015 14:13

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-05A;

Volume Injected (uL): 1.0

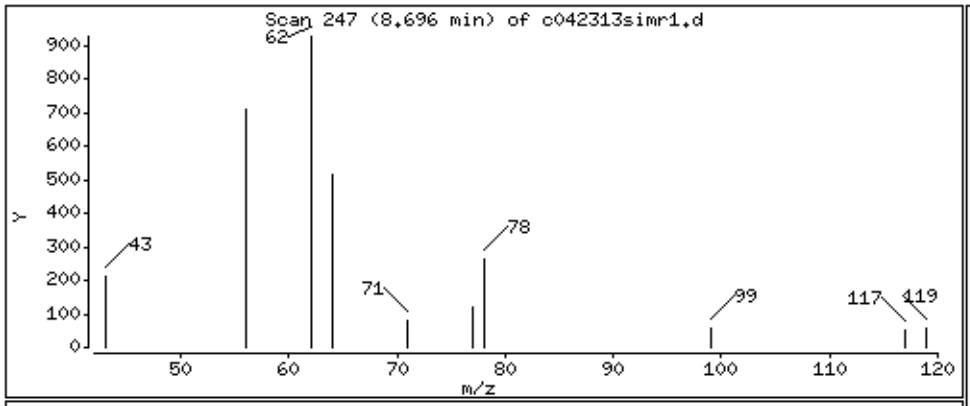
Operator: gm

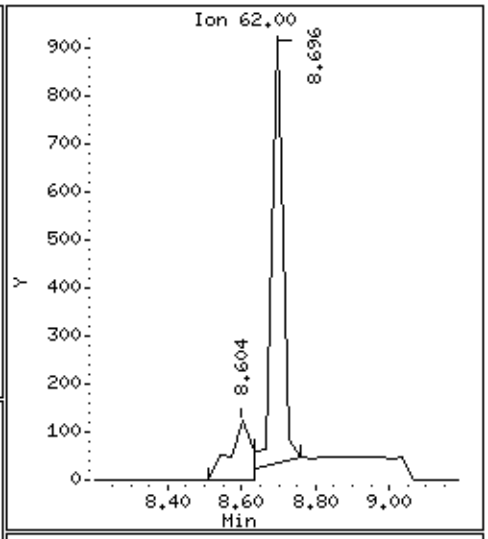
Column phase: DB-5.625

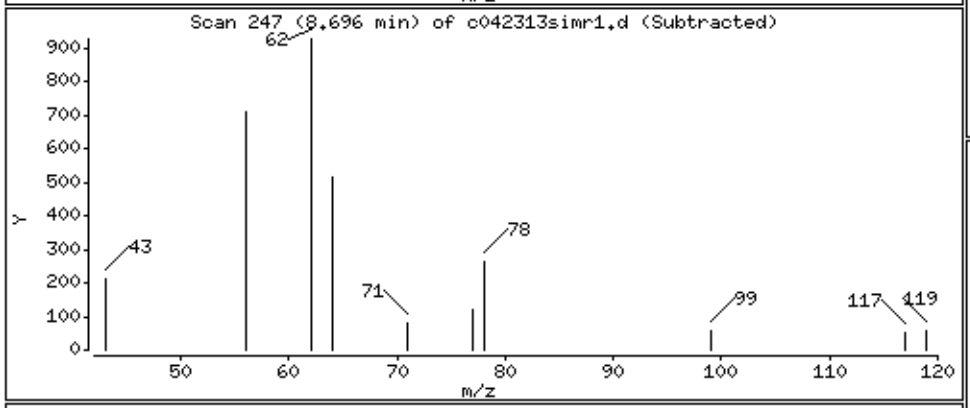
Column diameter: 0.25

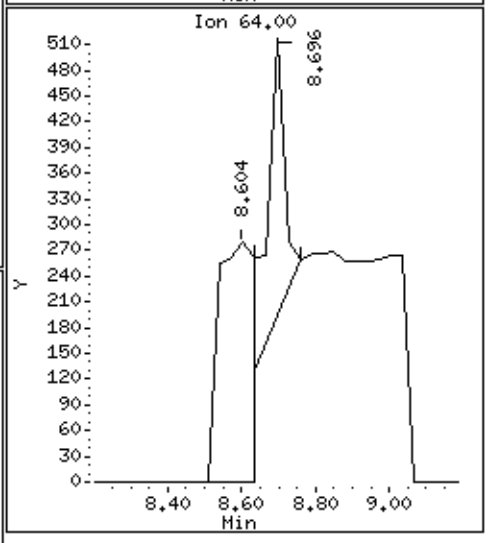
20 1,2-Dichloroethane

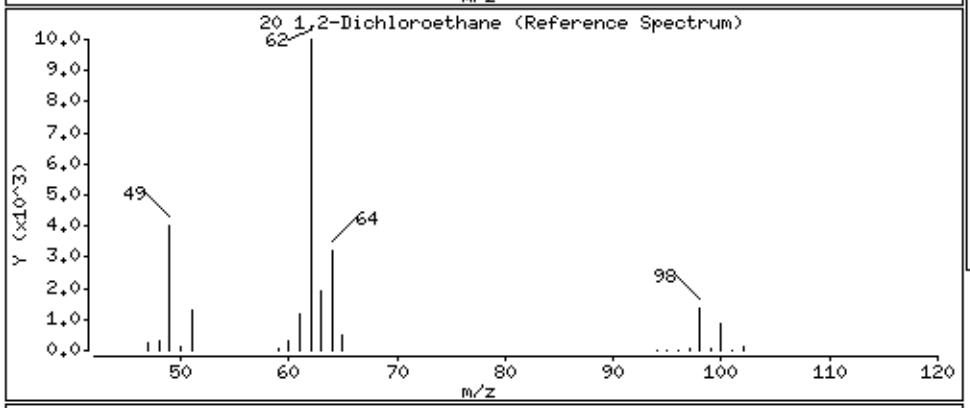
Concentration: 0.151151 ug

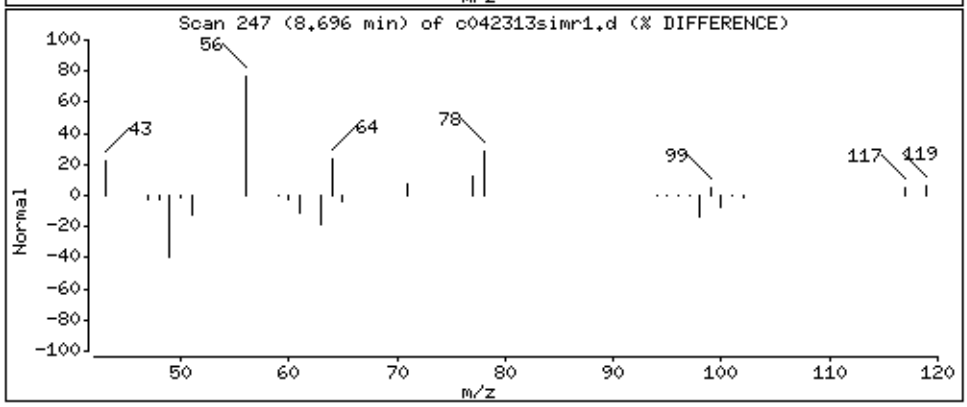












Data File: /chem/msdc.i/23Apr2015.b/c042313simr1.d

Date : 23-APR-2015 14:13

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-05A;

Volume Injected (uL): 1.0

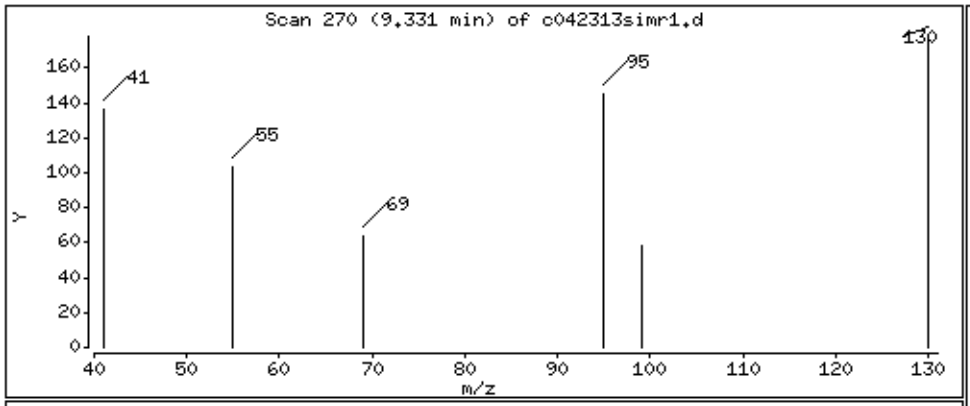
Operator: gm

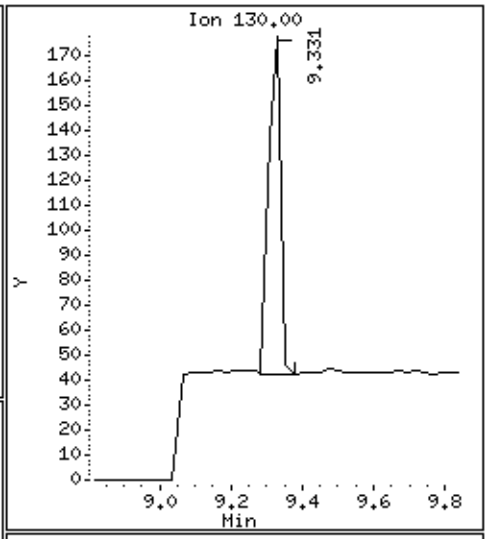
Column phase: DB-5.625

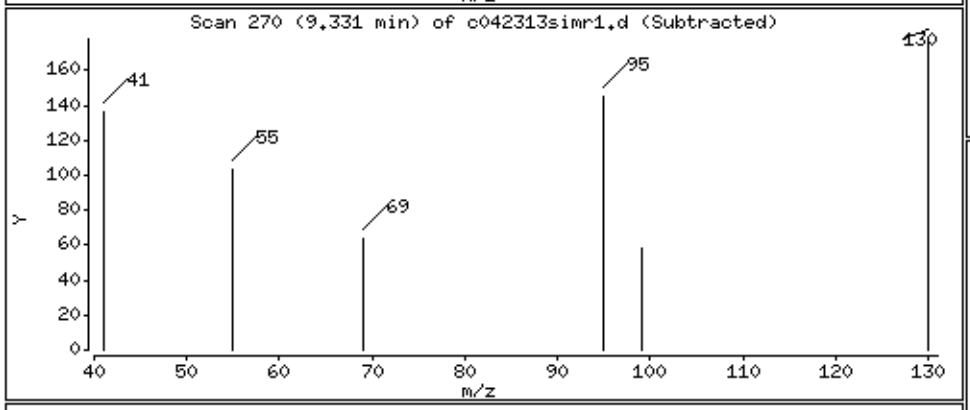
Column diameter: 0.25

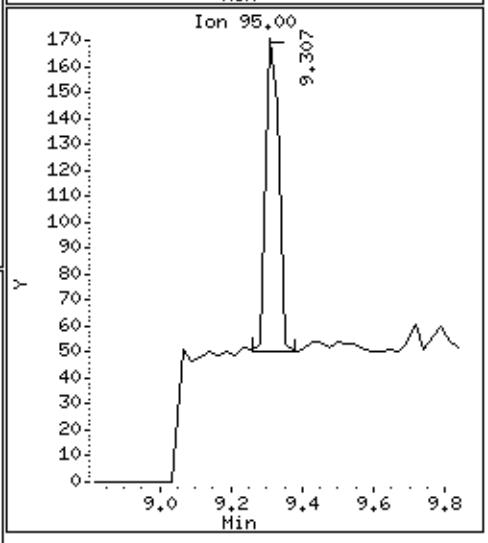
22 Trichloroethene

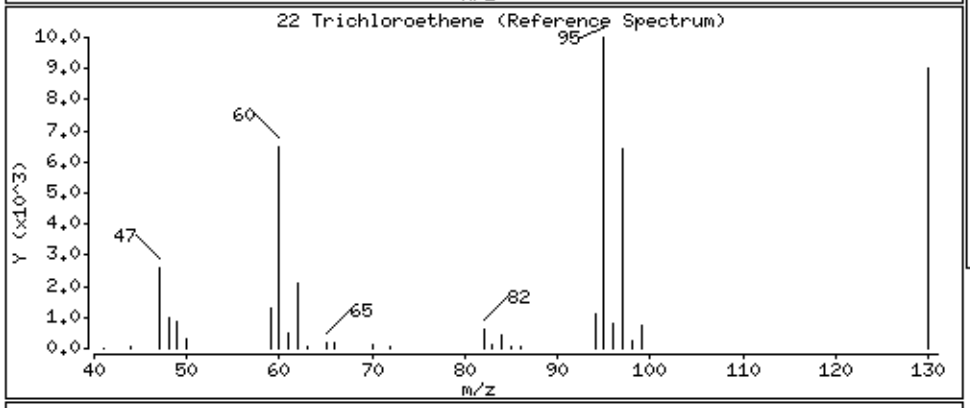
Concentration: 0.0387178 ug

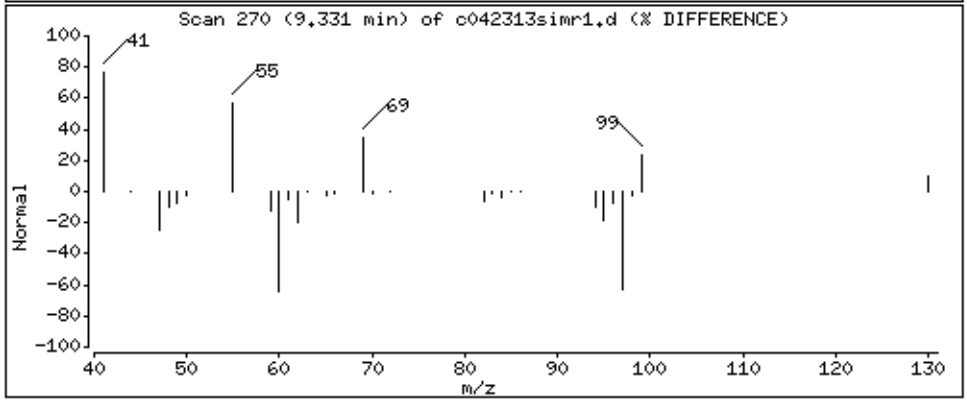












Data File: /chem/msdc.i/23Apr2015.b/c042313simr1.d

Date : 23-APR-2015 14:13

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-05A;

Volume Injected (uL): 1.0

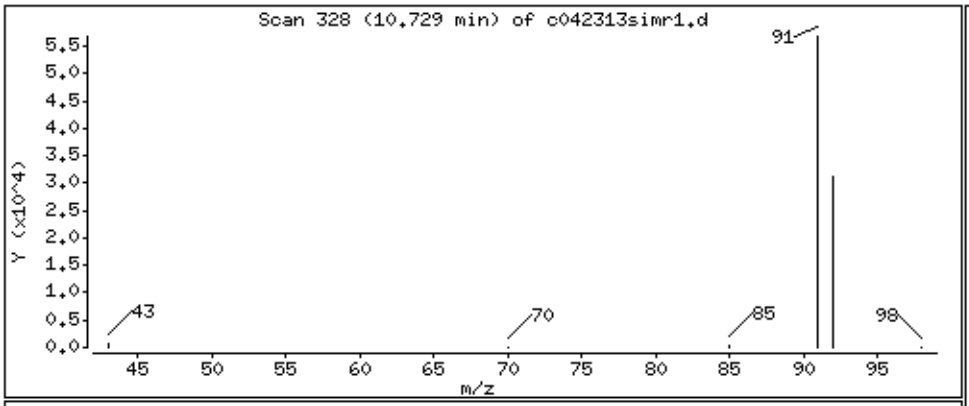
Operator: gm

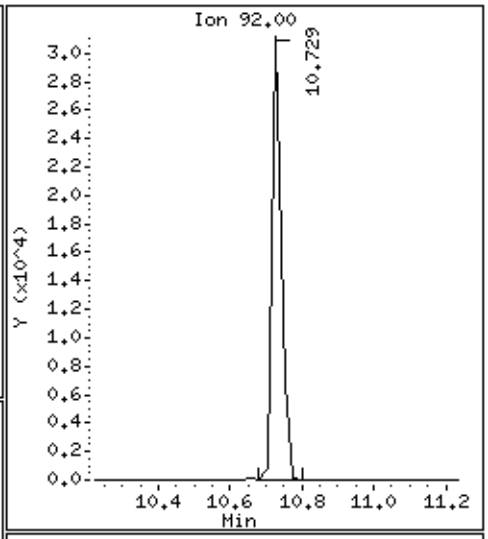
Column phase: DB-5.625

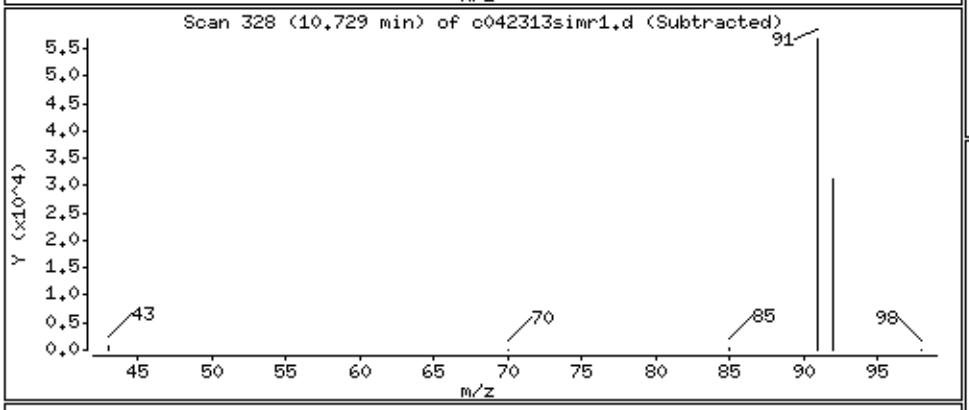
Column diameter: 0.25

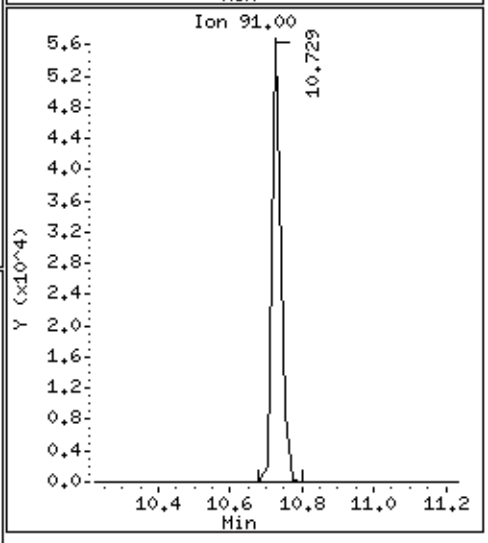
26 Toluene-CCC

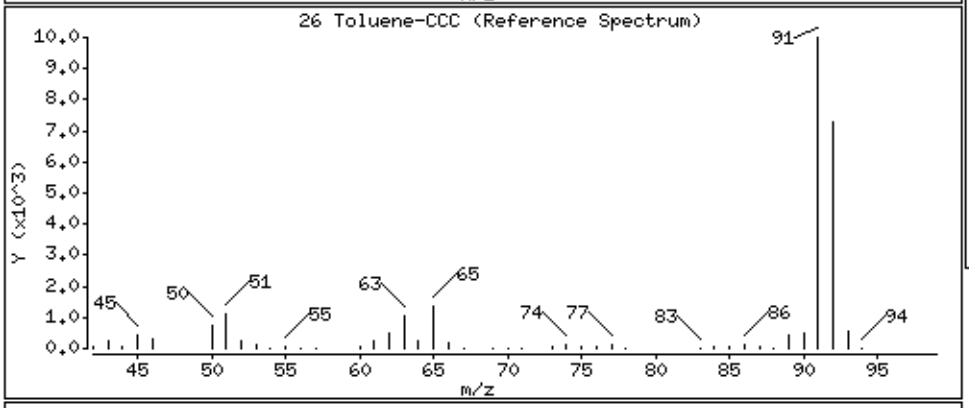
Concentration: 2.56574 ug

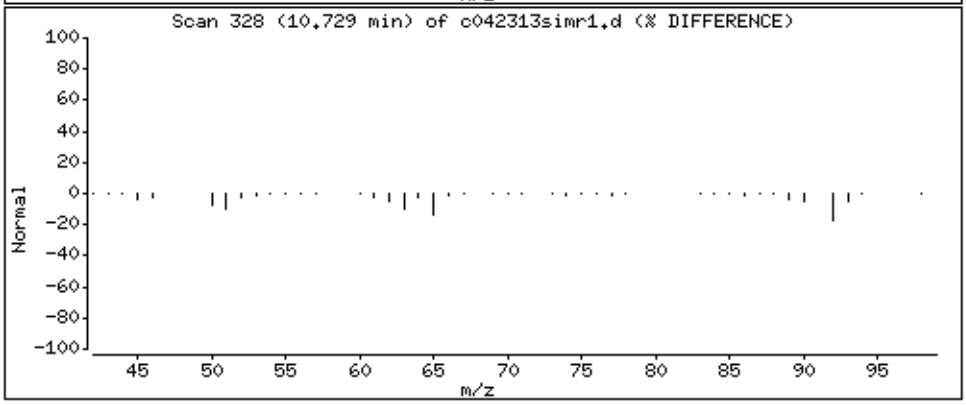












Data File: /chem/msdc.i/23Apr2015.b/c042313simr1.d

Date : 23-APR-2015 14:13

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-05A;

Volume Injected (uL): 1.0

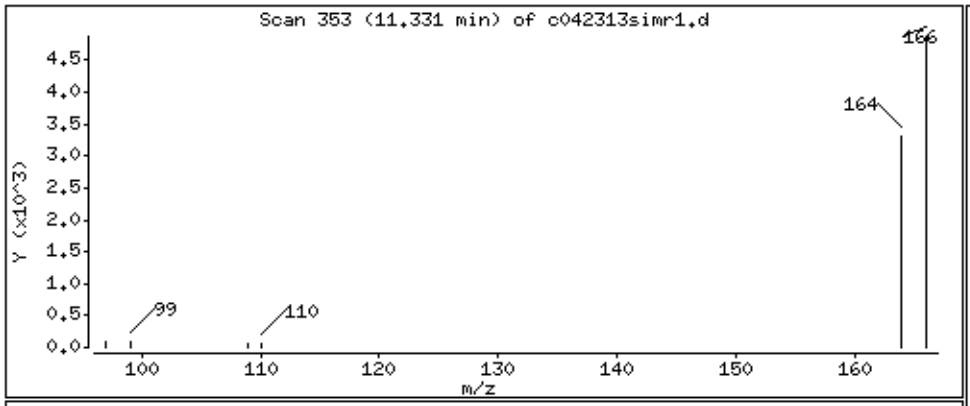
Operator: gm

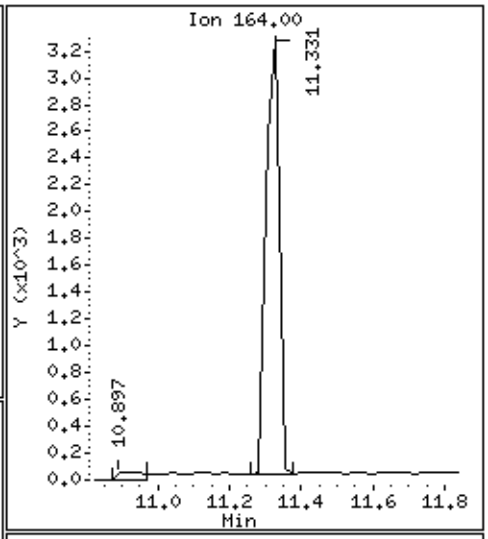
Column phase: DB-5.625

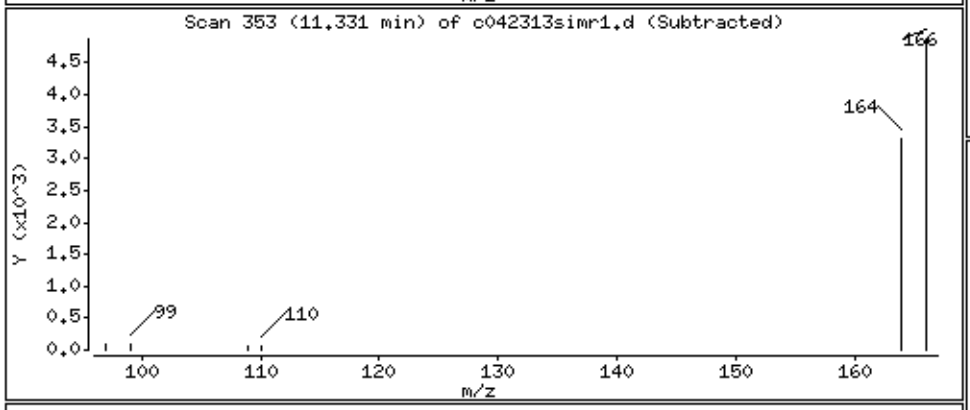
Column diameter: 0.25

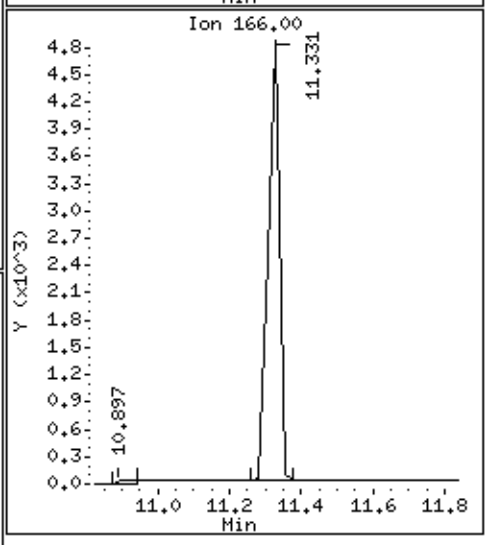
29 Tetrachloroethene

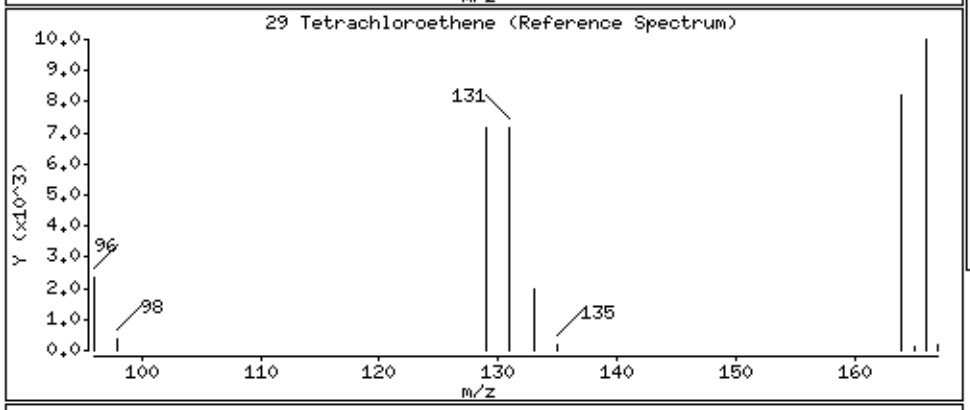
Concentration: 0.842043 ug

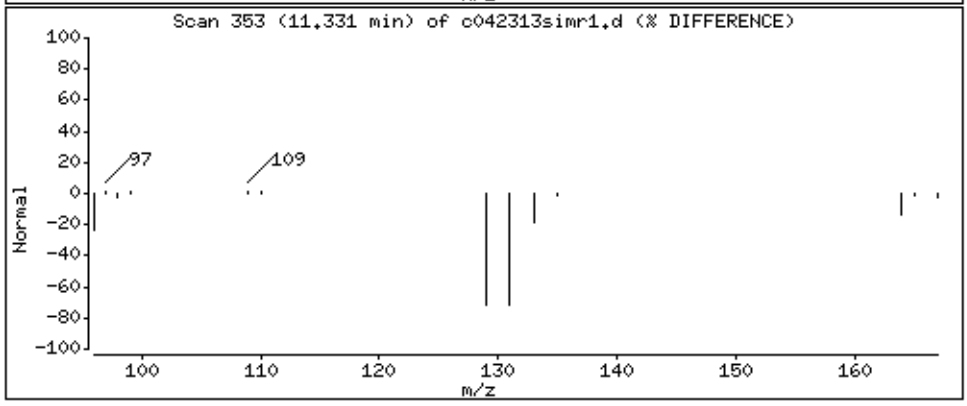












Data File: /chem/msdc.i/23Apr2015.b/c042313simr1.d

Date : 23-APR-2015 14:13

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-05A;

Volume Injected (uL): 1.0

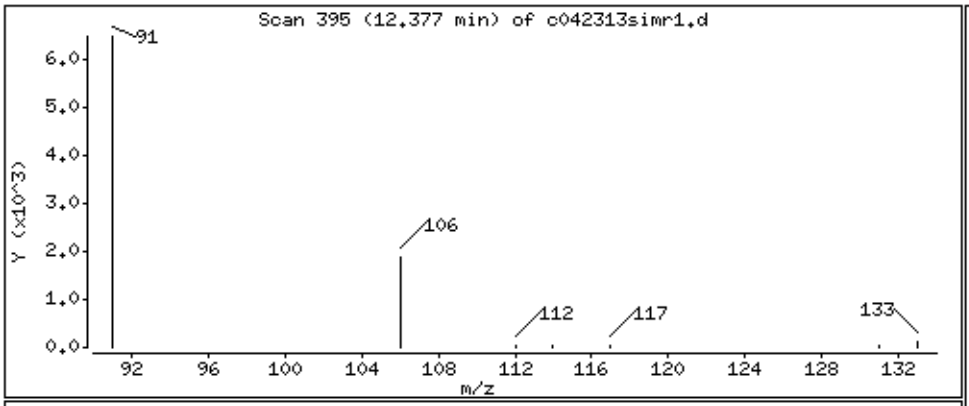
Operator: gm

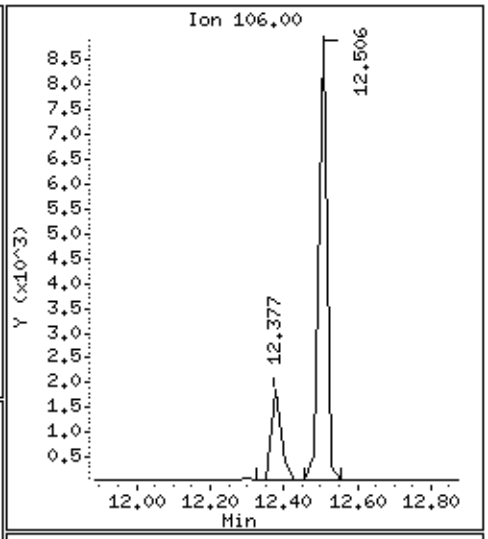
Column phase: DB-5.625

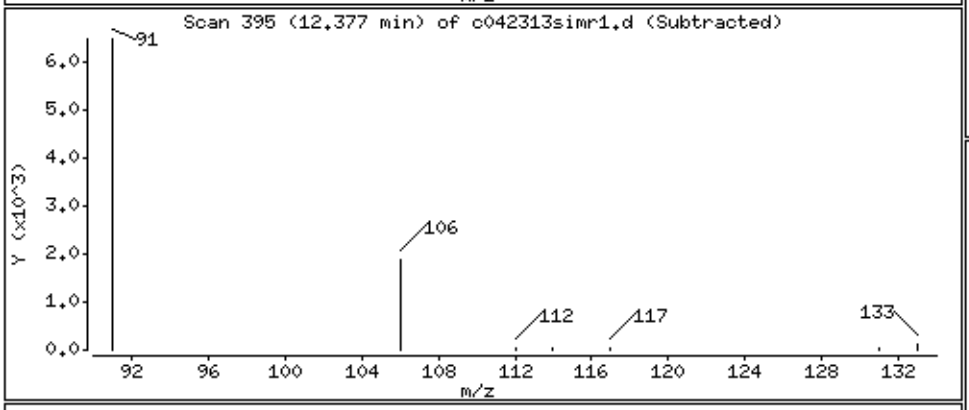
Column diameter: 0.25

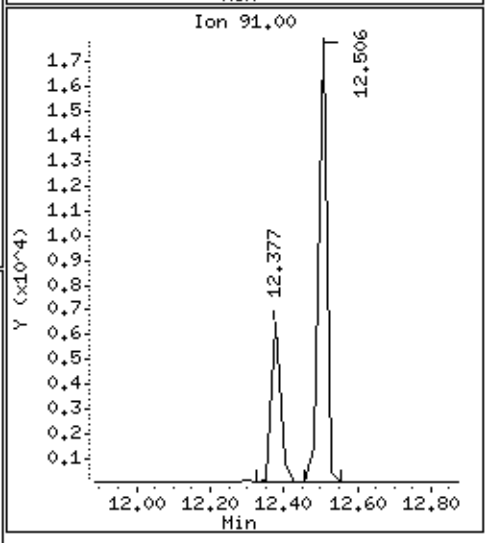
31 Ethylbenzene-CCC

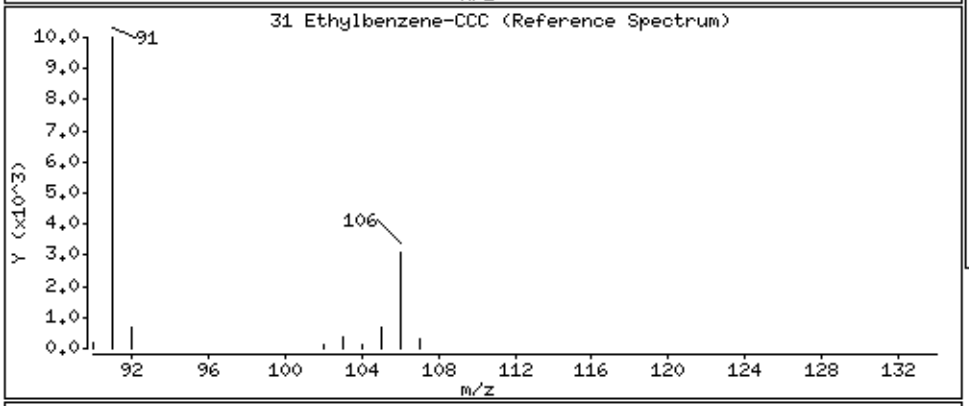
Concentration: 0.241160 ug

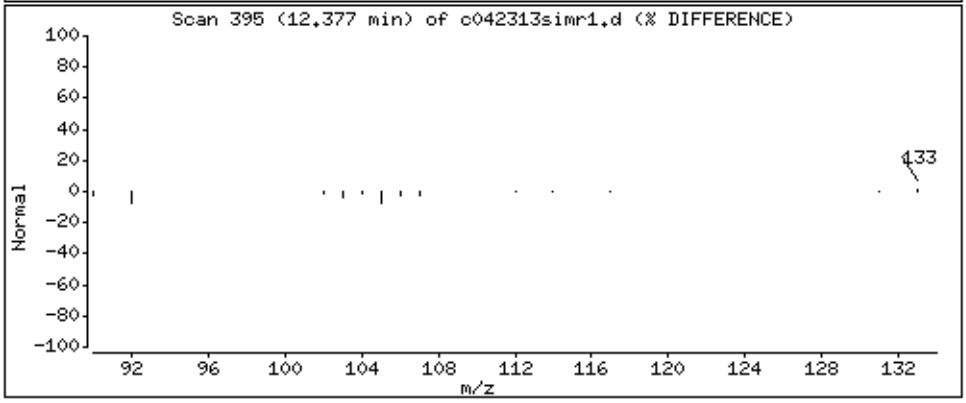












Data File: /chem/msdc.i/23Apr2015.b/c042313simr1.d

Date : 23-APR-2015 14:13

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-05A;

Volume Injected (uL): 1.0

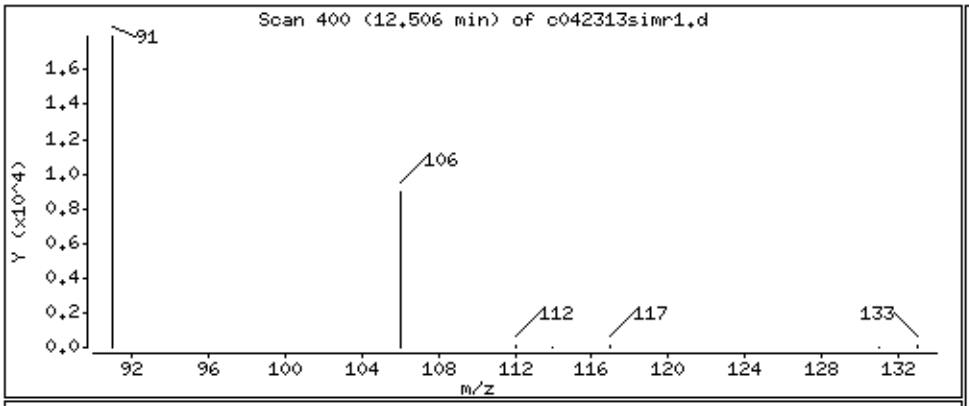
Operator: gm

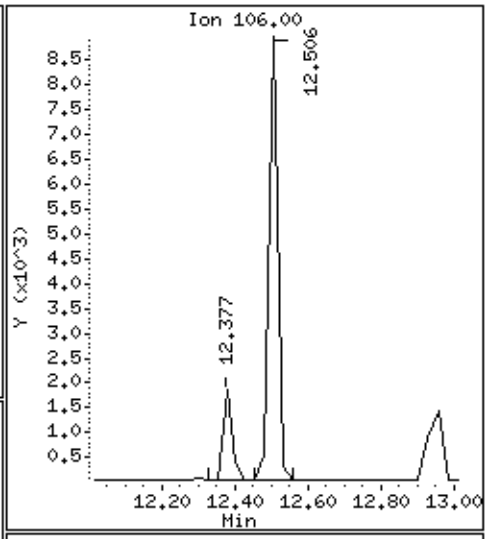
Column phase: DB-5.625

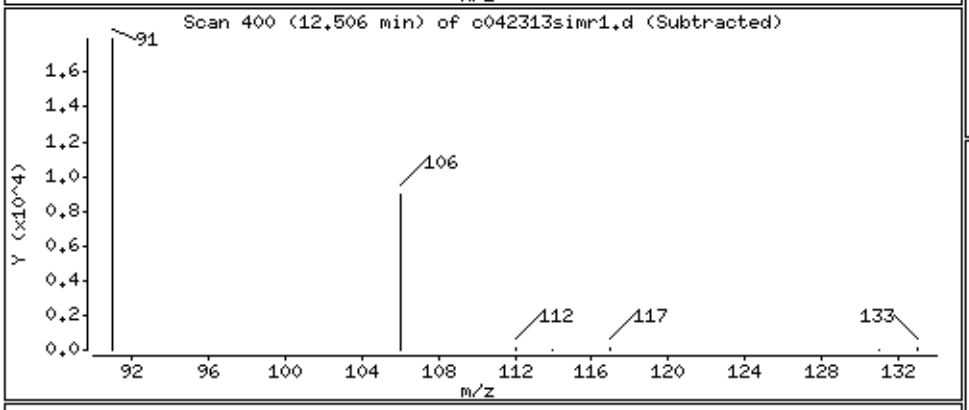
Column diameter: 0.25

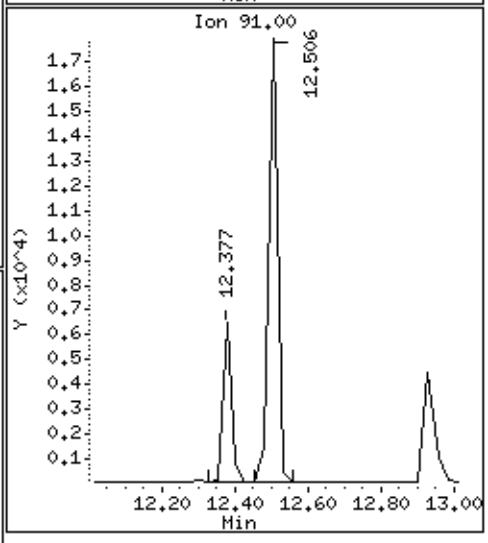
33 m,p-Xylene

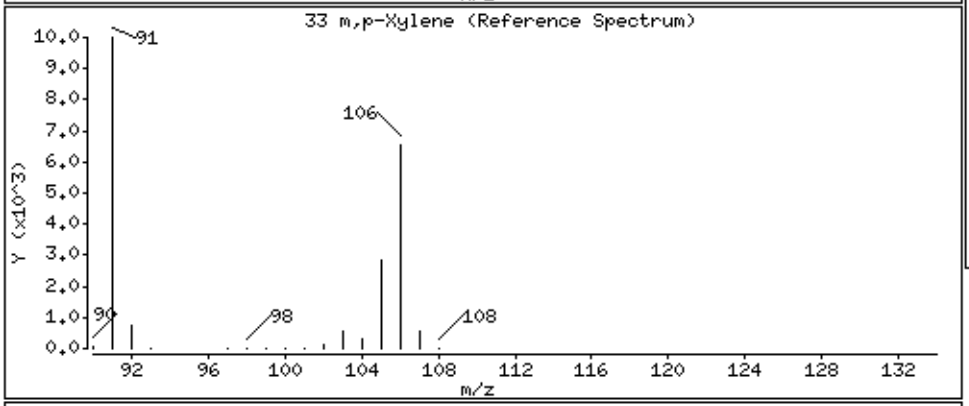
Concentration: 0.762070 ug

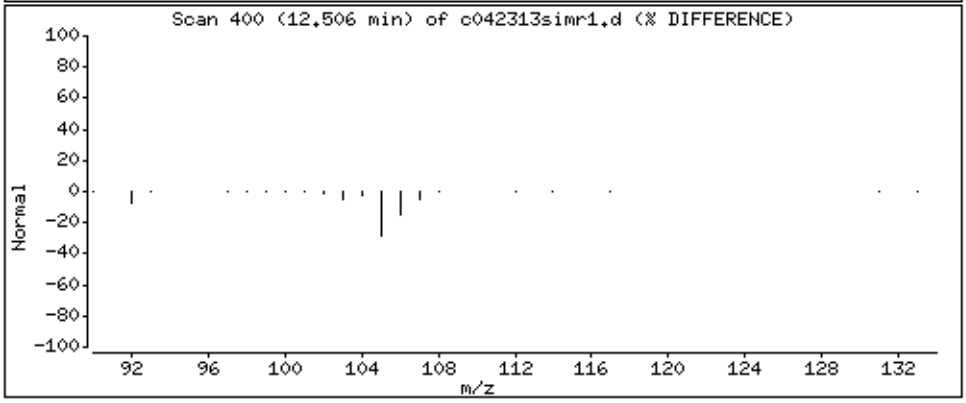












Data File: /chem/msdc.i/23Apr2015.b/c042313simr1.d

Date : 23-APR-2015 14:13

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-05A;

Volume Injected (uL): 1.0

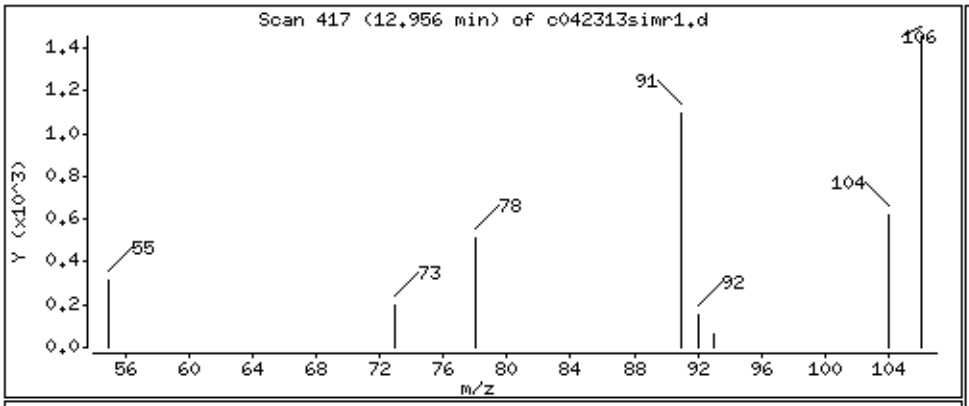
Operator: gm

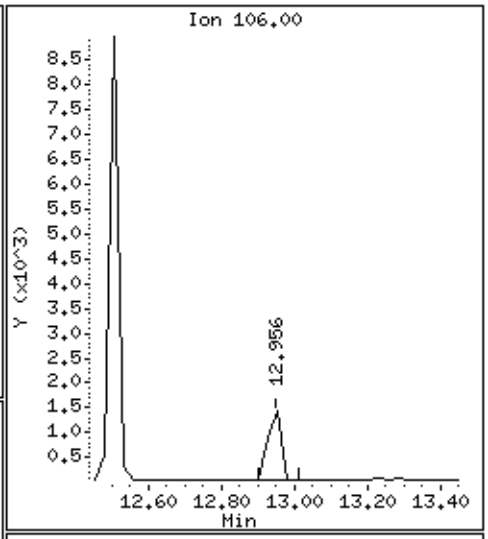
Column phase: DB-5.625

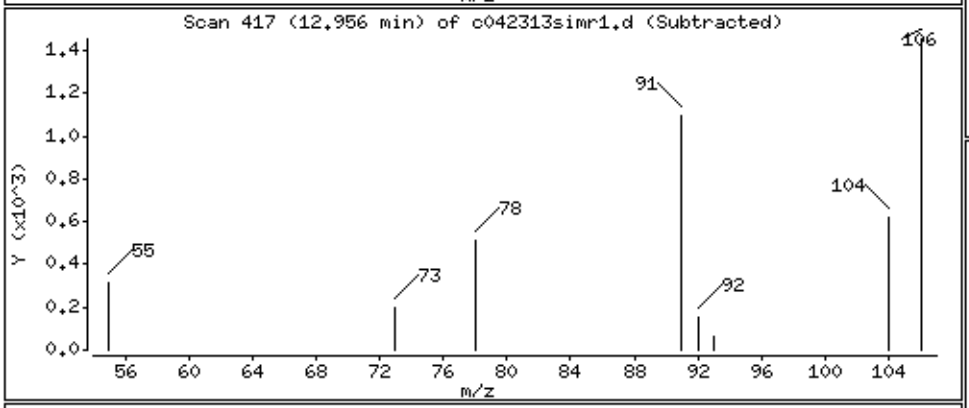
Column diameter: 0.25

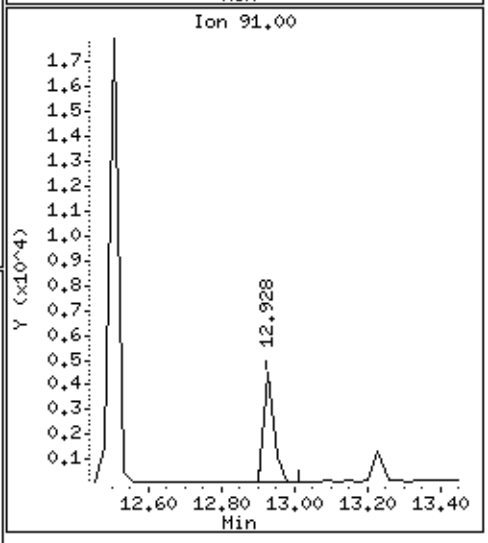
34 o-Xylene

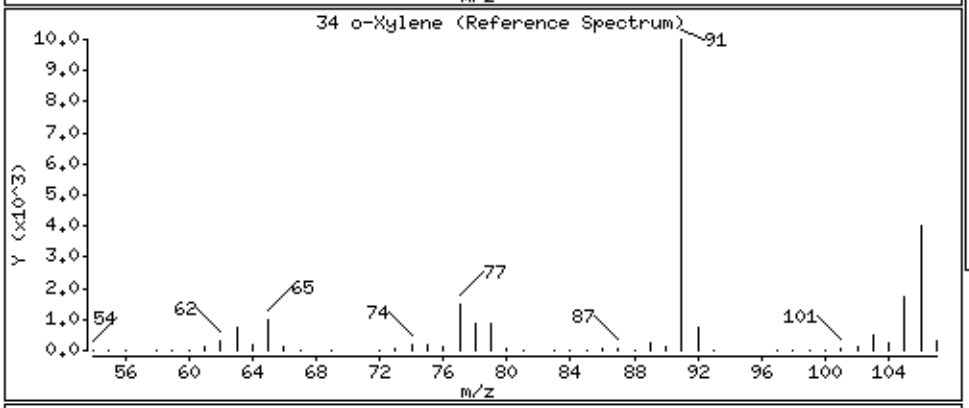
Concentration: 0.236315 ug

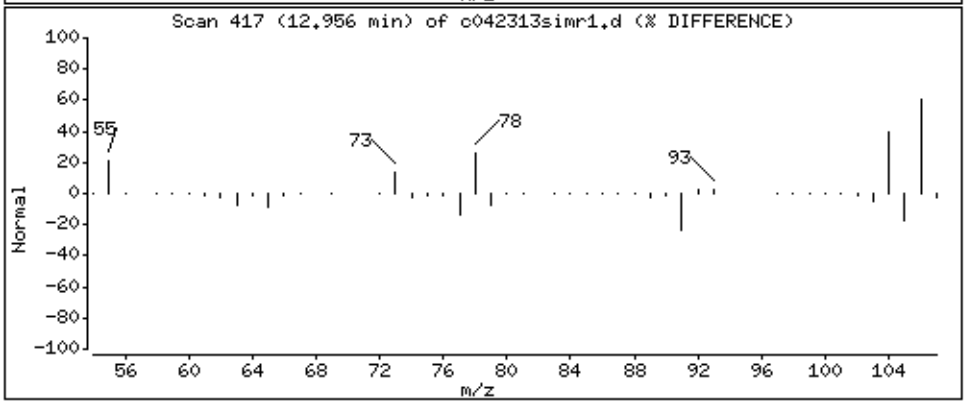












Data File: /chem/msdc.i/23Apr2015.b/c042313simr1.d

Date : 23-APR-2015 14:13

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-05A;

Volume Injected (uL): 1.0

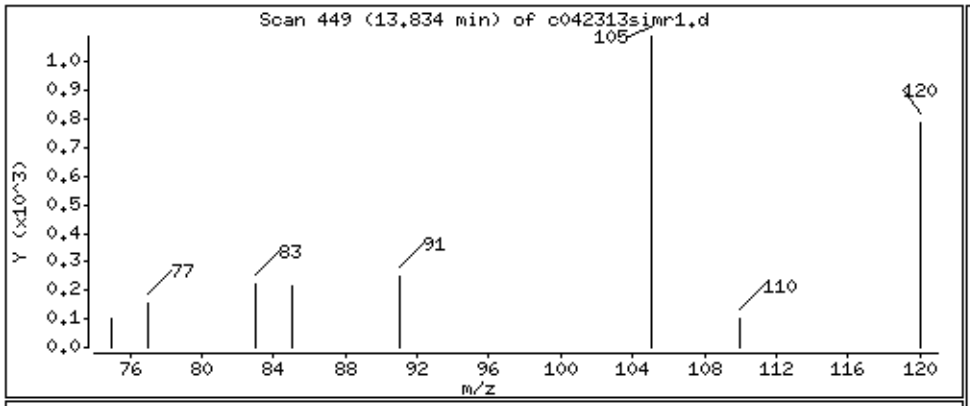
Operator: gm

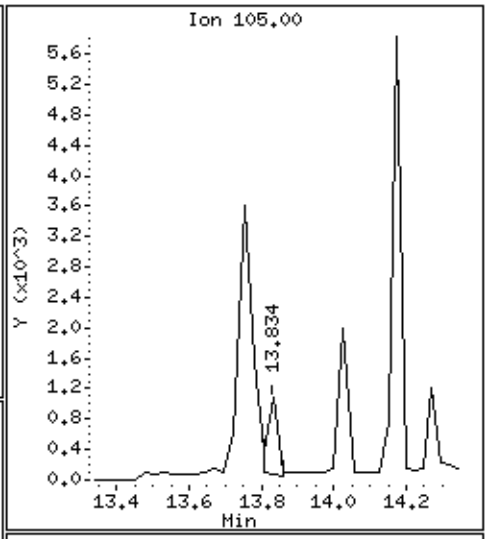
Column phase: DB-5.625

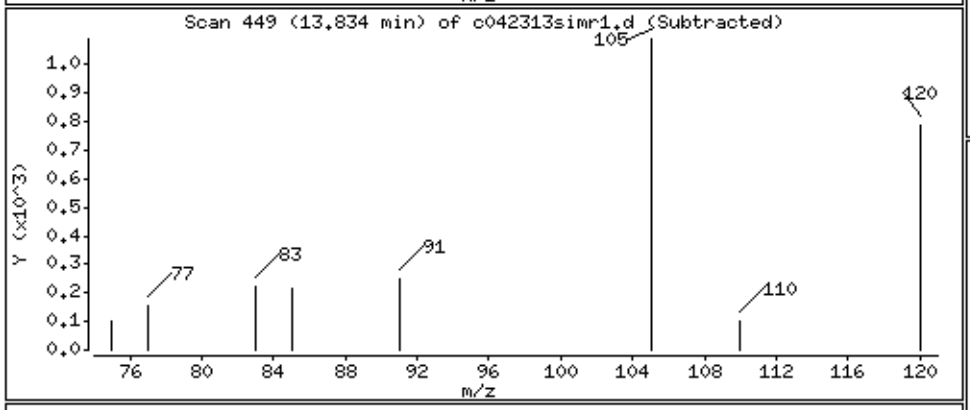
Column diameter: 0.25

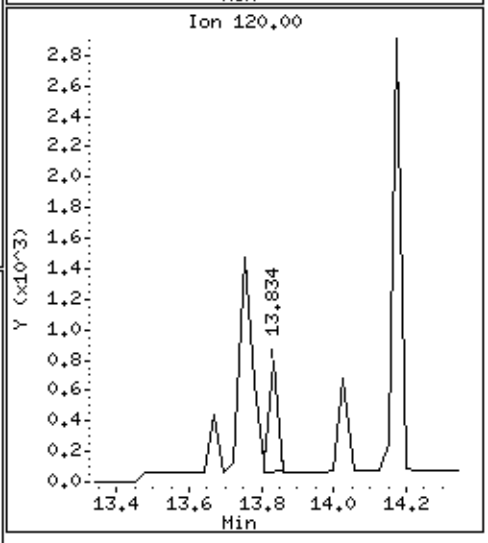
40 1,3,5-Trimethylbenzene

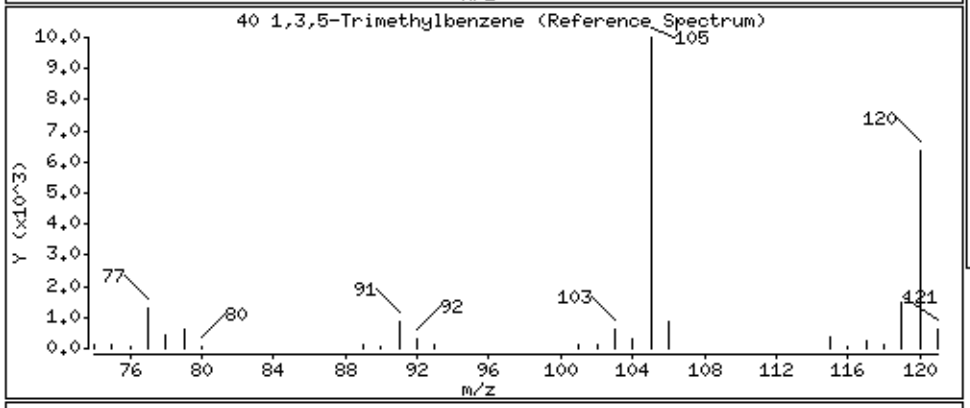
Concentration: 0.0613087 ug

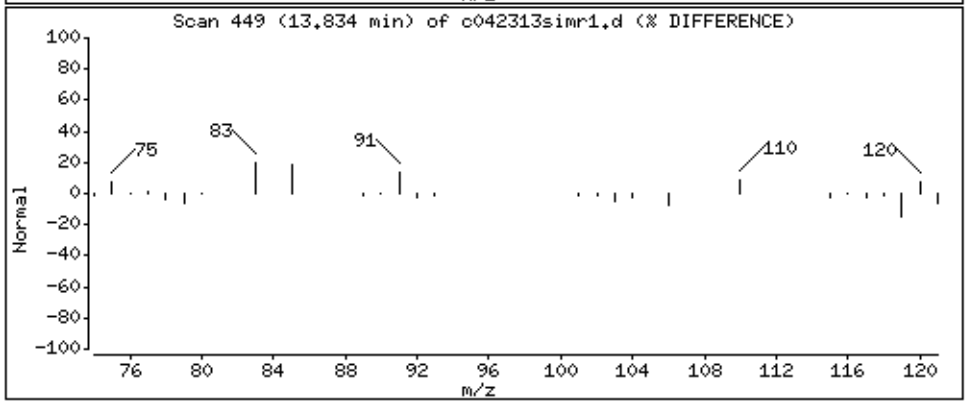












Data File: /chem/msdc.i/23Apr2015.b/c042313simr1.d

Date : 23-APR-2015 14:13

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-05A;

Volume Injected (uL): 1.0

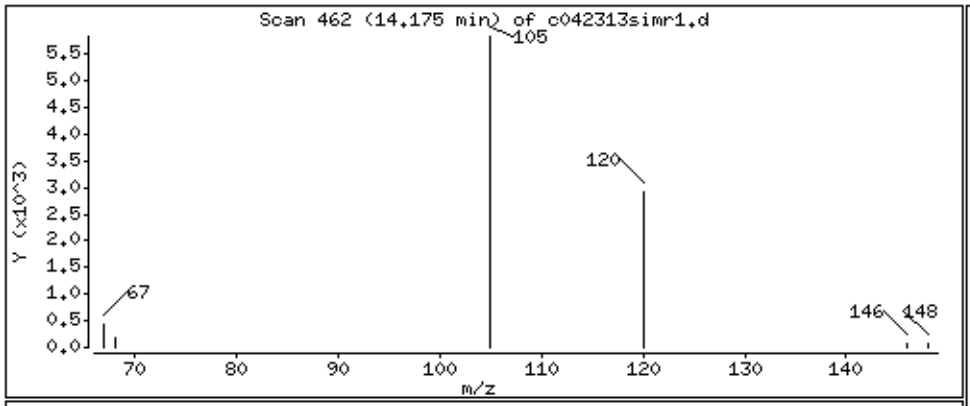
Operator: gm

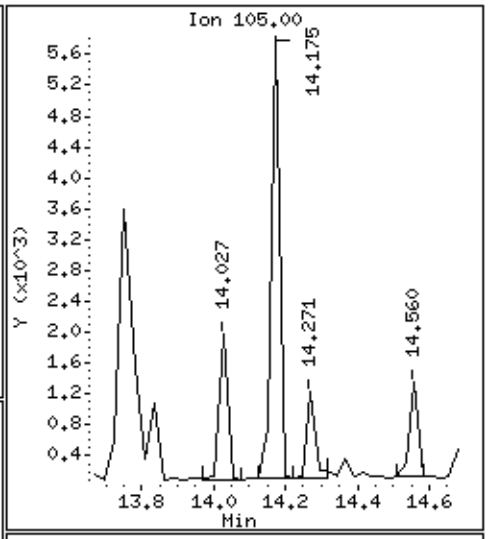
Column phase: DB-5.625

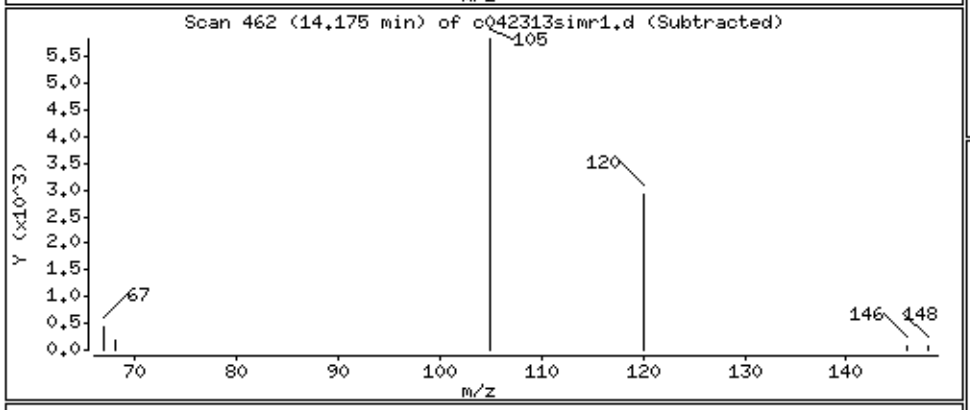
Column diameter: 0.25

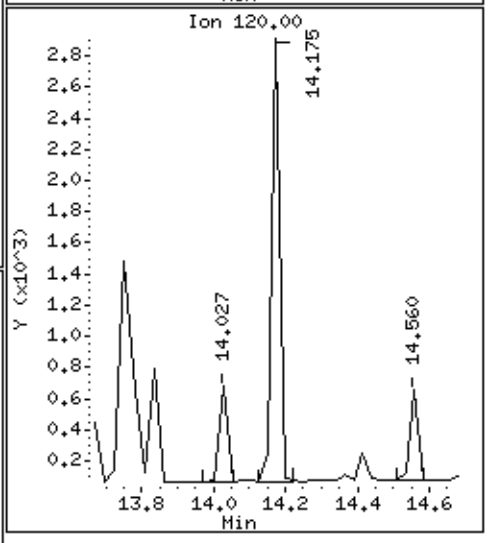
41 1,2,4-Trimethylbenzene

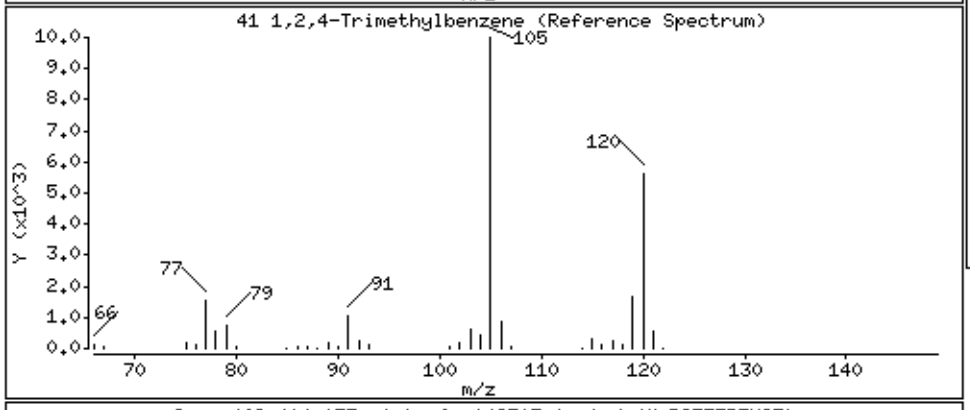
Concentration: 0.209287 ug

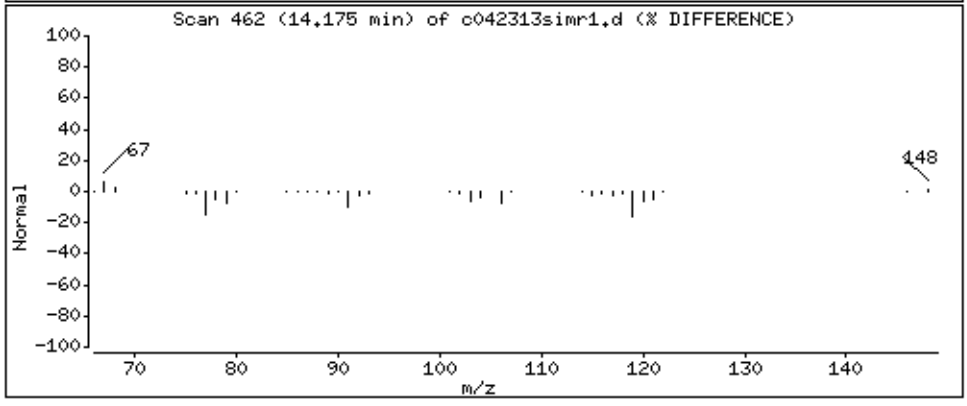












eurofins | Air Toxics

Summary of Detected Compounds
VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: 5211-CS01-0415

Lab ID#: 1504309R2-06A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Benzene	0.40	0.48	0.72	0.86
1,2-Dichloroethane	0.10	0.12	0.044 J	0.054 J
Toluene	0.10	0.13	1.5	2.0
Tetrachloroethene	0.10	0.16	0.067 J	0.11 J
Ethyl Benzene	0.10	0.14	0.24	0.34
m,p-Xylene	0.10	0.14	0.81	1.1
o-Xylene	0.10	0.15	0.25	0.37
1,2,4-Trimethylbenzene	0.10	0.19	0.24	0.47
1,3,5-Trimethylbenzene	0.10	0.18	0.070 J	0.13 J

eurofins | Air Toxics

Client Sample ID: 5211-CS01-0415

Lab ID#: 1504309R2-06A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**c042314simr2**	**Date of Collection: 4/17/15 9:17:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/15 02:38 PM**	
		Date of Extraction: 4/23/15	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
1,1,1-Trichloroethane	0.10	0.15	Not Detected	Not Detected
Benzene	0.40	0.48	0.72	0.86
1,2-Dichloroethane	0.10	0.12	0.044 J	0.054 J
Trichloroethene	0.10	0.14	Not Detected	Not Detected
Toluene	0.10	0.13	1.5	2.0
Tetrachloroethene	0.10	0.16	0.067 J	0.11 J
Ethyl Benzene	0.10	0.14	0.24	0.34
m,p-Xylene	0.10	0.14	0.81	1.1
o-Xylene	0.10	0.15	0.25	0.37
Naphthalene	0.10	0.38	Not Detected	Not Detected
1,1-Dichloroethane	0.10	0.15	Not Detected C	Not Detected C
1,1-Dichloroethene	0.40	0.50	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.15	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.32	Not Detected C	Not Detected C
1,1,2-Trichloroethane	0.10	0.14	Not Detected C	Not Detected C
1,2,4-Trimethylbenzene	0.10	0.19	0.24	0.47
1,3,5-Trimethylbenzene	0.10	0.18	0.070 CJ	0.13 CJ
Vinyl Chloride	0.40	0.43	Not Detected C	Not Detected C

J = Estimated value.
C = Estimated concentration due to calculated sampling rate.

Temperature = 89.6F , duration time = 10072 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	112	70-130

Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msdc.i/23Apr2015.b/c042314simr2.d
Lab Smp Id: 1504309R2-06A
Inj Date : 23-APR-2015 14:38
Operator : gm Inst ID: msdc.i
Smp Info : ;1504309R2-06A;
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Meth Date : 26-Jun-2015 14:36 gmash Quant Type: ISTD
Cal Date : 15-APR-2015 11:23 Cal File: c041509sim.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Gilbane.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
	2 Vinyl Chloride	62	Compound Not Detected.					
	4 1,1-Dichloroethene-CCC	96	Compound Not Detected.					
	8 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	11 1,1-Dichloroethane-SPCC	63	Compound Not Detected.					
	14 cis-1,2-Dichloroethene	96	Compound Not Detected.					
	17 1,1,1-Trichloroethane	97	Compound Not Detected.					
	19 Benzene	78	8.603	8.603	(0.783)	14810	0.35876	0.717528
	20 1,2-Dichloroethane	62	8.696	8.696	(0.791)	413	0.02179	0.0435779(aM)
	22 Trichloroethene	130	Compound Not Detected.					
$	25 Toluene-d8	98	10.656	10.656	(0.969)	220030	5.62380	11.2476
	26 Toluene-CCC	92	10.728	10.728	(0.976)	25605	0.75764	1.51529
*	27 2-Fluorotoluene	109	10.993	10.993	(1.000)	237694	5.00000	
	28 1,1,2-Trichloroethane	97	Compound Not Detected.					
	29 Tetrachloroethene	164	11.331	11.331	(1.031)	523	0.03364	0.0672776(a)
	31 Ethylbenzene-CCC	106	12.377	12.377	(1.126)	2595	0.11941	0.238827
	33 m,p-Xylene	106	12.506	12.506	(1.138)	12313	0.40491	0.809824

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
34 o-Xylene	106	12.956	12.956	(1.178)	3010	0.12455	0.249098
40 1,3,5-Trimethylbenzene	105	13.834	13.834	(1.258)	1902	0.03486	0.0697262(aM)
41 1,2,4-Trimethylbenzene	105	14.174	14.174	(1.289)	8372	0.12168	0.243368
48 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Report Date: 13-Jul-2015 13:50

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042314simr2.d
Lab Smp Id: 1504309R2-06A
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

Calibration Date: 23-APR-2015
Calibration Time: 09:09
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	324554	162277	649108	237694	-26.76

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	10.99	10.49	11.49	10.99	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 13-Jul-2015 13:50

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 23Apr2015
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 1504309R2-06A
Level: MED Operator: gm
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS-CM.spk Quant Type: ISTD
Sublist File: Gilbane.sub
Method File: /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 25 Toluene-d8	10.0000	11.2476	112.48	70-130

Data File: /chem/msdc.i/23Apr2015.b/c042314simr2.d

Date : 23-APR-2015 14:38

Client ID:

Instrument: msdc.i

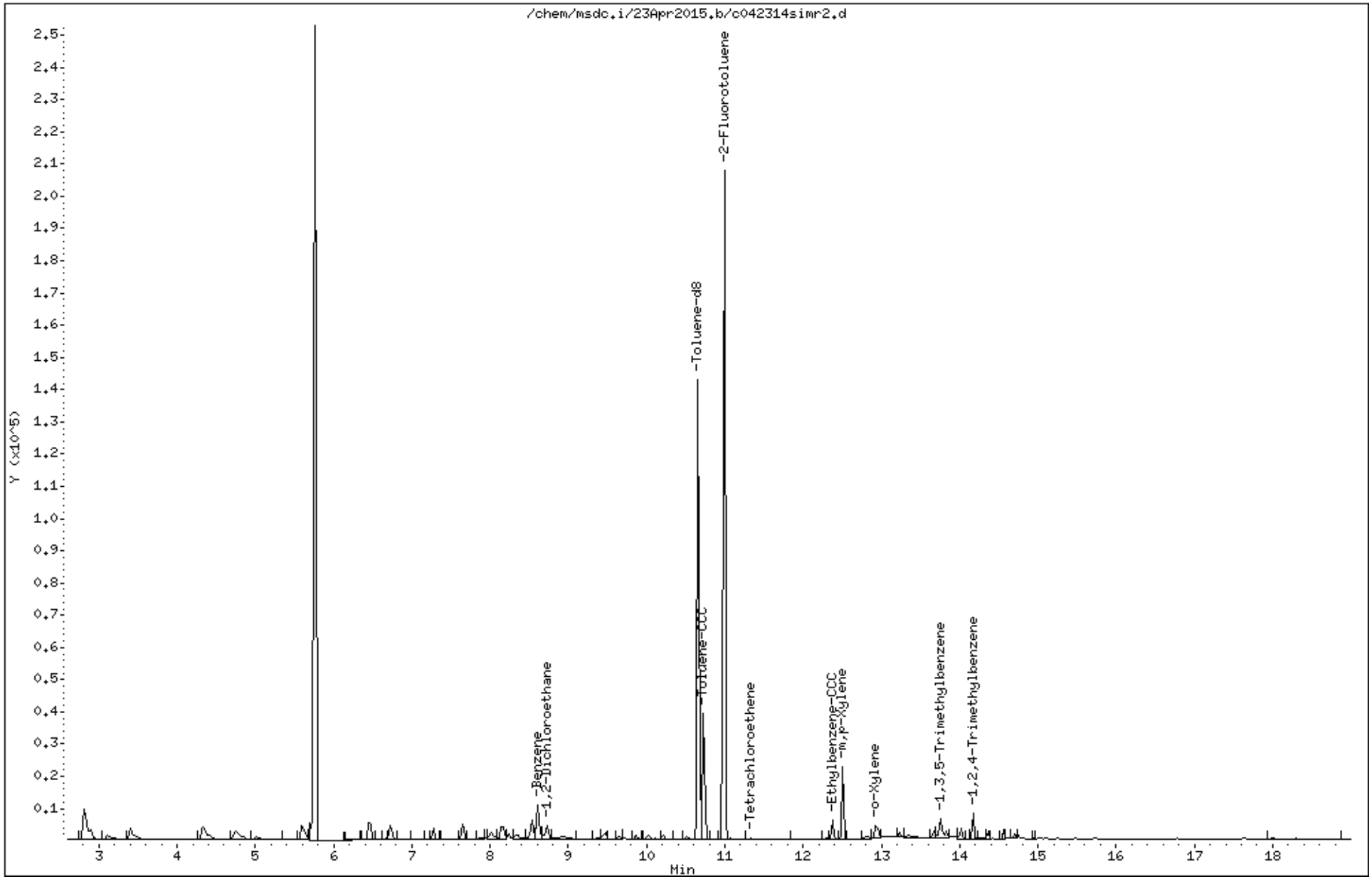
Sample Info: ;1504309R2-06A;

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdc.i/23Apr2015.b/c042314simr2.d

Date : 23-APR-2015 14:38

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-06A;

Volume Injected (uL): 1.0

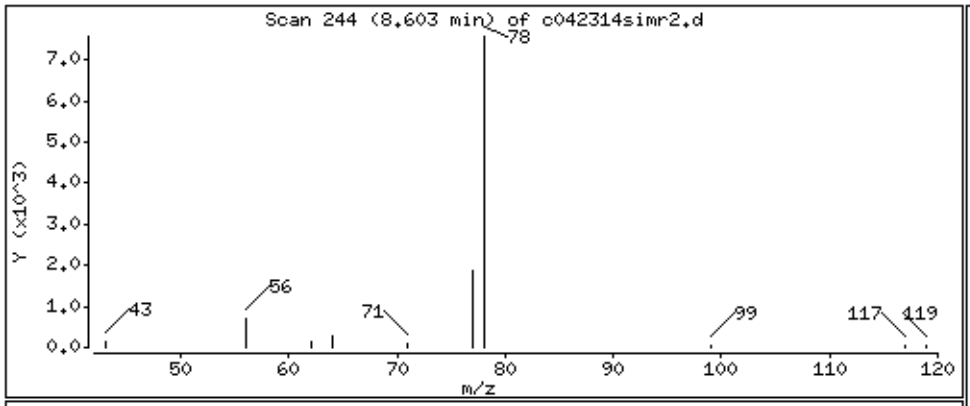
Operator: gm

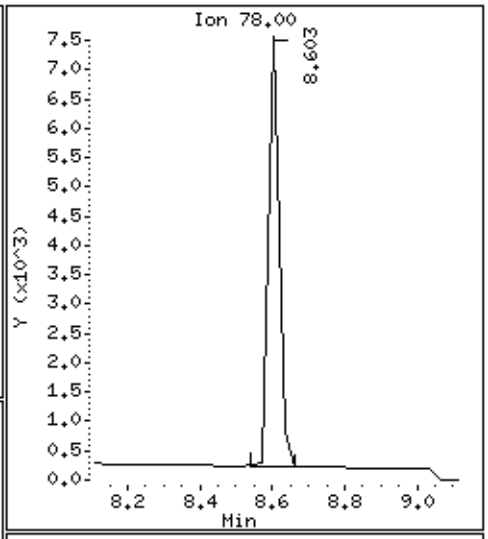
Column phase: DB-5.625

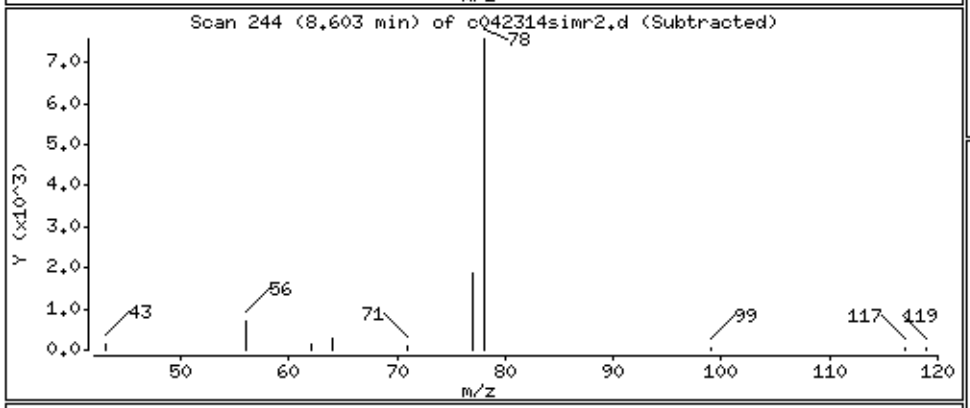
Column diameter: 0.25

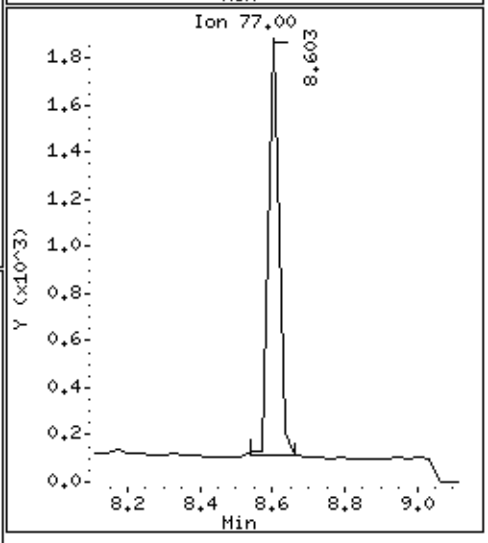
19 Benzene

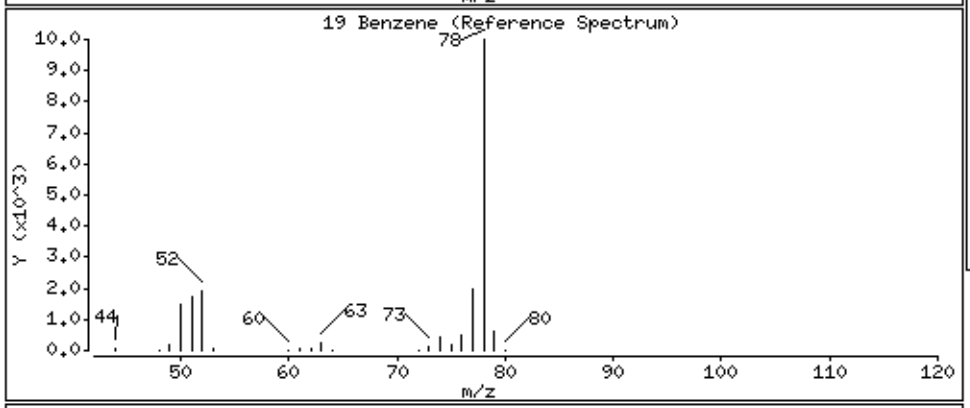
Concentration: 0.717528 ug

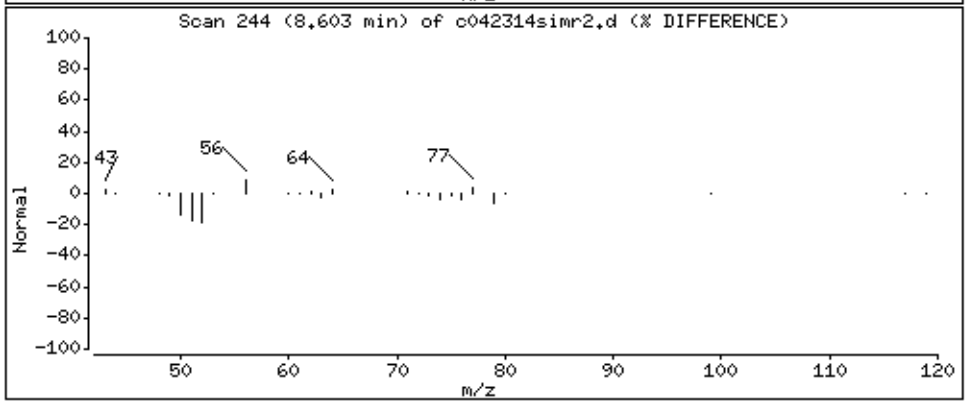












Data File: /chem/msdc.i/23Apr2015.b/c042314simr2.d

Date : 23-APR-2015 14:38

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-06A;

Volume Injected (uL): 1.0

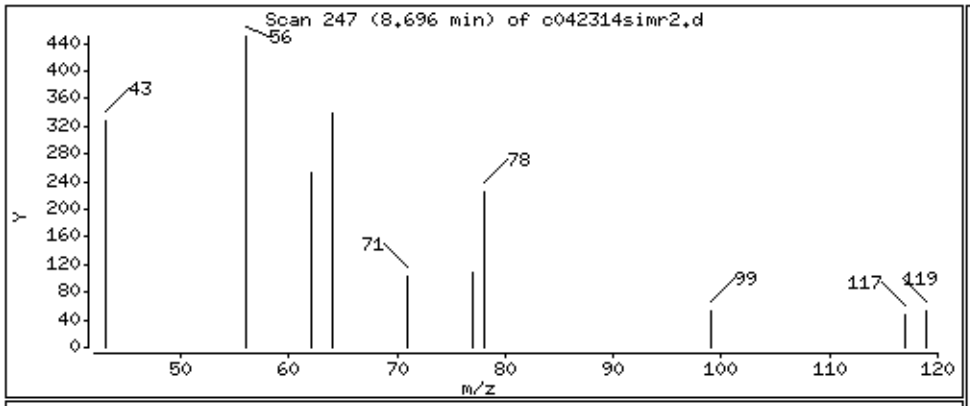
Operator: gm

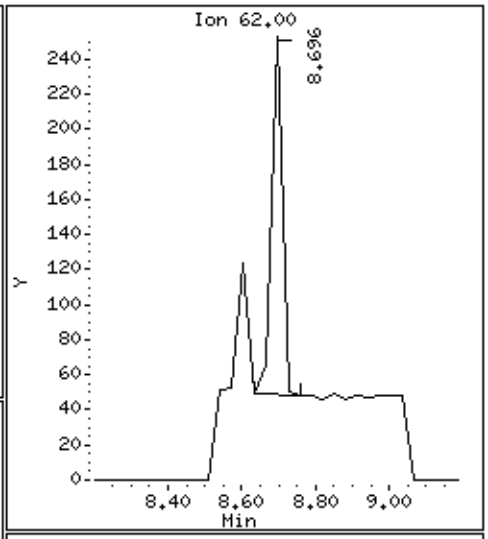
Column phase: DB-5.625

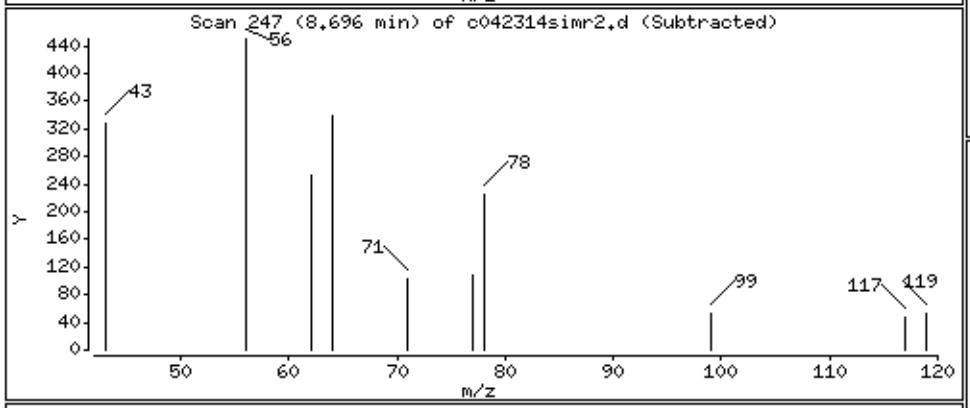
Column diameter: 0.25

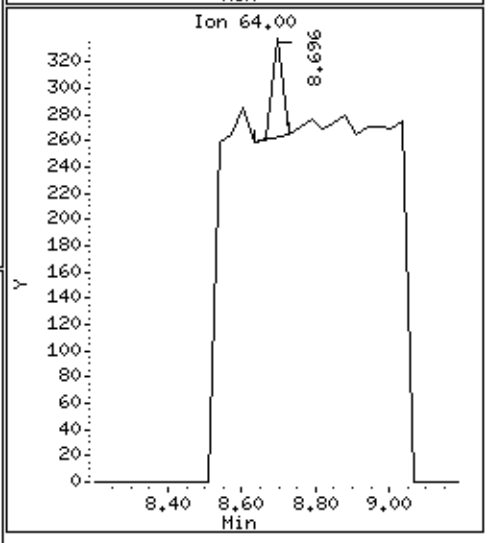
20 1,2-Dichloroethane

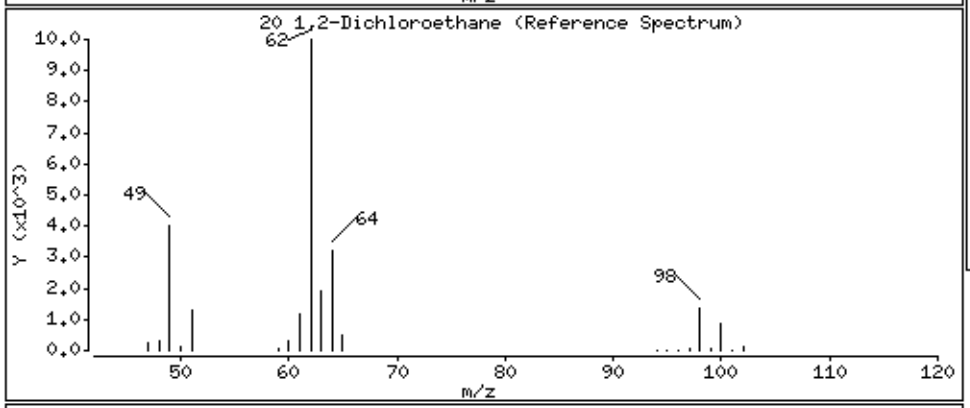
Concentration: 0.0435779 ug

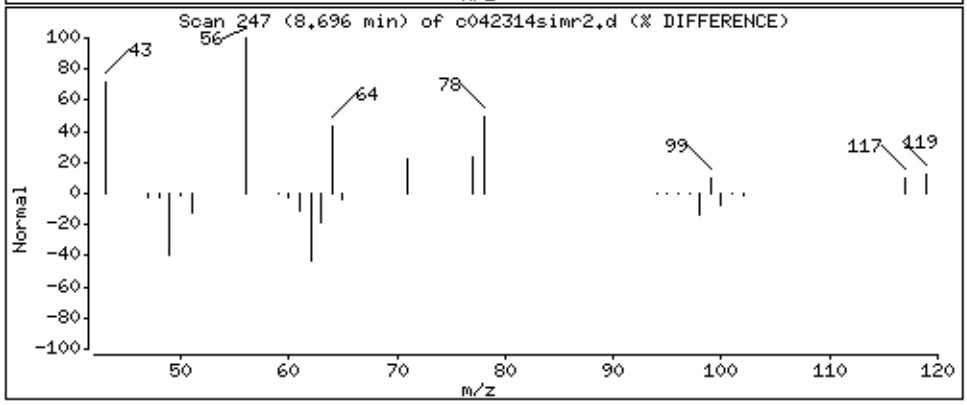












Data File: /chem/msdc.i/23Apr2015.b/c042314simr2.d

Date : 23-APR-2015 14:38

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-06A;

Volume Injected (uL): 1.0

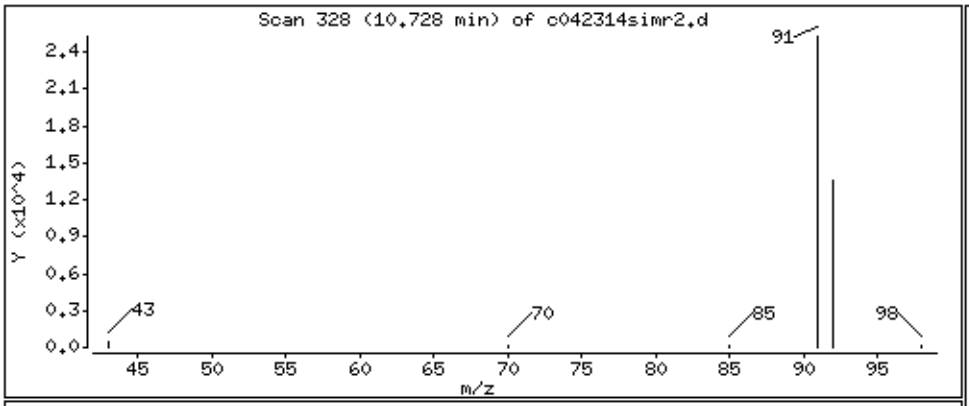
Operator: gm

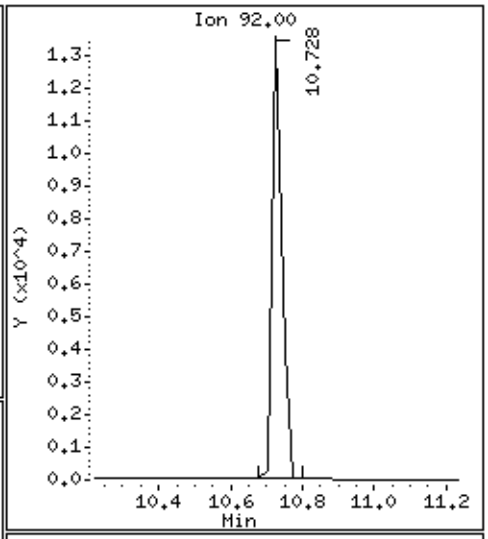
Column phase: DB-5.625

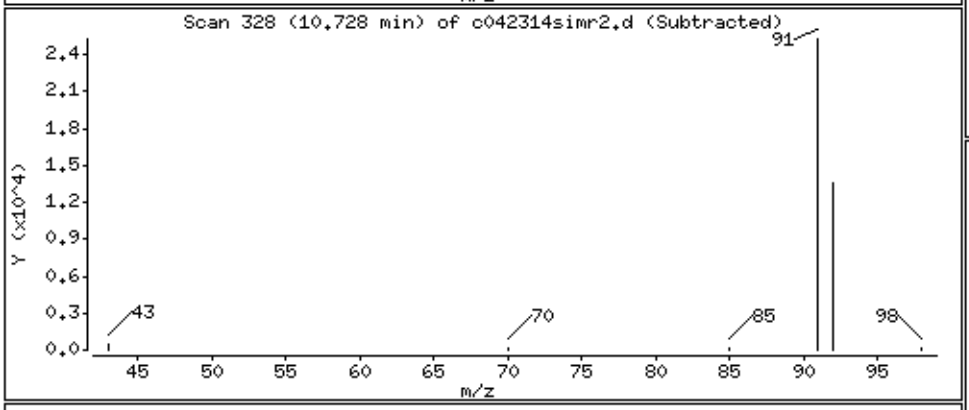
Column diameter: 0.25

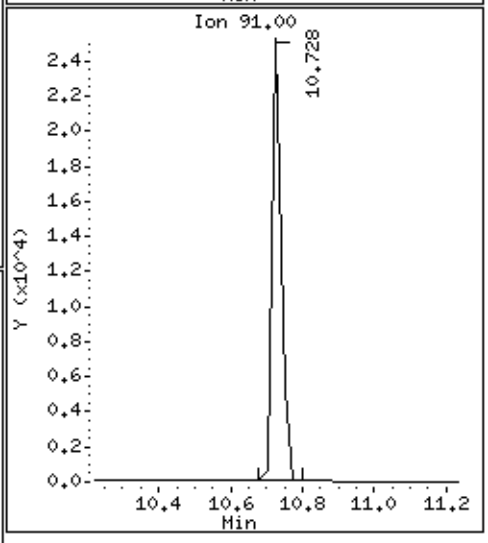
26 Toluene-CCC

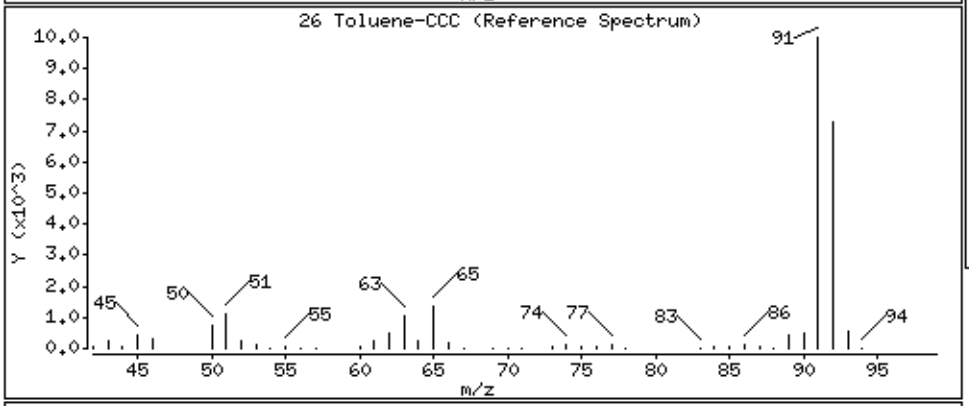
Concentration: 1.51529 ug

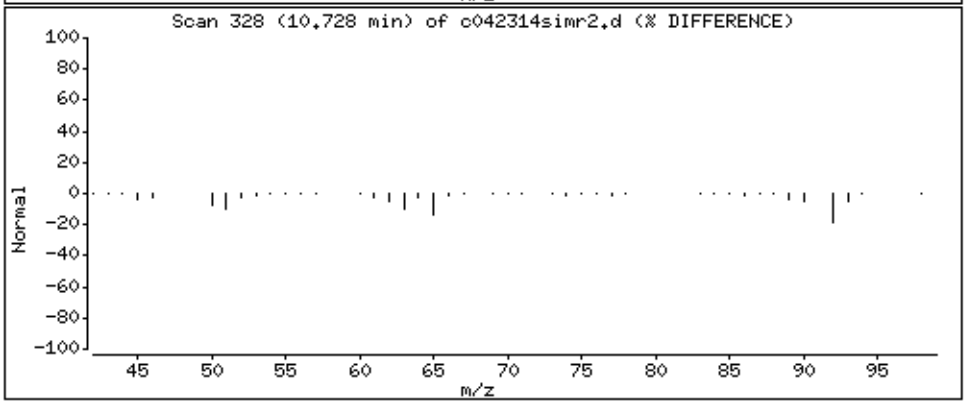












Data File: /chem/msdc.i/23Apr2015.b/c042314simr2.d

Date : 23-APR-2015 14:38

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-06A;

Volume Injected (uL): 1.0

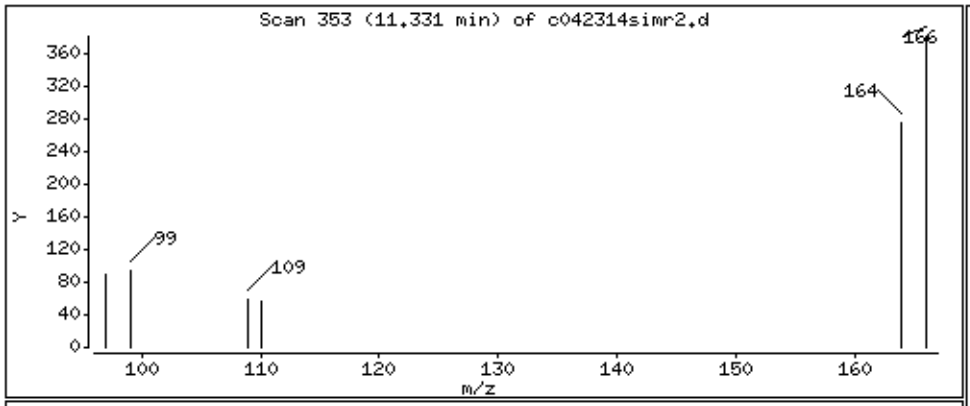
Operator: gm

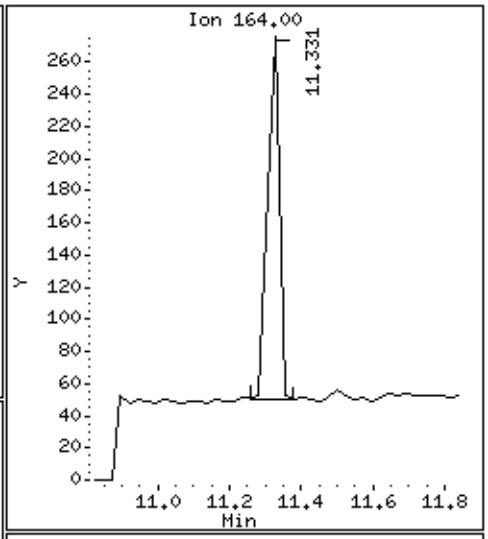
Column phase: DB-5.625

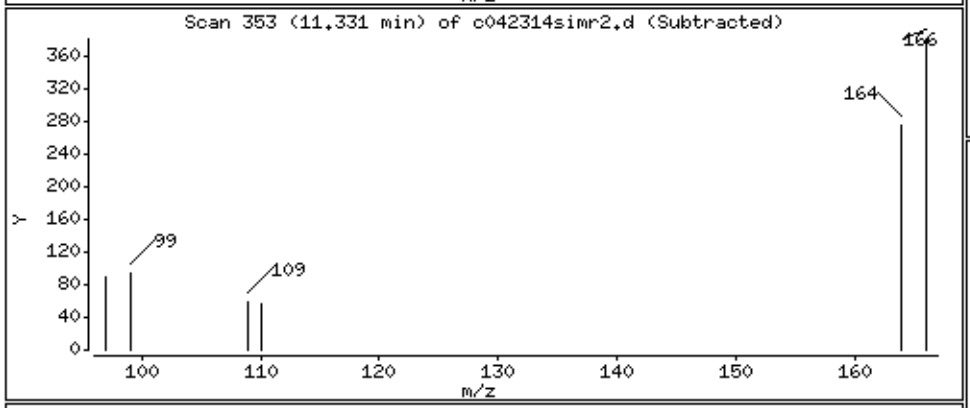
Column diameter: 0.25

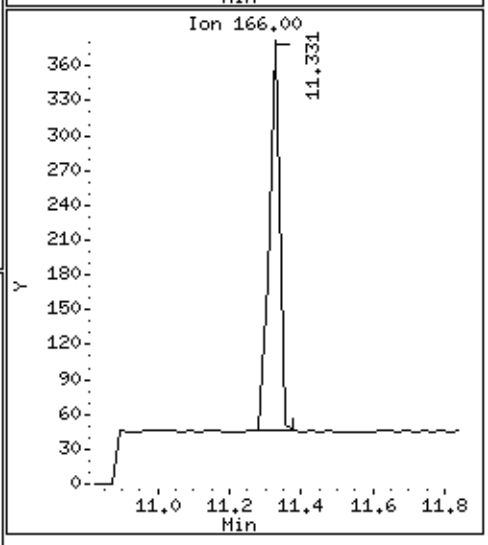
29 Tetrachloroethene

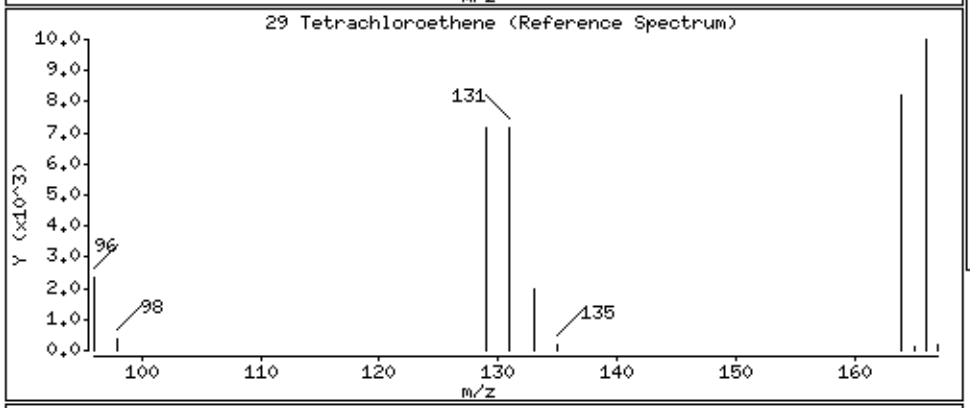
Concentration: 0.0672776 ug

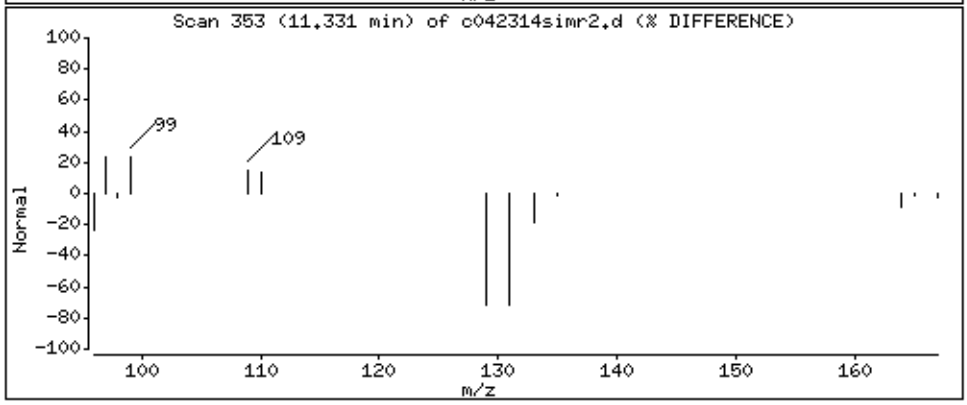












Data File: /chem/msdc.i/23Apr2015.b/c042314simr2.d

Date : 23-APR-2015 14:38

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-06A;

Volume Injected (uL): 1.0

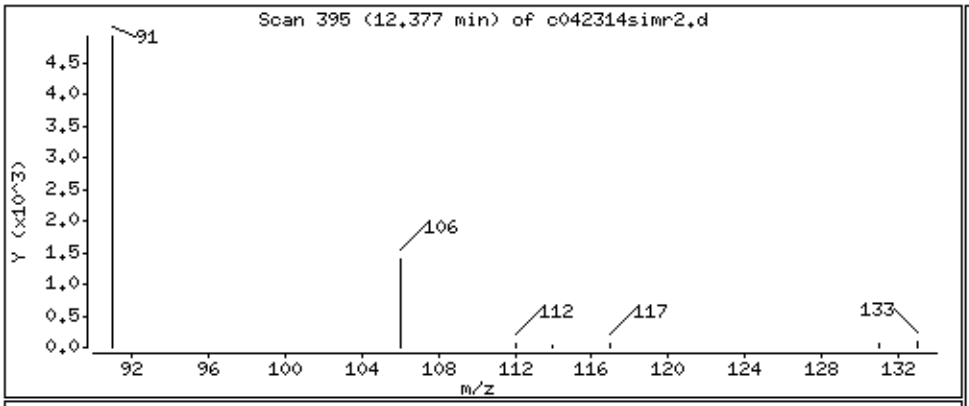
Operator: gm

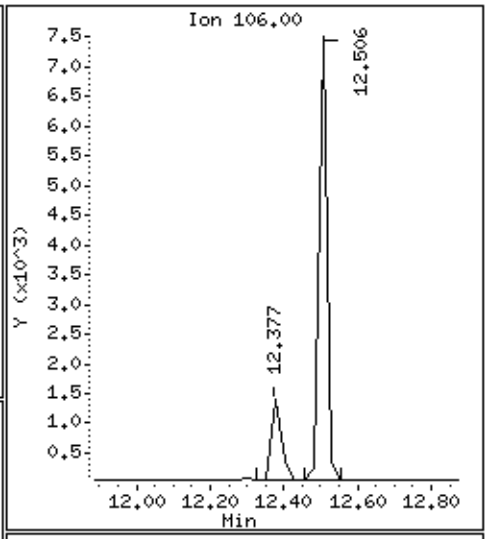
Column phase: DB-5.625

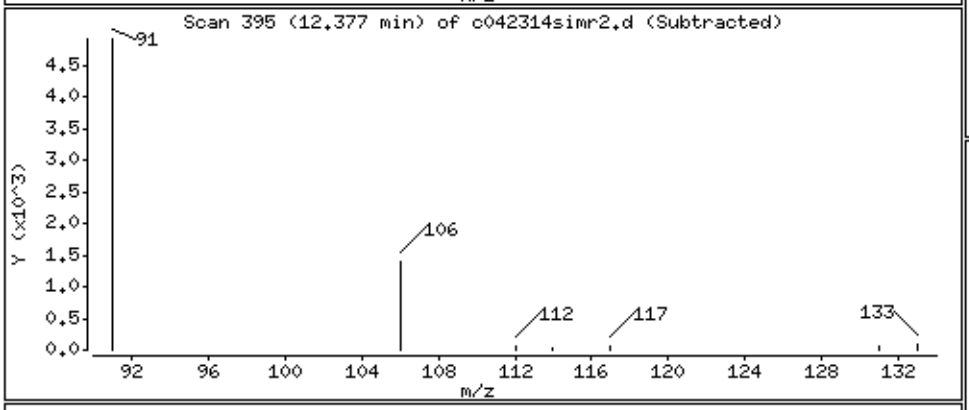
Column diameter: 0.25

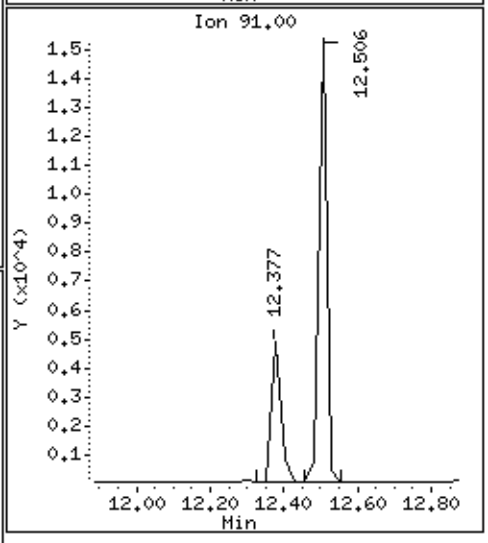
31 Ethylbenzene-CCC

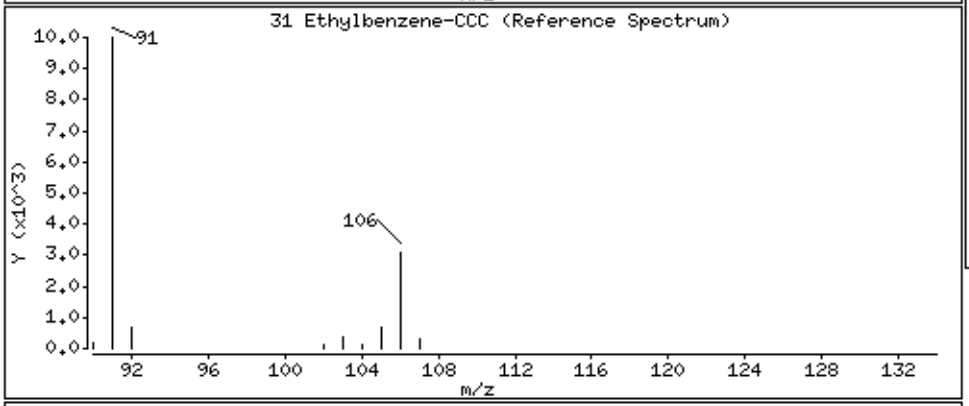
Concentration: 0.238827 ug

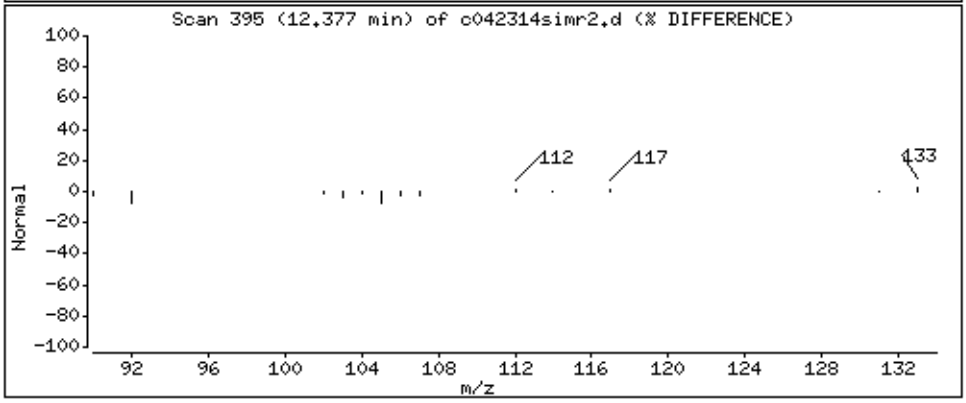












Data File: /chem/msdc.i/23Apr2015.b/c042314simr2.d

Date : 23-APR-2015 14:38

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-06A;

Volume Injected (uL): 1.0

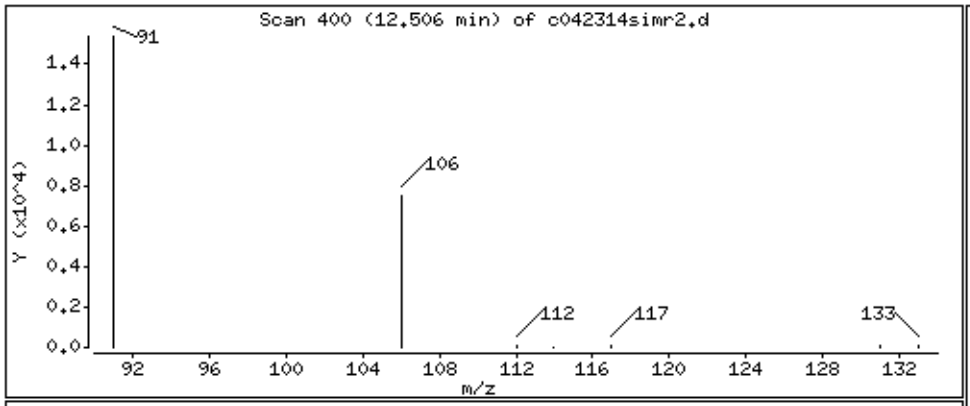
Operator: gm

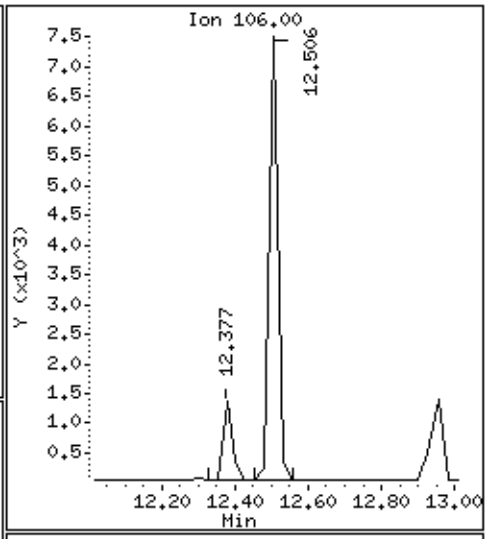
Column phase: DB-5.625

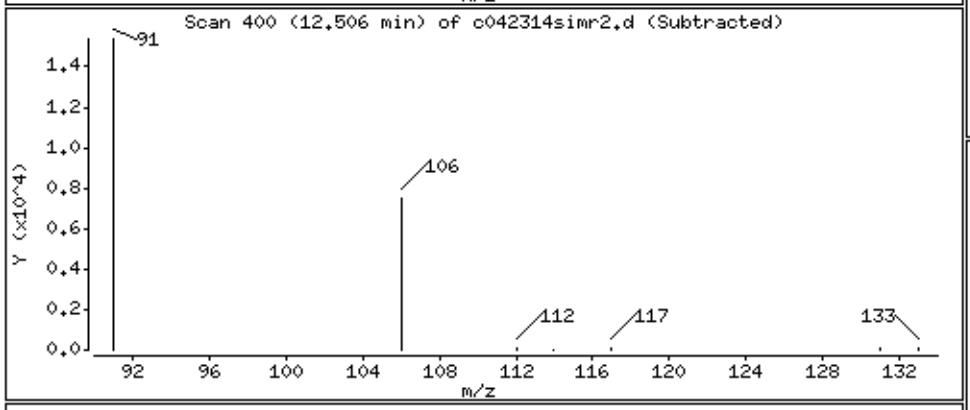
Column diameter: 0.25

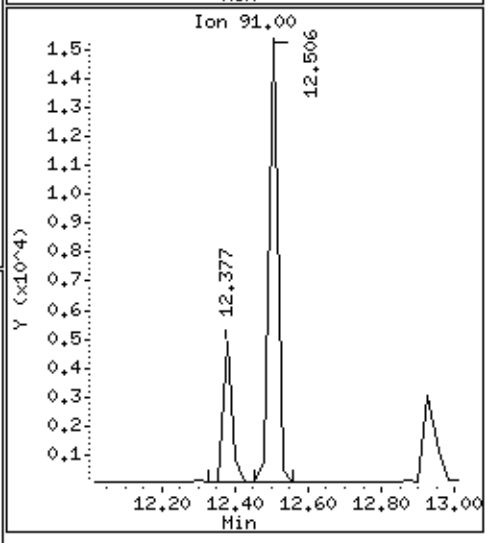
33 m,p-Xylene

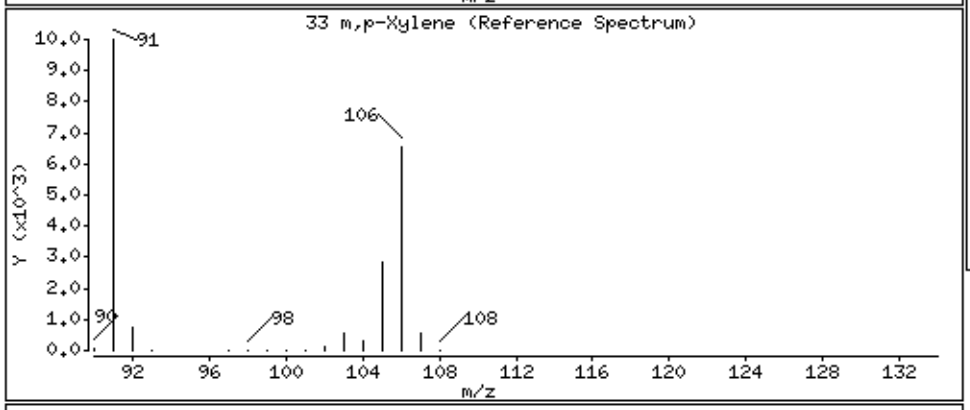
Concentration: 0.809824 ug

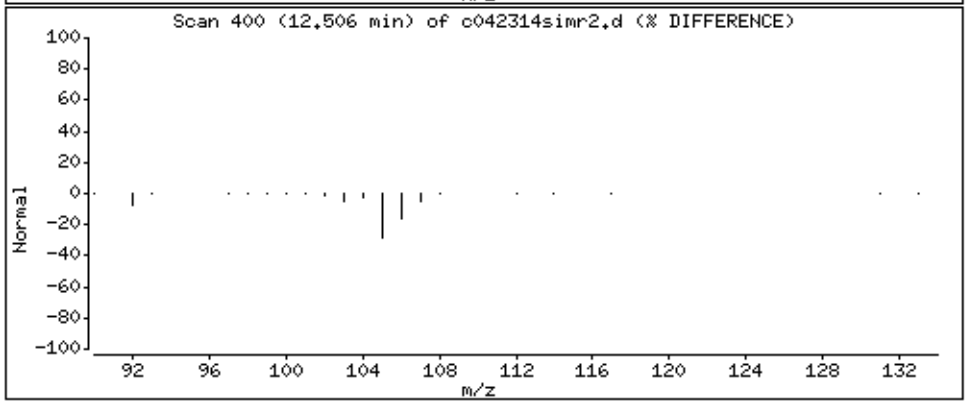












Data File: /chem/msdc.i/23Apr2015.b/c042314simr2.d

Date : 23-APR-2015 14:38

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-06A;

Volume Injected (uL): 1.0

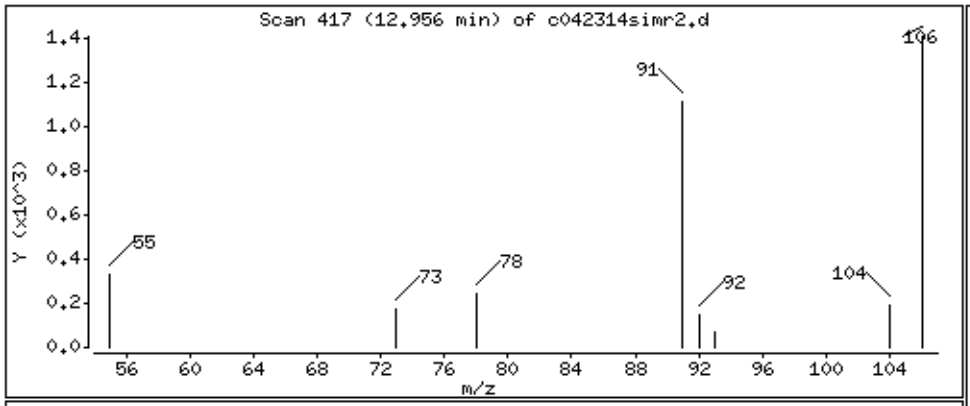
Operator: gm

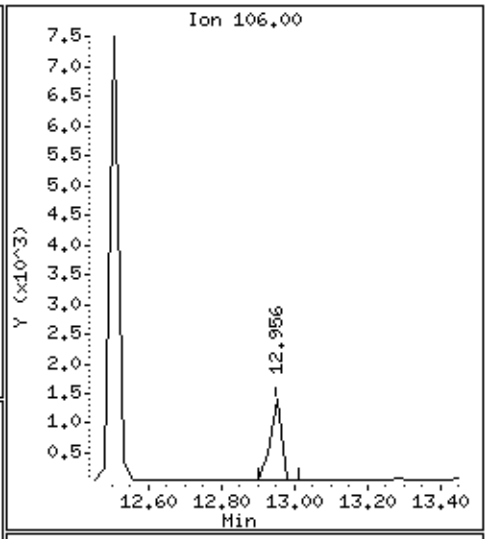
Column phase: DB-5.625

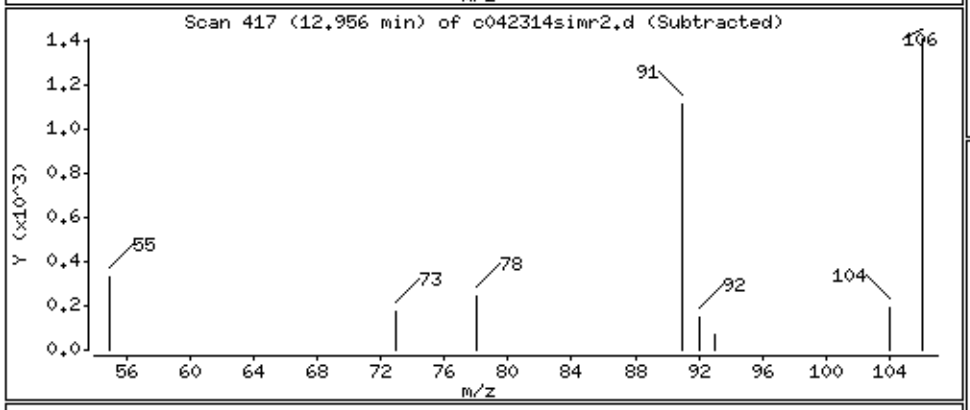
Column diameter: 0.25

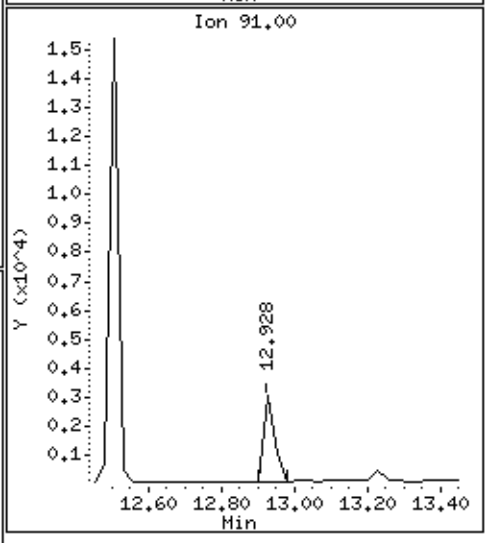
34 o-Xylene

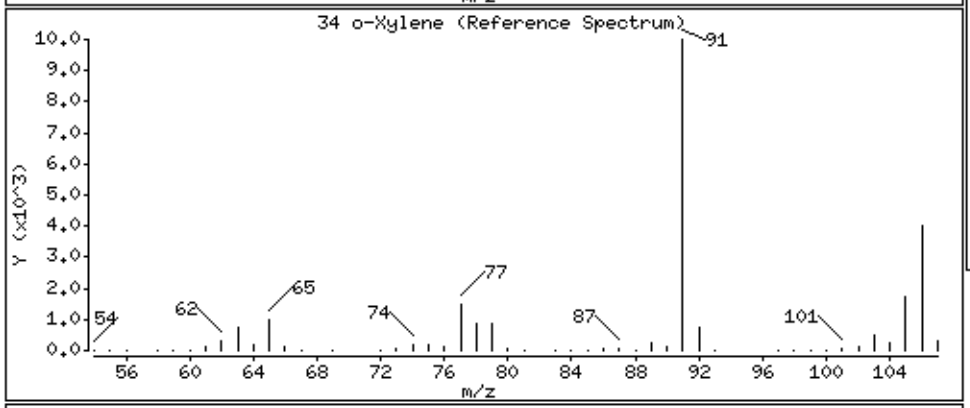
Concentration: 0.249098 ug

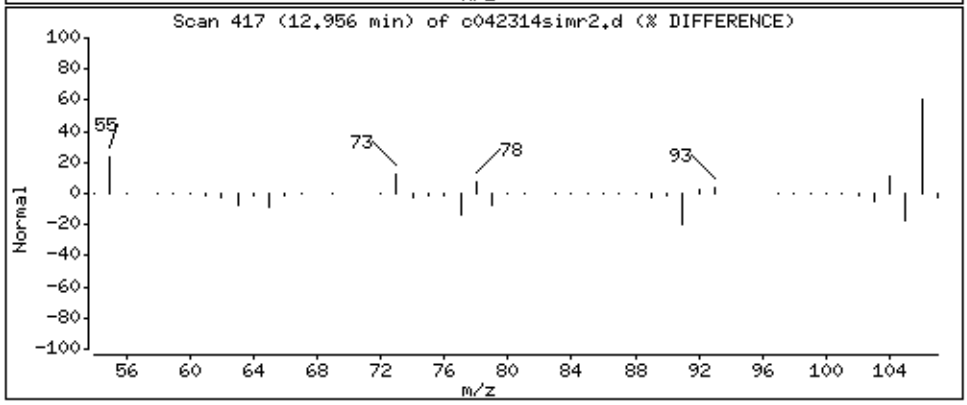












Data File: /chem/msdc.i/23Apr2015.b/c042314simr2.d

Date : 23-APR-2015 14:38

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-06A;

Volume Injected (uL): 1.0

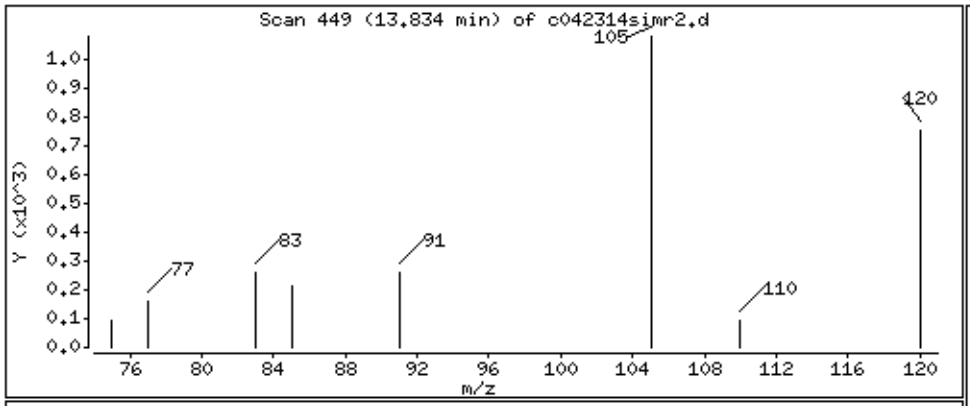
Operator: gm

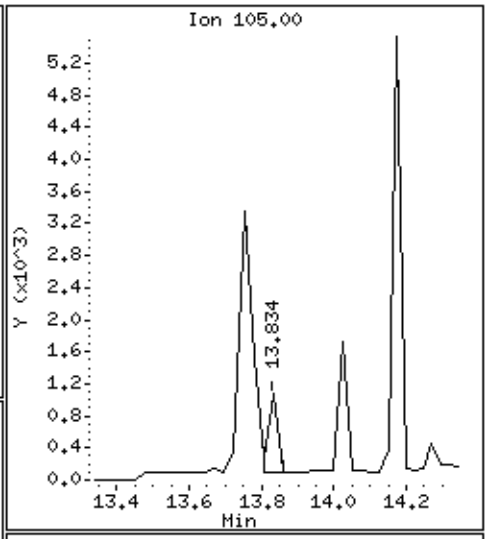
Column phase: DB-5.625

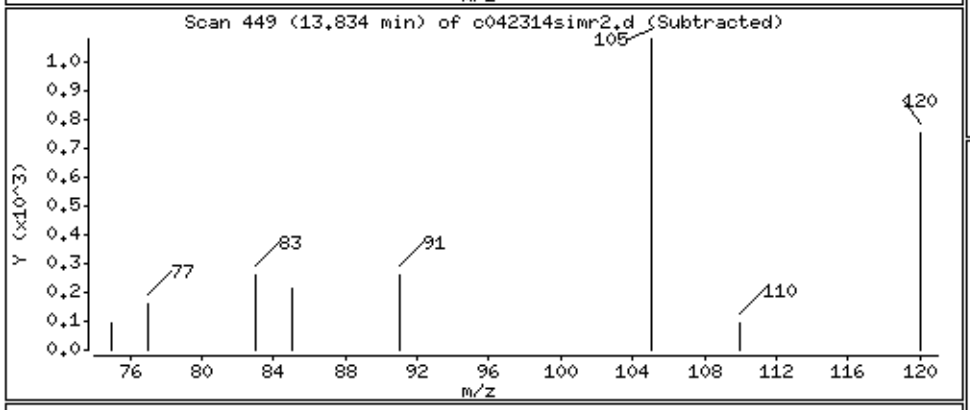
Column diameter: 0.25

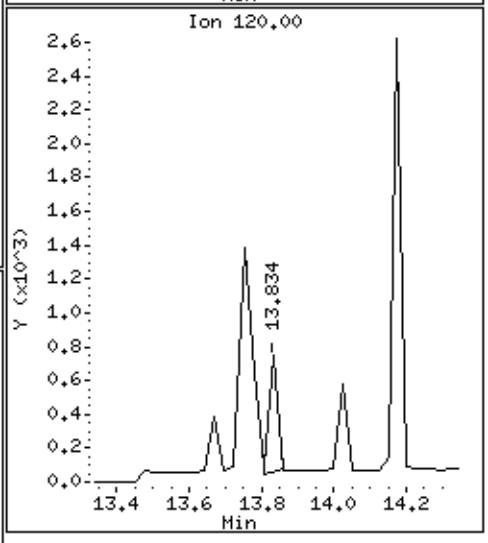
40 1,3,5-Trimethylbenzene

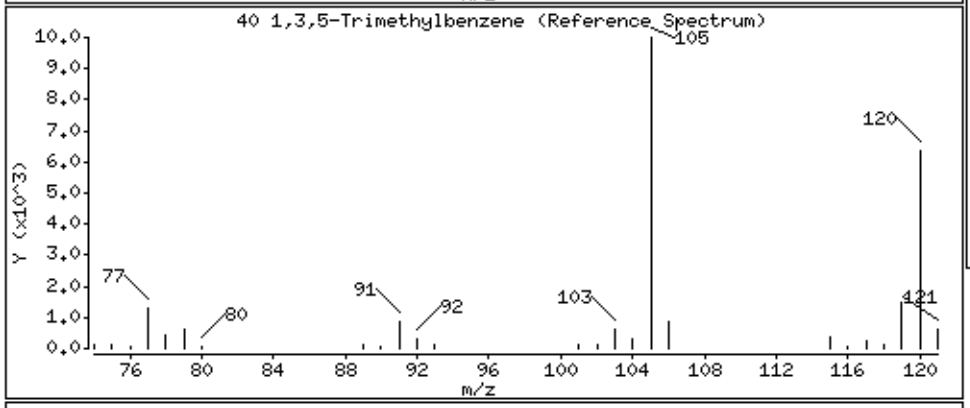
Concentration: 0.0697262 ug

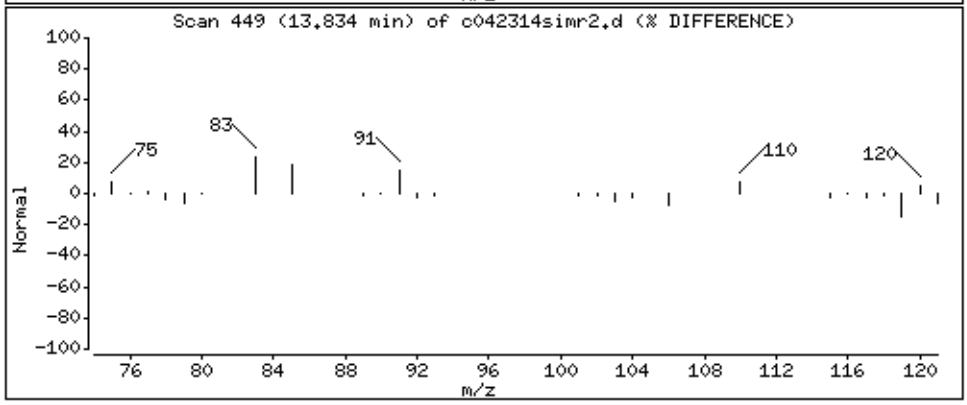












Data File: /chem/msdc.i/23Apr2015.b/c042314simr2.d

Date : 23-APR-2015 14:38

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-06A;

Volume Injected (uL): 1.0

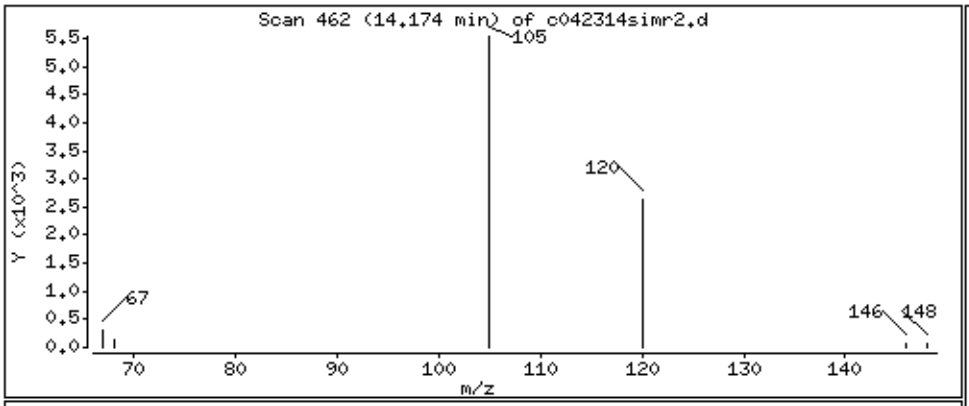
Operator: gm

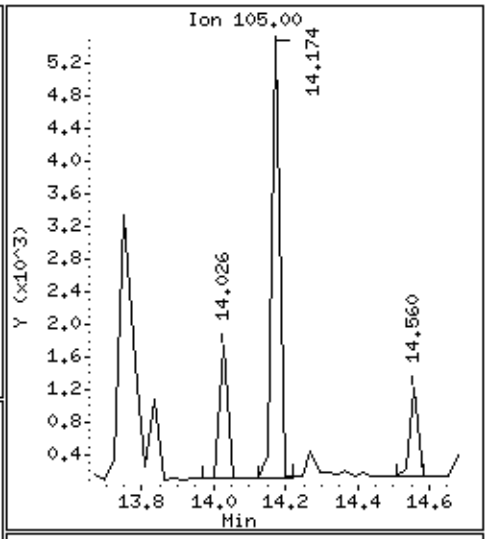
Column phase: DB-5.625

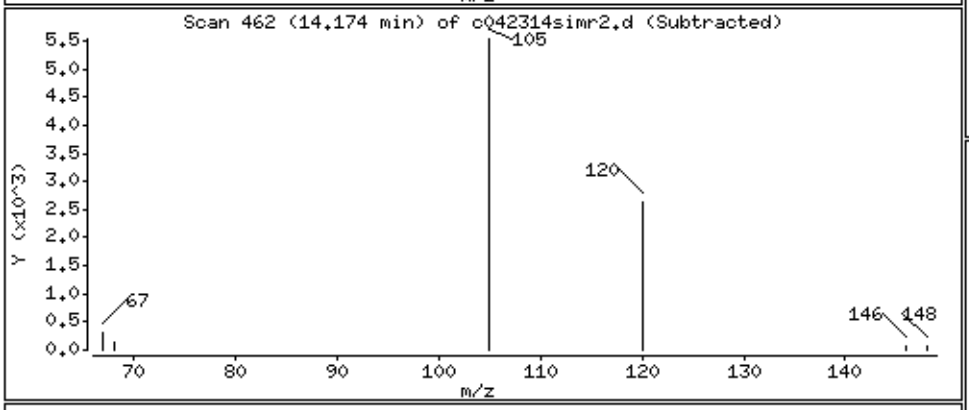
Column diameter: 0.25

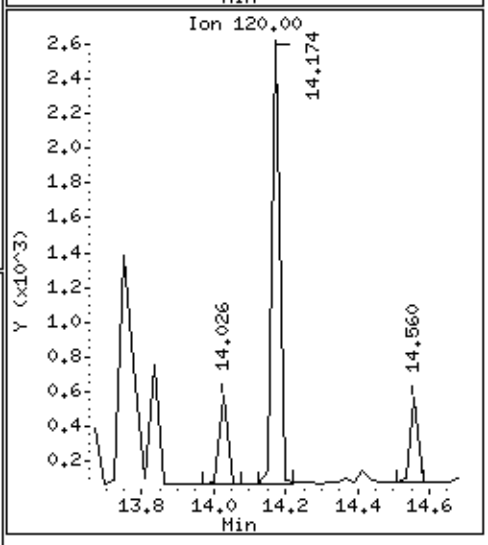
41 1,2,4-Trimethylbenzene

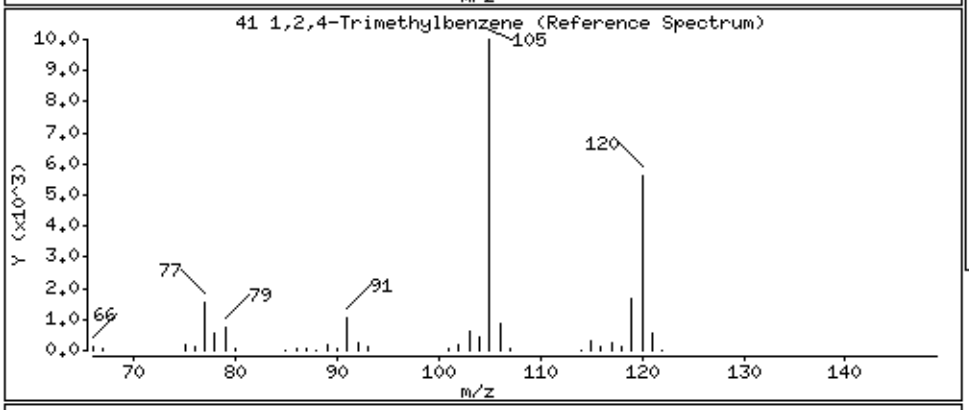
Concentration: 0.243368 ug

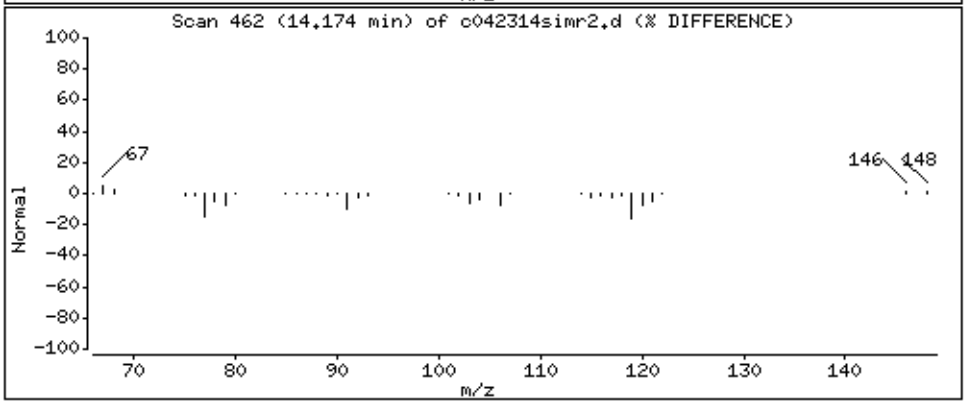












eurofins | Air Toxics

Summary of Detected Compounds
VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: 5234-IA01-0415

Lab ID#: 1504309R2-07A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Benzene	0.40	0.48	0.62	0.75
1,2-Dichloroethane	0.10	0.12	0.062 J	0.077 J
Trichloroethene	0.10	0.14	0.036 J	0.050 J
Toluene	0.10	0.13	1.6	2.0
Tetrachloroethene	0.10	0.16	0.058 J	0.094 J
Ethyl Benzene	0.10	0.14	0.22	0.30
m,p-Xylene	0.10	0.14	0.74	1.0
o-Xylene	0.10	0.15	0.24	0.36
1,2,4-Trimethylbenzene	0.10	0.19	0.21	0.41
1,3,5-Trimethylbenzene	0.10	0.18	0.057 CJ	0.10 CJ

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Client Sample ID: 5234-IA01-0415

Lab ID#: 1504309R2-07A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**c042315simr1**	**Date of Collection: 4/17/15 10:10:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/15 03:02 PM**	
		Date of Extraction: 4/23/15	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
1,1,1-Trichloroethane	0.10	0.15	Not Detected	Not Detected
Benzene	0.40	0.48	0.62	0.75
1,2-Dichloroethane	0.10	0.12	0.062 J	0.077 J
Trichloroethene	0.10	0.14	0.036 J	0.050 J
Toluene	0.10	0.13	1.6	2.0
Tetrachloroethene	0.10	0.16	0.058 J	0.094 J
Ethyl Benzene	0.10	0.14	0.22	0.30
m,p-Xylene	0.10	0.14	0.74	1.0
o-Xylene	0.10	0.15	0.24	0.36
Naphthalene	0.10	0.38	Not Detected	Not Detected
1,1-Dichloroethane	0.10	0.15	Not Detected C	Not Detected C
1,1-Dichloroethene	0.40	0.50	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.15	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.32	Not Detected C	Not Detected C
1,1,2-Trichloroethane	0.10	0.14	Not Detected C	Not Detected C
1,2,4-Trimethylbenzene	0.10	0.19	0.21	0.41
1,3,5-Trimethylbenzene	0.10	0.18	0.057 CJ	0.10 CJ
Vinyl Chloride	0.40	0.43	Not Detected C	Not Detected C

J = Estimated value.
C = Estimated concentration due to calculated sampling rate.

Temperature = 89.8F , duration time = 10065 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	112	70-130

Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msdc.i/23Apr2015.b/c042315simr1.d
Lab Smp Id: 1504309R1-07A
Inj Date : 23-APR-2015 15:02
Operator : gm Inst ID: msdc.i
Smp Info : ;1504309R1-07A;
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Meth Date : 10-May-2015 12:15 gmash Quant Type: ISTD
Cal Date : 15-APR-2015 11:23 Cal File: c041509sim.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Gilbane.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
2	Vinyl Chloride	62	Compound Not Detected.					
4	1,1-Dichloroethene-CCC	96	Compound Not Detected.					
8	trans-1,2-Dichloroethene	96	Compound Not Detected.					
11	1,1-Dichloroethane-SPCC	63	Compound Not Detected.					
14	cis-1,2-Dichloroethene	96	Compound Not Detected.					
17	1,1,1-Trichloroethane	97	Compound Not Detected.					
19	Benzene	78	8.603	8.603	(0.783)	15410	0.31286	0.625720
20	1,2-Dichloroethane	62	8.696	8.696	(0.791)	700	0.03093	0.0618564(a)
22	Trichloroethene	130	9.331	9.331	(0.849)	292	0.01796	0.0359161(a)
$ 25	Toluene-d8	98	10.656	10.656	(0.969)	261068	5.59236	11.1847
26	Toluene-CCC	92	10.729	10.728	(0.976)	31506	0.78132	1.56263
* 27	2-Fluorotoluene	109	10.994	10.993	(1.000)	283612	5.00000	
28	1,1,2-Trichloroethane	97	Compound Not Detected.					
29	Tetrachloroethene	164	11.331	11.331	(1.031)	538	0.02900	0.0580023(a)
31	Ethylbenzene-CCC	106	12.377	12.377	(1.126)	2797	0.10787	0.215741
33	m,p-Xylene	106	12.506	12.506	(1.138)	13396	0.36920	0.738407

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
34 o-Xylene	106	12.956	12.956	(1.178)	3513	0.12183	0.243656
40 1,3,5-Trimethylbenzene	105	13.834	13.834	(1.258)	1864	0.02865	0.0572995(aM)
41 1,2,4-Trimethylbenzene	105	14.175	14.174	(1.289)	8702	0.10600	0.212006
48 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Report Date: 10-May-2015 12:27

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042315simr1.d
Lab Smp Id: 1504309R1-07A
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

Calibration Date: 23-APR-2015
Calibration Time: 09:09
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	324554	162277	649108	283612	-12.61

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	10.99	10.49	11.49	10.99	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 10-May-2015 12:27

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 23Apr2015
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 1504309R1-07A
Level: MED Operator: gm
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS-CM.spk Quant Type: ISTD
Sublist File: Gilbane.sub
Method File: /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 25 Toluene-d8	10.0000	11.1847	111.85	70-130

Data File: /chem/msdc.i/23Apr2015.b/c042315simr1.d

Date : 23-APR-2015 15:02

Client ID:

Instrument: msdc.i

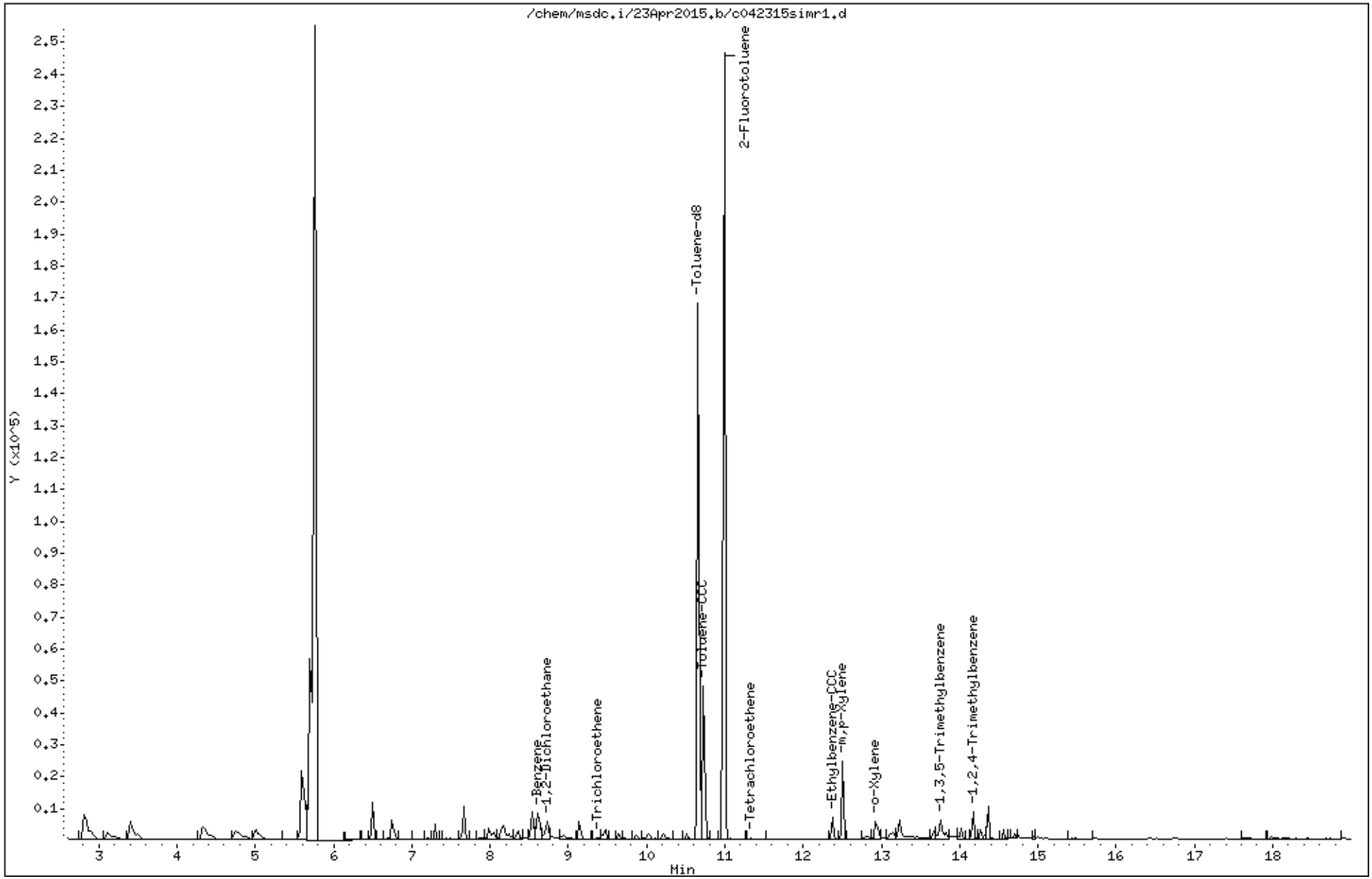
Sample Info: ;1504309R1-07A;

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdc.i/23Apr2015.b/c042315simr1.d

Date : 23-APR-2015 15:02

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-07A;

Volume Injected (uL): 1.0

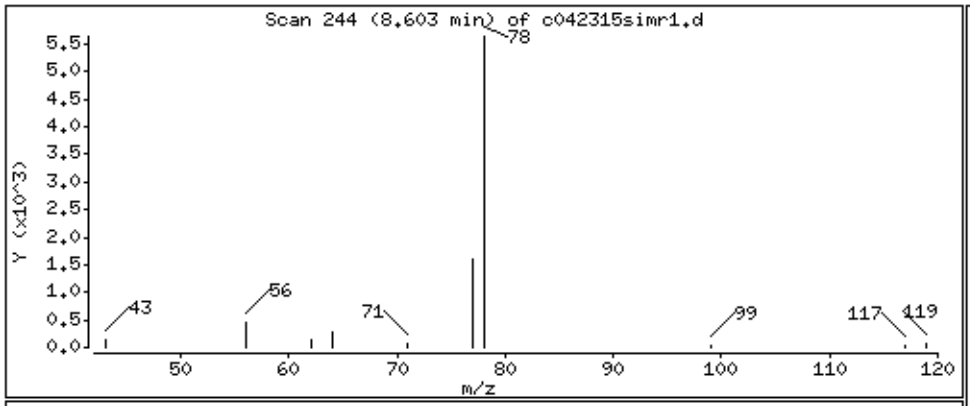
Operator: gm

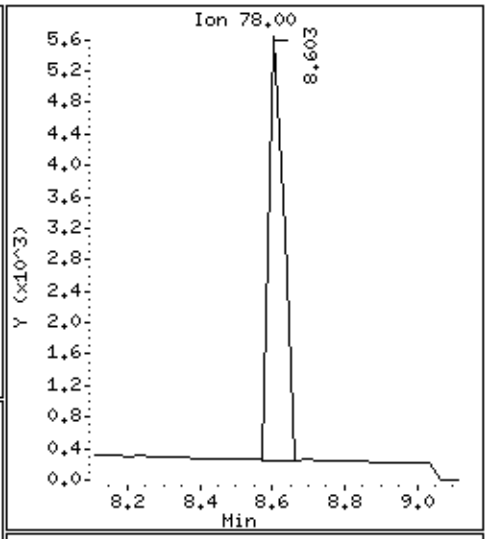
Column phase: DB-5.625

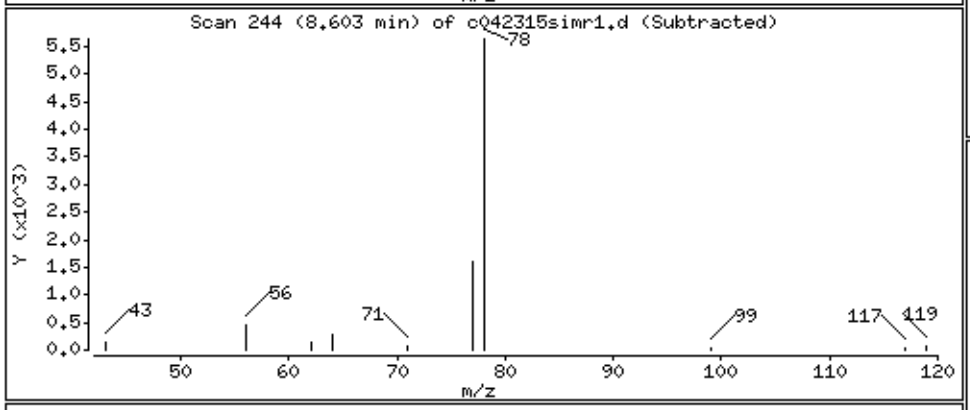
Column diameter: 0.25

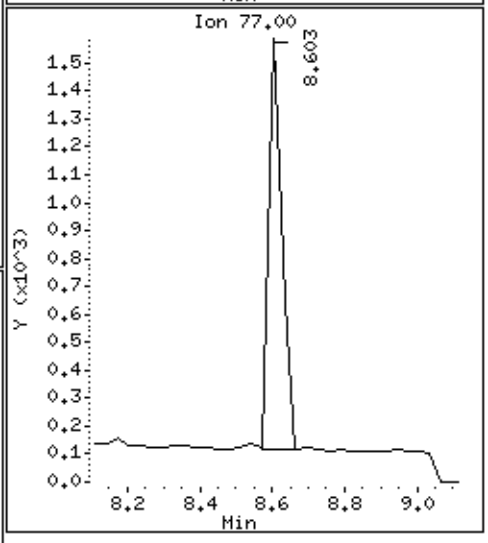
19 Benzene

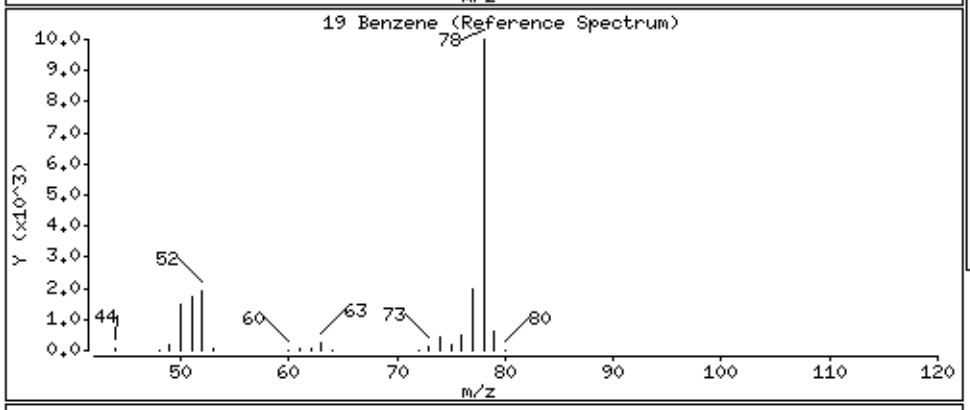
Concentration: 0.625720 ug

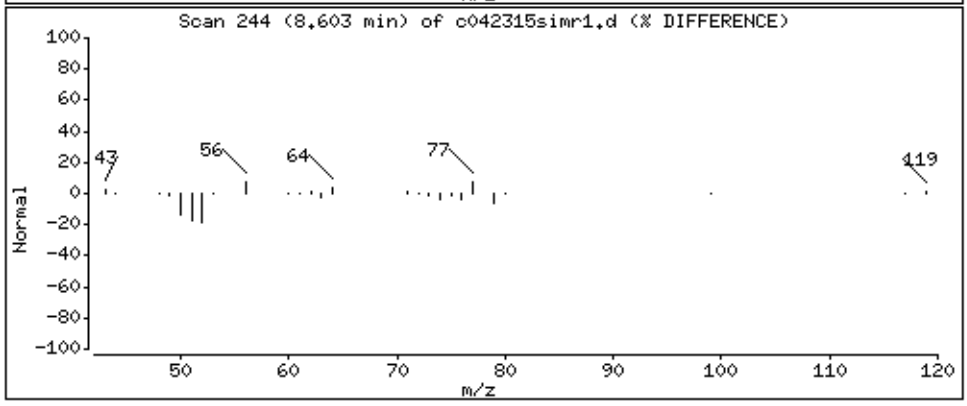












Data File: /chem/msdc.i/23Apr2015.b/c042315simr1.d

Date : 23-APR-2015 15:02

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-07A;

Volume Injected (uL): 1.0

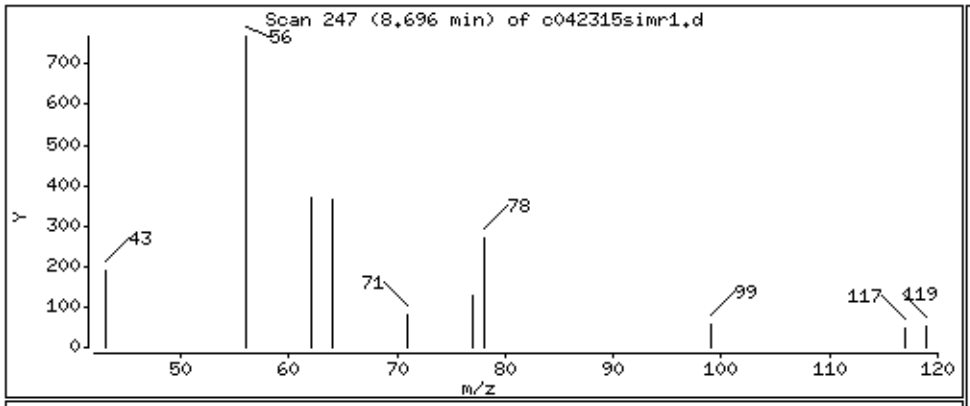
Operator: gm

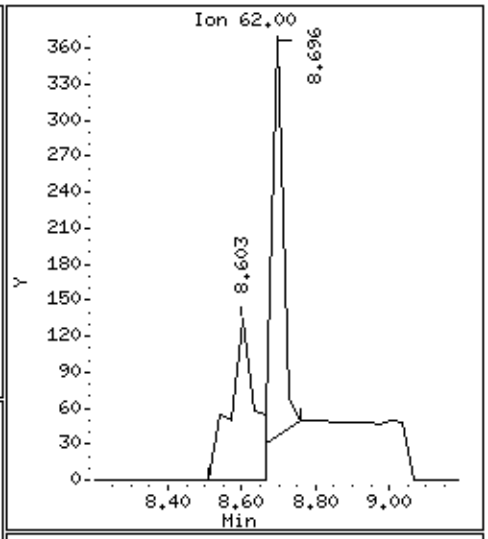
Column phase: DB-5.625

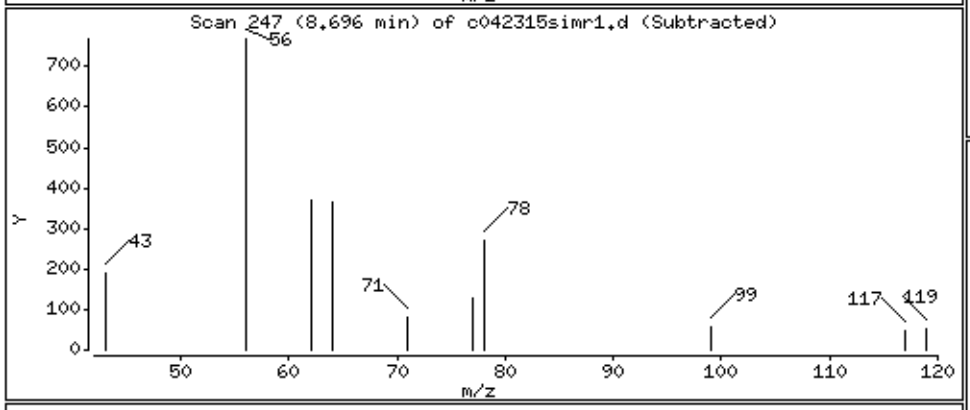
Column diameter: 0.25

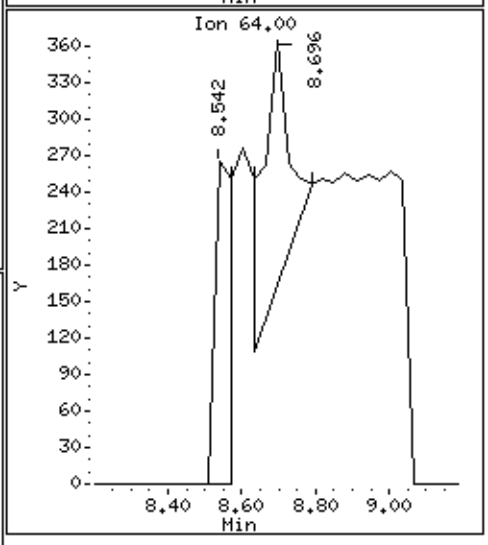
20 1,2-Dichloroethane

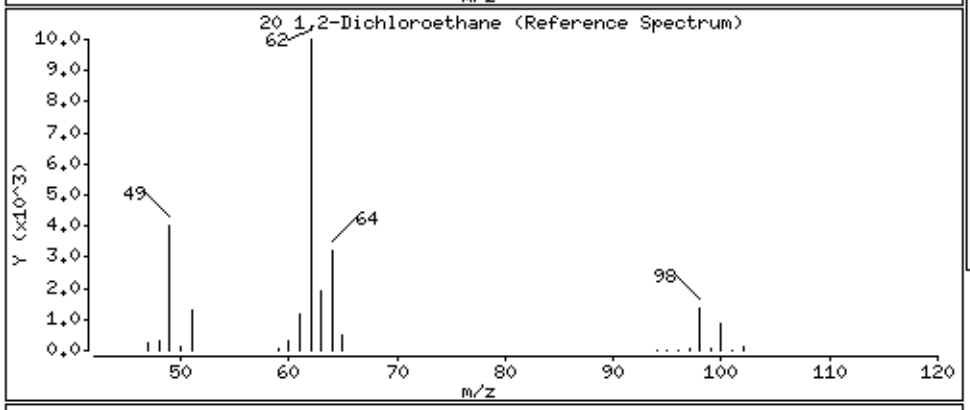
Concentration: 0.0618564 ug

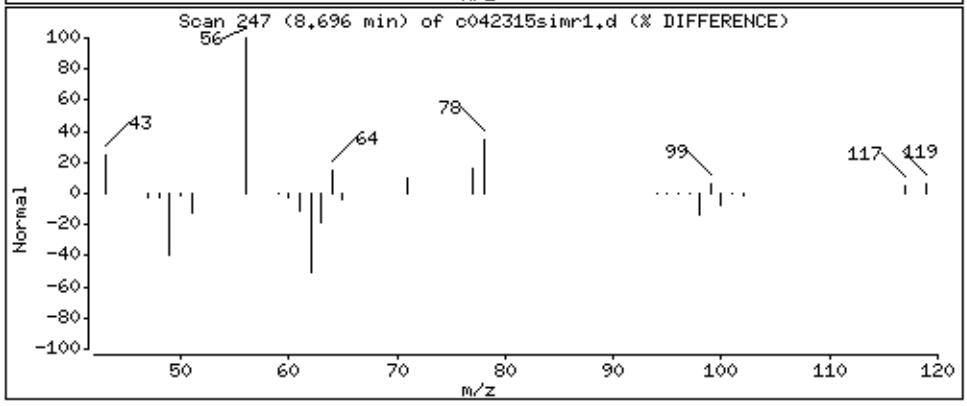












Data File: /chem/msdc.i/23Apr2015.b/c042315simr1.d

Date : 23-APR-2015 15:02

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-07A;

Volume Injected (uL): 1.0

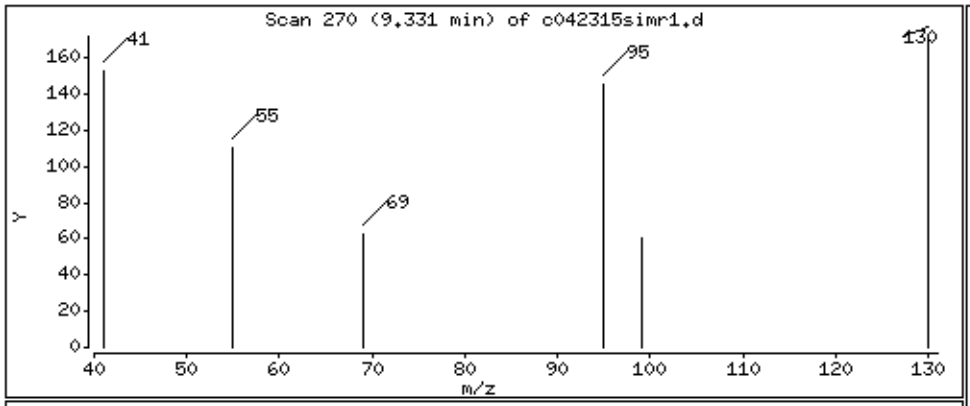
Operator: gm

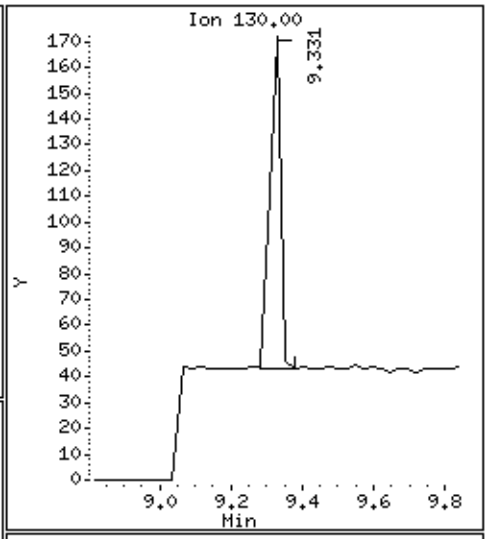
Column phase: DB-5.625

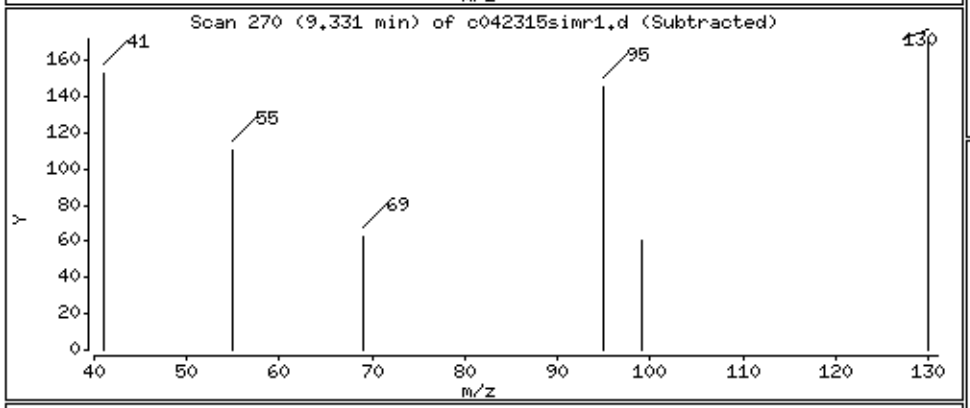
Column diameter: 0.25

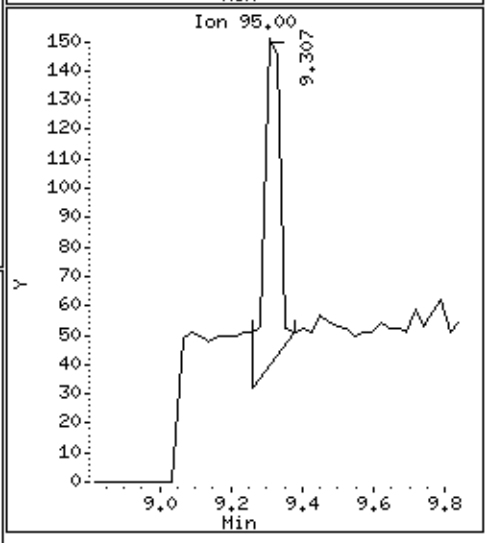
22 Trichloroethene

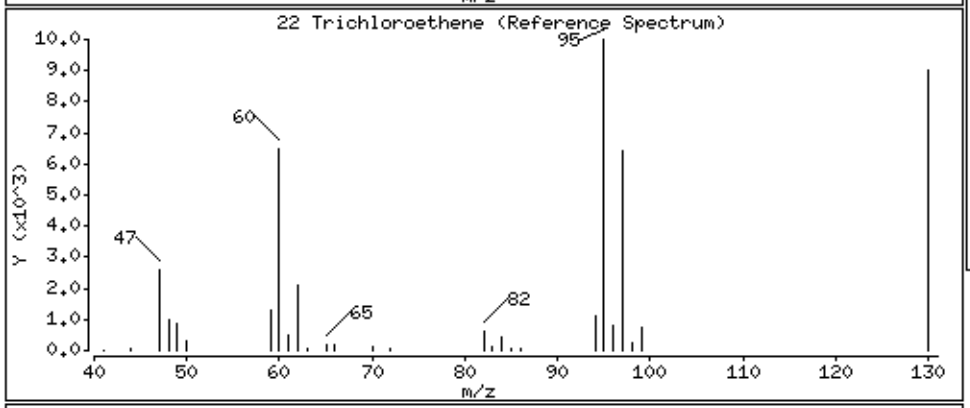
Concentration: 0.0359161 ug

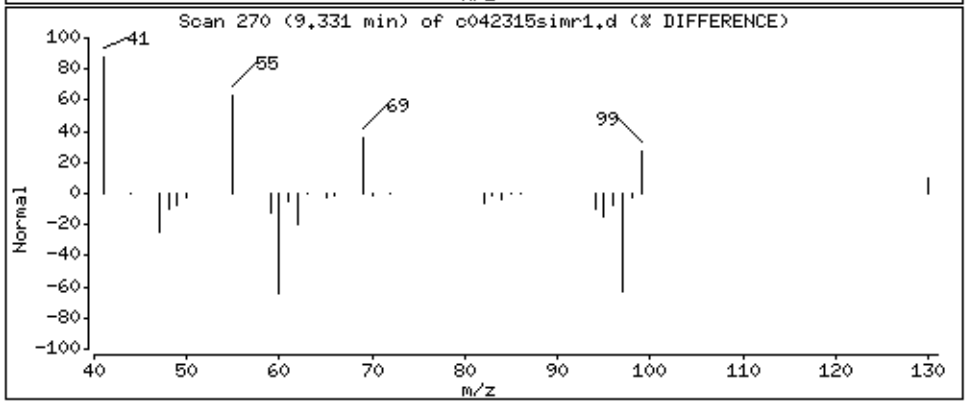












Data File: /chem/msdc.i/23Apr2015.b/c042315simr1.d

Date : 23-APR-2015 15:02

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-07A;

Volume Injected (uL): 1.0

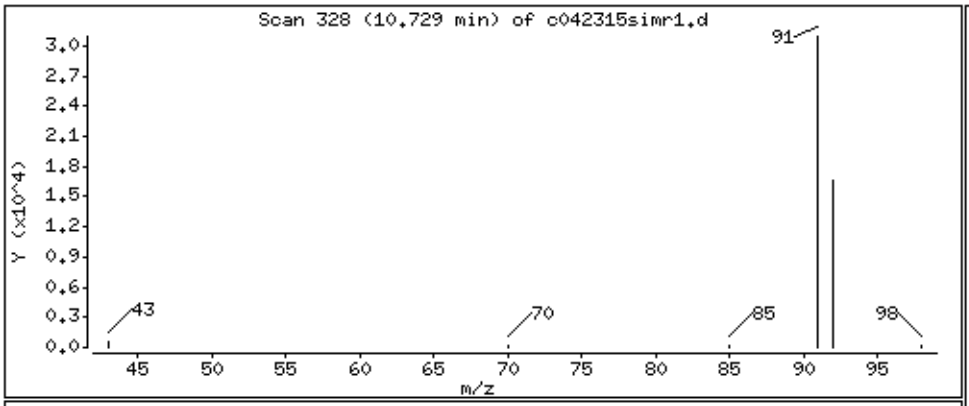
Operator: gm

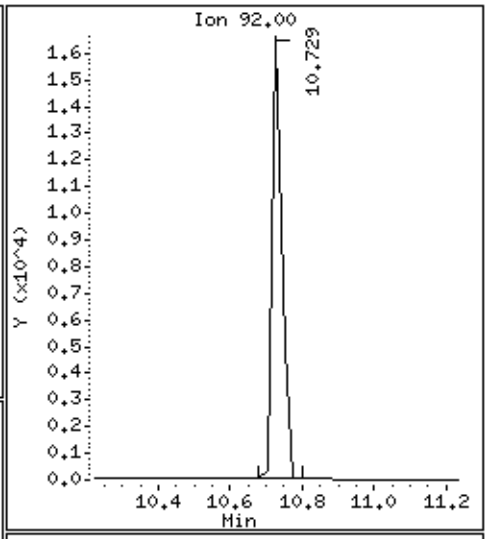
Column phase: DB-5.625

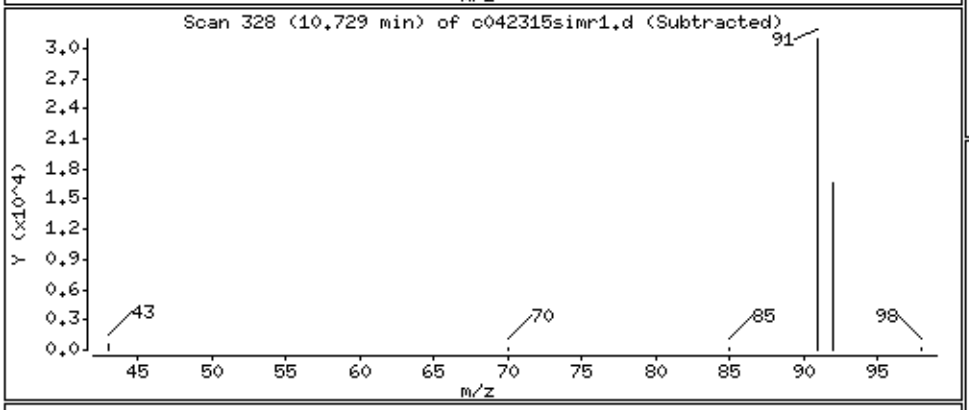
Column diameter: 0.25

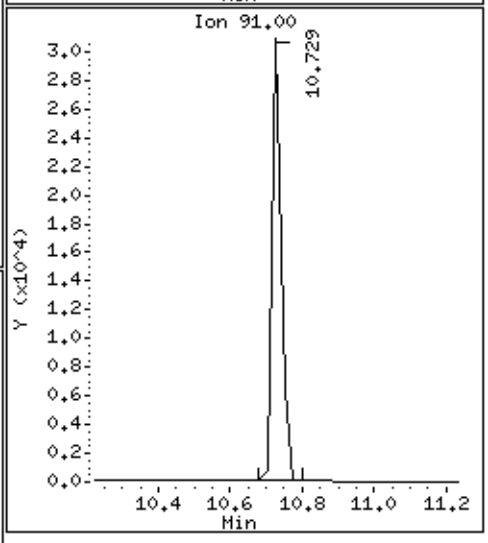
26 Toluene-CCC

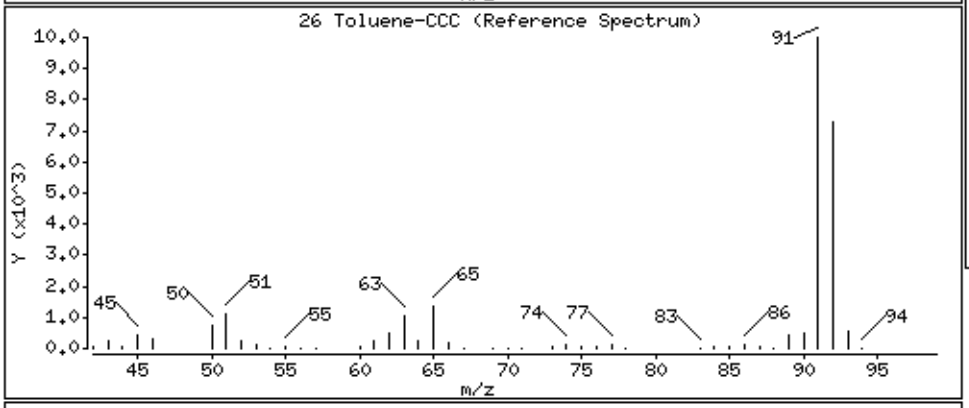
Concentration: 1.56263 ug

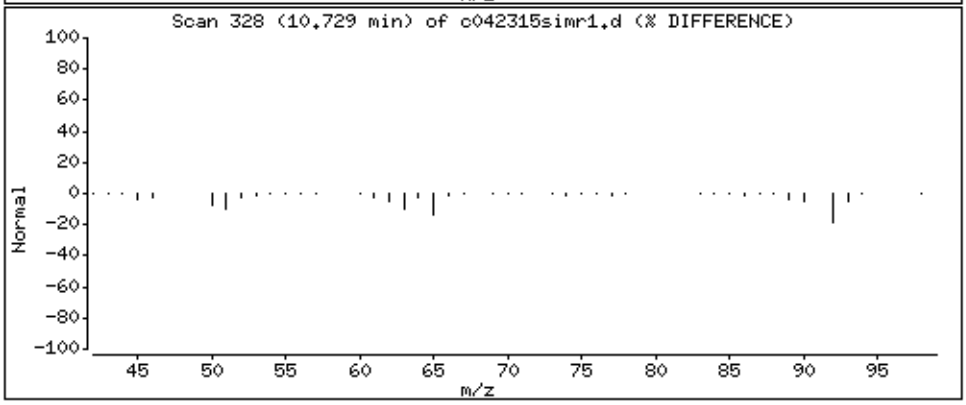












Data File: /chem/msdc.i/23Apr2015.b/c042315simr1.d

Date : 23-APR-2015 15:02

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-07A;

Volume Injected (uL): 1.0

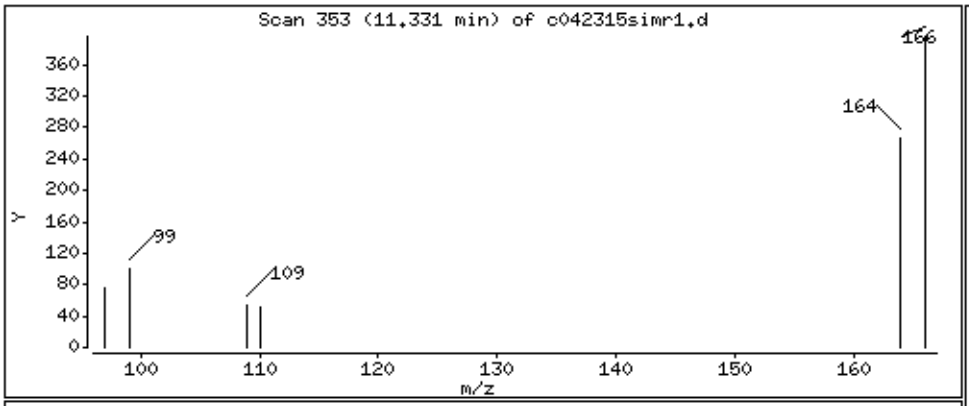
Operator: gm

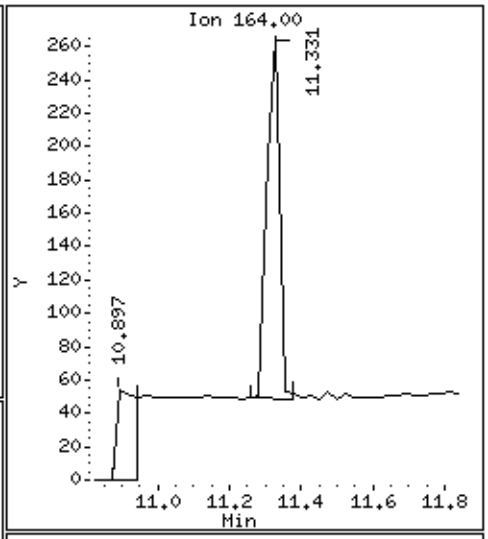
Column phase: DB-5.625

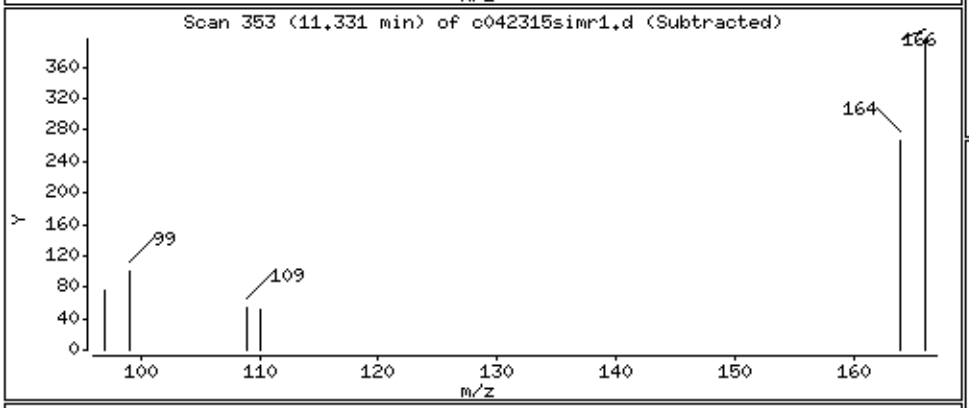
Column diameter: 0.25

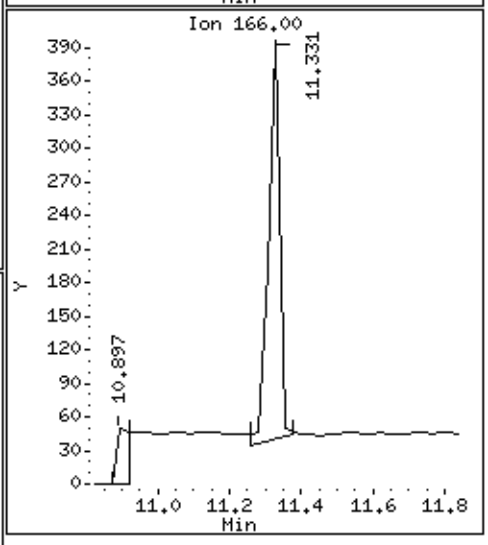
29 Tetrachloroethene

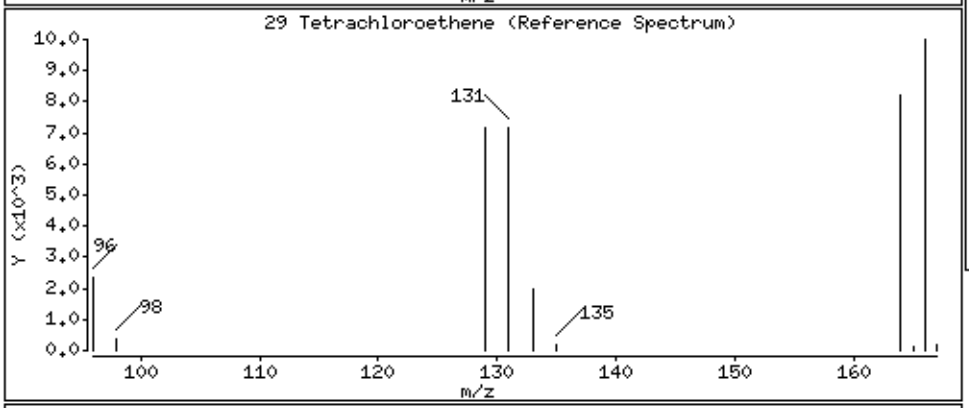
Concentration: 0.0580023 ug

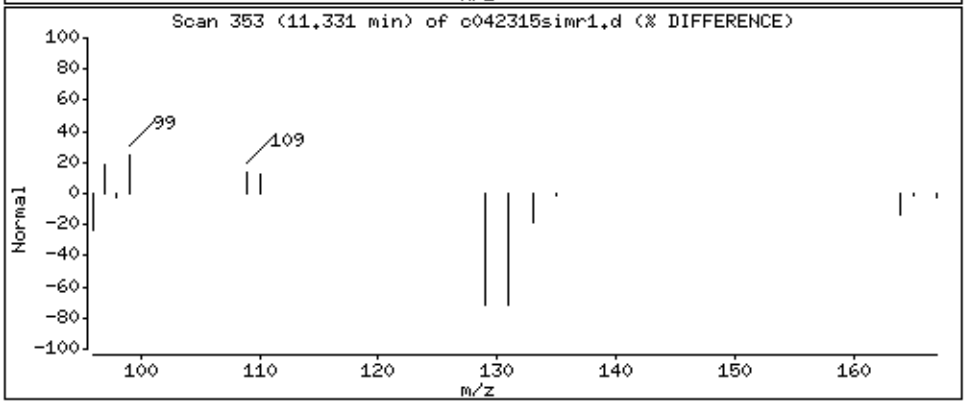












Data File: /chem/msdc.i/23Apr2015.b/c042315simr1.d

Date : 23-APR-2015 15:02

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-07A;

Volume Injected (uL): 1.0

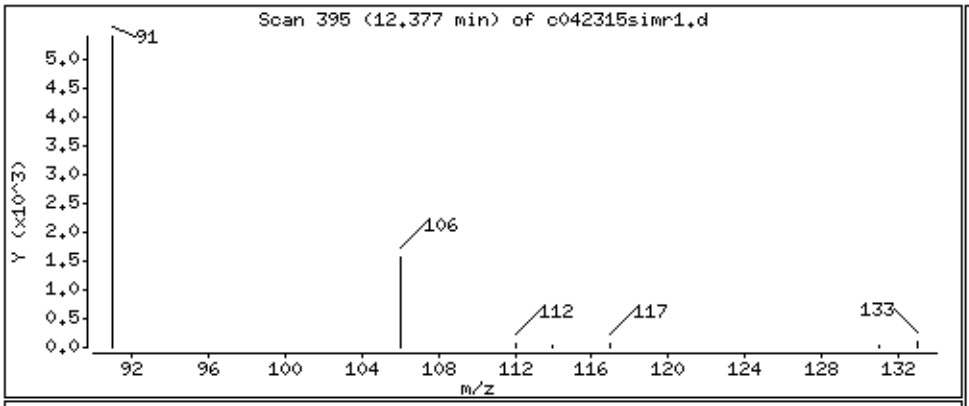
Operator: gm

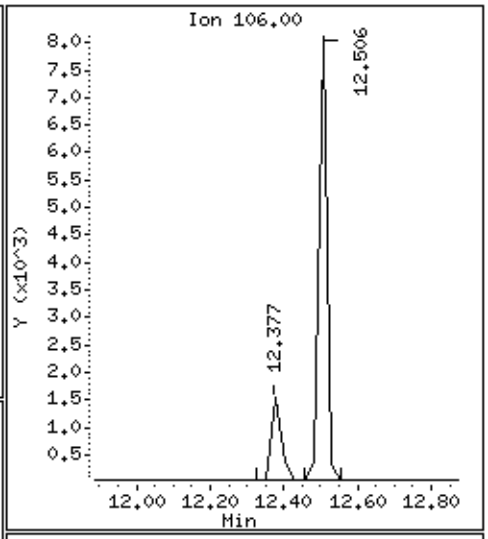
Column phase: DB-5.625

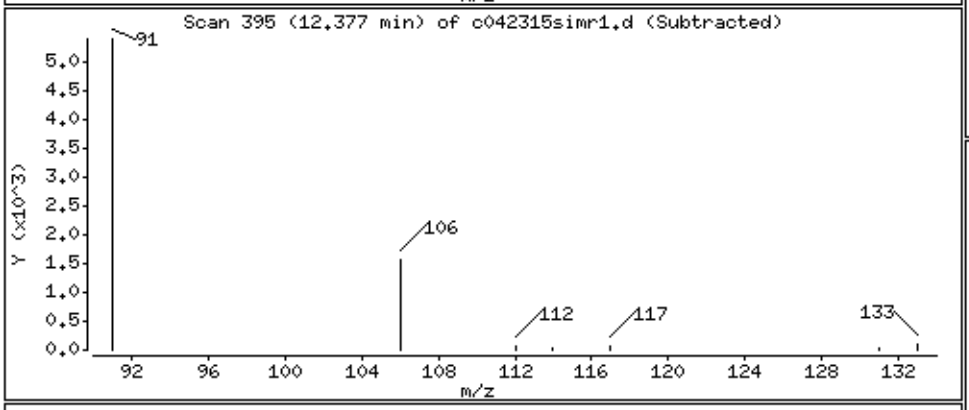
Column diameter: 0.25

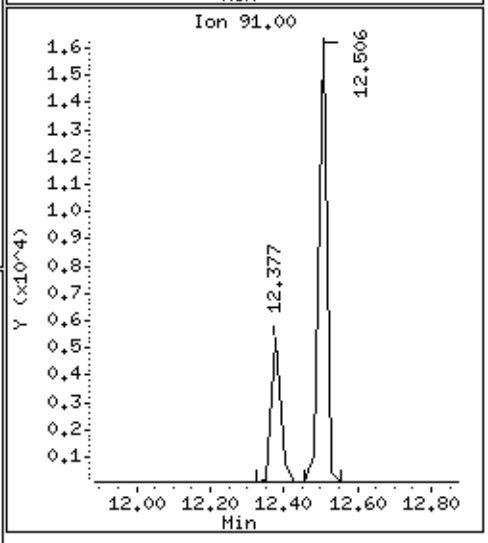
31 Ethylbenzene-CCC

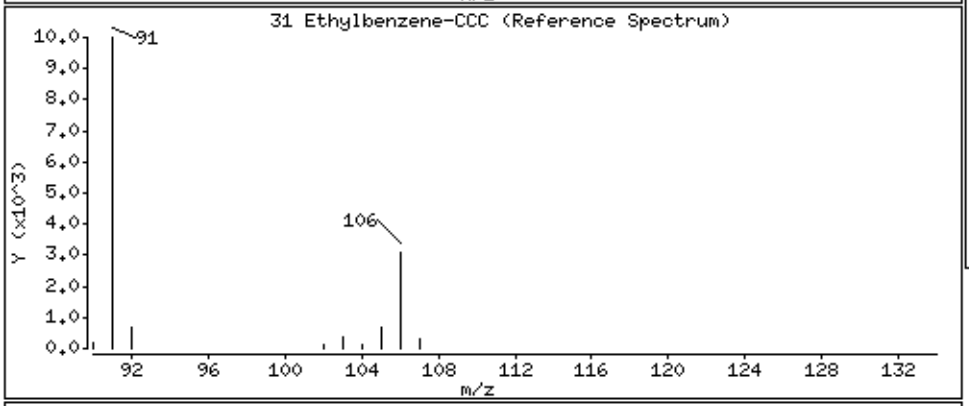
Concentration: 0.215741 ug

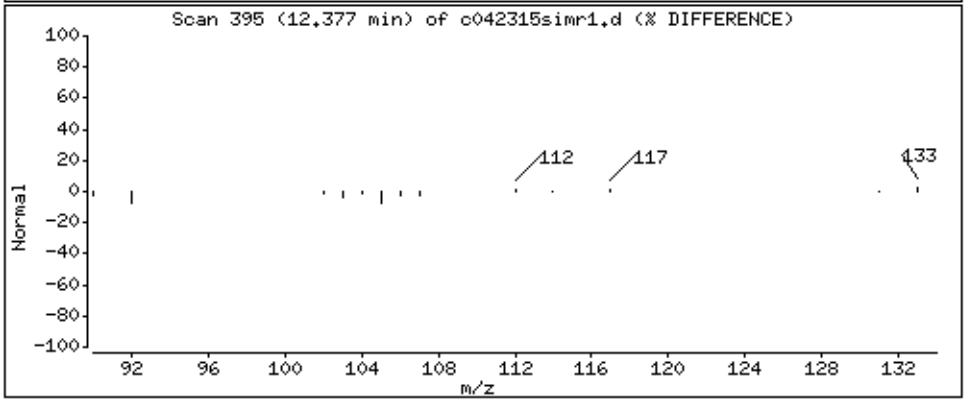












Data File: /chem/msdc.i/23Apr2015.b/c042315simr1.d

Date : 23-APR-2015 15:02

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-07A;

Volume Injected (uL): 1.0

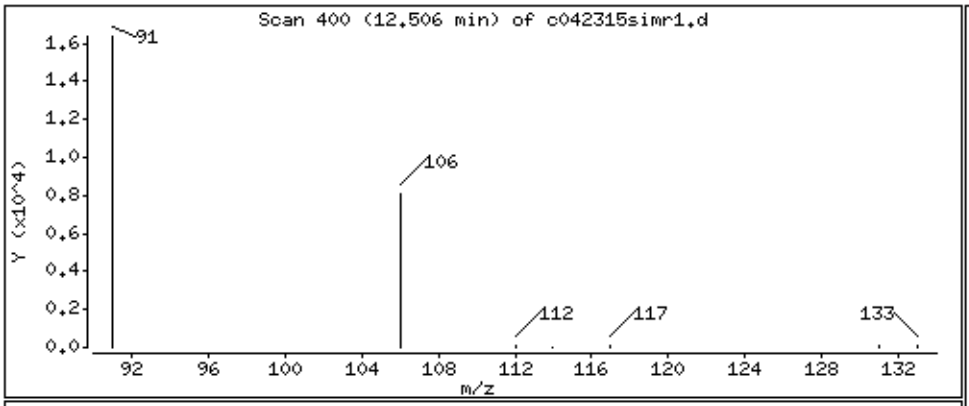
Operator: gm

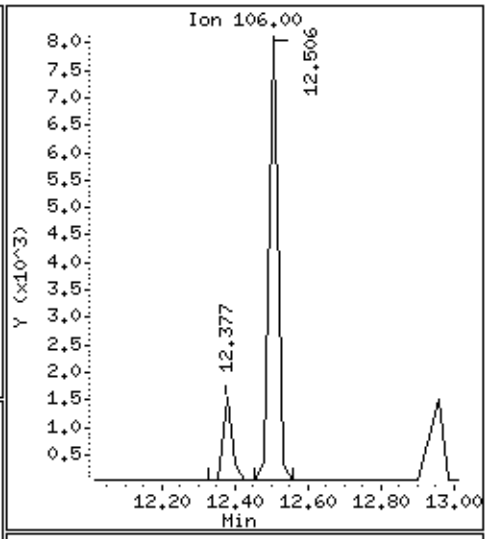
Column phase: DB-5.625

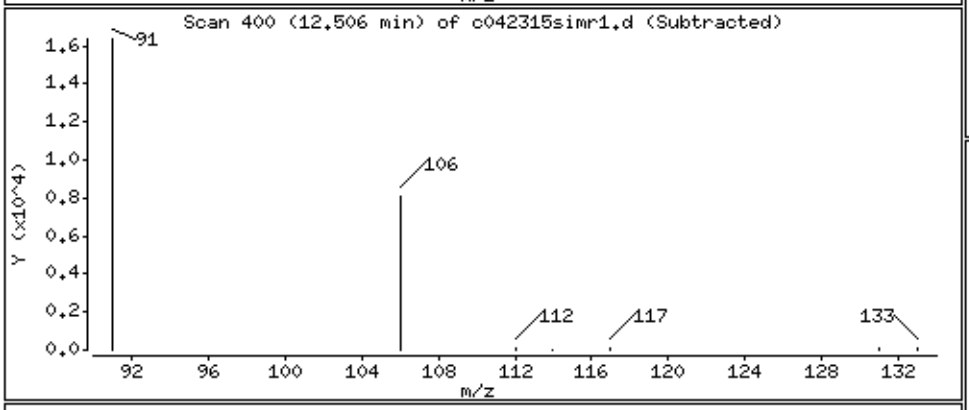
Column diameter: 0.25

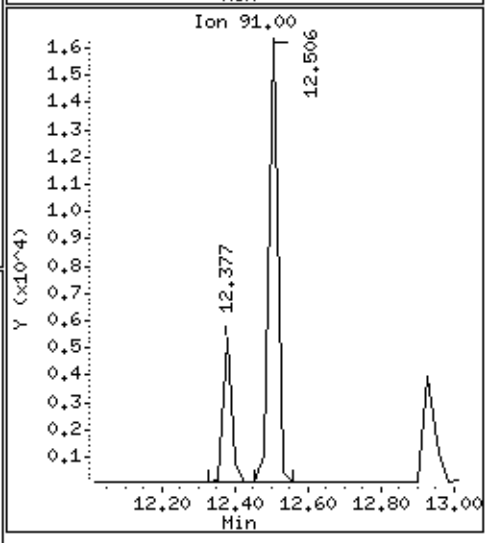
33 m,p-Xylene

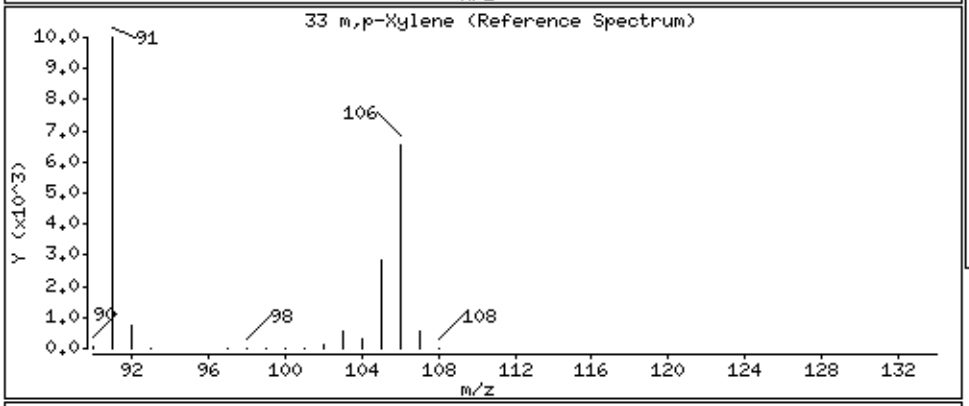
Concentration: 0.738407 ug

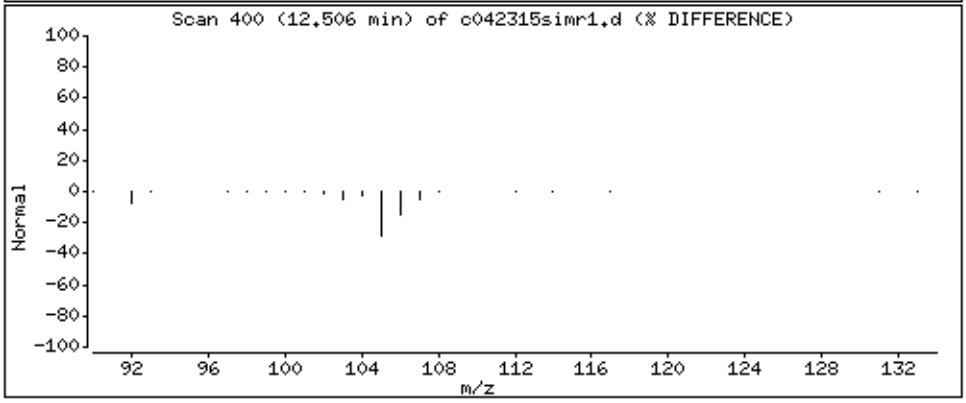












Data File: /chem/msdc.i/23Apr2015.b/c042315simr1.d

Date : 23-APR-2015 15:02

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-07A;

Volume Injected (uL): 1.0

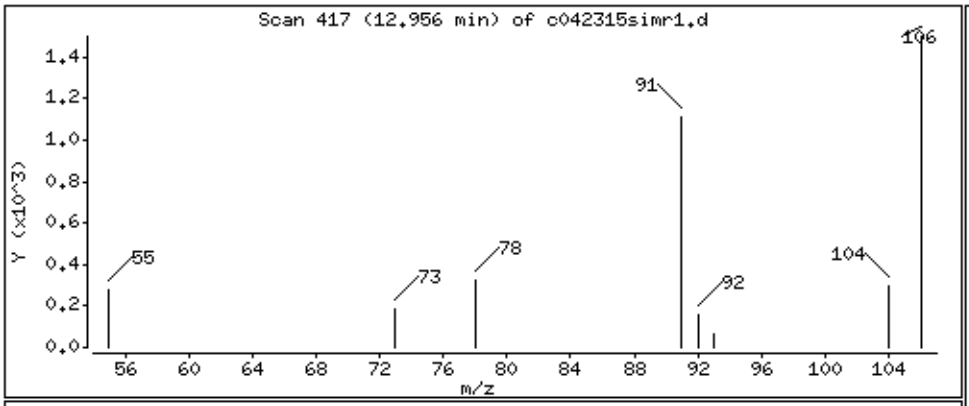
Operator: gm

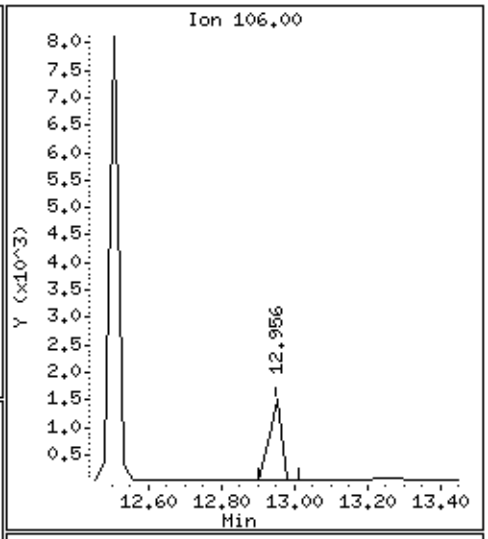
Column phase: DB-5.625

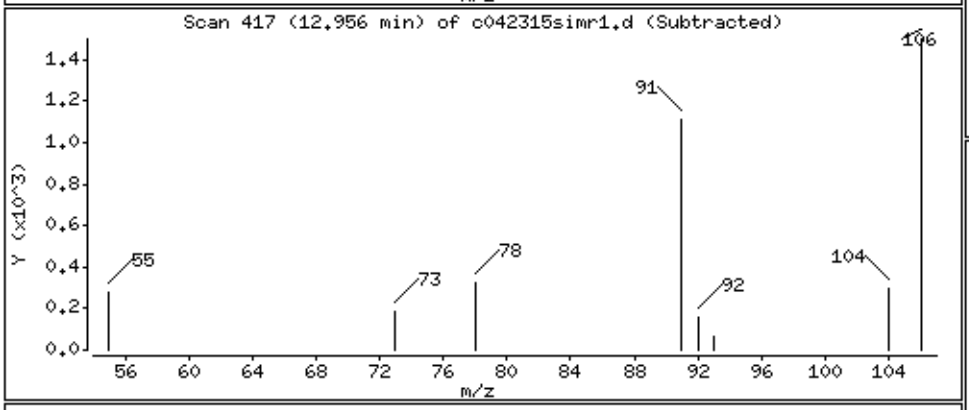
Column diameter: 0.25

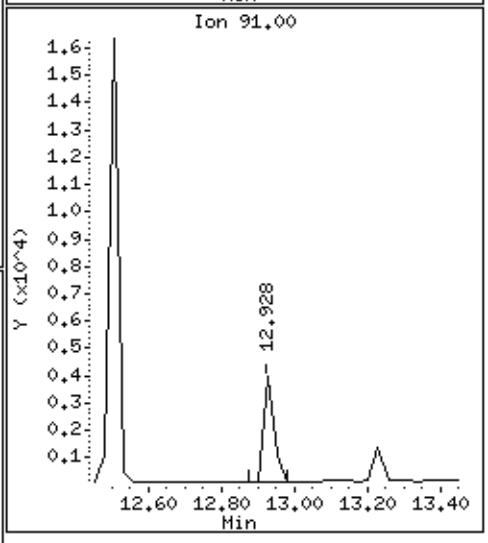
34 o-Xylene

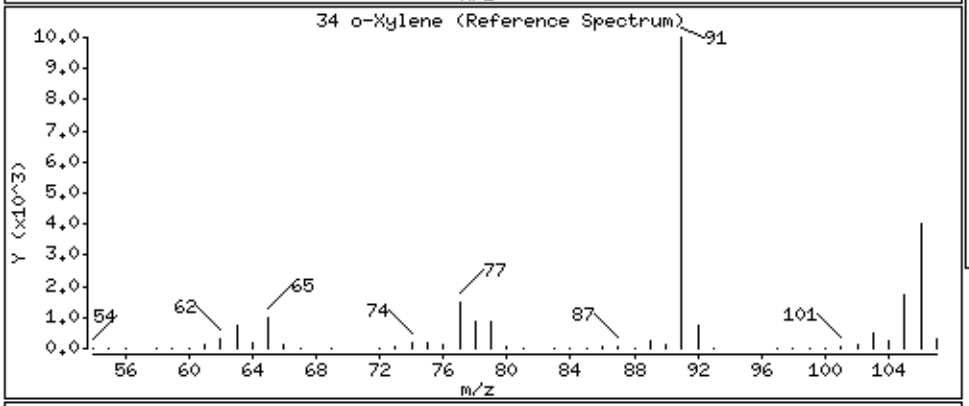
Concentration: 0.243656 ug

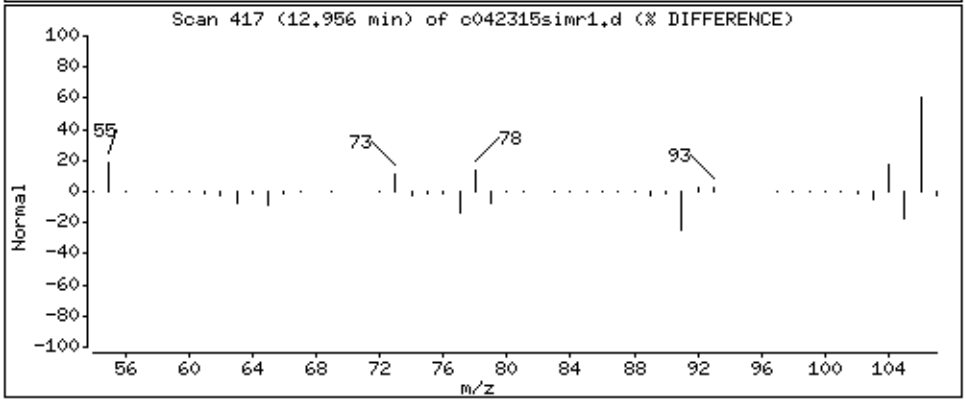












Data File: /chem/msdc.i/23Apr2015.b/c042315simr1.d

Date : 23-APR-2015 15:02

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-07A;

Volume Injected (uL): 1.0

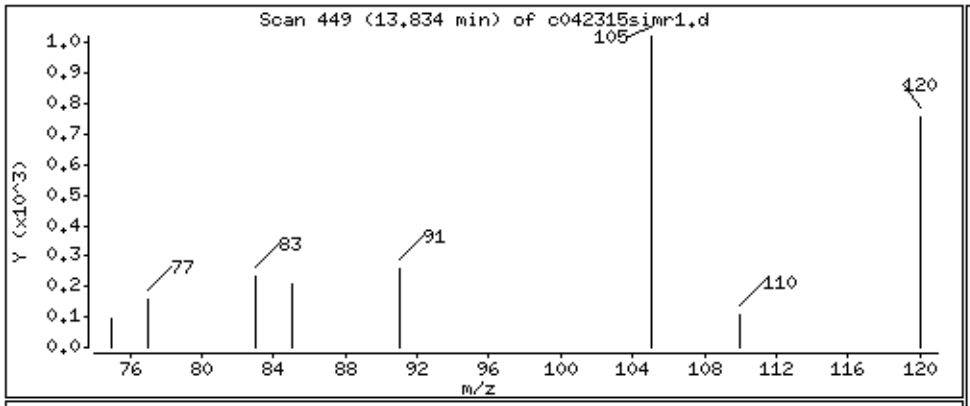
Operator: gm

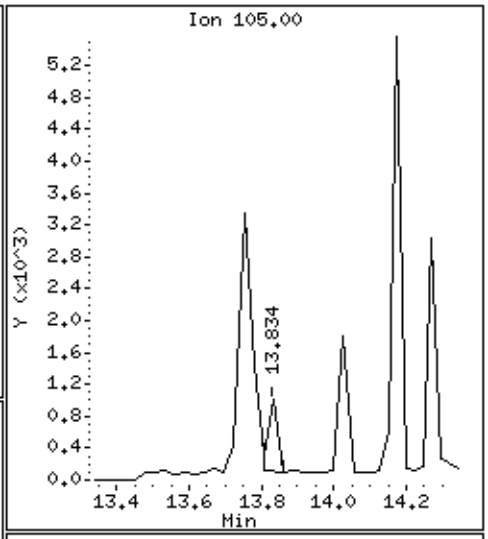
Column phase: DB-5.625

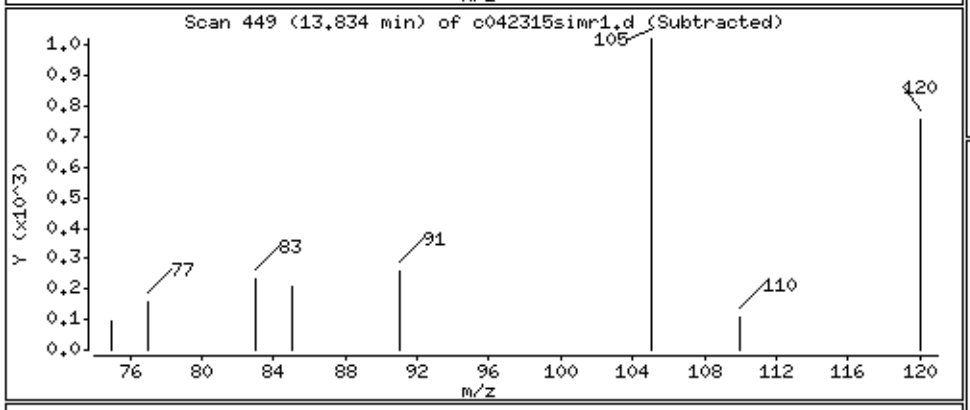
Column diameter: 0.25

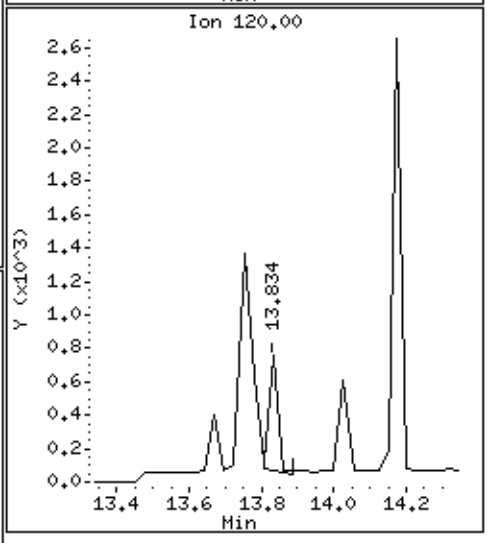
40 1,3,5-Trimethylbenzene

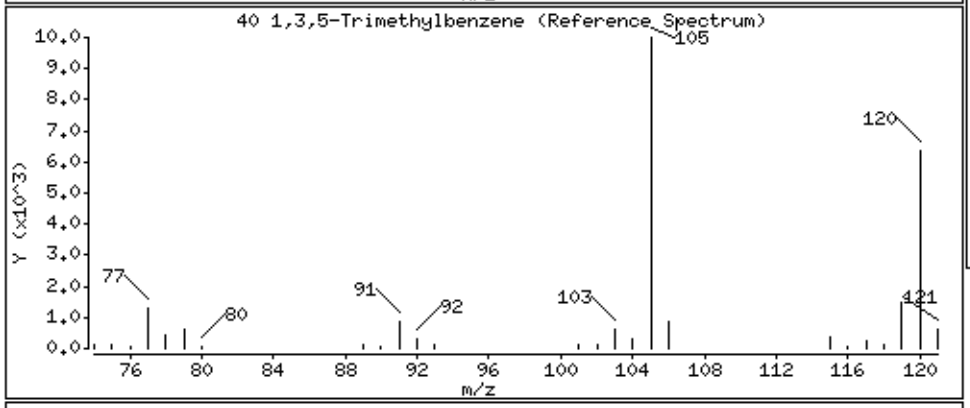
Concentration: 0.0572995 ug

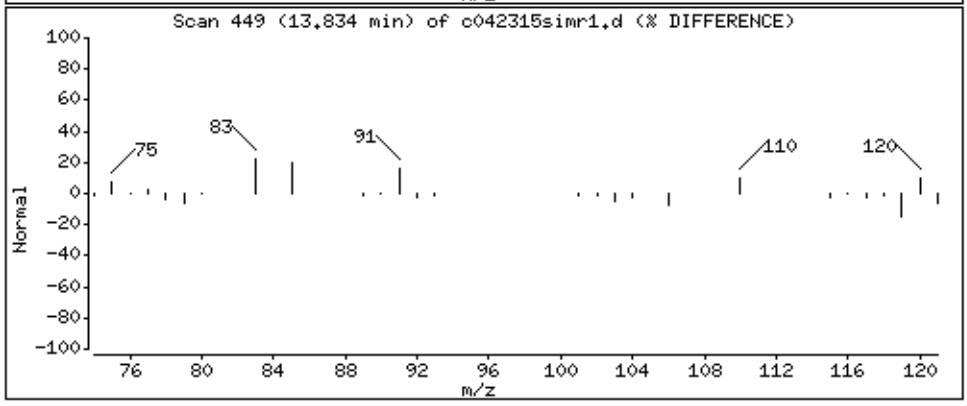












Data File: /chem/msdc.i/23Apr2015.b/c042315simr1.d

Date : 23-APR-2015 15:02

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-07A;

Volume Injected (uL): 1.0

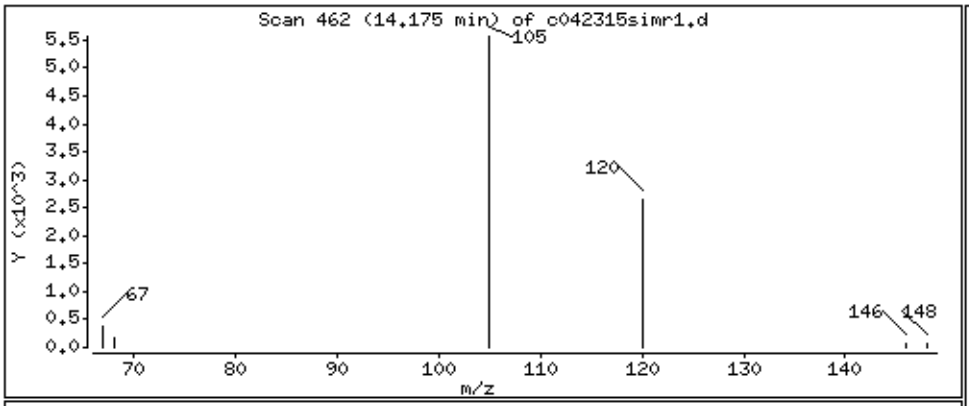
Operator: gm

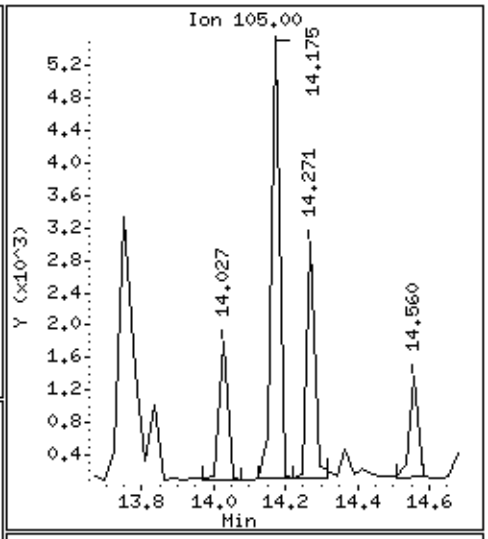
Column phase: DB-5.625

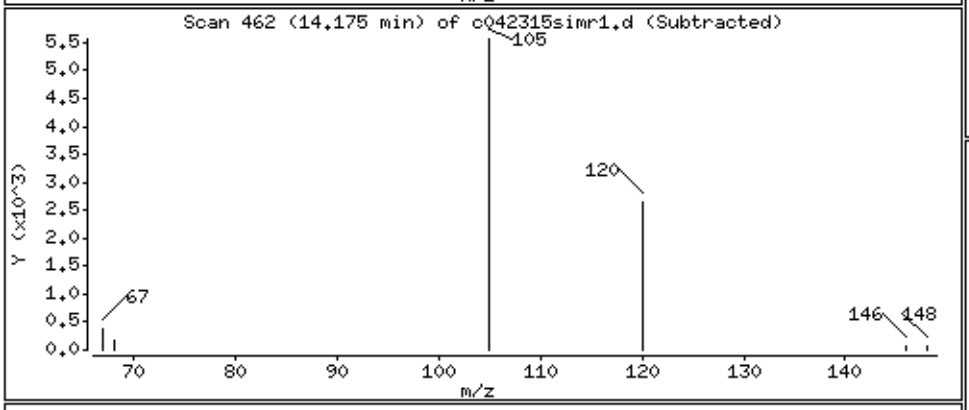
Column diameter: 0.25

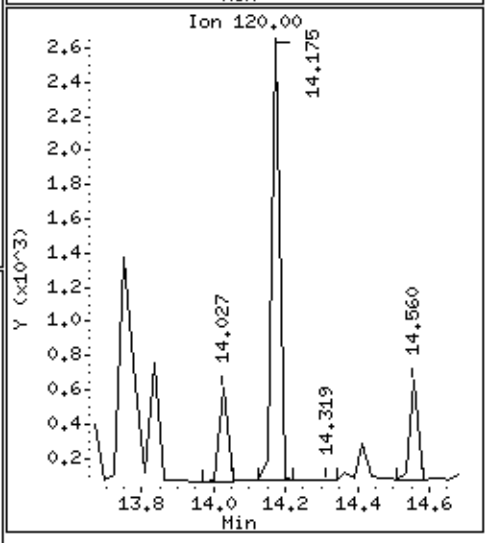
41 1,2,4-Trimethylbenzene

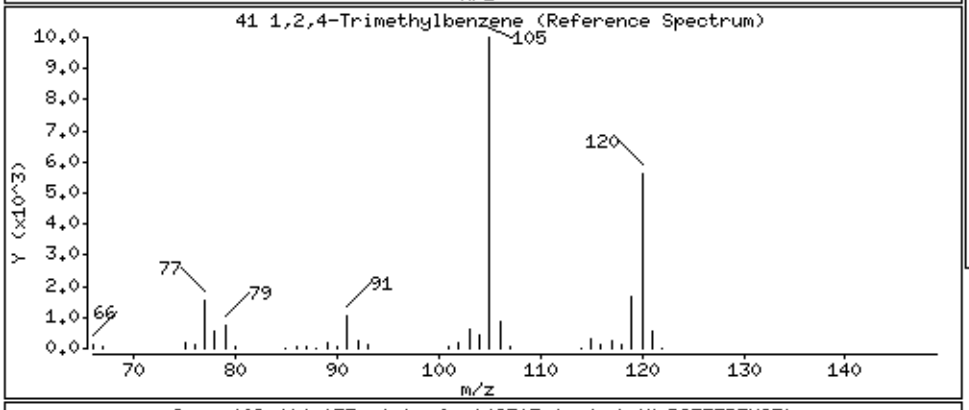
Concentration: 0.212006 ug

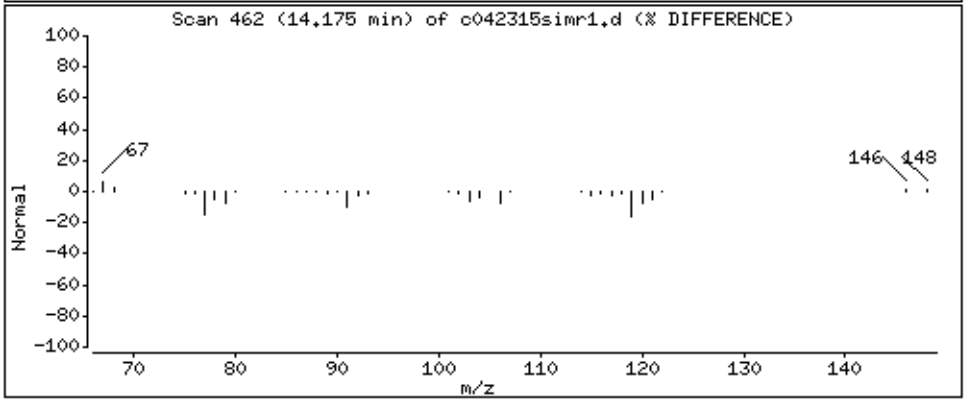












eurofins | Air Toxics

Summary of Detected Compounds
VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: 5234-CS01-0415

Lab ID#: 1504309R2-08A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Benzene	0.40	0.48	0.57	0.69
1,2-Dichloroethane	0.10	0.12	0.041 J	0.051 J
Trichloroethene	0.10	0.14	0.036 J	0.050 J
Toluene	0.10	0.13	1.3	1.7
Tetrachloroethene	0.10	0.16	0.068 J	0.11 J
Ethyl Benzene	0.10	0.14	0.21	0.29
m,p-Xylene	0.10	0.14	0.70	0.96
o-Xylene	0.10	0.15	0.22	0.33
1,2,4-Trimethylbenzene	0.10	0.19	0.20	0.38
1,3,5-Trimethylbenzene	0.10	0.18	0.062 J	0.11 J

eurofins | Air Toxics

Client Sample ID: 5234-CS01-0415

Lab ID#: 1504309R2-08A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**c042316simr2**	**Date of Collection: 4/17/15 10:12:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/15 03:27 PM**	
		Date of Extraction: 4/23/15	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
1,1,1-Trichloroethane	0.10	0.15	Not Detected	Not Detected
Benzene	0.40	0.48	0.57	0.69
1,2-Dichloroethane	0.10	0.12	0.041 J	0.051 J
Trichloroethene	0.10	0.14	0.036 J	0.050 J
Toluene	0.10	0.13	1.3	1.7
Tetrachloroethene	0.10	0.16	0.068 J	0.11 J
Ethyl Benzene	0.10	0.14	0.21	0.29
m,p-Xylene	0.10	0.14	0.70	0.96
o-Xylene	0.10	0.15	0.22	0.33
Naphthalene	0.10	0.38	Not Detected	Not Detected
1,1-Dichloroethane	0.10	0.15	Not Detected C	Not Detected C
1,1-Dichloroethene	0.40	0.50	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.15	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.32	Not Detected C	Not Detected C
1,1,2-Trichloroethane	0.10	0.14	Not Detected C	Not Detected C
1,2,4-Trimethylbenzene	0.10	0.19	0.20	0.38
1,3,5-Trimethylbenzene	0.10	0.18	0.062 CJ	0.11 CJ
Vinyl Chloride	0.40	0.43	Not Detected C	Not Detected C

J = Estimated value.
C = Estimated concentration due to calculated sampling rate.

Temperature = 89.6F , duration time = 10062 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	110	70-130

Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msdc.i/23Apr2015.b/c042316simr2.d
Lab Smp Id: 1504309R2-08A
Inj Date : 23-APR-2015 15:27
Operator : gm Inst ID: msdc.i
Smp Info : ;1504309R2-08A;
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Meth Date : 26-Jun-2015 14:36 gmash Quant Type: ISTD
Cal Date : 15-APR-2015 11:23 Cal File: c041509sim.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Gilbane.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
2	Vinyl Chloride	62	Compound Not Detected.					
4	1,1-Dichloroethene-CCC	96	Compound Not Detected.					
8	trans-1,2-Dichloroethene	96	Compound Not Detected.					
11	1,1-Dichloroethane-SPCC	63	Compound Not Detected.					
14	cis-1,2-Dichloroethene	96	Compound Not Detected.					
17	1,1,1-Trichloroethane	97	Compound Not Detected.					
19	Benzene	78	8.603	8.603	(0.783)	13344	0.28750	0.574995
20	1,2-Dichloroethane	62	8.696	8.696	(0.791)	438	0.02055	0.0410934(aM)
22	Trichloroethene	130	9.331	9.331	(0.849)	274	0.01788	0.0357650(a)
$ 25	Toluene-d8	98	10.656	10.656	(0.969)	241052	5.47965	10.9593
26	Toluene-CCC	92	10.729	10.728	(0.976)	25221	0.66374	1.32748
* 27	2-Fluorotoluene	109	10.994	10.993	(1.000)	267254	5.00000	
28	1,1,2-Trichloroethane	97	Compound Not Detected.					
29	Tetrachloroethene	164	11.331	11.331	(1.031)	591	0.03381	0.0676162(a)
31	Ethylbenzene-CCC	106	12.377	12.377	(1.126)	2533	0.10367	0.207336
33	m,p-Xylene	106	12.506	12.506	(1.138)	11965	0.34995	0.699896

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
34 o-Xylene	106	12.956	12.956	(1.178)	3050	0.11225	0.224491
40 1,3,5-Trimethylbenzene	105	13.834	13.834	(1.258)	1887	0.03076	0.0615250(aM)
41 1,2,4-Trimethylbenzene	105	14.174	14.174	(1.289)	7681	0.09929	0.198585
48 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Report Date: 13-Jul-2015 13:50

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042316simr2.d
Lab Smp Id: 1504309R2-08A
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

Calibration Date: 23-APR-2015
Calibration Time: 09:09
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	324554	162277	649108	267254	-17.65

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	10.99	10.49	11.49	10.99	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 13-Jul-2015 13:50

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 23Apr2015
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 1504309R2-08A
Level: MED Operator: gm
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS-CM.spk Quant Type: ISTD
Sublist File: Gilbane.sub
Method File: /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 25 Toluene-d8	10.0000	10.9593	109.59	70-130

Data File: /chem/msdc.i/23Apr2015.b/c042316simr2.d

Date : 23-APR-2015 15:27

Client ID:

Instrument: msdc.i

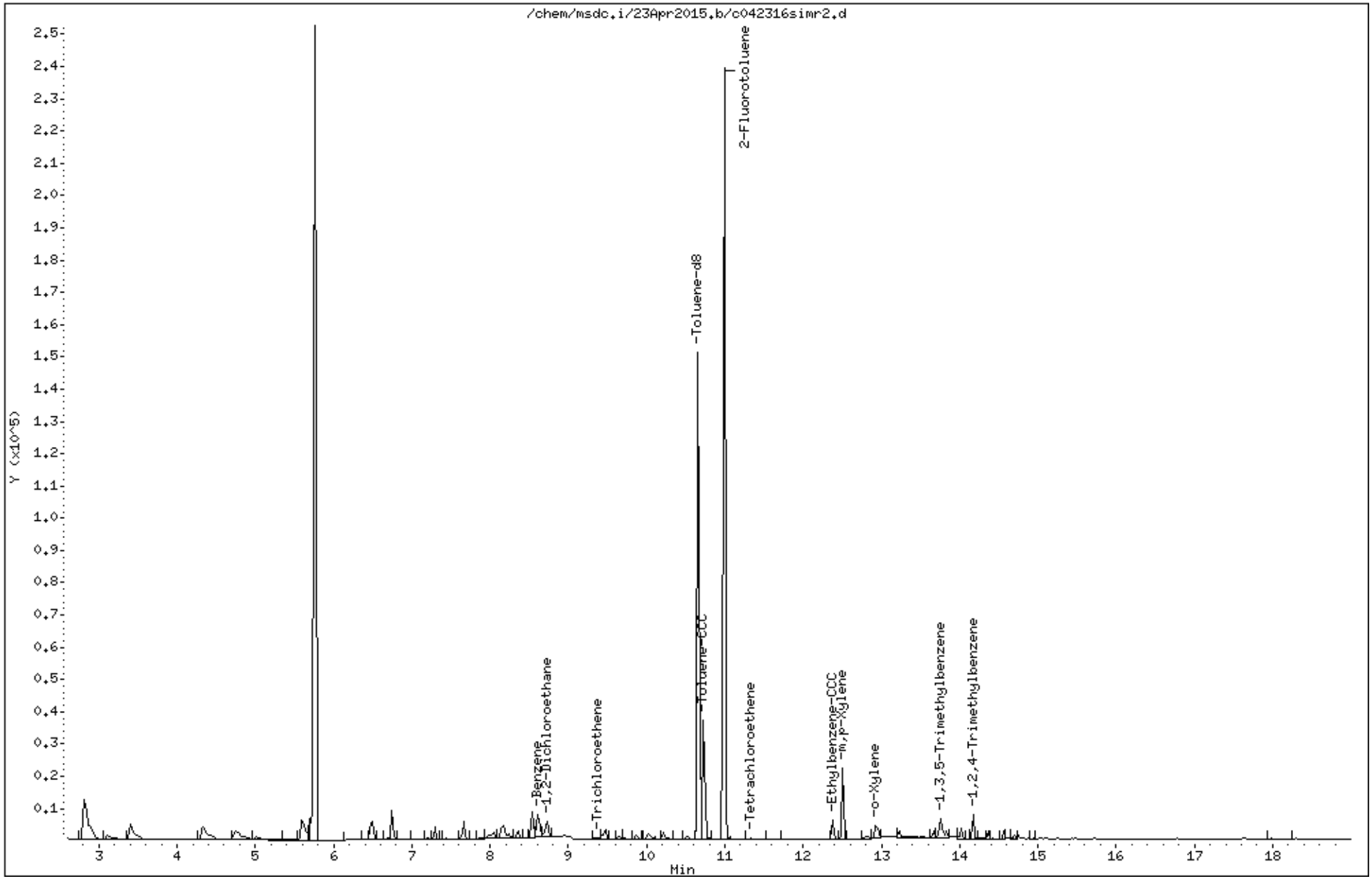
Sample Info: ;1504309R2-08A;

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdc.i/23Apr2015.b/c042316simr2.d

Date : 23-APR-2015 15:27

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-08A;

Volume Injected (uL): 1.0

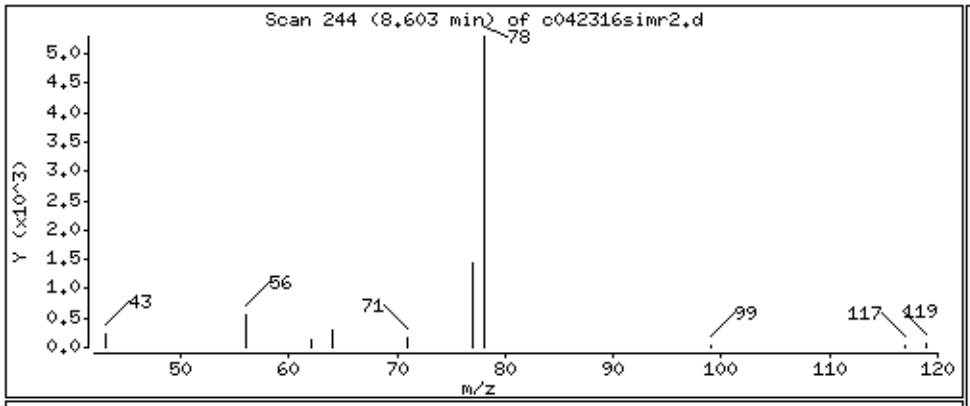
Operator: gm

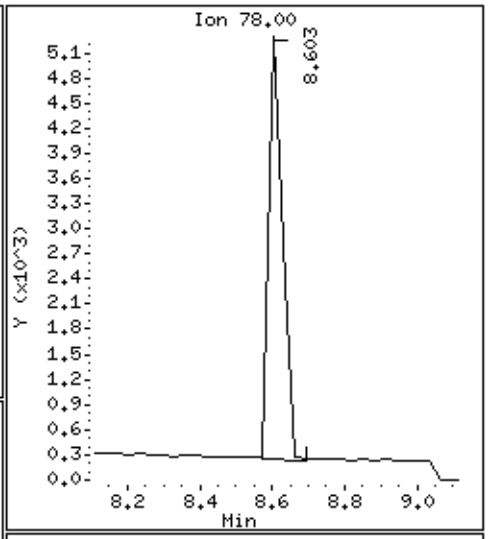
Column phase: DB-5.625

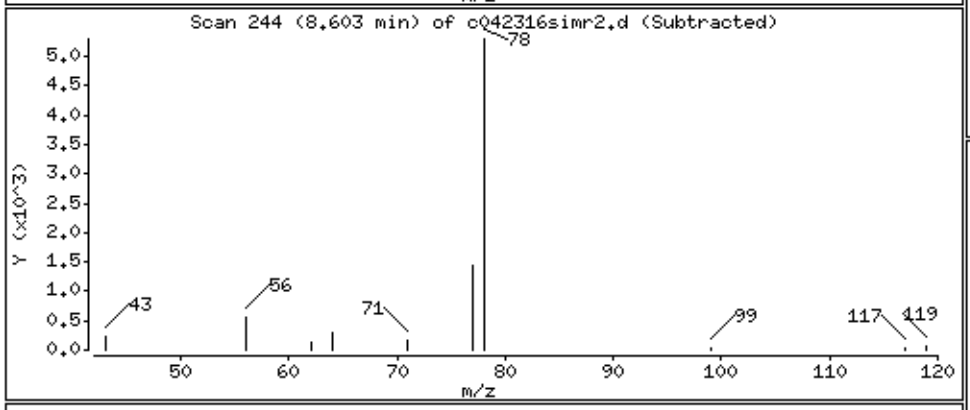
Column diameter: 0.25

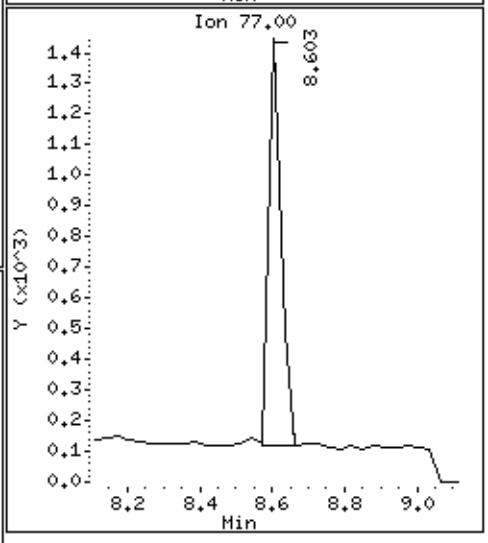
19 Benzene

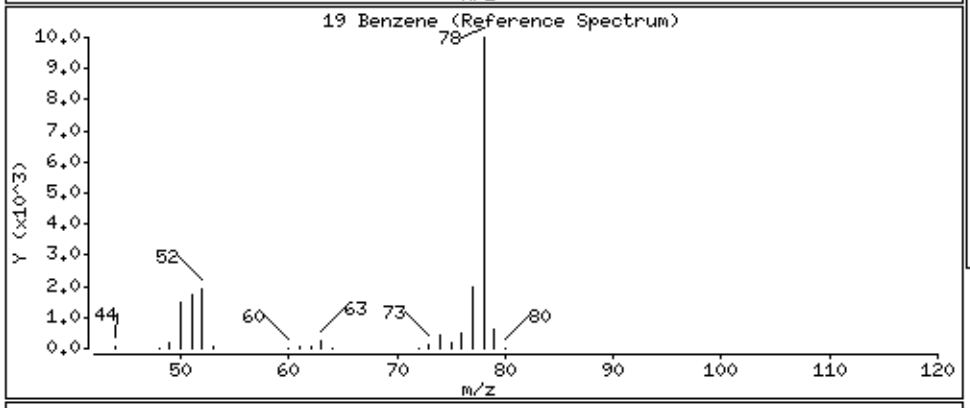
Concentration: 0.574995 ug

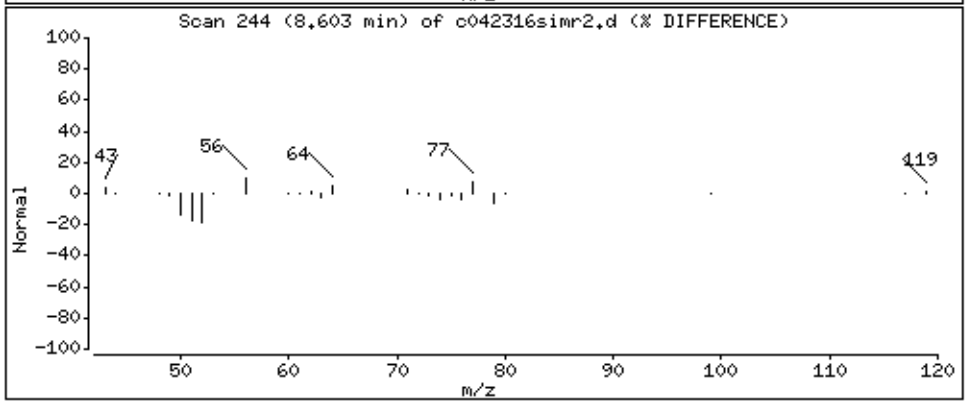












Data File: /chem/msdc.i/23Apr2015.b/c042316simr2.d

Date : 23-APR-2015 15:27

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-08A;

Volume Injected (uL): 1.0

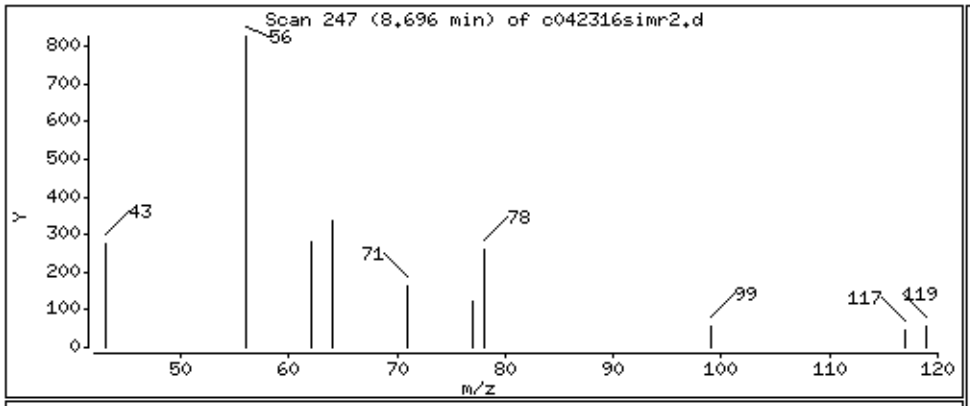
Operator: gm

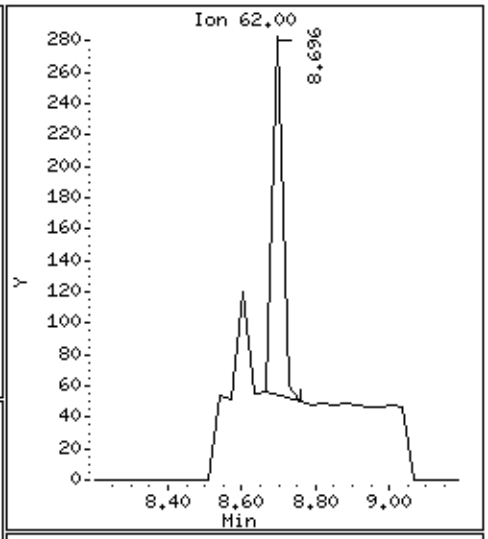
Column phase: DB-5.625

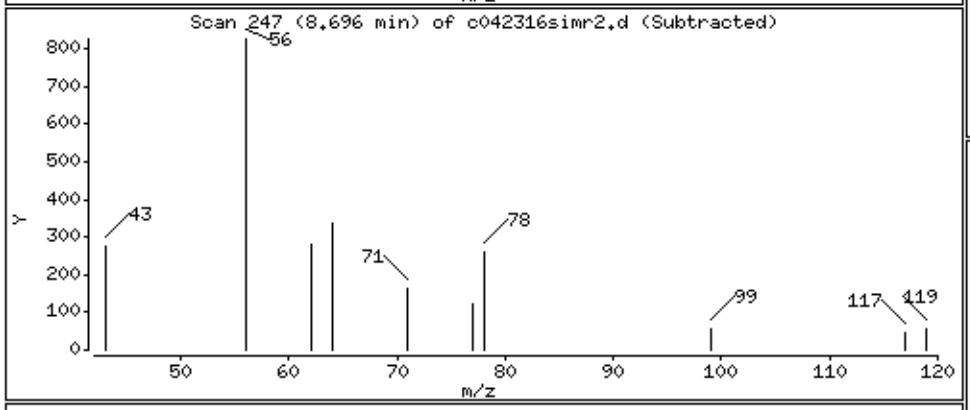
Column diameter: 0.25

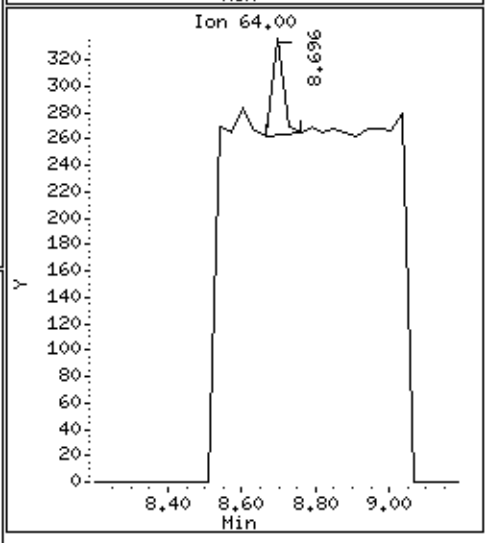
20 1,2-Dichloroethane

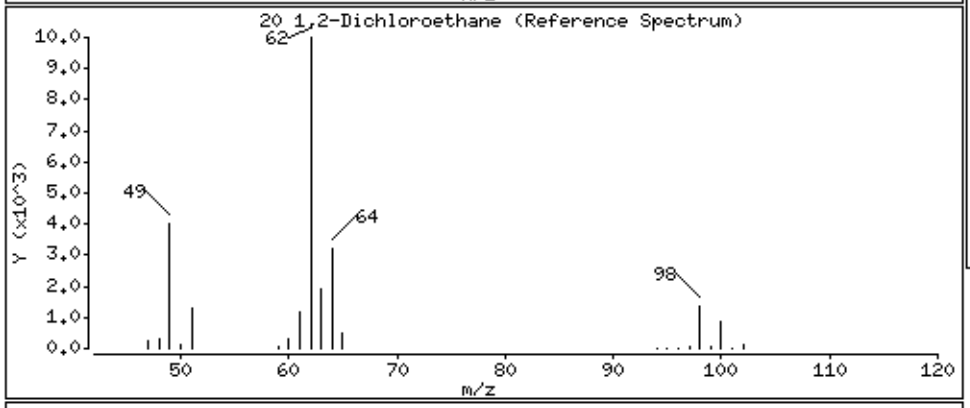
Concentration: 0.0410934 ug

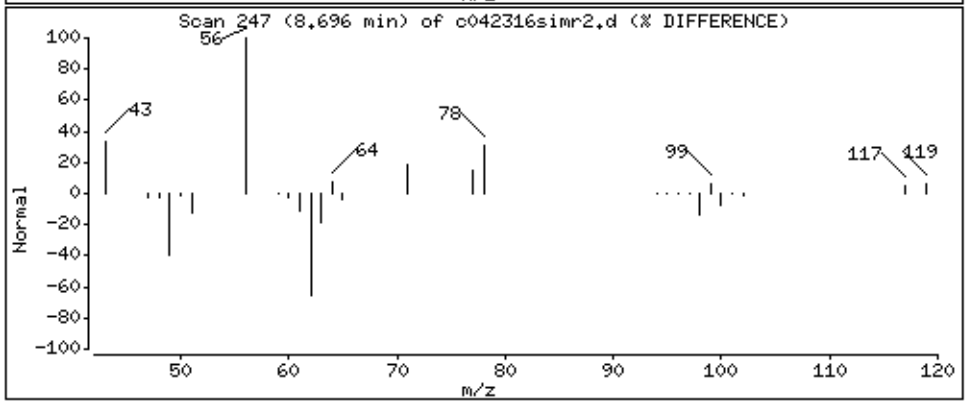












Data File: /chem/msdc.i/23Apr2015.b/c042316simr2.d

Date : 23-APR-2015 15:27

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-08A;

Volume Injected (uL): 1.0

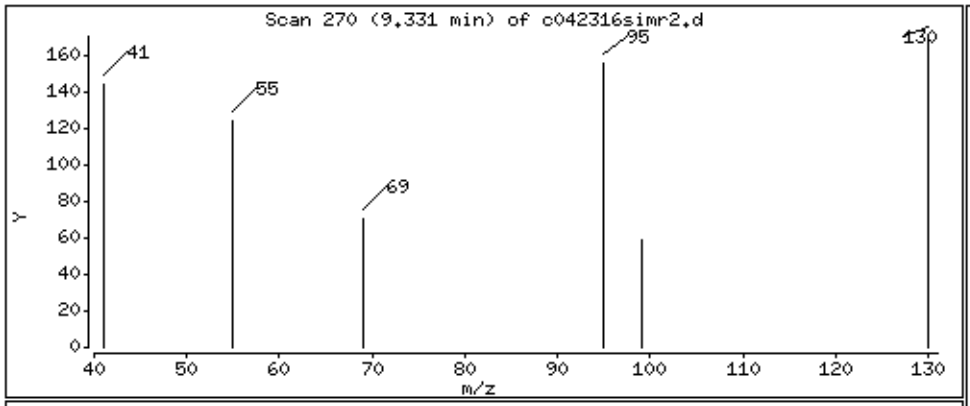
Operator: gm

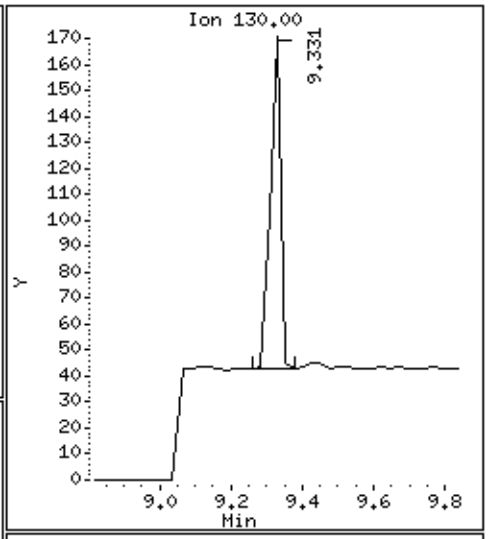
Column phase: DB-5.625

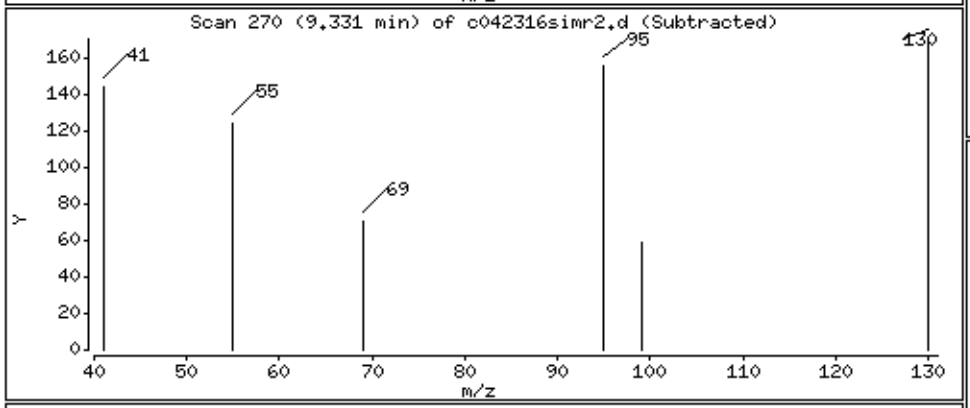
Column diameter: 0.25

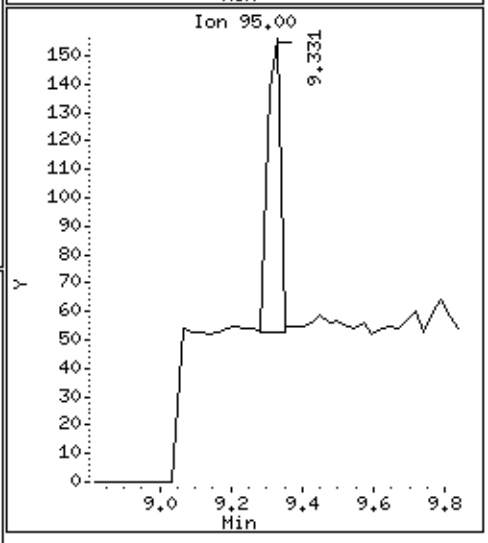
22 Trichloroethene

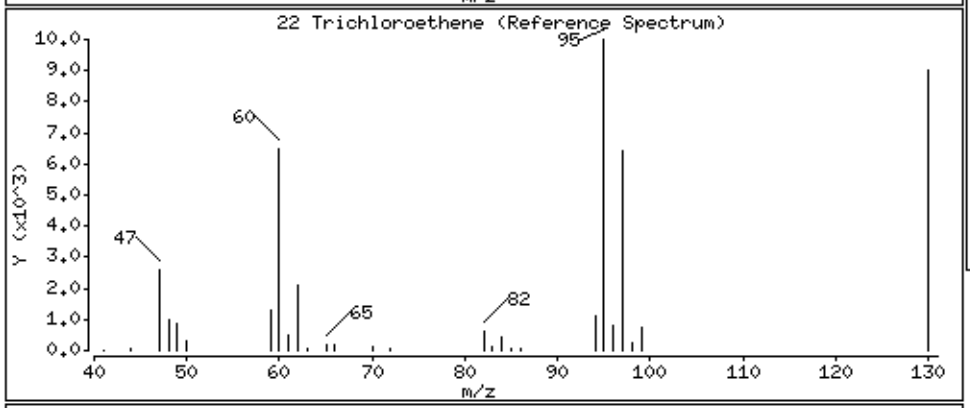
Concentration: 0.0357650 ug

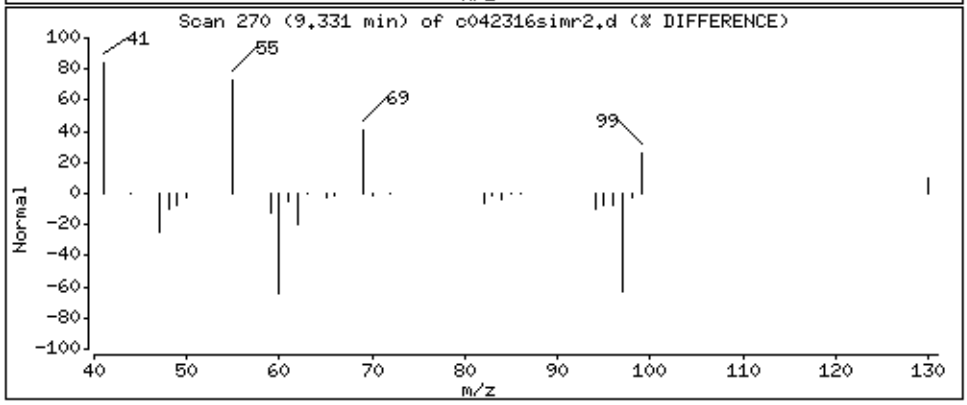












Data File: /chem/msdc.i/23Apr2015.b/c042316simr2.d

Date : 23-APR-2015 15:27

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-08A;

Volume Injected (uL): 1.0

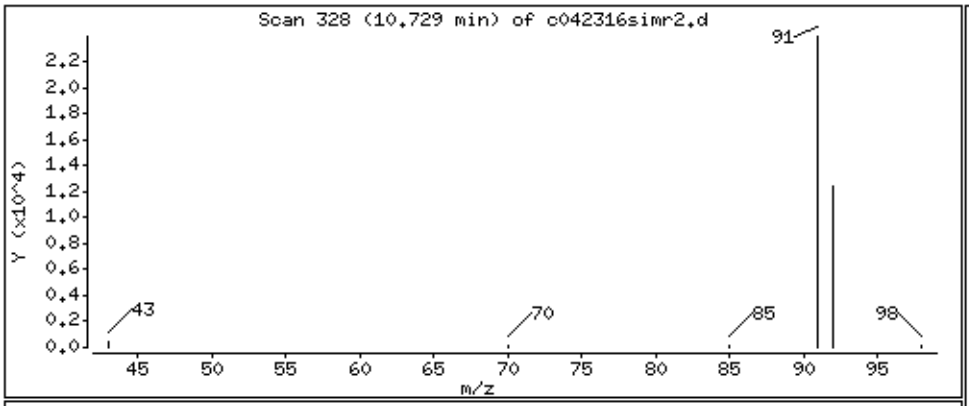
Operator: gm

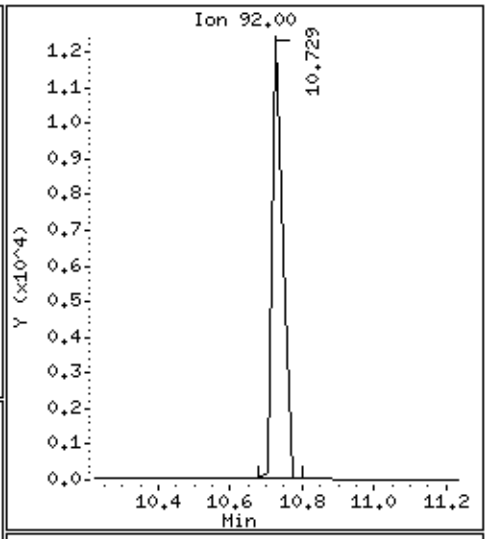
Column phase: DB-5.625

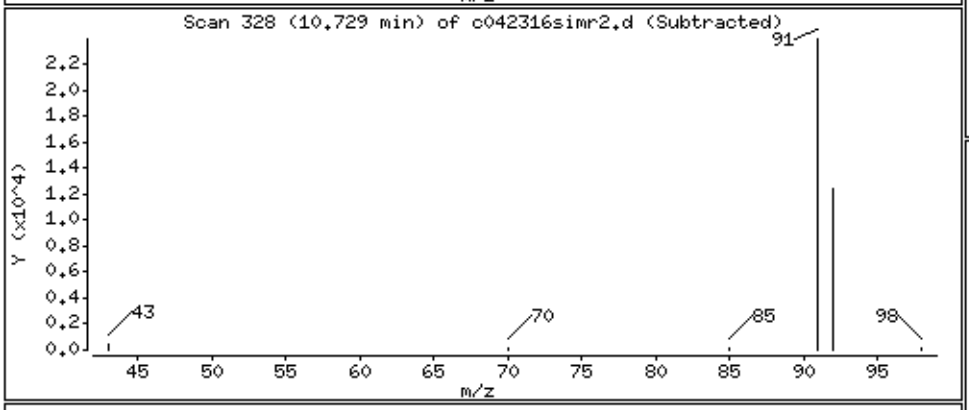
Column diameter: 0.25

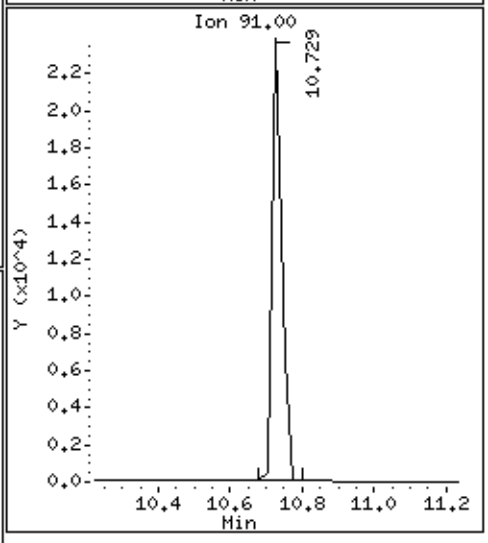
26 Toluene-CCC

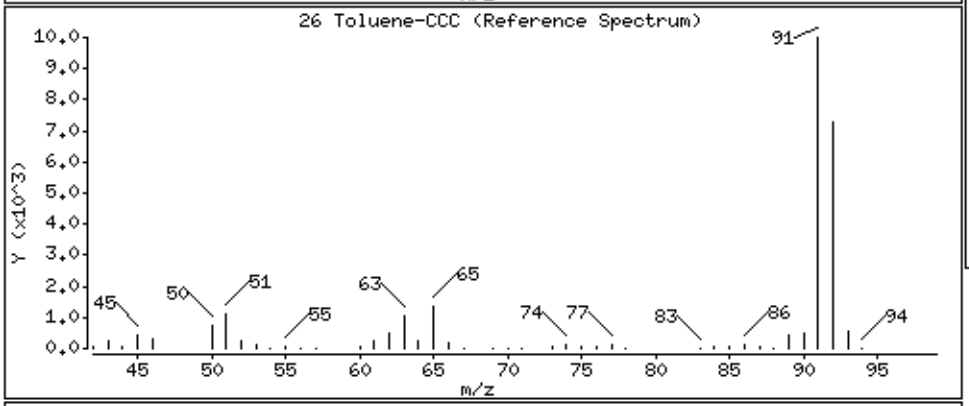
Concentration: 1.32748 ug

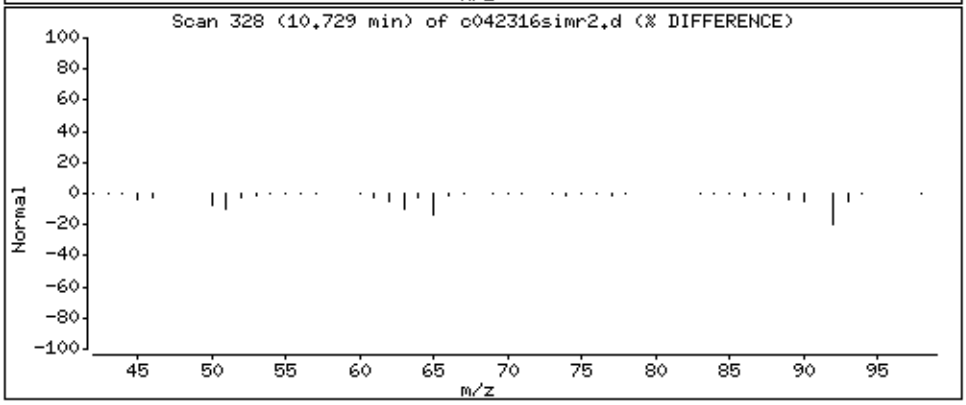












Data File: /chem/msdc.i/23Apr2015.b/c042316simr2.d

Date : 23-APR-2015 15:27

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-08A;

Volume Injected (uL): 1.0

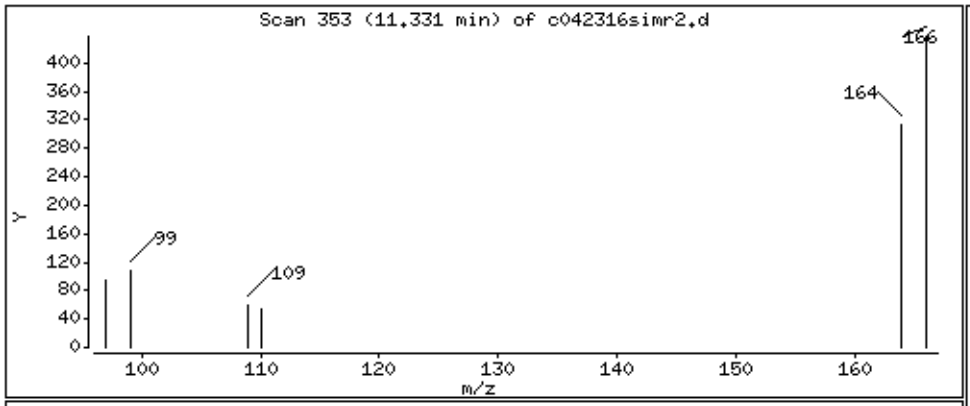
Operator: gm

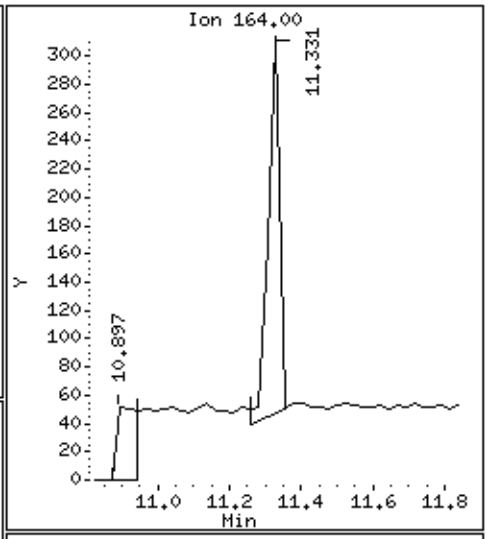
Column phase: DB-5.625

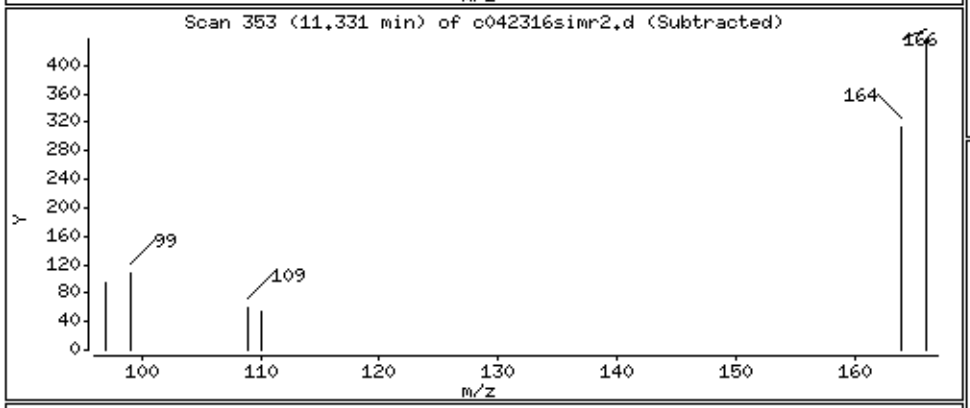
Column diameter: 0.25

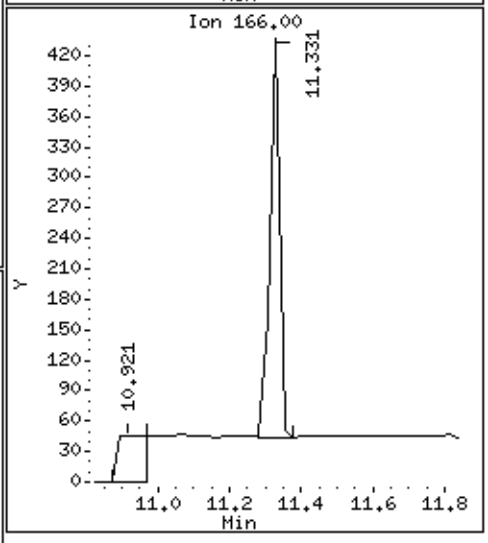
29 Tetrachloroethene

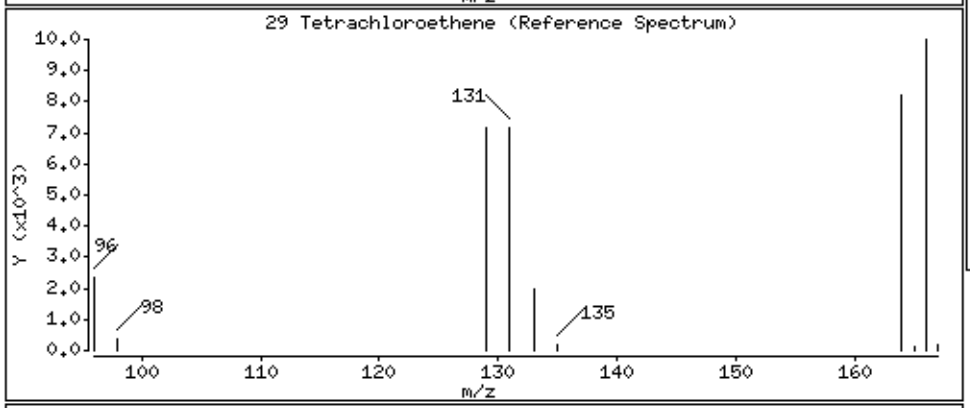
Concentration: 0.0676162 ug

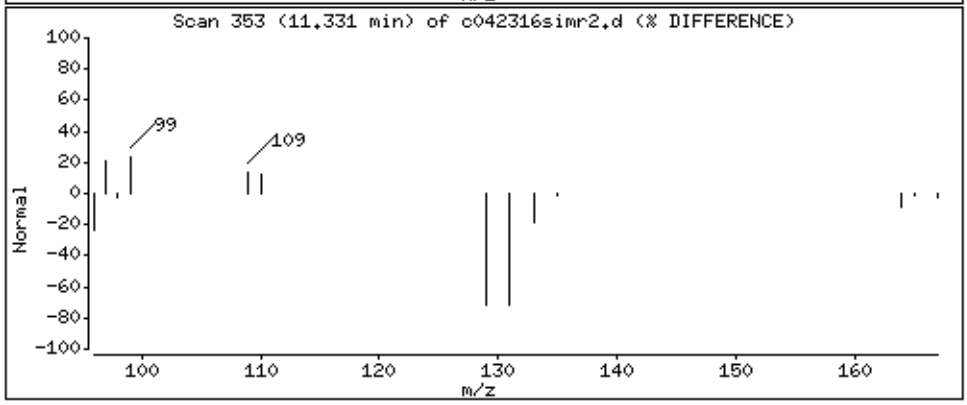












Data File: /chem/msdc.i/23Apr2015.b/c042316simr2.d

Date : 23-APR-2015 15:27

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-08A;

Volume Injected (uL): 1.0

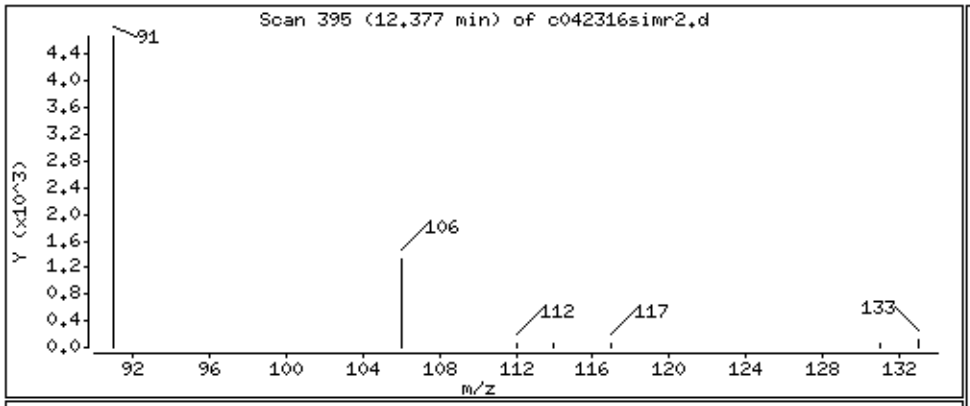
Operator: gm

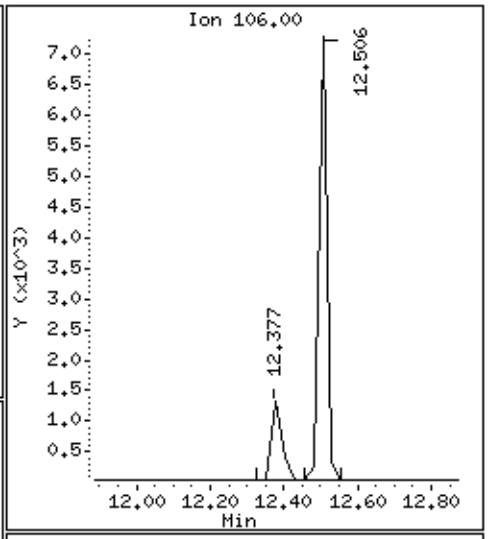
Column phase: DB-5.625

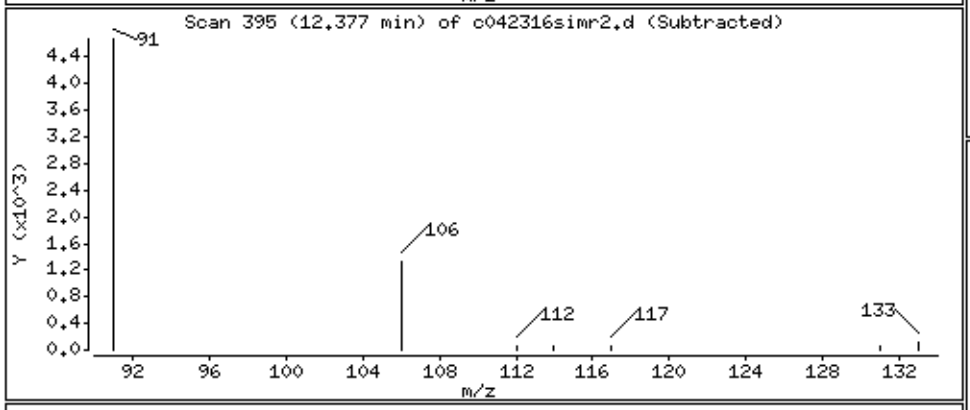
Column diameter: 0.25

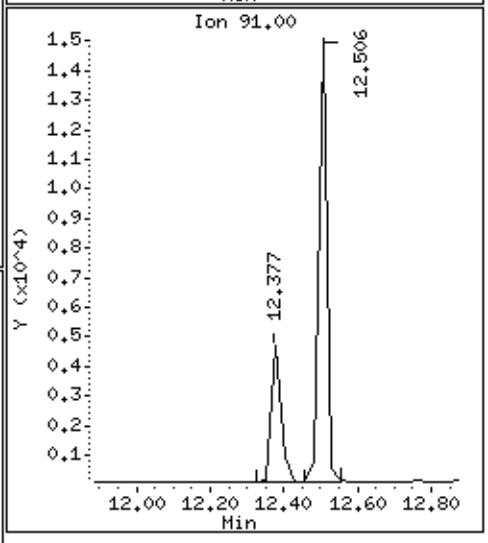
31 Ethylbenzene-CCC

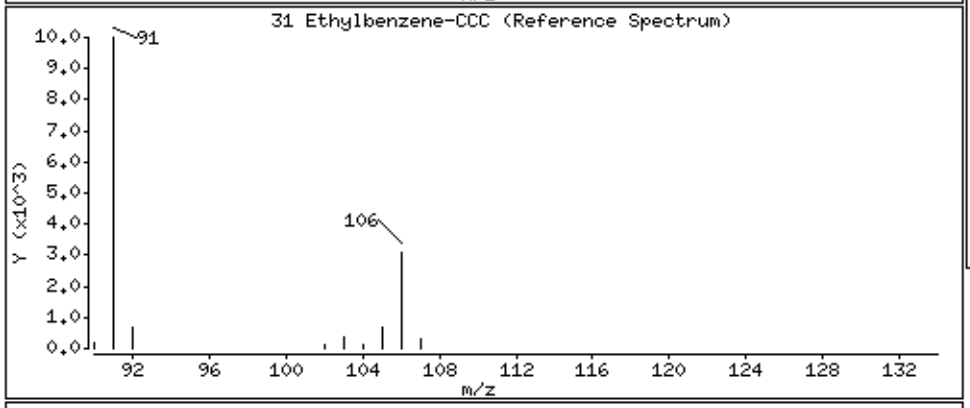
Concentration: 0.207336 ug

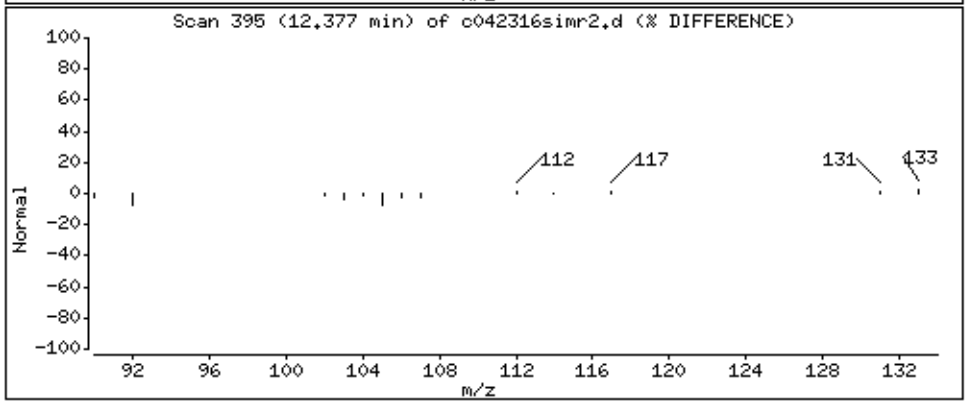












Data File: /chem/msdc.i/23Apr2015.b/c042316simr2.d

Date : 23-APR-2015 15:27

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-08A;

Volume Injected (uL): 1.0

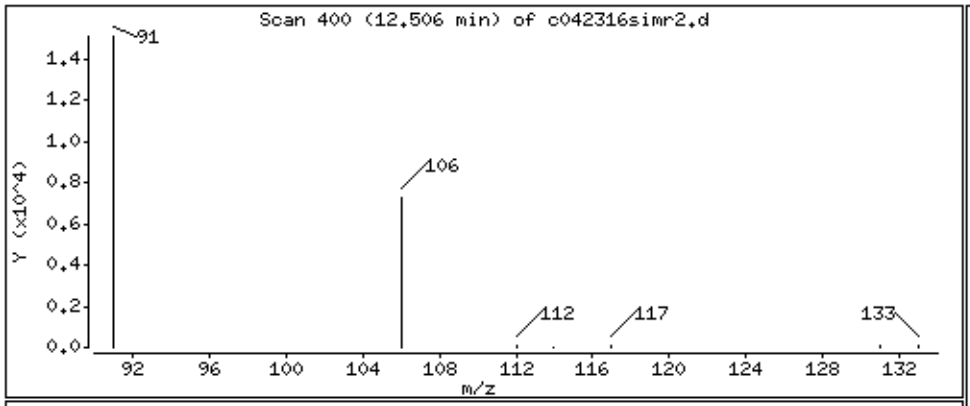
Operator: gm

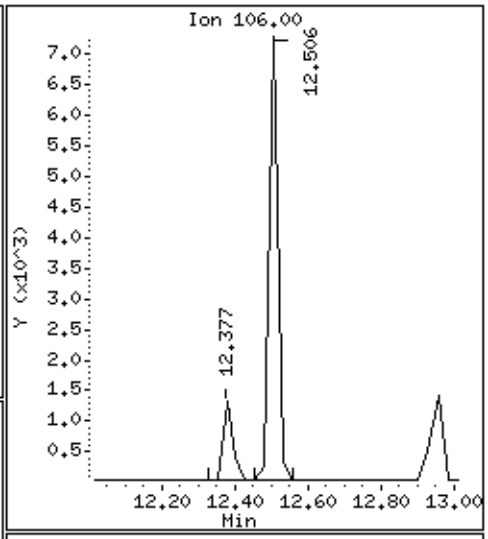
Column phase: DB-5.625

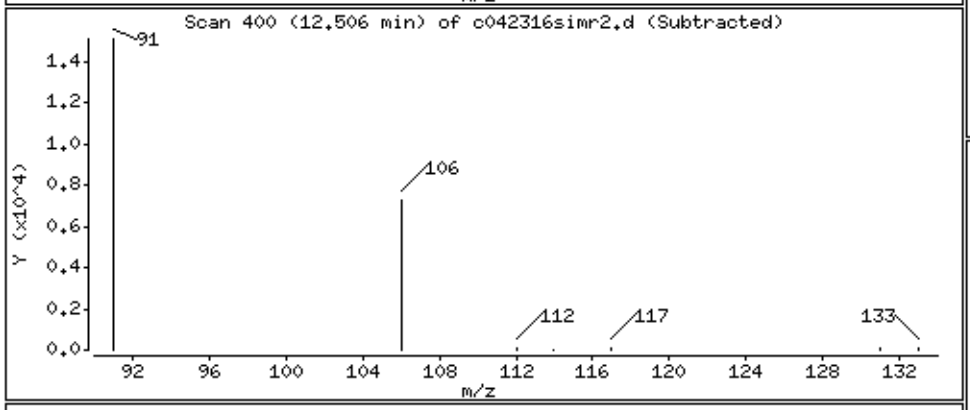
Column diameter: 0.25

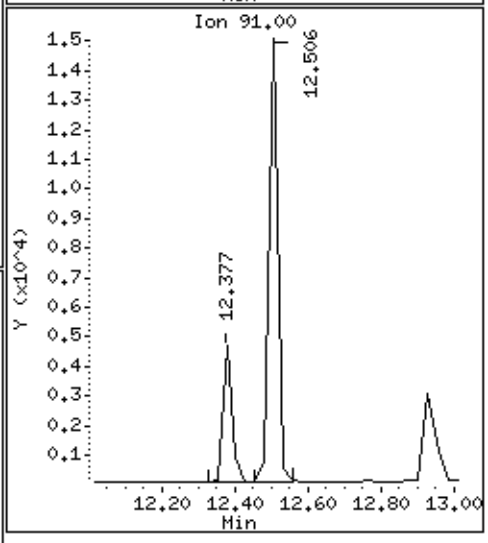
33 m,p-Xylene

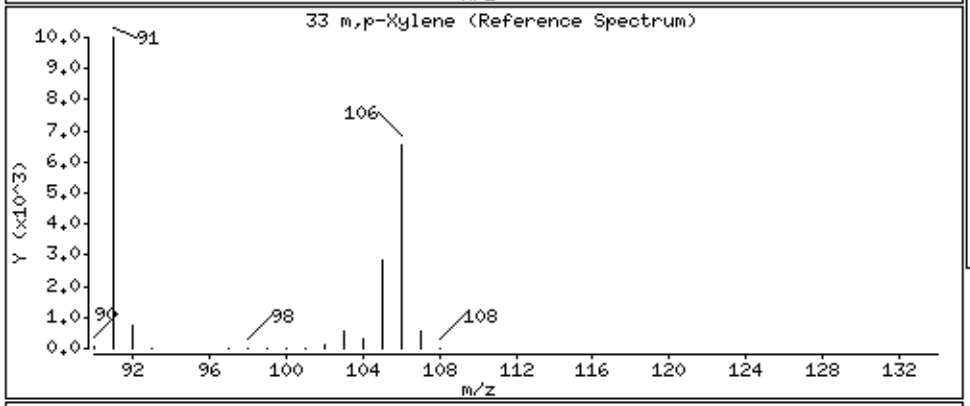
Concentration: 0.699896 ug

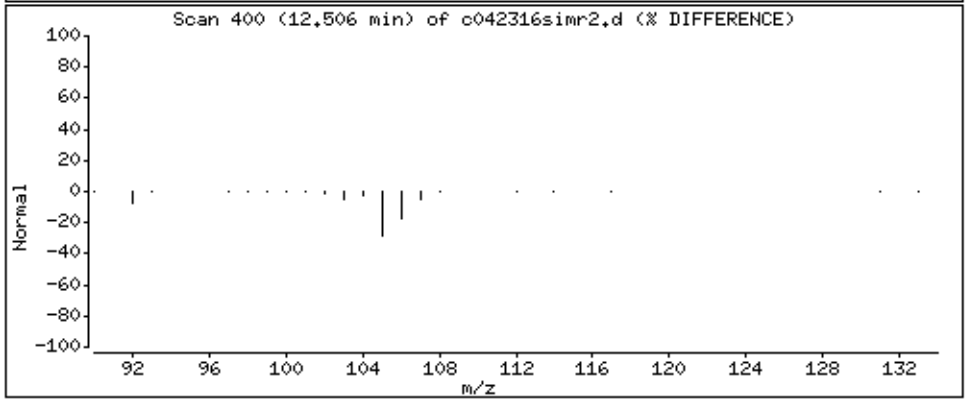












Data File: /chem/msdc.i/23Apr2015.b/c042316simr2.d

Date : 23-APR-2015 15:27

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-08A;

Volume Injected (uL): 1.0

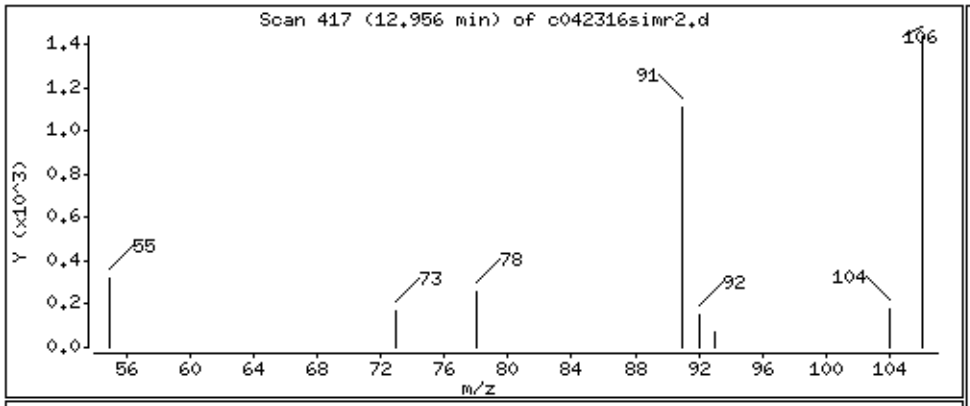
Operator: gm

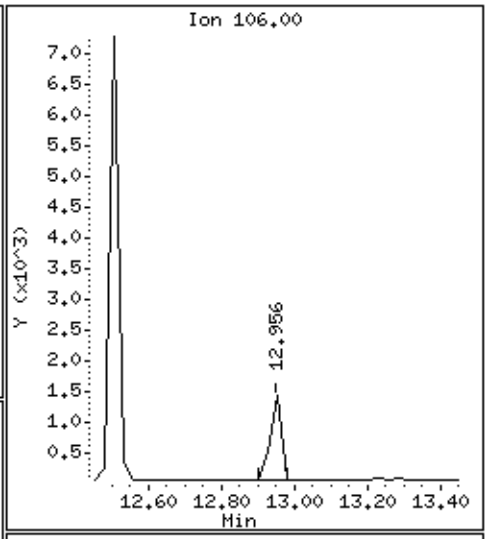
Column phase: DB-5.625

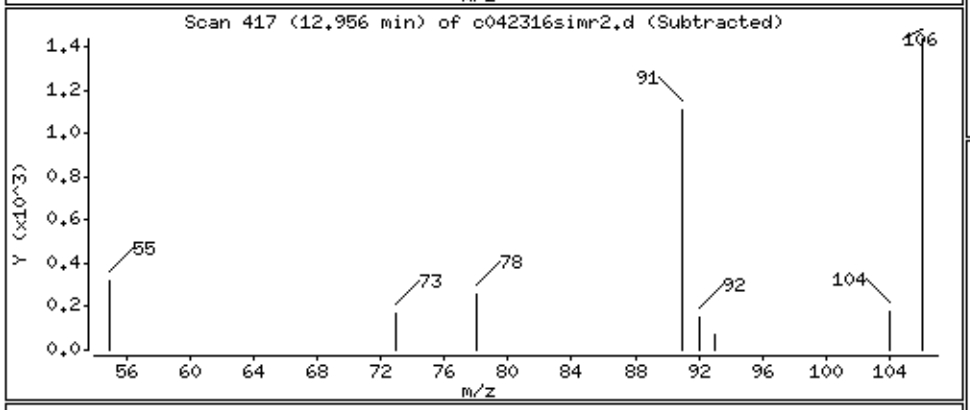
Column diameter: 0.25

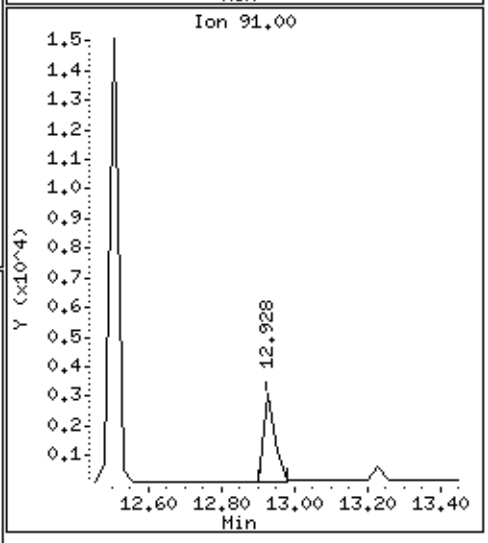
34 o-Xylene

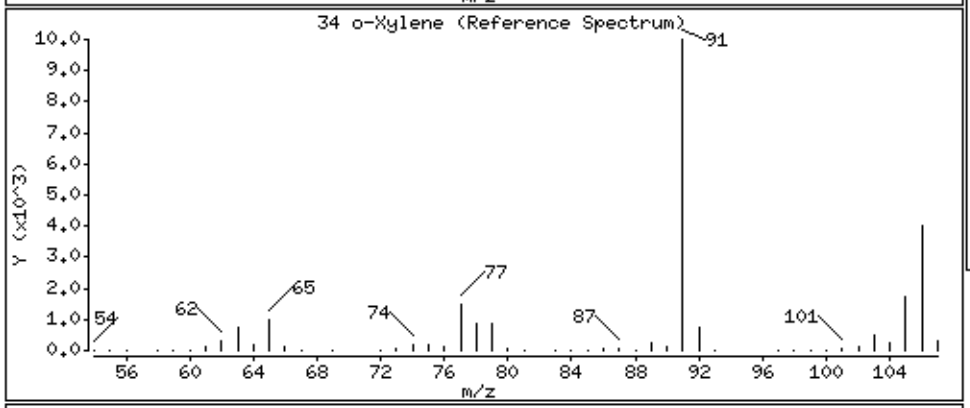
Concentration: 0.224491 ug

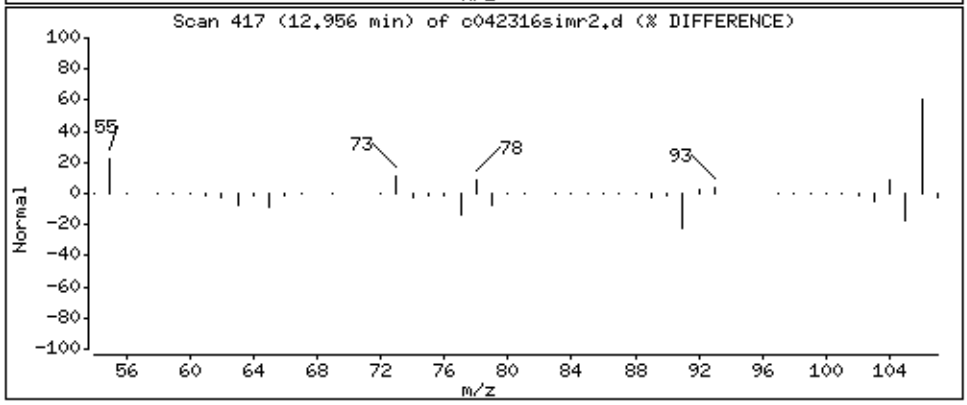












Data File: /chem/msdc.i/23Apr2015.b/c042316simr2.d

Date : 23-APR-2015 15:27

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-08A;

Volume Injected (uL): 1.0

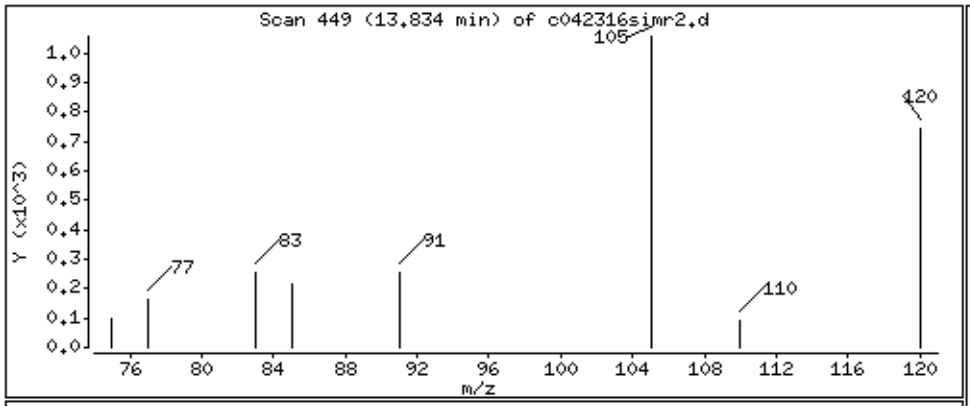
Operator: gm

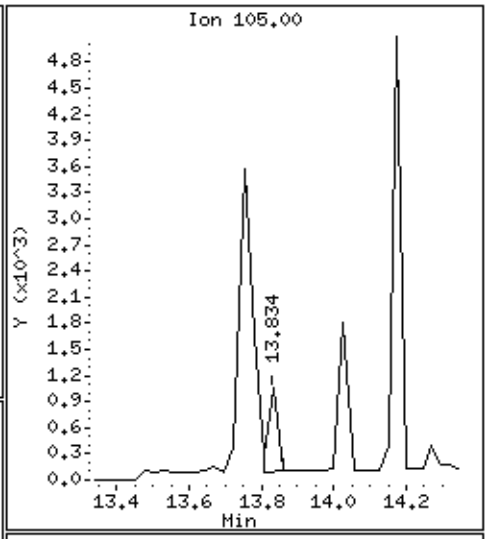
Column phase: DB-5.625

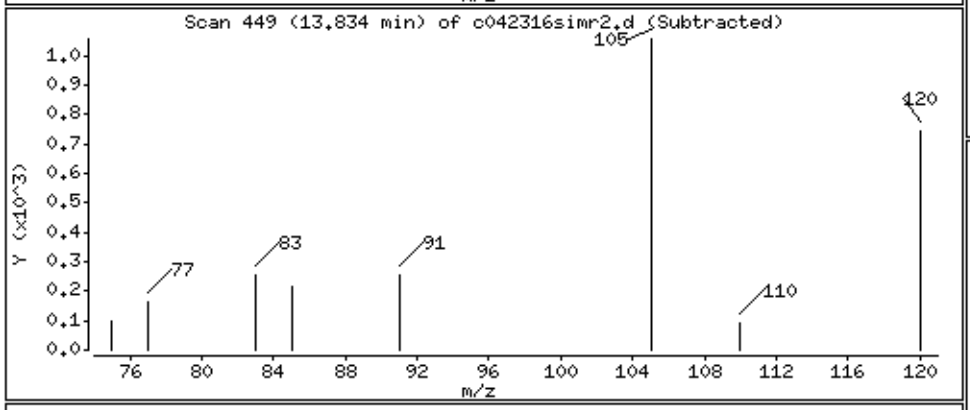
Column diameter: 0.25

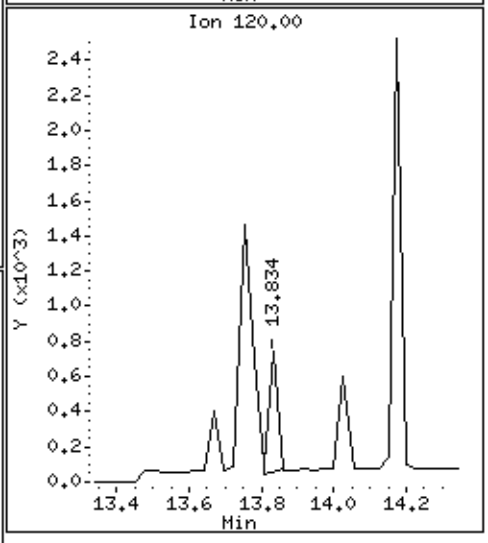
40 1,3,5-Trimethylbenzene

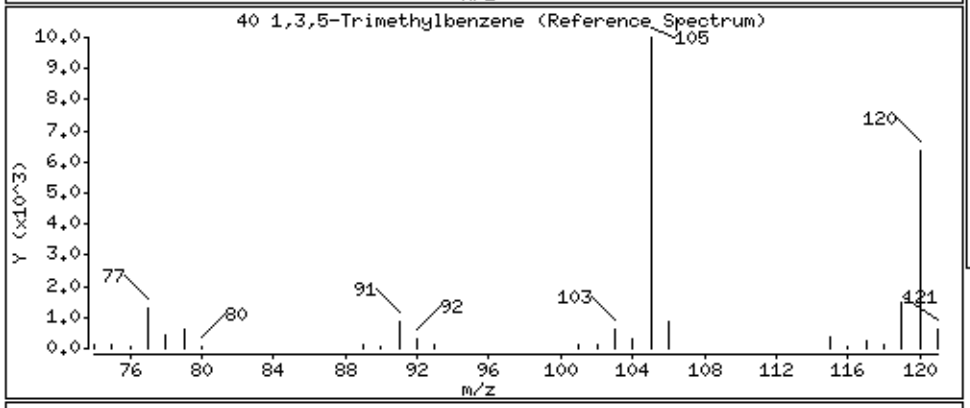
Concentration: 0.0615250 ug

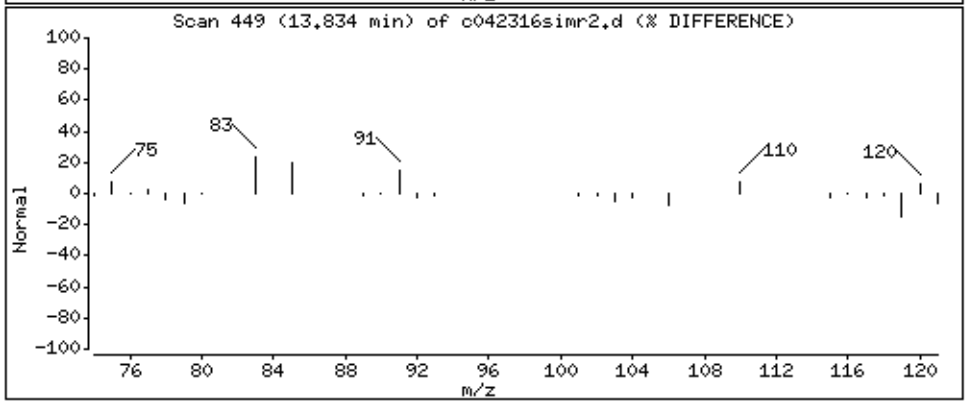












Data File: /chem/msdc.i/23Apr2015.b/c042316simr2.d

Date : 23-APR-2015 15:27

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R2-08A;

Volume Injected (uL): 1.0

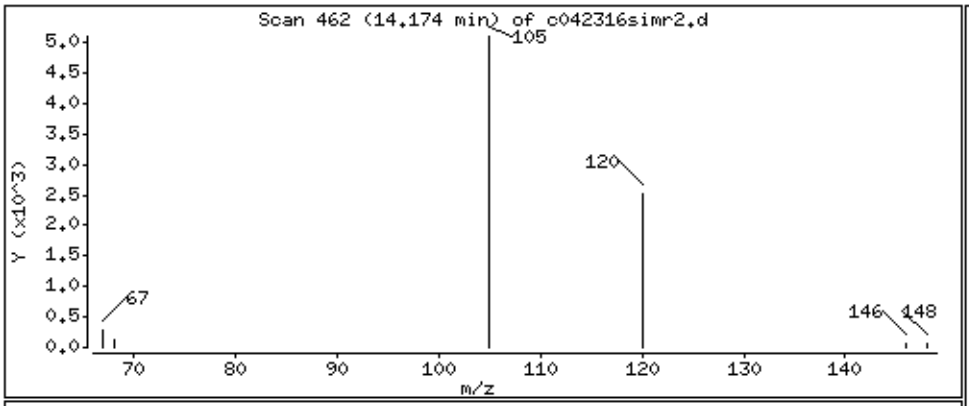
Operator: gm

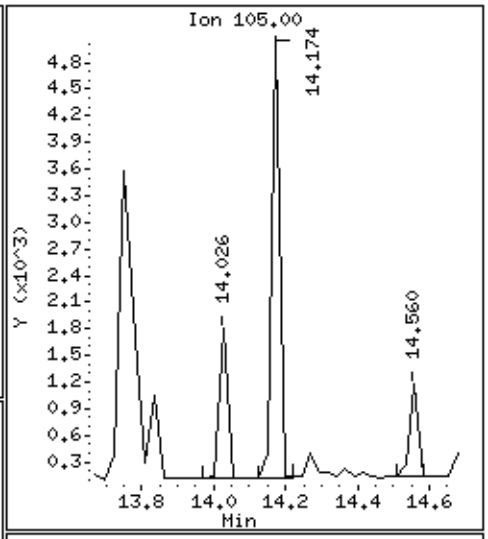
Column phase: DB-5.625

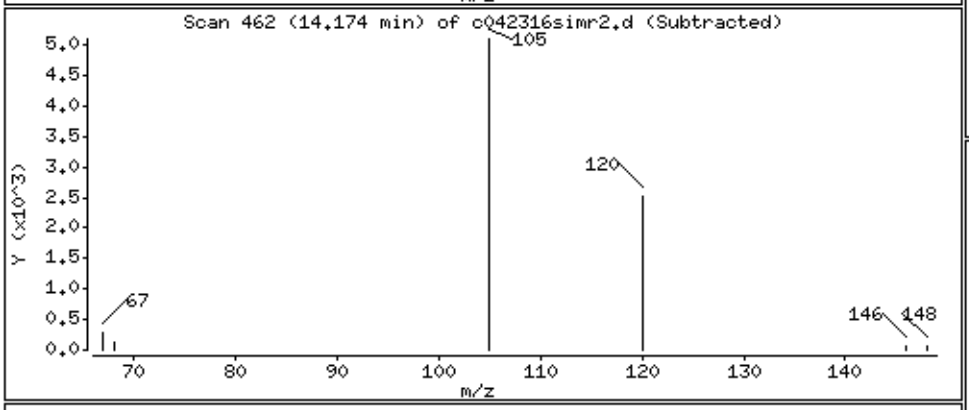
Column diameter: 0.25

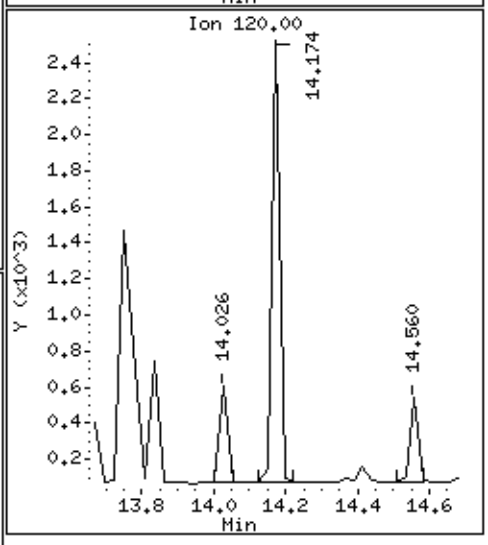
41 1,2,4-Trimethylbenzene

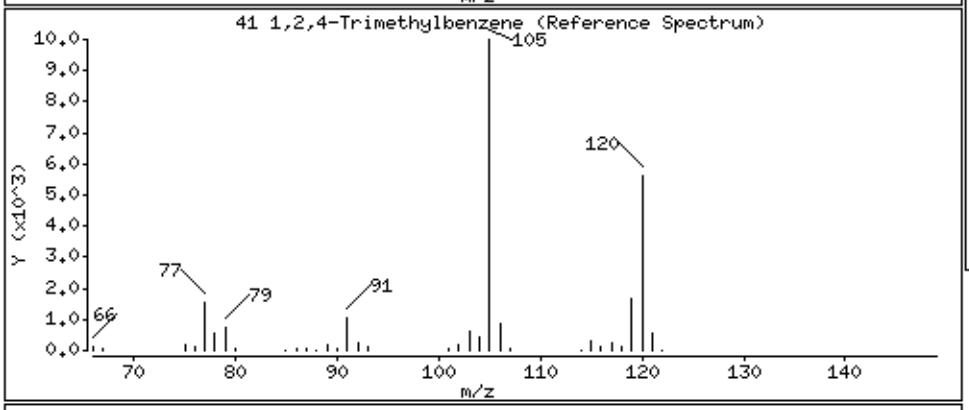
Concentration: 0.198585 ug

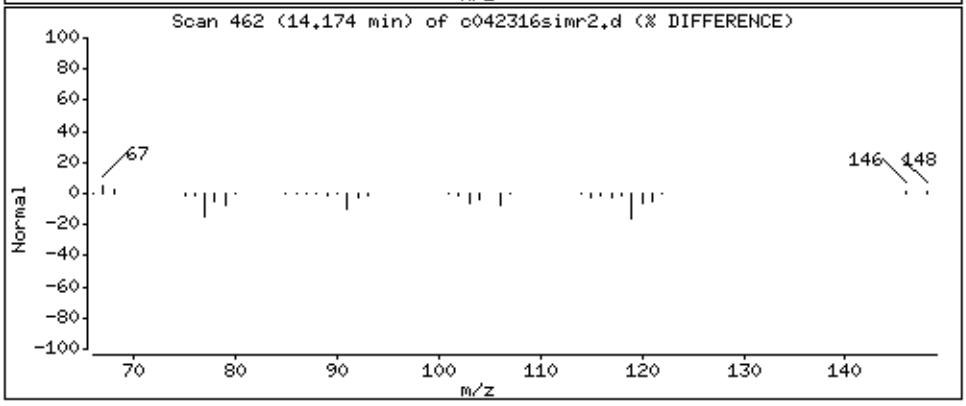












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Summary of Detected Compounds
VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: 5215-CS01-0415

Lab ID#: 1504309R2-09A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Benzene	0.40	0.48	0.60	0.71
1,2-Dichloroethane	0.10	0.12	0.041 J	0.051 J
Toluene	0.10	0.13	1.4	1.8
Tetrachloroethene	0.10	0.16	0.055 J	0.089 J
Ethyl Benzene	0.10	0.14	0.21	0.30
m,p-Xylene	0.10	0.14	0.70	0.96
o-Xylene	0.10	0.15	0.22	0.32
1,2,4-Trimethylbenzene	0.10	0.19	0.19	0.36
1,3,5-Trimethylbenzene	0.10	0.18	0.055 CJ	0.099 CJ

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Client Sample ID: 5215-CS01-0415

Lab ID#: 1504309R2-09A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**c042317simr1**	**Date of Collection: 4/17/15 12:55:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/15 03:52 PM**	
		Date of Extraction: 4/23/15	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
1,1,1-Trichloroethane	0.10	0.15	Not Detected	Not Detected
Benzene	0.40	0.48	0.60	0.71
1,2-Dichloroethane	0.10	0.12	0.041 J	0.051 J
Trichloroethene	0.10	0.14	Not Detected	Not Detected
Toluene	0.10	0.13	1.4	1.8
Tetrachloroethene	0.10	0.16	0.055 J	0.089 J
Ethyl Benzene	0.10	0.14	0.21	0.30
m,p-Xylene	0.10	0.14	0.70	0.96
o-Xylene	0.10	0.15	0.22	0.32
Naphthalene	0.10	0.38	Not Detected	Not Detected
1,1-Dichloroethane	0.10	0.15	Not Detected C	Not Detected C
1,1-Dichloroethene	0.40	0.50	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.15	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.32	Not Detected C	Not Detected C
1,1,2-Trichloroethane	0.10	0.14	Not Detected C	Not Detected C
1,2,4-Trimethylbenzene	0.10	0.19	0.19	0.36
1,3,5-Trimethylbenzene	0.10	0.18	0.055 CJ	0.099 CJ
Vinyl Chloride	0.40	0.42	Not Detected C	Not Detected C

J = Estimated value.
C = Estimated concentration due to calculated sampling rate.

Temperature = 89.8F , duration time = 10155 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	109	70-130

Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msdc.i/23Apr2015.b/c042317simr1.d
Lab Smp Id: 1504309R1-09A
Inj Date : 23-APR-2015 15:52
Operator : gm Inst ID: msdc.i
Smp Info : ;1504309R1-09A;
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Meth Date : 10-May-2015 12:15 gmash Quant Type: ISTD
Cal Date : 15-APR-2015 11:23 Cal File: c041509sim.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Gilbane.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
2	Vinyl Chloride	62	Compound Not Detected.					
4	1,1-Dichloroethene-CCC	96	Compound Not Detected.					
8	trans-1,2-Dichloroethene	96	Compound Not Detected.					
11	1,1-Dichloroethane-SPCC	63	Compound Not Detected.					
14	cis-1,2-Dichloroethene	96	Compound Not Detected.					
17	1,1,1-Trichloroethane	97	Compound Not Detected.					
19	Benzene	78	8.634	8.603	(0.785)	19164	0.29910	0.598202
20	1,2-Dichloroethane	62	8.696	8.696	(0.791)	608	0.02065	0.0413023(a)
22	Trichloroethene	130	Compound Not Detected.					
$ 25	Toluene-d8	98	10.656	10.656	(0.969)	330767	5.44688	10.8938
26	Toluene-CCC	92	10.729	10.728	(0.976)	37585	0.71653	1.43305
* 27	2-Fluorotoluene	109	10.994	10.993	(1.000)	368927	5.00000	
28	1,1,2-Trichloroethane	97	Compound Not Detected.					
29	Tetrachloroethene	164	11.331	11.331	(1.031)	667	0.02764	0.0552806(a)
31	Ethylbenzene-CCC	106	12.377	12.377	(1.126)	3572	0.10590	0.211805
33	m,p-Xylene	106	12.506	12.506	(1.138)	16607	0.35186	0.703713

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
34 o-Xylene	106	12.956	12.956	(1.178)	4130	0.11010	0.220208
40 1,3,5-Trimethylbenzene	105	13.834	13.834	(1.258)	2344	0.02769	0.0553725(aM)
41 1,2,4-Trimethylbenzene	105	14.174	14.174	(1.289)	10117	0.09474	0.189481
48 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Report Date: 10-May-2015 12:28

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042317simr1.d
Lab Smp Id: 1504309R1-09A
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

Calibration Date: 23-APR-2015
Calibration Time: 09:09
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	324554	162277	649108	368927	13.67

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	10.99	10.49	11.49	10.99	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 23Apr2015
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 1504309R1-09A
Level: MED Operator: gm
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS-CM.spk Quant Type: ISTD
Sublist File: Gilbane.sub
Method File: /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 25 Toluene-d8	10.0000	10.8938	108.94	70-130

Data File: /chem/msdc.i/23Apr2015.b/c042317simr1.d

Date : 23-APR-2015 15:52

Client ID:

Instrument: msdc.i

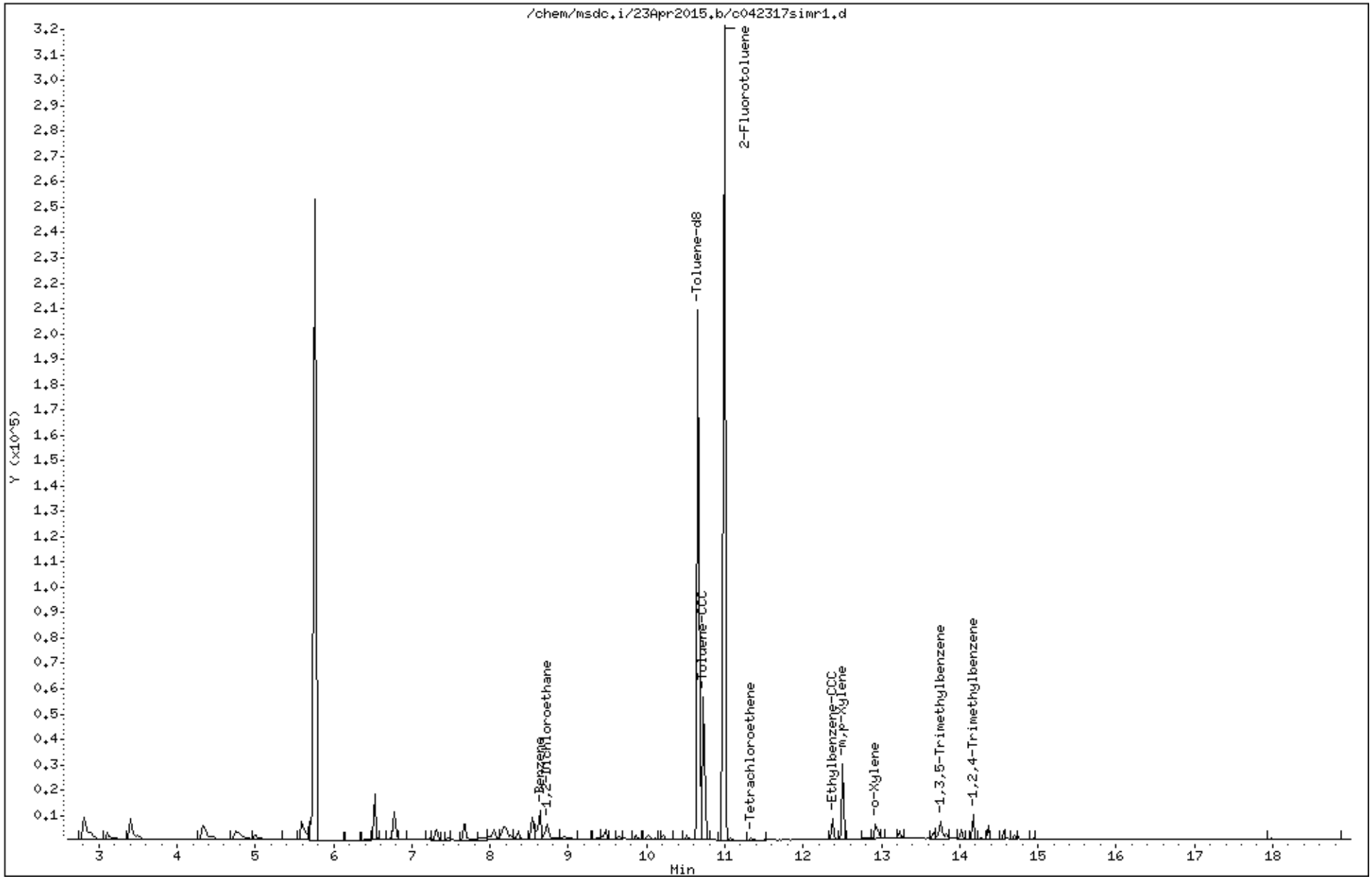
Sample Info: ;1504309R1-09A;

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdc.i/23Apr2015.b/c042317simr1.d

Date : 23-APR-2015 15:52

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-09A;

Volume Injected (uL): 1.0

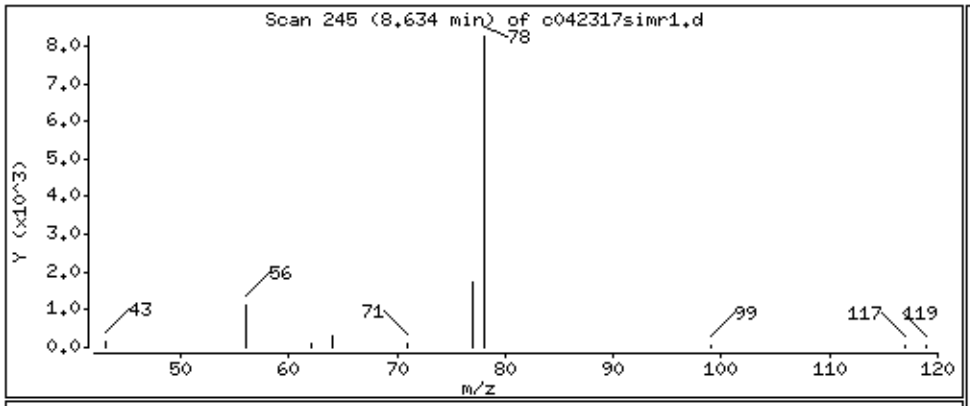
Operator: gm

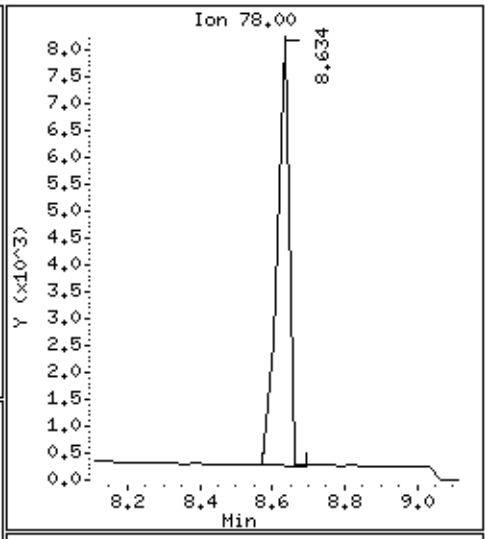
Column phase: DB-5.625

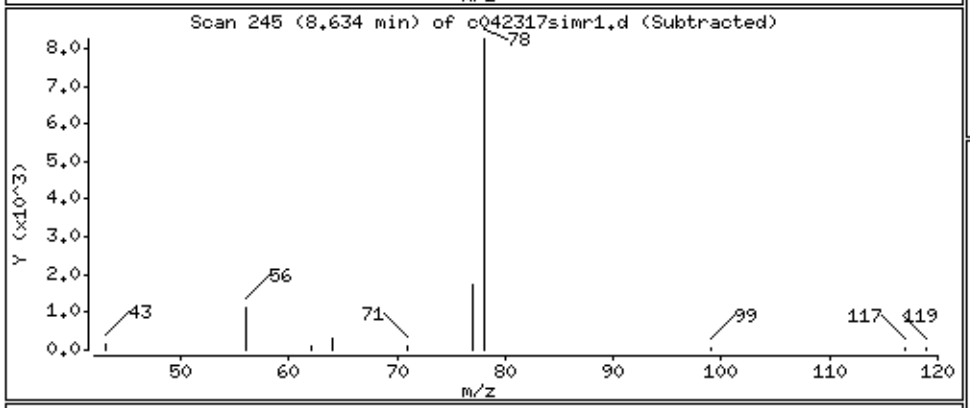
Column diameter: 0.25

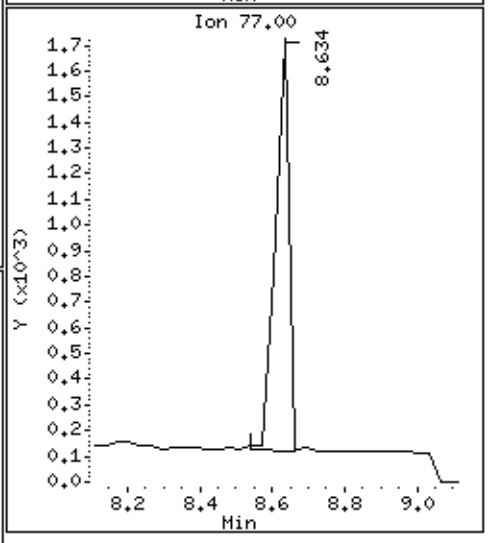
19 Benzene

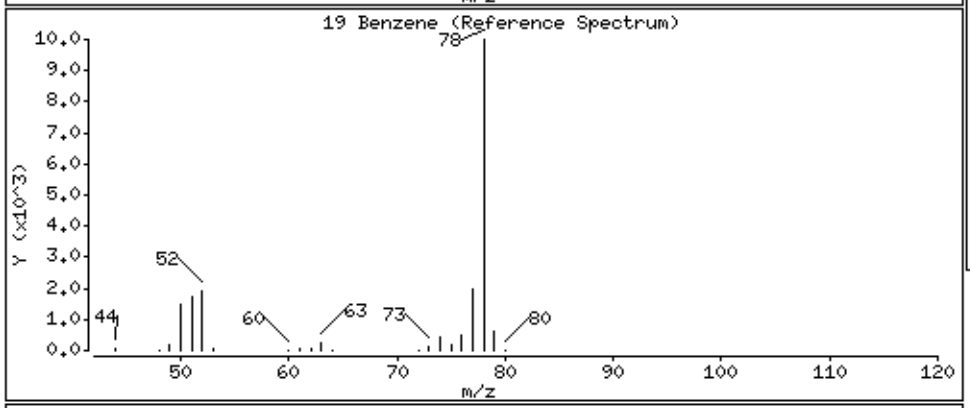
Concentration: 0.598202 ug

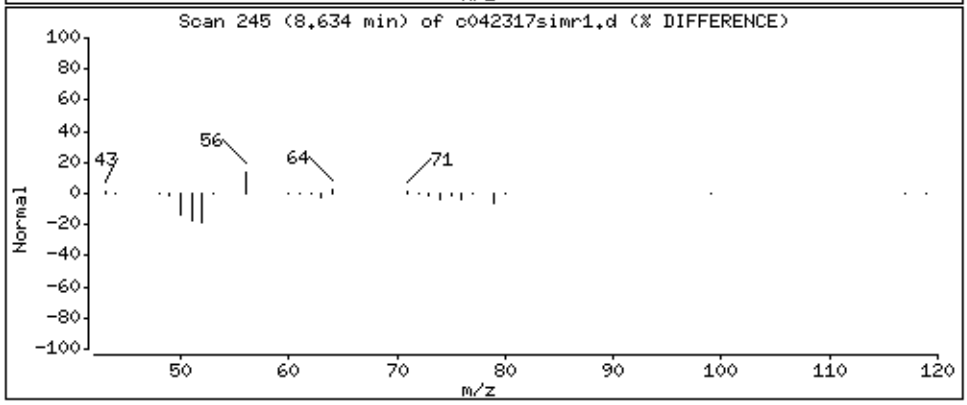












Data File: /chem/msdc.i/23Apr2015.b/c042317simr1.d

Date : 23-APR-2015 15:52

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-09A;

Volume Injected (uL): 1.0

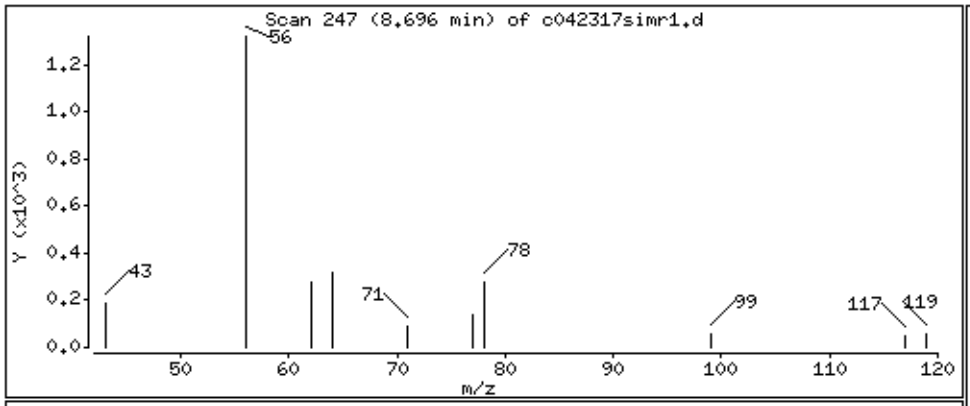
Operator: gm

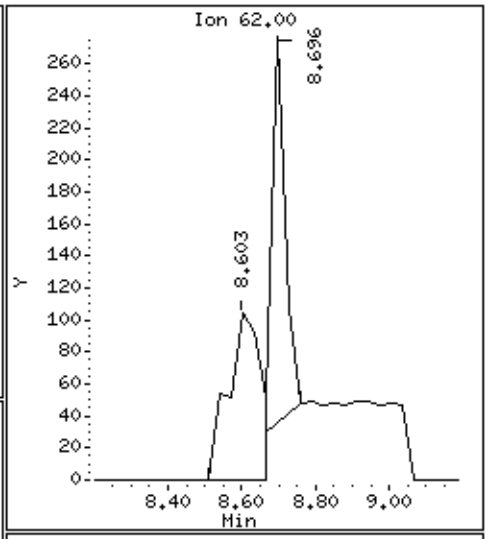
Column phase: DB-5.625

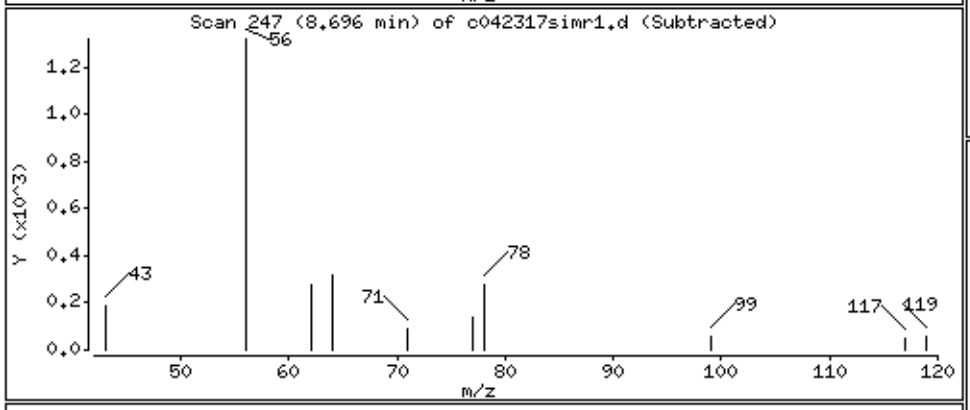
Column diameter: 0.25

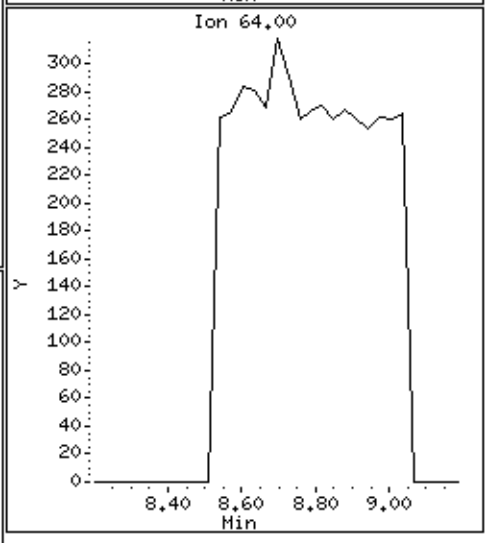
20 1,2-Dichloroethane

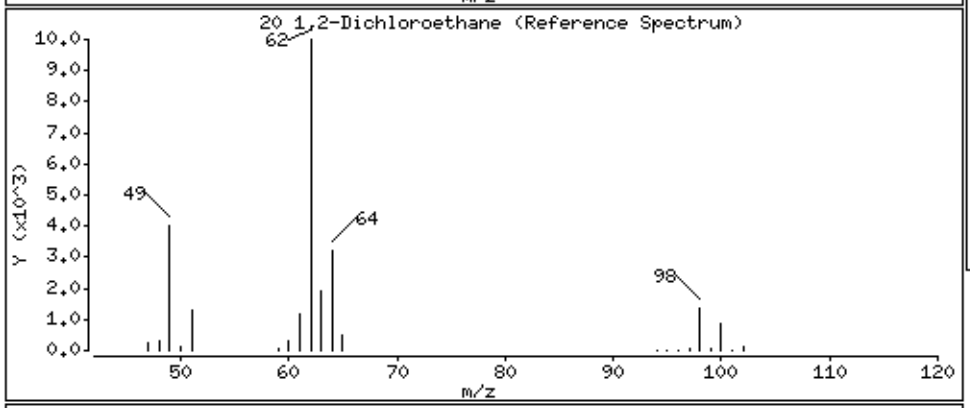
Concentration: 0.0413023 ug

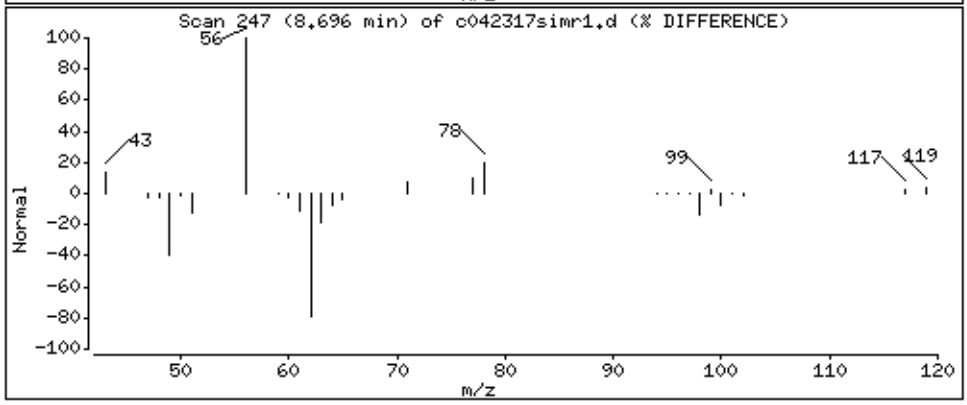












Data File: /chem/msdc.i/23Apr2015.b/c042317simr1.d

Date : 23-APR-2015 15:52

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-09A;

Volume Injected (uL): 1.0

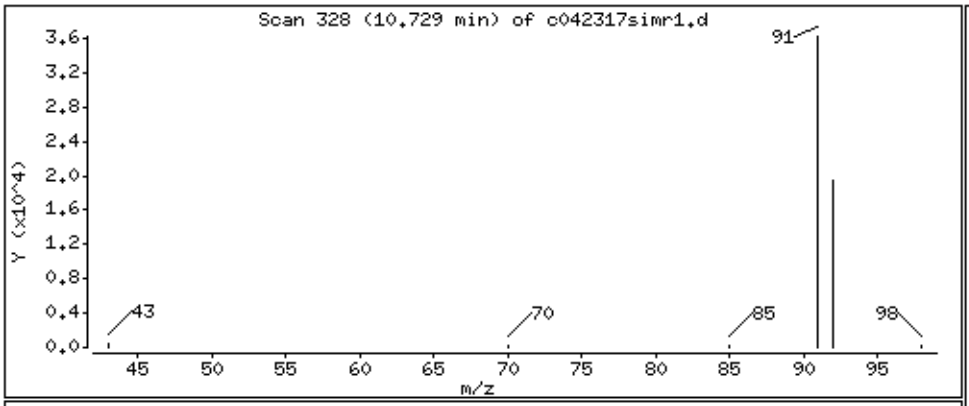
Operator: gm

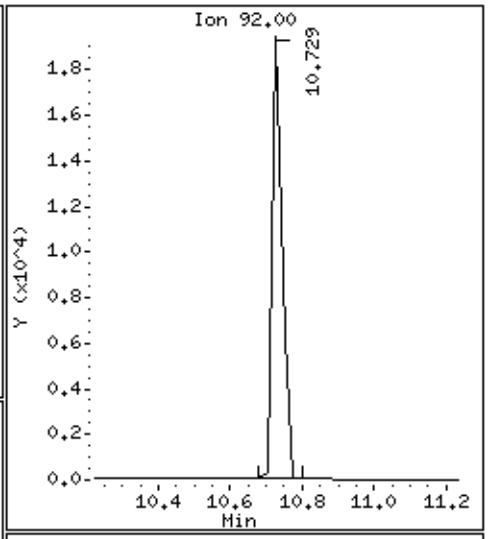
Column phase: DB-5.625

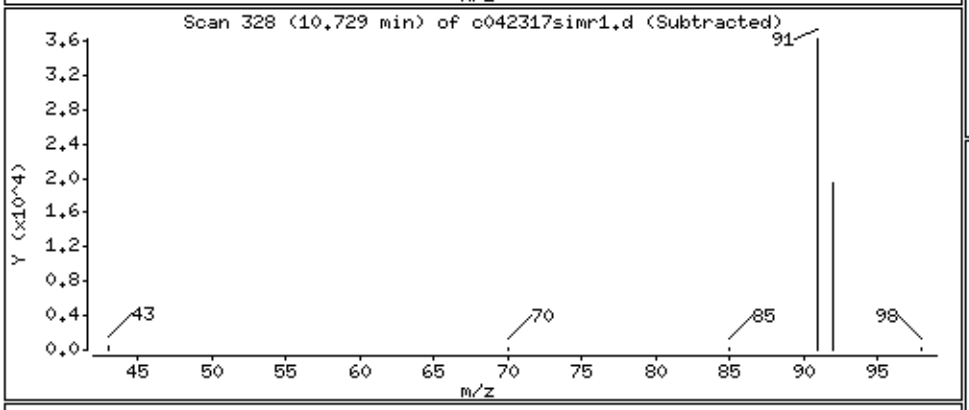
Column diameter: 0.25

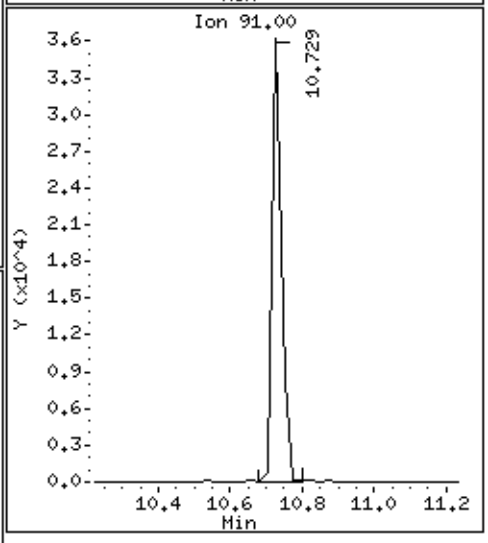
26 Toluene-CCC

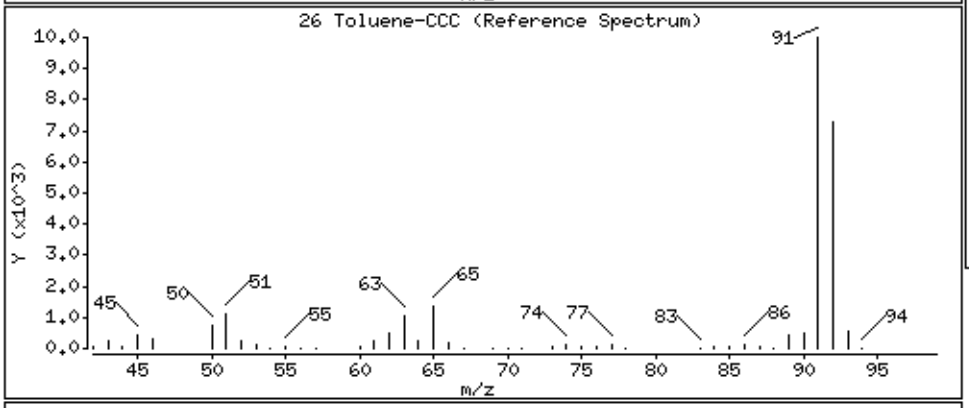
Concentration: 1.43305 ug

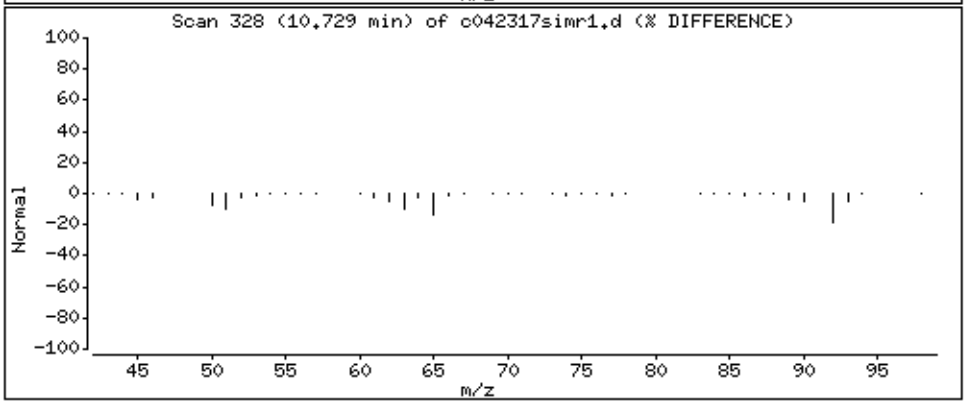












Data File: /chem/msdc.i/23Apr2015.b/c042317simr1.d

Date : 23-APR-2015 15:52

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-09A;

Volume Injected (uL): 1.0

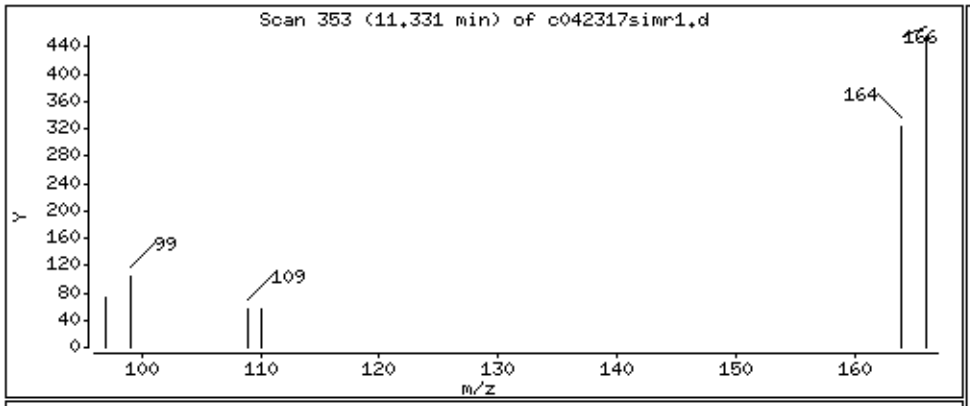
Operator: gm

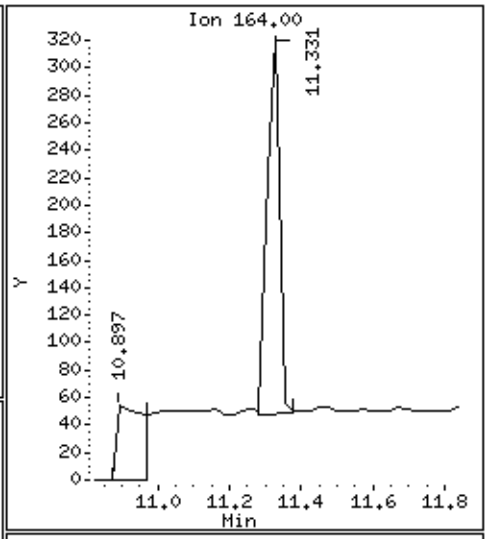
Column phase: DB-5.625

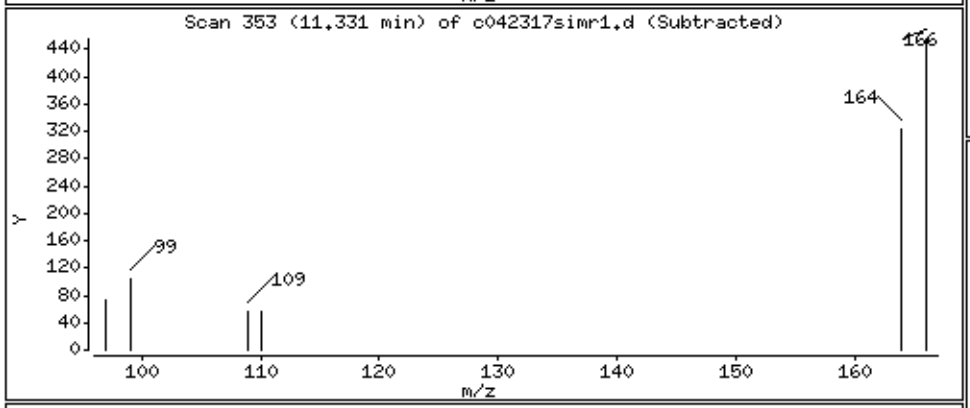
Column diameter: 0.25

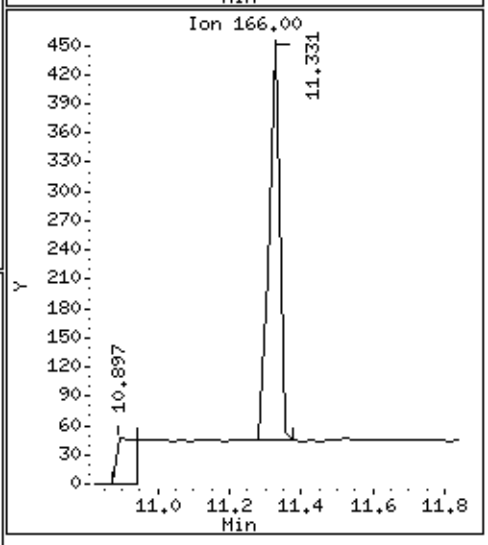
29 Tetrachloroethene

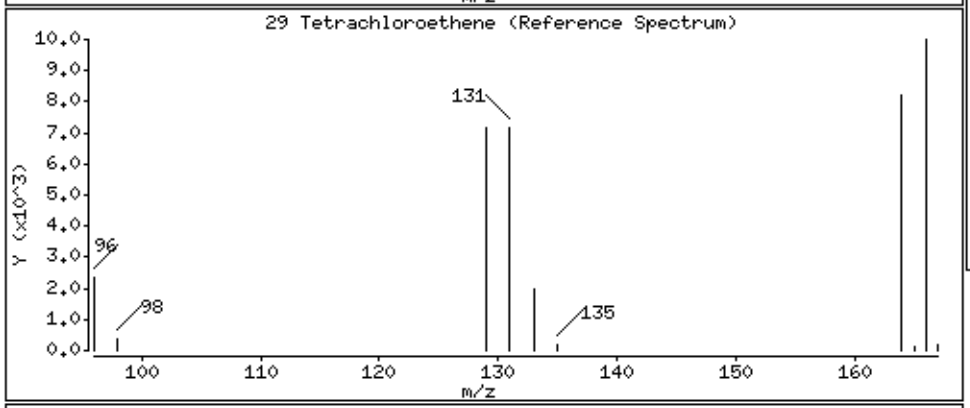
Concentration: 0.0552806 ug

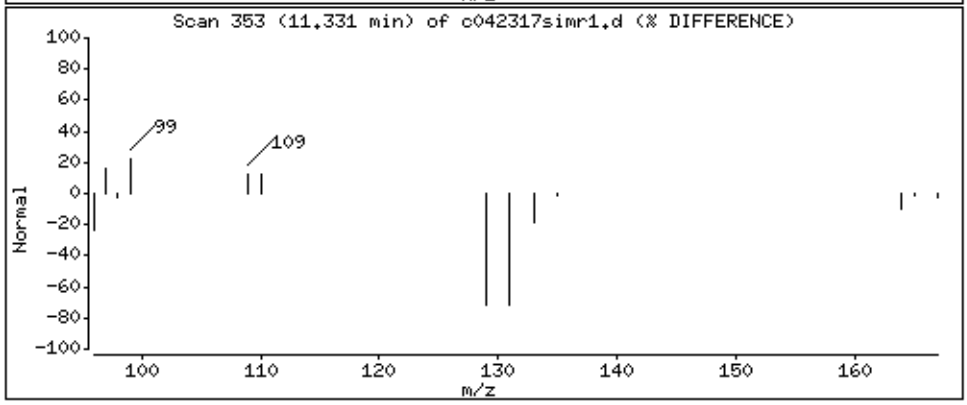












Data File: /chem/msdc.i/23Apr2015.b/c042317simr1.d

Date : 23-APR-2015 15:52

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-09A;

Volume Injected (uL): 1.0

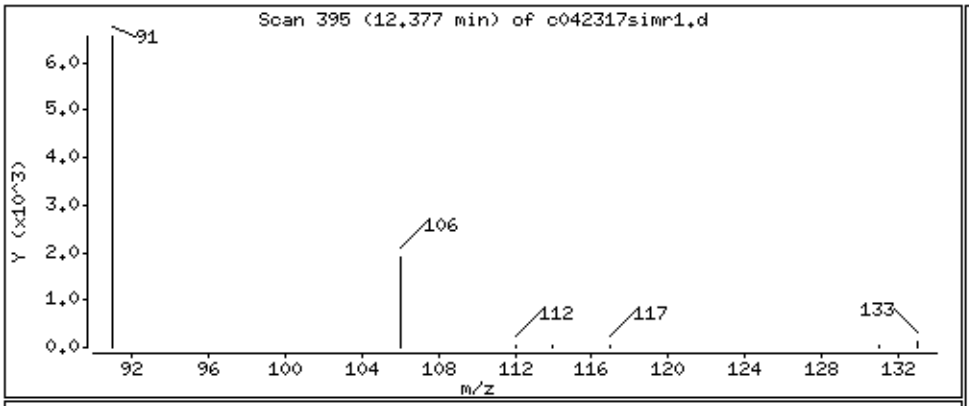
Operator: gm

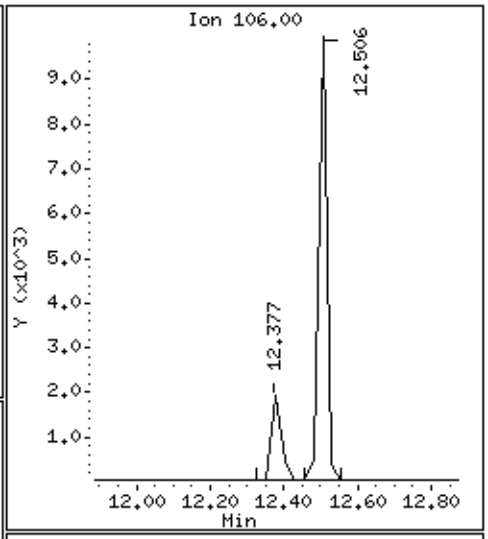
Column phase: DB-5.625

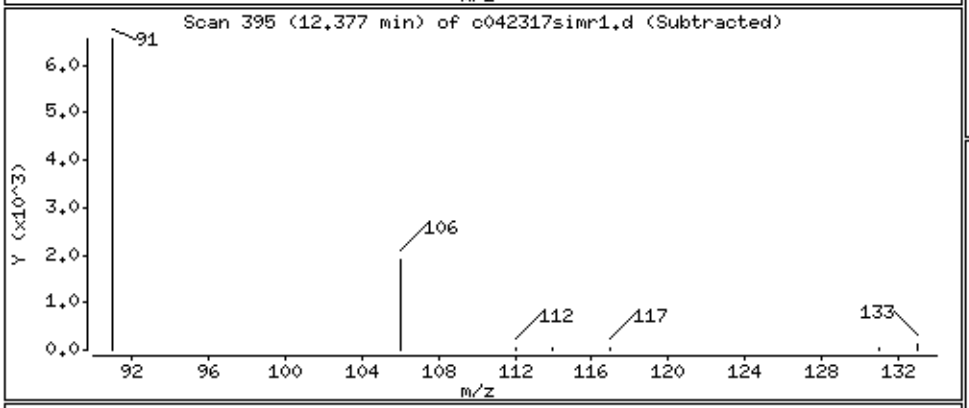
Column diameter: 0.25

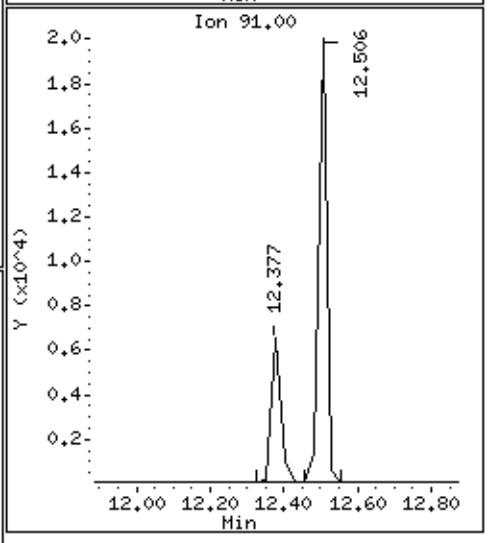
31 Ethylbenzene-CCC

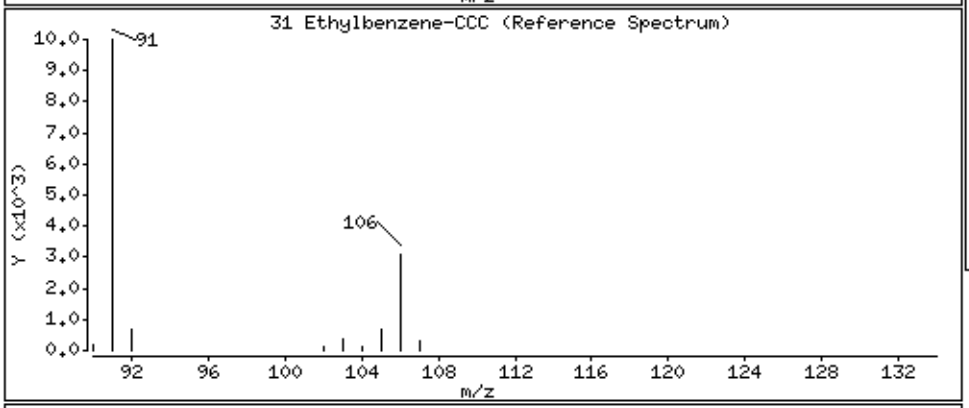
Concentration: 0.211805 ug

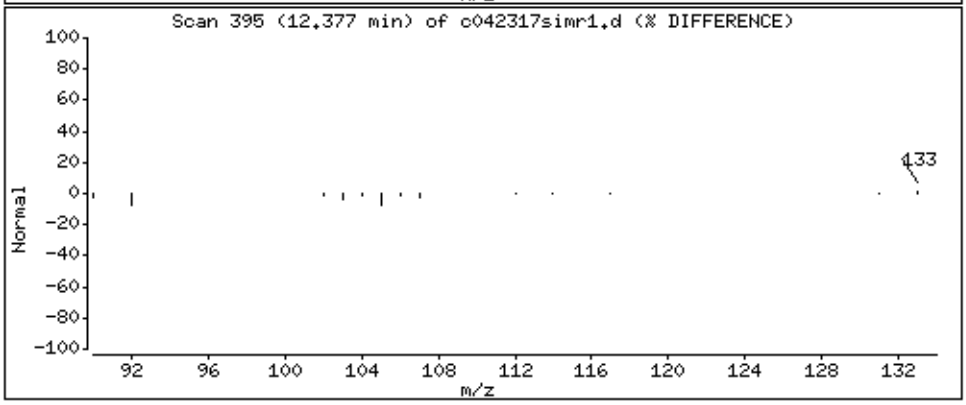












Data File: /chem/msdc.i/23Apr2015.b/c042317simr1.d

Date : 23-APR-2015 15:52

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-09A;

Volume Injected (uL): 1.0

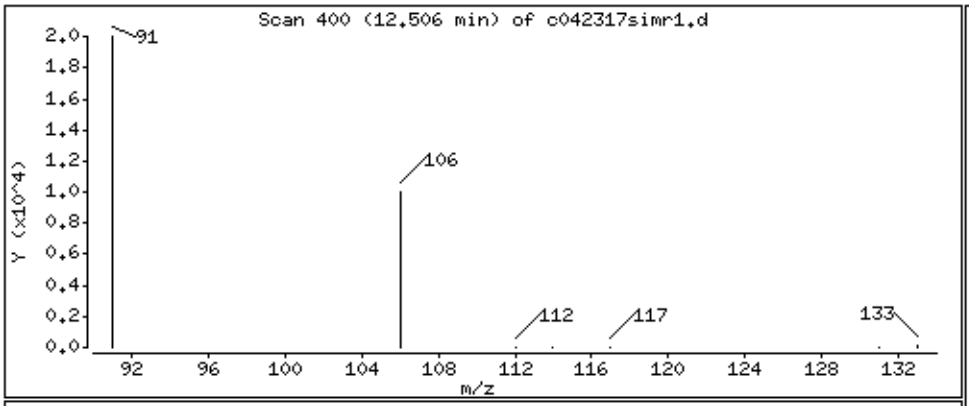
Operator: gm

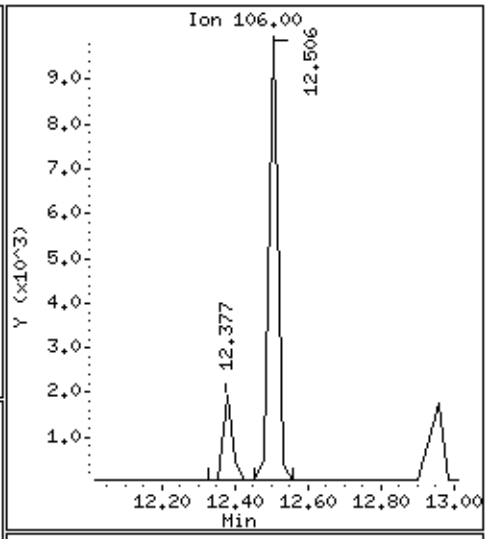
Column phase: DB-5.625

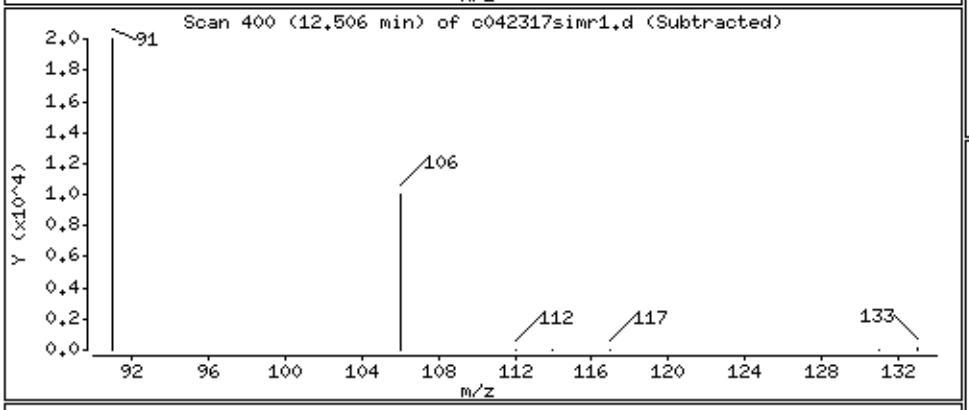
Column diameter: 0.25

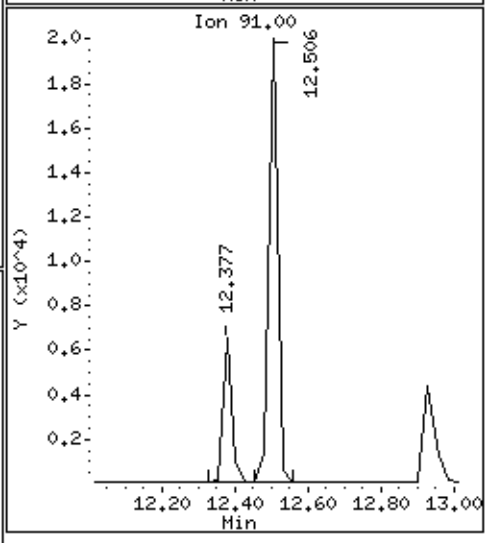
33 m,p-Xylene

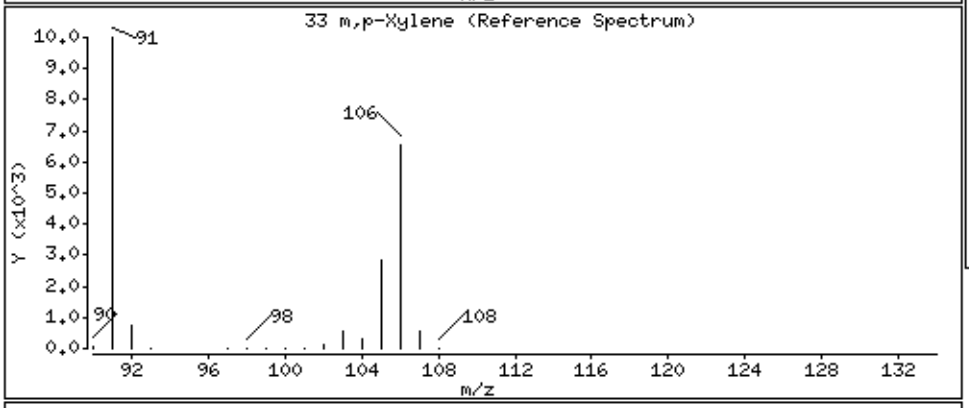
Concentration: 0.703713 ug

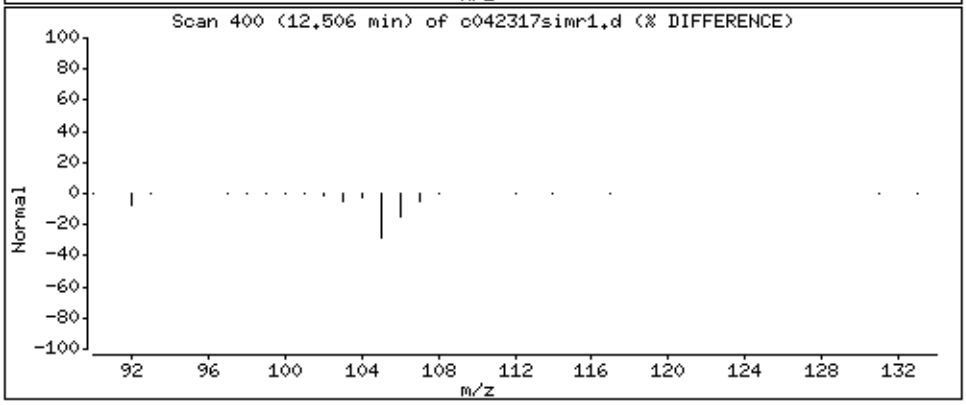












Data File: /chem/msdc.i/23Apr2015.b/c042317simr1.d

Date : 23-APR-2015 15:52

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-09A;

Volume Injected (uL): 1.0

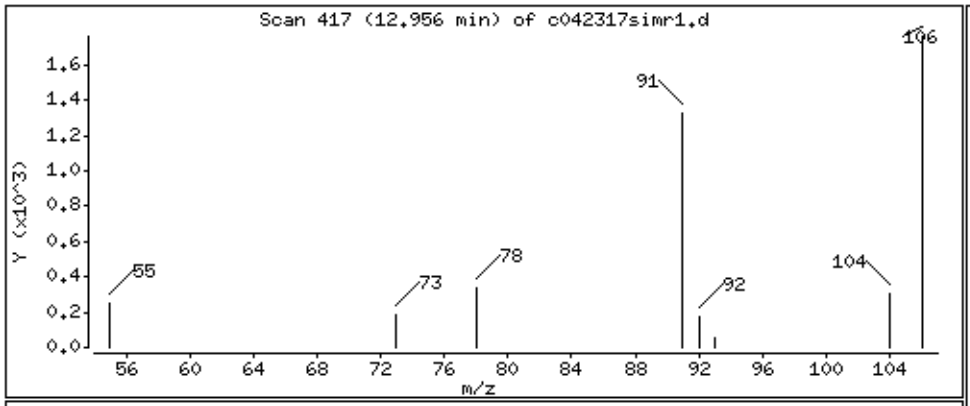
Operator: gm

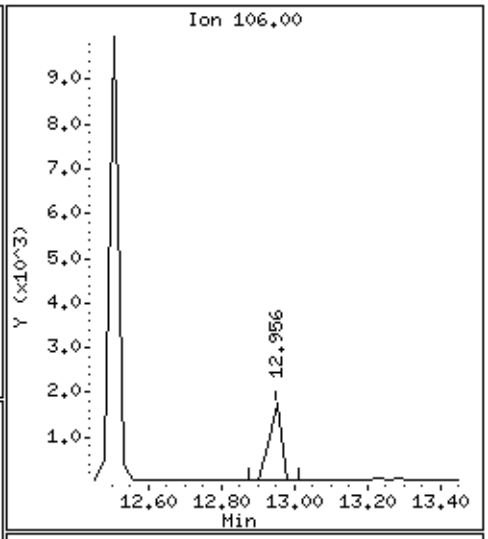
Column phase: DB-5.625

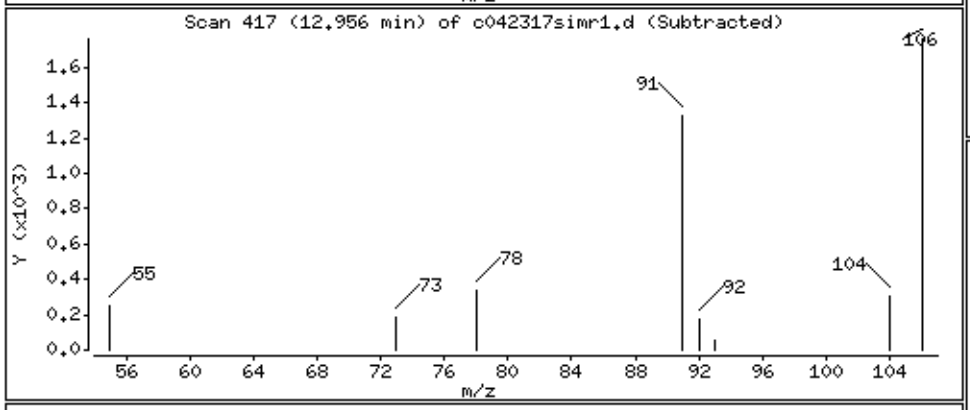
Column diameter: 0.25

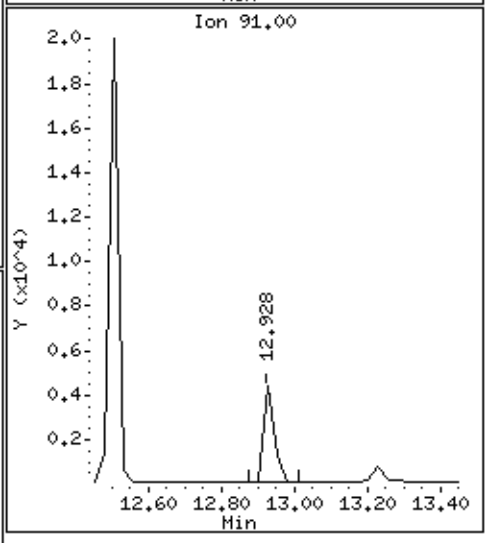
34 o-Xylene

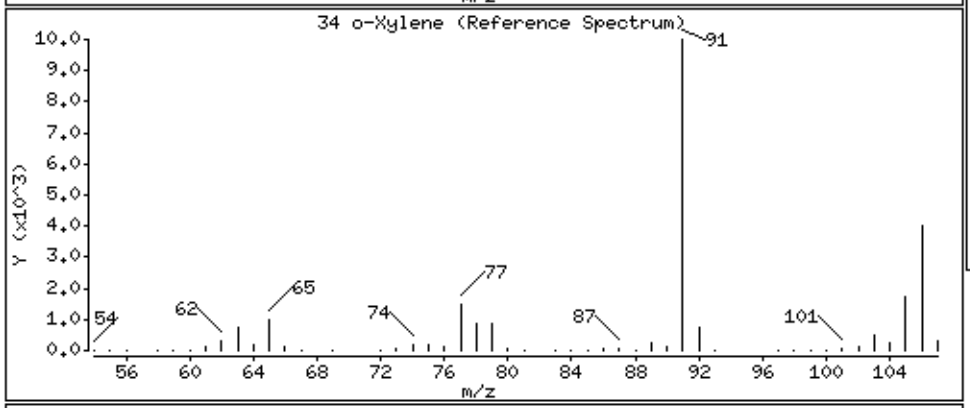
Concentration: 0.220208 ug

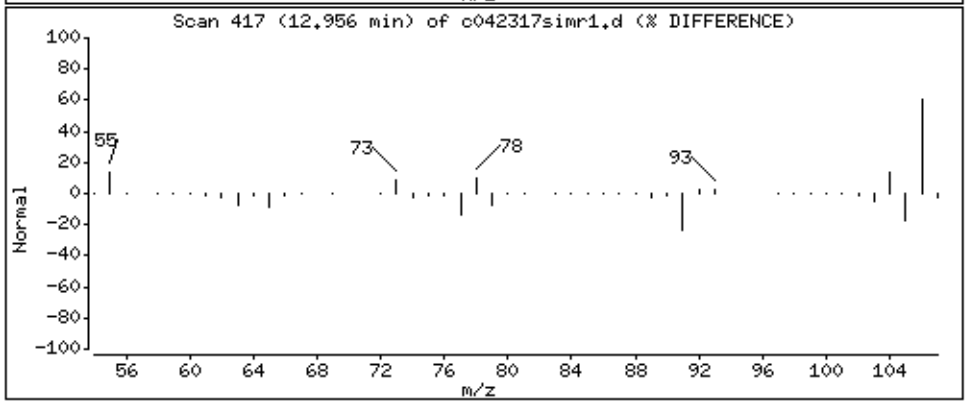












Data File: /chem/msdc.i/23Apr2015.b/c042317simr1.d

Date : 23-APR-2015 15:52

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-09A;

Volume Injected (uL): 1.0

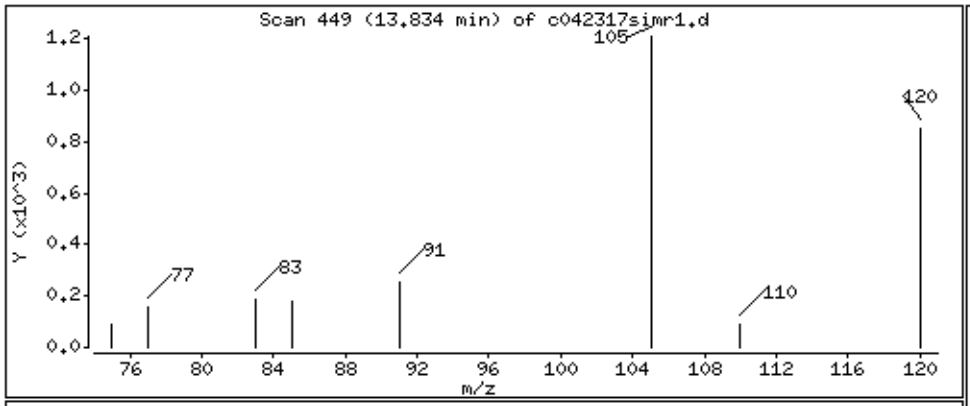
Operator: gm

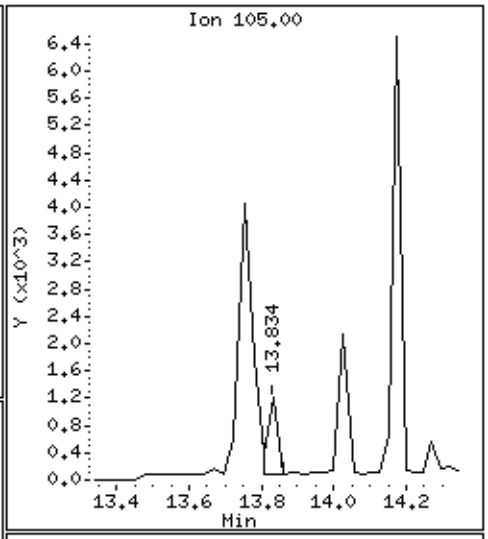
Column phase: DB-5.625

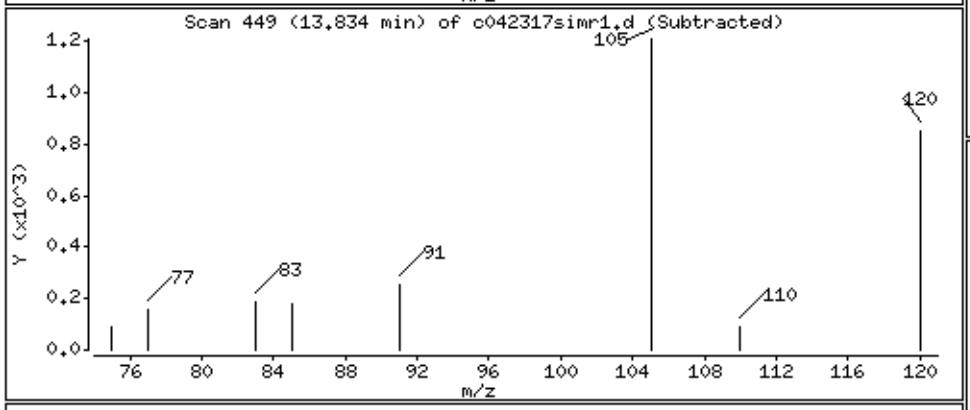
Column diameter: 0.25

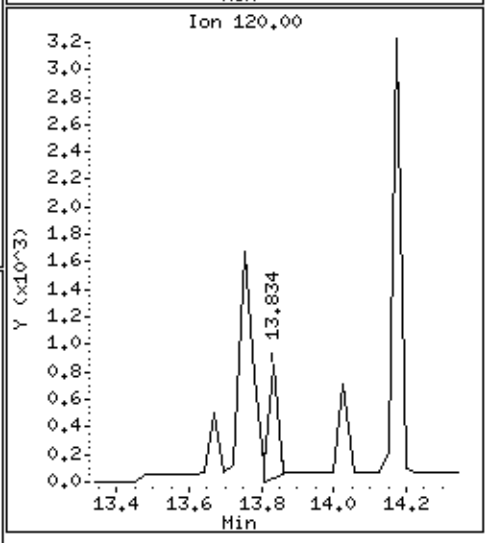
40 1,3,5-Trimethylbenzene

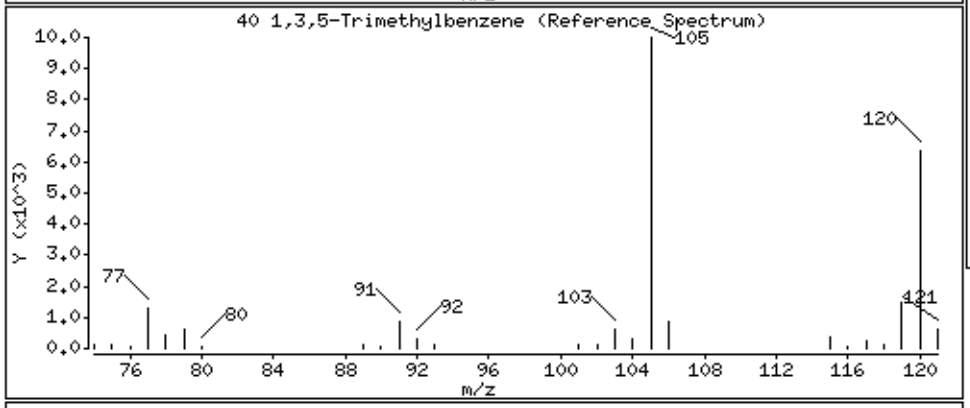
Concentration: 0.0553725 ug

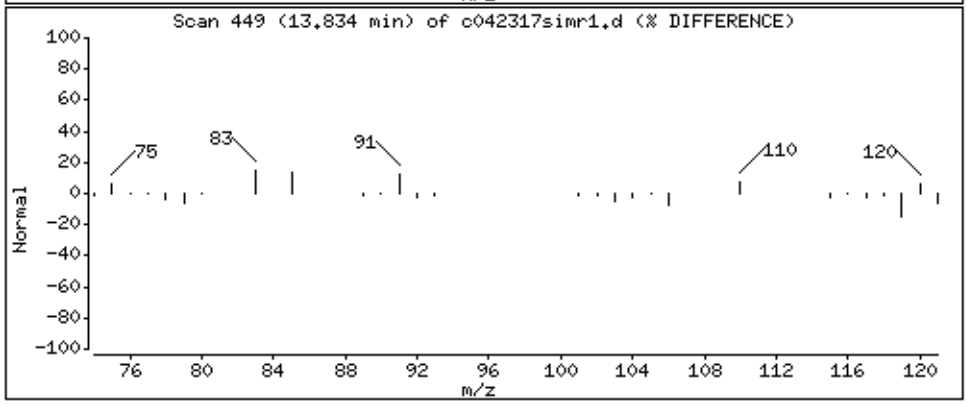












Data File: /chem/msdc.i/23Apr2015.b/c042317simr1.d

Date : 23-APR-2015 15:52

Client ID:

Instrument: msdc.i

Sample Info: ;1504309R1-09A;

Volume Injected (uL): 1.0

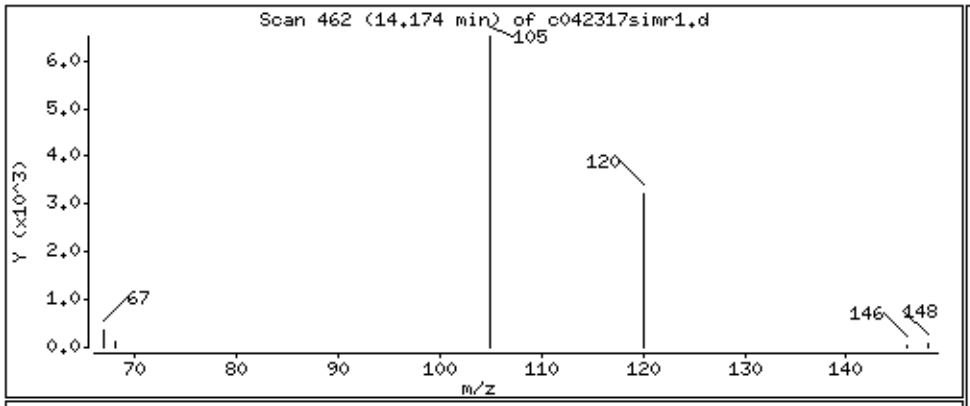
Operator: gm

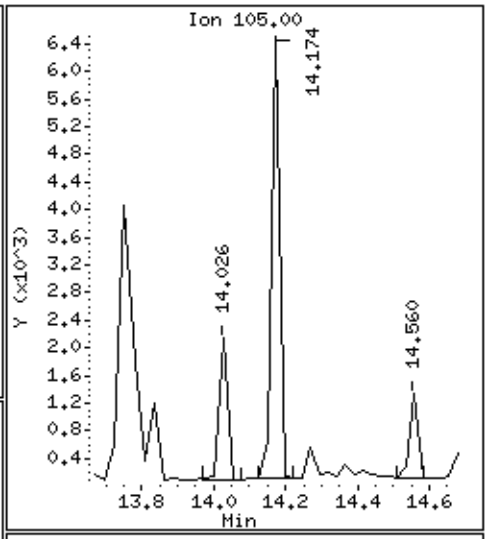
Column phase: DB-5.625

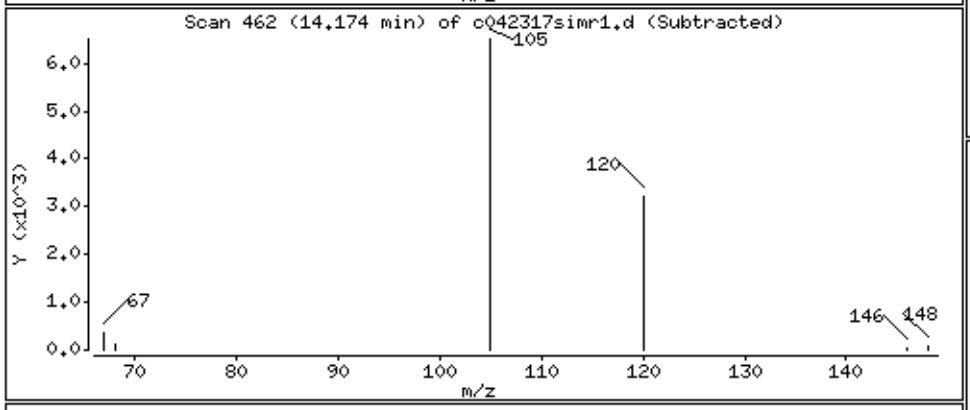
Column diameter: 0.25

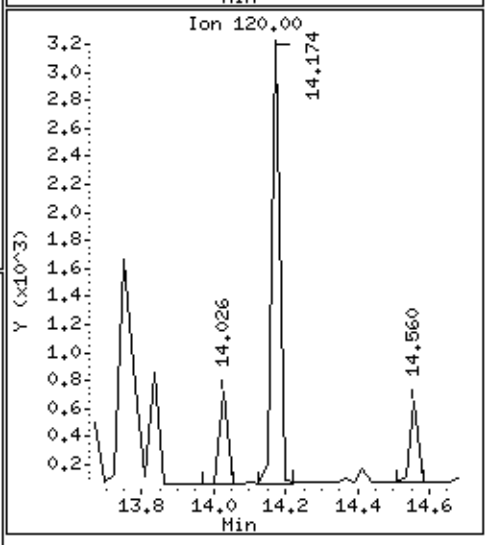
41 1,2,4-Trimethylbenzene

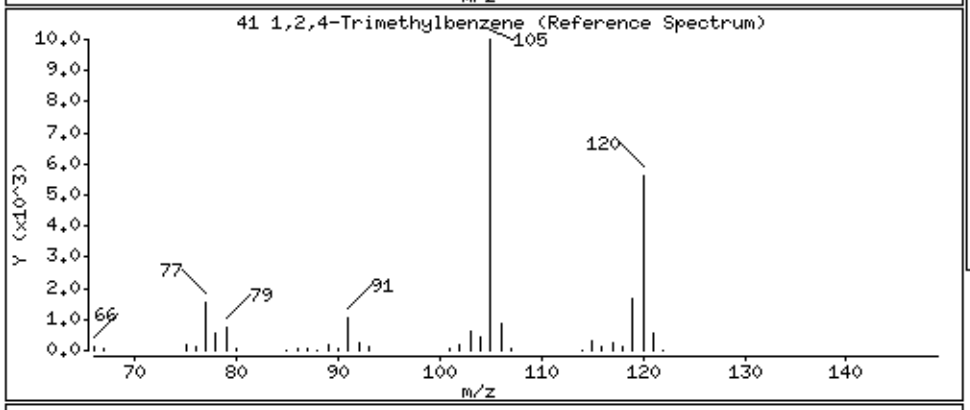
Concentration: 0.189481 ug

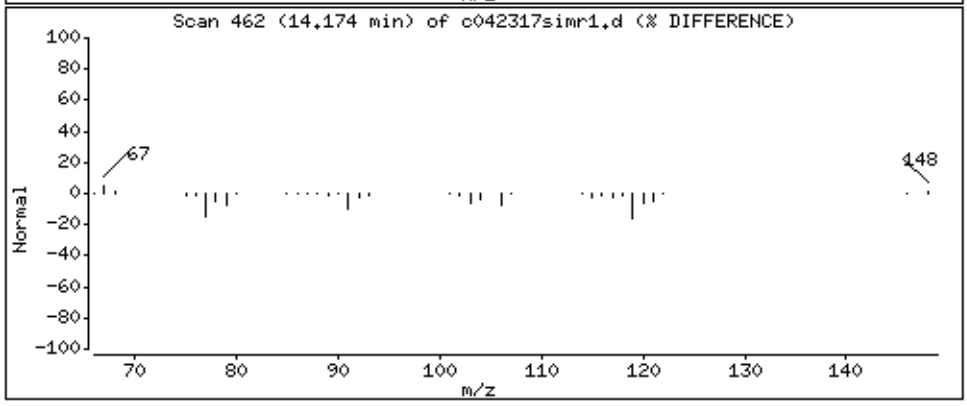












QC Results and Raw Data

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1504309R2-10A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**c042306simr1**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/15 10:57 AM**	
		Date of Extraction: 4/23/15	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
1,1,1-Trichloroethane	0.10	0.15	Not Detected	Not Detected
Benzene	0.40	0.48	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.12	Not Detected	Not Detected
Trichloroethene	0.10	0.14	Not Detected	Not Detected
Toluene	0.10	0.13	Not Detected	Not Detected
Tetrachloroethene	0.10	0.16	Not Detected	Not Detected
Ethyl Benzene	0.10	0.14	Not Detected	Not Detected
m,p-Xylene	0.10	0.14	Not Detected	Not Detected
o-Xylene	0.10	0.15	Not Detected	Not Detected
Naphthalene	0.10	0.38	0.052 J	0.20 J
1,1-Dichloroethane	0.10	0.15	Not Detected C	Not Detected C
1,1-Dichloroethene	0.40	0.50	Not Detected C	Not Detected C
cis-1,2-Dichloroethene	0.10	0.15	Not Detected C	Not Detected C
trans-1,2-Dichloroethene	0.20	0.32	Not Detected C	Not Detected C
1,1,2-Trichloroethane	0.10	0.14	Not Detected C	Not Detected C
1,2,4-Trimethylbenzene	0.10	0.19	Not Detected	Not Detected
1,3,5-Trimethylbenzene	0.10	0.18	Not Detected C	Not Detected C
Vinyl Chloride	0.40	0.42	Not Detected C	Not Detected C

J = Estimated value.
C = Estimated concentration due to calculated sampling rate.

Temperature = 89.8F , duration time = 10155 minutes.
Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	115	70-130

Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msdc.i/23Apr2015.b/c042306simr1.d
Lab Smp Id: 1504275/309/364/379 Client Smp ID: LAB BLANK
Inj Date : 23-APR-2015 10:57
Operator : gm Inst ID: msdc.i
Smp Info : ;1504275/309/364/379;LAB BLANK
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Meth Date : 10-May-2015 12:15 gmash Quant Type: ISTD
Cal Date : 15-APR-2015 11:23 Cal File: c041509sim.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Gilbane.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
	2 Vinyl Chloride	62	Compound Not Detected.					
	4 1,1-Dichloroethene-CCC	96	Compound Not Detected.					
	8 trans-1,2-Dichloroethene	96	Compound Not Detected.					
	11 1,1-Dichloroethane-SPCC	63	Compound Not Detected.					
	14 cis-1,2-Dichloroethene	96	Compound Not Detected.					
	17 1,1,1-Trichloroethane	97	Compound Not Detected.					
	19 Benzene	78	Compound Not Detected.					
	20 1,2-Dichloroethane	62	Compound Not Detected.					
	22 Trichloroethene	130	Compound Not Detected.					
$	25 Toluene-d8	98	10.656	10.656	(0.969)	297318	5.73118	11.4624
	26 Toluene-CCC	92	Compound Not Detected.					
*	27 2-Fluorotoluene	109	10.993	10.993	(1.000)	315169	5.00000	
	28 1,1,2-Trichloroethane	97	Compound Not Detected.					
	29 Tetrachloroethene	164	Compound Not Detected.					
	31 Ethylbenzene-CCC	106	Compound Not Detected.					
	33 m,p-Xylene	106	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
34 o-Xylene	106	Compound Not Detected.					
40 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
41 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
48 Naphthalene	128	16.778	16.778	(1.526)	2957	0.02582	0.0516464(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Report Date: 10-May-2015 12:19

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042306simr1.d
Lab Smp Id: 1504275/309/364/379
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

Calibration Date: 23-APR-2015
Calibration Time: 09:09
Client Smp ID: LAB BLANK
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	324554	162277	649108	315169	-2.89

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	10.99	10.49	11.49	10.99	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 10-May-2015 12:19

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 23Apr2015
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 1504275/309/364/379 Client Smp ID: LAB BLANK
Level: MED Operator: gm
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS-CM.spk Quant Type: ISTD
Sublist File: Gilbane.sub
Method File: /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 25 Toluene-d8	10.0000	11.4624	114.62	70-130

Data File: /chem/msdc.i/23Apr2015.b/c042306simr1.d

Date : 23-APR-2015 10:57

Client ID: LAB BLANK

Instrument: msdc.i

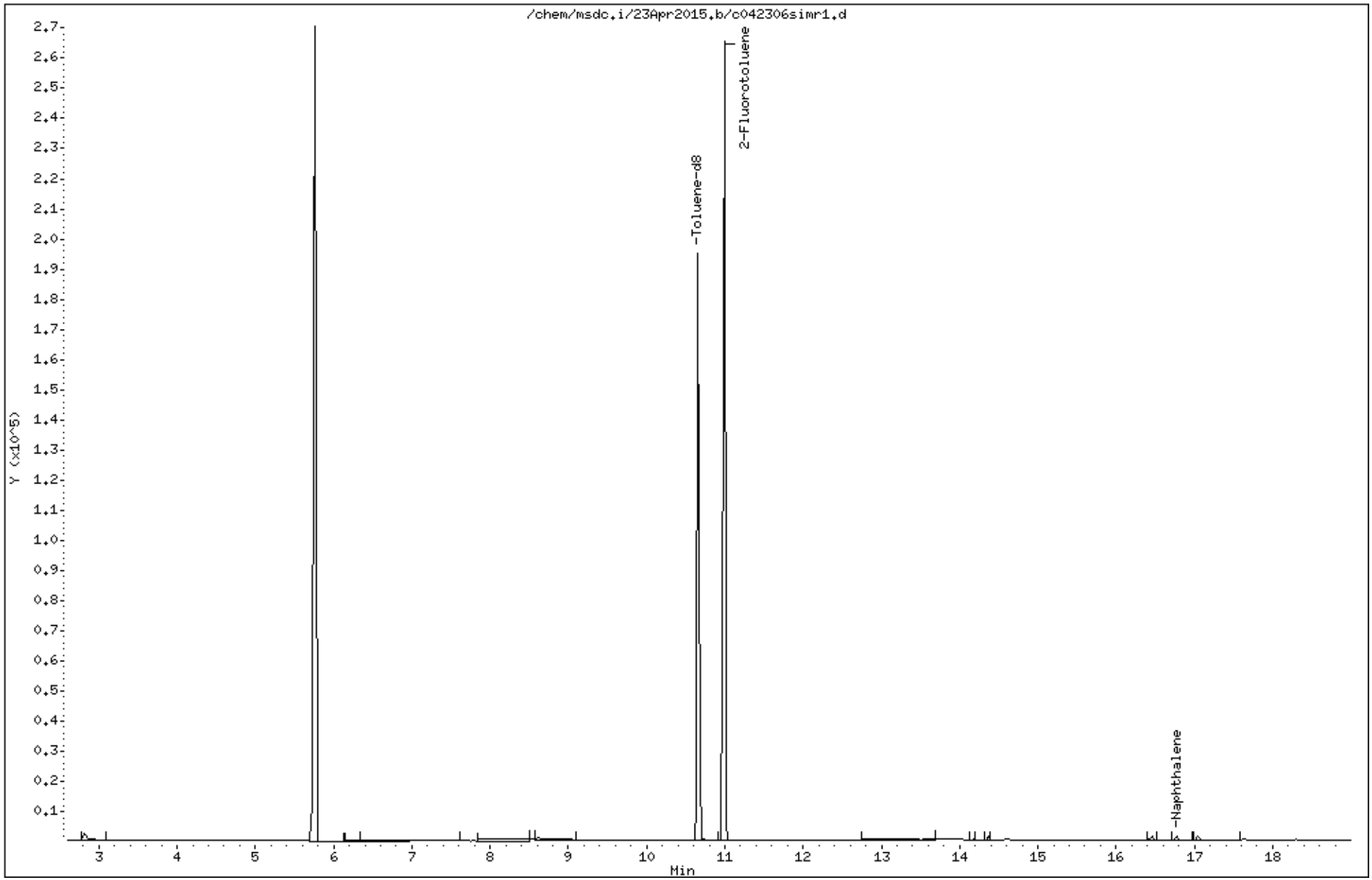
Sample Info: ;1504275/309/364/379;LAB BLANK

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdc.i/23Apr2015.b/c042306simr1.d

Date : 23-APR-2015 10:57

Client ID: LAB BLANK

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LAB BLANK

Volume Injected (uL): 1.0

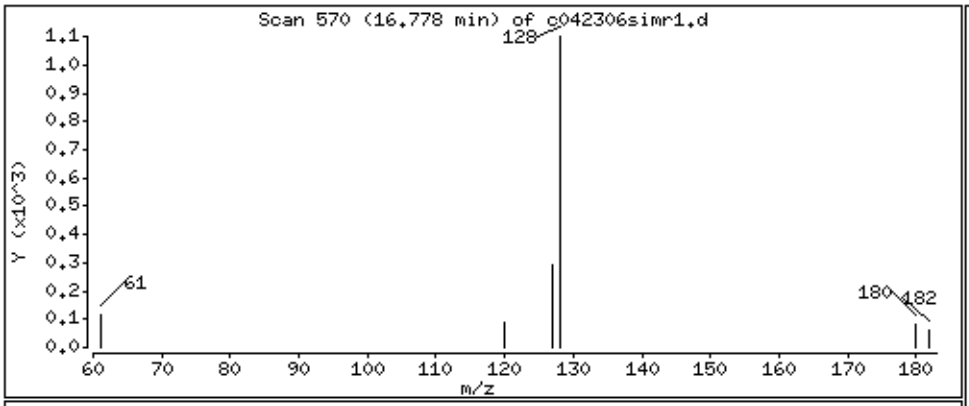
Operator: gm

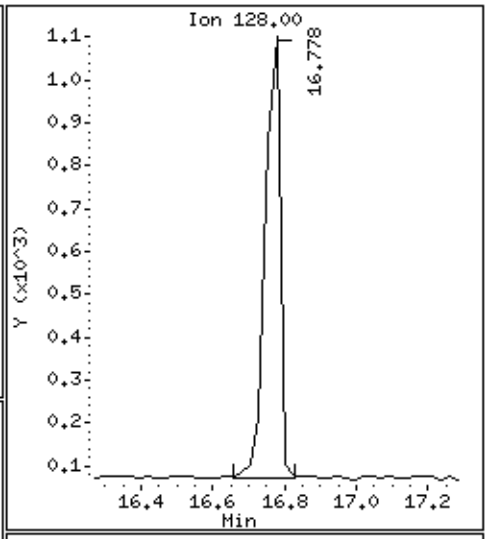
Column phase: DB-5.625

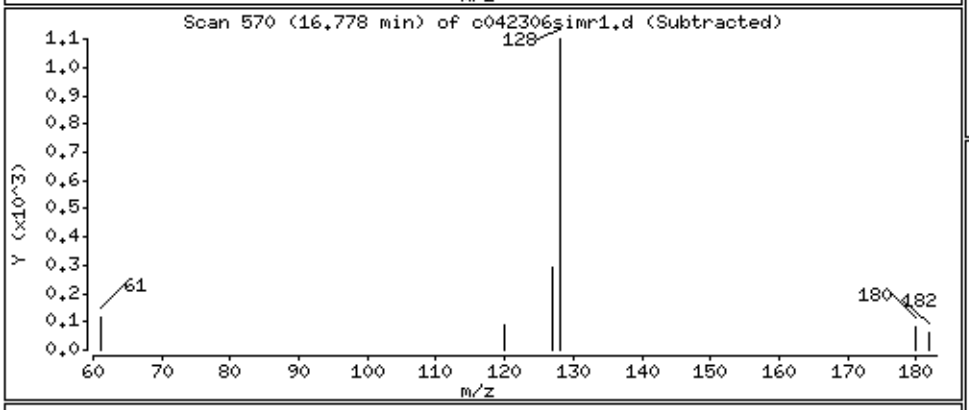
Column diameter: 0.25

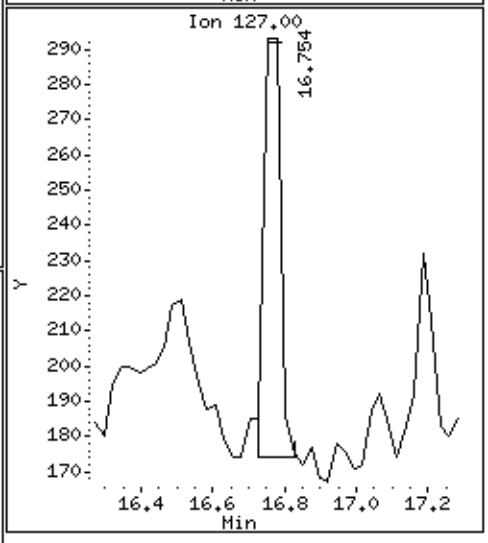
48 Naphthalene

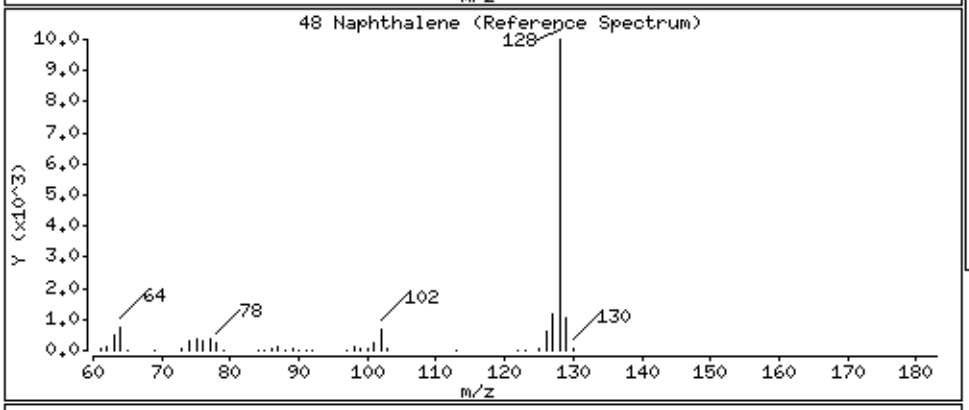
Concentration: 0.0516464 ug

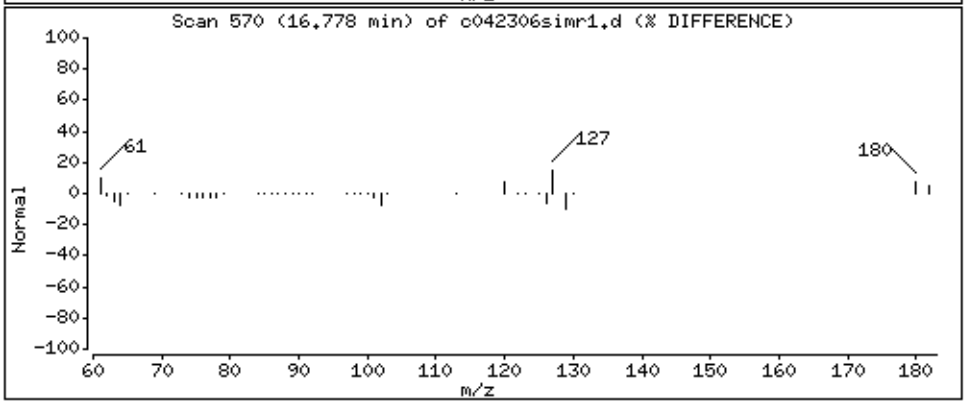












LEVEL-IV VALIDATABLE

VOCS BY PASSIVE SAMPLER - GC/MS

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 1504309R2

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		Toluene-d8	#		#		#		#	TOTAL OUT
01	5227-IA02-0415	112								0
02	5230-IA01-0415	113								0
03	5230-OA01-0415	109								0
04	5230-FB01-0415	113								0
05	5211-IA01-0415	115								0
06	5211-CS01-0415	112								0
07	5234-IA01-0415	112								0
08	5234-CS01-0415	110								0
09	5215-CS01-0415	109								0
10	Lab Blank	115								0
11	LCS	114								0
12	LCSD	115								0
13										0
14										0
15										0
16										0
17										0
18										0
19										0
20										0
21										0
22										0
23										0
24										0

Surrogate Recovery Limits

Toluene-d8 70 - 130

* Designates values outside of QC limits

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: c042305sim.d & c042304sim.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 4/23/15 & 4/23/15

CAS Number	Compound	Original Amount	Original Flags	Duplicate Amount	Duplicate Flags	RPD	Result Less Than 5X RL
71-55-6	1,1,1-Trichloroethane	102		88		15	
79-00-5	1,1,2-Trichloroethane	88		89		1.1	
75-34-3	1,1-Dichloroethane	92		95		3.2	
75-35-4	1,1-Dichloroethene	89		109		20	
95-63-6	1,2,4-Trimethylbenzene	78		82		5.0	
107-06-2	1,2-Dichloroethane	88		93		5.5	
108-67-8	1,3,5-Trimethylbenzene	78		82		5.0	
71-43-2	Benzene	87		100		14	
156-59-2	cis-1,2-Dichloroethene	92		91		1.1	
100-41-4	Ethyl Benzene	90		93		3.3	
108-38-3	m,p-Xylene	85		89		4.6	
91-20-3	Naphthalene	8.3		8.3		0	
95-47-6	o-Xylene	71		74		4.1	
127-18-4	Tetrachloroethene	82		84		2.4	
108-88-3	Toluene	90		92		2.2	
156-60-5	trans-1,2-Dichloroethene	85		84		1.2	
79-01-6	Trichloroethene	87		85		2.3	
75-01-4	Vinyl Chloride	85		91		6.8	

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-APR-2015 08:54
End Cal Date : 15-APR-2015 13:01
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Cal Date : 15-Apr-2015 13:38 gmash
Curve Type : Average

Calibration File Names:
Level 1: /chem/msdc.i/15Apr2015.b/c041503sim.d
Level 2: /chem/msdc.i/15Apr2015.b/c041504sim.d
Level 3: /chem/msdc.i/15Apr2015.b/c041505sim.d
Level 4: /chem/msdc.i/15Apr2015.b/c041506sim.d
Level 5: /chem/msdc.i/15Apr2015.b/c041507sim.d
Level 6: /chem/msdc.i/15Apr2015.b/c041508sim.d
Level 7: /chem/msdc.i/15Apr2015.b/c041509sim.d
Level 8: /chem/msdc.i/15Apr2015.b/c041510sim.d
Level 9: /chem/msdc.i/15Apr2015.b/c041511sim.d
Level 10: /chem/msdc.i/15Apr2015.b/c041512sim.d
Level 11: /chem/msdc.i/15Apr2015.b/c041513sim.d

Compound	0.02500 Level 1	0.05000 Level 2	0.10000 Level 3	0.20000 Level 4	0.50000 Level 5	1.000 Level 6	RRF	% RSD
	5.000 Level 7	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11			
1 Chloromethane	+++++	+++++	0.08396	0.09465	0.11137	0.11297		
	0.12588	0.11294	+++++	+++++	+++++		0.10696	14.052
2 Vinyl Chloride	+++++	+++++	0.20077	0.23763	0.21069	0.23794		
	0.27492	0.23225	0.20727	0.15868	0.18133		0.21572	15.981
3 Ethanol	+++++	+++++	0.10144	0.09009	0.10514	0.11374		
	0.10793	0.09387	0.09863	0.07608	0.06977		0.09519	15.293
4 1,1-Dichloroethene-CCC	+++++	+++++	0.14592	0.11480	0.14002	0.14053		
	0.17255	0.14182	0.11566	0.10252	0.11911		0.13255	16.154
5 Acetone	+++++	+++++	0.16259	0.14161	0.16307	0.17032		
	0.16054	0.14128	0.14472	0.12091	0.10933		0.14604	14.089
6 2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++	+++++		+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-APR-2015 08:54
End Cal Date : 15-APR-2015 13:01
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Cal Date : 15-Apr-2015 13:38 gmash
Curve Type : Average

Compound	0.02500 Level 1	0.05000 Level 2	0.10000 Level 3	0.20000 Level 4	0.50000 Level 5	1.000 Level 6	___ RRF	% RSD
	5.000 Level 7	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11			
7 MTBE	+++++	0.72137	0.68384	0.57173	0.70522	0.65846		
	0.66134	0.54164	0.53537	0.49002	0.41990		0.59889	16.966
8 trans-1,2-Dichloroethene	+++++	+++++	0.26969	0.20015	0.25438	0.21789		
	0.23353	0.18920	0.18966	0.16983	0.14334		0.20752	19.495
9 Hexane	+++++	0.83886	0.63693	0.69656	0.67429	0.83644		
	0.60963	0.47915	0.52400	0.43692	0.44897		0.61817	23.857
10 Halothane	+++++	0.16442	0.14366	0.12866	0.15706	0.15666		
	0.14932	0.12296	0.12387	0.11190	0.09911		0.13576	15.963
11 1,1-Dichloroethane-SPCC	+++++	0.51958	0.51931	0.42693	0.54726	0.51223		
	0.50952	0.41175	0.39517	0.36975	0.32594		0.45374	16.946
12 Ethyl Acetate	+++++	+++++	0.07199	0.05717	0.07618	0.06965		
	0.07255	0.05873	0.05654	0.05354	0.04866		0.06278	15.714
13 2-Butanone	+++++	0.16143	0.14900	0.13003	0.16419	0.15257		
	0.15452	0.12633	0.12454	0.11471	0.10174		0.13790	15.439
14 cis-1,2-Dichloroethene	+++++	0.27533	0.26532	0.20507	0.26609	0.24265		
	0.24976	0.20095	0.19642	0.18259	0.16384		0.22480	17.609
15 Chloroform-CCC	+++++	0.44155	0.44781	0.35763	0.46912	0.41014		
	0.43663	0.34786	0.30847	0.31995	0.28494		0.38241	17.363
16 Cyclohexane	+++++	0.46726	0.42532	0.37085	0.46815	0.43340		
	0.41735	0.32672	0.36311	0.30409	0.28470		0.38609	17.130

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-APR-2015 08:54
End Cal Date : 15-APR-2015 13:01
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Cal Date : 15-Apr-2015 13:38 gmash
Curve Type : Average

Compound	0.02500 Level 1	0.05000 Level 2	0.10000 Level 3	0.20000 Level 4	0.50000 Level 5	1.000 Level 6	___ RRF	% RSD
	5.000 Level 7	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11			
17 1,1,1-Trichloroethane	+++++	0.44932	0.38730	0.30702	0.44028	0.35566		
	0.41402	0.32448	0.29048	0.29831	0.28075		0.35476	18.029
18 Carbon Tetrachloride	+++++	0.44873	0.38908	0.31003	0.44582	0.34874		
	0.41626	0.32493	0.28555	0.30567	0.29032		0.35651	17.821
19 Benzene	+++++	+++++	+++++	0.91340	1.05447	1.01683		
	0.95567	0.75428	0.87376	0.71426	0.66417		0.86836	16.564
20 1,2-Dichloroethane	+++++	0.50313	0.44441	0.38316	0.47292	0.43432		
	0.43681	0.35448	0.35729	0.32525	0.27838		0.39901	17.723
21 Heptane	+++++	0.40059	0.35236	0.29744	0.37441	0.35391		
	0.33957	0.26989	0.30094	0.23663	+++++		0.32508	16.182
22 Trichloroethene	+++++	0.33722	0.31304	0.26498	0.34666	0.29623		
	0.32355	0.25203	0.25069	0.24729	0.23491		0.28666	14.475
23 Methyl Methacrylate	+++++	0.33752	0.30625	0.25714	0.33881	0.29272		
	0.31864	0.25215	0.25761	0.24981	0.23793		0.28486	13.523
24 4-Methyl-2-pentanone	+++++	+++++	0.11988	0.09894	0.13812	0.11880		
	0.12926	0.10309	0.10339	0.10259	0.09525		0.11215	13.308
26 Toluene-CCC	+++++	0.98474	0.77606	0.64349	0.86402	0.72899		
	0.78190	0.60779	0.60274	0.58149	0.53782		0.71090	19.983
28 1,1,2-Trichloroethane	+++++	0.34320	0.32016	0.26343	0.35186	0.29822		
	0.31798	0.24402	0.25168	0.24301	0.22817		0.28617	15.882

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-APR-2015 08:54
End Cal Date : 15-APR-2015 13:01
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Cal Date : 15-Apr-2015 13:38 gmash
Curve Type : Average

Compound	0.02500 Level 1	0.05000 Level 2	0.10000 Level 3	0.20000 Level 4	0.50000 Level 5	1.000 Level 6	RRF	% RSD	
	5.000 Level 7	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11				
29 Tetrachloroethene	+++++	0.40179	0.35737	0.29735	0.39867	0.33925			
	0.36370	0.27809	0.28545	0.27692	0.27191		0.32705	15.688	
30 Chlorobenzene	+++++	1.02211	0.91551	0.76613	1.04746	0.89058			
	0.94744	0.72886	0.72336	0.70835	0.67061		0.84204	16.485	
31 Ethylbenzene-CCC	+++++	0.55605	0.49634	0.41270	0.57460	0.48247			
	0.52393	0.40453	0.39263	0.37099	0.35700		0.45713	17.344	
32 1,1,1,2-Tetrachloroethane	+++++	0.34858	0.32016	0.26352	0.36933	0.31580			
	0.33510	0.25859	0.26122	0.25777	0.25628		0.29864	14.673	
33 m,p-Xylene	0.73867	0.76487	0.70309	0.58527	0.80866	0.68122			
	0.75489	0.56380	0.54860	0.48004	0.40724		0.63967	20.357	<-
34 o-Xylene	+++++	0.56233	0.53031	0.45264	0.60213	0.51613			
	0.56584	0.43771	0.47051	0.46849	0.47757		0.50837	10.897	
35 Styrene	+++++	1.04394	0.91907	0.73650	1.03120	0.88340			
	0.96970	0.73806	0.72047	0.64385	+++++		0.85402	17.328	
36 a-Pinene	+++++	0.69626	0.63126	0.51547	0.70659	0.60589			
	0.67799	0.53166	0.52781	0.47462	+++++		0.59639	14.563	
37 1,1,2,2-Tetrachloroethane-SPC	+++++	0.72286	0.70876	0.57975	0.78489	0.67378			
	0.72080	0.55500	0.57230	0.51205	0.43097		0.62612	17.962	
38 Propylbenzene	+++++	2.72464	2.60562	2.18606	3.00476	2.57227			
	2.77615	2.09581	2.18691	1.78479	+++++		2.43745	16.114	

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-APR-2015 08:54
End Cal Date : 15-APR-2015 13:01
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Cal Date : 15-Apr-2015 13:38 gmash
Curve Type : Average

Compound	0.02500 Level 1 / 5.000 Level 7	0.05000 Level 2 / 20.000 Level 8	0.10000 Level 3 / 50.000 Level 9	0.20000 Level 4 / 100.000 Level 10	0.50000 Level 5 / 200.000 Level 11	1.000 Level 6	___ RRF	% RSD
39 1,2,3-Trichloropropane	+++++ / 0.28224	0.28520 / 0.21730	0.27858 / 0.22555	0.22030 / 0.19649	0.31627 / 0.15955	0.26526	0.24467	19.756
40 1,3,5-Trimethylbenzene	+++++ / 1.24168	1.26875 / 0.97295	1.18746 / 1.12572	0.99291 / 1.11706	1.40985 / 0.98943	1.17034	1.14761	12.160
41 1,2,4-Trimethylbenzene	+++++ / 1.66381	1.65738 / 1.30636	1.55389 / 1.42679	1.32856 / 1.28684	1.82752 / 0.86403	1.55742	1.44726	18.703
42 R-(+)-Limonene	+++++ / 0.70689	+++++ / 0.54774	+++++ / 0.58669	+++++ / 0.45235	0.71867 / +++++	0.62026	0.60543	16.592
43 1,3-Dichlorobenzene	+++++ / 0.86687	0.90134 / 0.67950	0.80922 / 0.73466	0.69592 / 0.71783	0.93556 / 0.72127	0.81271	0.78749	11.543
44 1,4-Dichlorobenzene	+++++ / 1.19629	1.20447 / 0.91631	1.10463 / 0.95692	0.94285 / 0.81045	1.27441 / 0.70386	1.10566	1.02158	18.133
45 1,2-Dichlorobenzene	+++++ / 0.81149	0.83856 / 0.62265	0.77444 / 0.69050	0.64431 / 0.61414	0.87648 / 0.61437	0.75503	0.72420	13.760
46 1,4-Dithiane	+++++ / 0.64484	0.65919 / 0.51117	0.60279 / 0.55479	0.49960 / 0.47783	0.68700 / +++++	0.59713	0.58159	12.894
47 1,2,4-Trichlorobenzene	+++++ / 0.90192	0.94708 / 0.70777	0.87070 / 0.79786	0.74589 / 0.72468	0.96776 / 0.70315	0.86578	0.82326	12.185
48 Naphthalene	+++++ / 2.05988	2.04154 / 1.64848	1.91126 / 1.87370	1.66430 / 1.66683	2.14045 / 1.19915	1.96077	1.81664	15.382

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-APR-2015 08:54
End Cal Date : 15-APR-2015 13:01
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Cal Date : 15-Apr-2015 13:38 gmash
Curve Type : Average

Compound	0.02500 Level 1	0.05000 Level 2	0.10000 Level 3	0.20000 Level 4	0.50000 Level 5	1.000 Level 6	RRF	% RSD
	5.000 Level 7	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11			
49 1,2,3-Trichlorobenzene	+++++	0.93063	0.87053	0.74343	0.96786	0.86610		
	0.92211	0.71518	0.79965	0.69686	0.64885		0.81612	13.594
$ 25 Toluene-d8	0.84394	0.84555	0.81614	0.80837	0.81825	0.80671		
	0.82054	0.83521	0.81771	0.82943	0.81124		0.82301	1.657

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-APR-2015 08:54
End Cal Date : 15-APR-2015 13:01
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Cal Date : 15-Apr-2015 13:38 gmash
Curve Type : Average

Average %RSD Results.
Calculated Average %RSD = 15.815135
Maximun Average %RSD = 30
* Passed Average %RSD Test.

Calibration History

Method : /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Start Cal Date: 15-APR-2015 08:54
End Cal Date : 15-APR-2015 13:01

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.02500		
15-APR-2015 08:54	mpxylene	/chem/msdc.i/15Apr2015.b/c041503sim.d
Cal Level: 2 , Cal Amount: 0.05000		
15-APR-2015 09:18	0.05	/chem/msdc.i/15Apr2015.b/c041504sim.d
Cal Level: 3 , Cal Amount: 0.10000		
15-APR-2015 09:43	0.1	/chem/msdc.i/15Apr2015.b/c041505sim.d
Cal Level: 4 , Cal Amount: 0.20000		
15-APR-2015 10:07	0.2	/chem/msdc.i/15Apr2015.b/c041506sim.d
Cal Level: 5 , Cal Amount: 0.50000		
15-APR-2015 10:31	all-2Pr	/chem/msdc.i/15Apr2015.b/c041507sim.d
Cal Level: 6 , Cal Amount: 1.00000		
15-APR-2015 10:59	all-2Pr	/chem/msdc.i/15Apr2015.b/c041508sim.d
Cal Level: 7 , Cal Amount: 5.00000		
15-APR-2015 11:23	all-2Pr	/chem/msdc.i/15Apr2015.b/c041509sim.d
Cal Level: 8 , Cal Amount: 20.00000		

|15-APR-2015 11:47 |all-2Pr |/chem/msdc.i/15Apr2015.b/c041510sim.d |

Cal Level: 9 , Cal Amount: 50.00000
15-APR-2015 12:11 |all-cm |/chem/msdc.i/15Apr2015.b/c041511sim.d

Cal Level: 10, Cal Amount: 100.00000
15-APR-2015 12:37 |100 |/chem/msdc.i/15Apr2015.b/c041512sim.d

Cal Level: 11, Cal Amount: 200.00000
15-APR-2015 13:01 |200 |/chem/msdc.i/15Apr2015.b/c041513sim.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 7

Ccal Level: 7 , Ccal Amount: 5.00000
15-APR-2015 11:23 |all-2Pr |/chem/msdc.i/15Apr2015.b/c041509sim.d

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-APR-2015 08:54
End Cal Date : 15-APR-2015 13:01
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Cal Date : 15-Apr-2015 13:38 gmash
Curve Type : Average

Calibration File Names:
Level 1: /chem/msdc.i/15Apr2015.b/c041503sim.d
Level 2: /chem/msdc.i/15Apr2015.b/c041504sim.d
Level 3: /chem/msdc.i/15Apr2015.b/c041505sim.d
Level 4: /chem/msdc.i/15Apr2015.b/c041506sim.d
Level 5: /chem/msdc.i/15Apr2015.b/c041507sim.d
Level 6: /chem/msdc.i/15Apr2015.b/c041508sim.d
Level 7: /chem/msdc.i/15Apr2015.b/c041509sim.d
Level 8: /chem/msdc.i/15Apr2015.b/c041510sim.d
Level 9: /chem/msdc.i/15Apr2015.b/c041511sim.d
Level 10: /chem/msdc.i/15Apr2015.b/c041512sim.d
Level 11: /chem/msdc.i/15Apr2015.b/c041513sim.d

gmw 4/15/15

Compound	0.02500 Level 1	0.05000 Level 2	0.10000 Level 3	0.20000 Level 4	0.50000 Level 5	1.000 Level 6	RRF	% RSD
	5.000 Level 7	20.000 Level 8	50.000 Level 9	100.000 Level 10	200.000 Level 11			
1 Chloromethane	+++++	+++++	0.08396	0.09465	0.11137	0.11297		
	0.12588	0.11294	+++++	+++++	+++++		0.10696	14.052
2 Vinyl Chloride	+++++	+++++	0.20077	0.23763	0.21069	0.23794		
	0.27492	0.23225	0.20727	0.15868	0.18133		0.21572	15.981
3 Ethanol	+++++	+++++	0.10144	0.09009	0.10514	0.11374		
	0.10793	0.09387	0.09863	0.07608	0.06977		0.09519	15.293
4 1,1-Dichloroethene-CCC	+++++	+++++	0.14592	0.11480	0.14002	0.14053		
	0.17255	0.14182	0.11566	0.10252	0.11911		0.13255	16.154
5 Acetone	+++++	+++++	0.16259	0.14161	0.16307	0.17032		
	0.16054	0.14128	0.14472	0.12091	0.10933		0.14604	14.089
6 2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++	+++++		+++++	+++++

Initial Calibration Narrative

An 11 point initial calibration was analyzed on MSD-C on 04/15/2015. The curve passed for SOP 100.

ICV- 1-out (Chloromethane at 155%), file ID: C041515sim, STD#2595-231-5.0

All compounds were curved from 0.05ug/mL to 200ug/mL, but there are exceptions. Please refer to ICAL summary for calibration ranges for each compound.

2-Propanol was not included in the ICAL.

Unit: ug/mL

The analysis based on 2uL injection in slow mode.

Eurofins Air Toxics, Inc. **MSD-C** **Logbook #: 2711**

BFB Injection Date: 4/15/15
BFB Injection Time: 0811
BFB File ID: C041501

IS/S Std.#: 2595-215-125	Exp. Date: 8/20/15
2-Fluorotoluene	SIM: 318479

Verified CCV IS vs ICAL mid-point (-50% to +100% D) gmv *initials*

Calculation Check:

µg/L of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} \times DF = \frac{(145408)}{(240216)} \times \frac{(5.0)}{(0.59889)} \times 1.00 = 5.05$ µg

File ID: C041515SIM
Compound: MTBE
Initials: gmv

Reported Result 5.05 µg

	Use	File #	Sample / Client Name	Vial #	DF	Date Analyzed	Time Analyzed	Initial	Comments
1	✓	C041501	2299-806 BFB	1	1.00	4/15/15	0811	gmv	
2	✓	02	CS_2 Blank	2		4/15/15	0825		
3	✓	03	2595-224-0.05→0.025	3			0854		Level 1, m,p-xylene
4	✓	04	2595-224-0.05	4			0918		Level 2
5	✓	05	-0.10	5			0943		Level 3
6	✓	06	-0.20	6			1007		Level 4
7	✓	07	-0.50	7			1031		Level 5
8	✓	08	-1.0	8			1059		Level 6
9	✓	09	-5.0	9			1123		Level 7
10	✓	10	-20	10			1147		Level 8
11	✓	11	-50	11			1211		Level 9
12	✓	12	2595-218-500→100	12			1237		Level 10
13	✓	13	→200	13			1301		Level 11
14	✓	14	CS_2 Blank	14			1325		System Blank
15	✓	15	2595231-5.0	15			1349		ICV, 1 out ✓ 8 hrs

Reviewed: gmv Date: 4/15/15

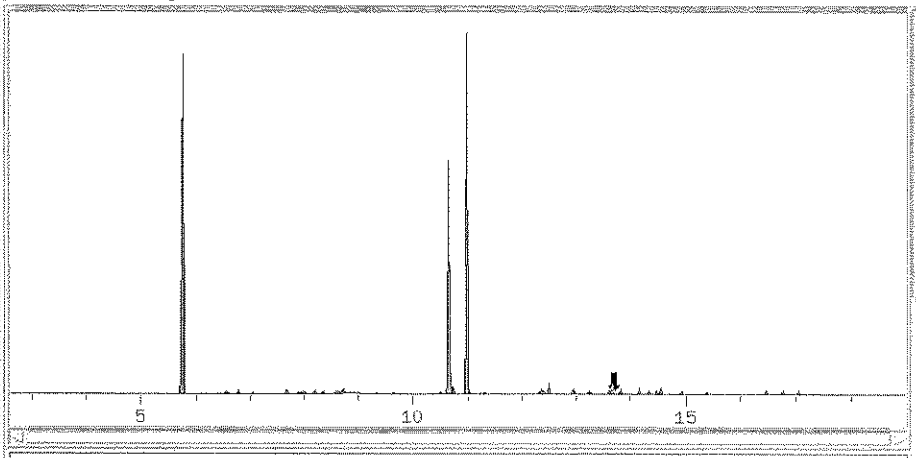
TargetReview: eeyore: 2595-224-0.05: /chem/msdc.i/15Apr2015.b/c041504sim.d

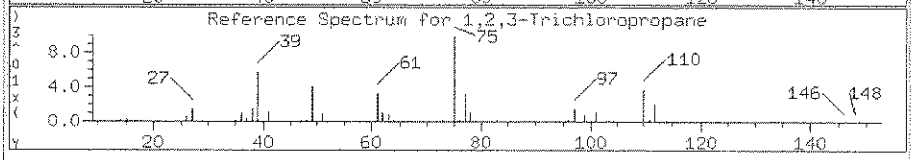
File Security Edit Display Process Spectra Help

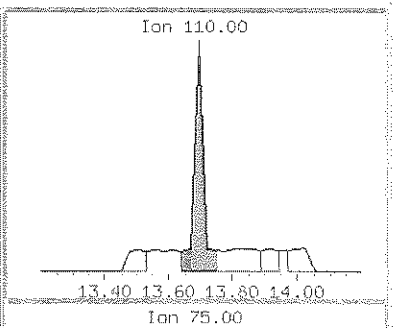
Sample: 2595-224-0.05 Type: CALIB_2 Inj.Date: 15-APR-2015 09:18

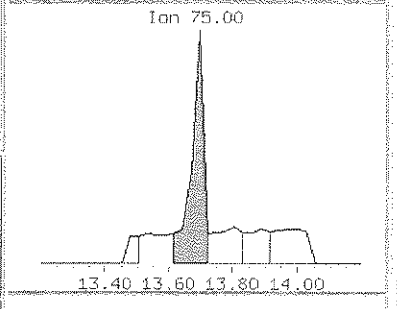
- 13 2-Butanone
- 15 Chloroform-CCC
- 16 Cyclohexane
- 17 1,1,1-Trichlor
- 18 Carbon Tetrach
- 20 1,2-Dichloroeth
- 21 Heptane
- 22 Trichloroethen
- 23 Methyl Methacr
- 25 Toluene-d8
- 26 Toluene-CCC
- 27 2-Fluorotoluen
- 28 1,1,2-Trichlor
- 29 Tetrachloroeth
- 30 Chlorobenzene
- 31 Ethylbenzene-C
- 32 1,1,1,2-Tetrac
- 33 m,p-Xylene
- 34 o-Xylene
- 35 Styrene
- 36 a-Pinene
- 37 1,1,2,2-Tetrac
- 38 Propylbenzene
- 39 1,2,3-Trichlor
- 40 1,3,5-Trimethy

c041503sim.d
c041504sim.d
c041505sim.d
c041506sim.d
c041507sim.d
c041508sim.d
c041509sim.d
c041510sim.d



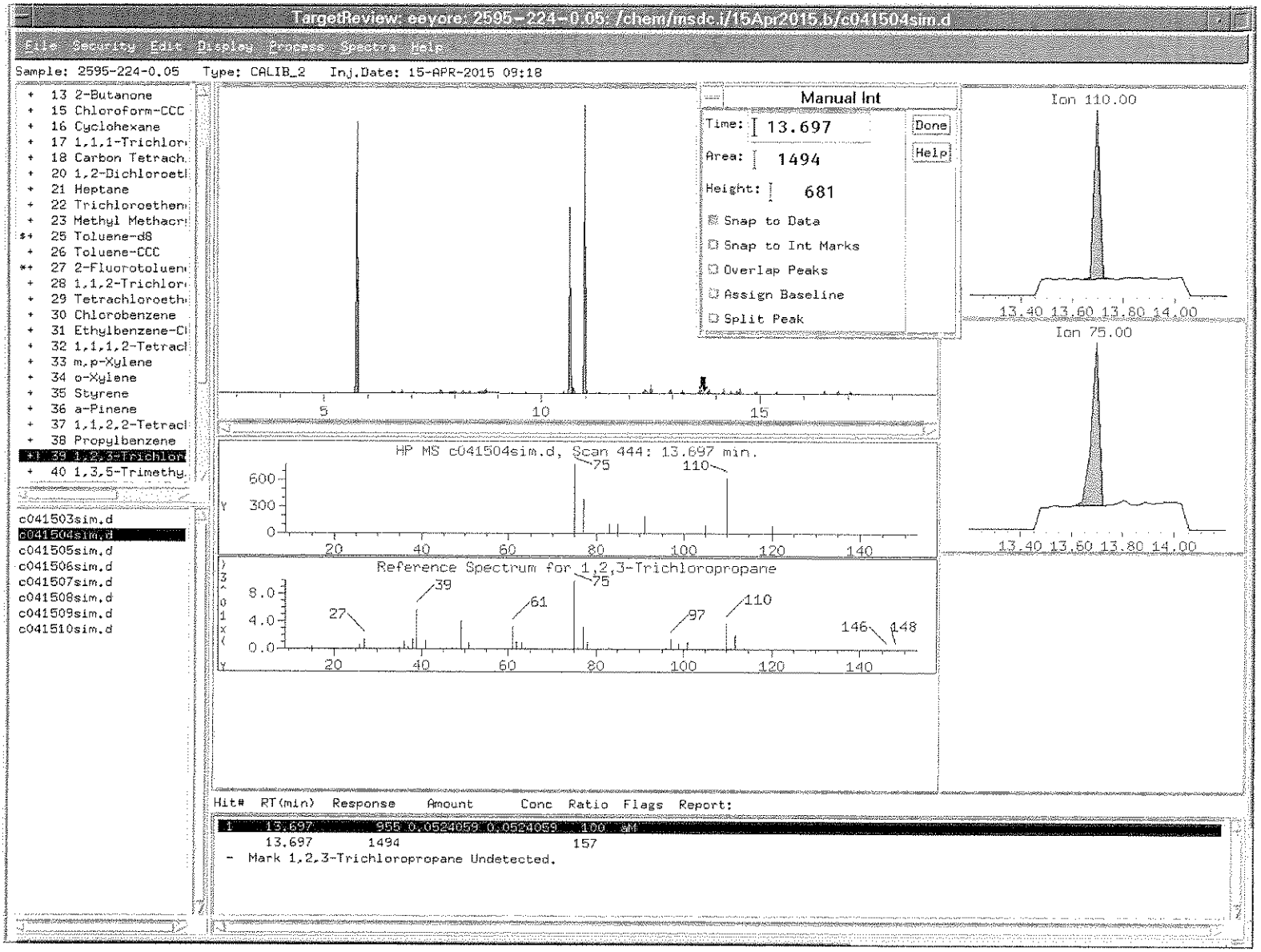






Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
	13.697	2318			165		
3	13.807	558	0.0237894	0.0237894	100	a	
	13.807	886			159		
4	13.917	285	0.0121410	0.0121410	100	a	
	13.889	711			250		
5	14.027	289	0.0123503	0.0123503	100	a	

Before
gnw
4/15/15



4/15/15
AT

After

Correct Baseline	✓
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	

gm
4/15/15

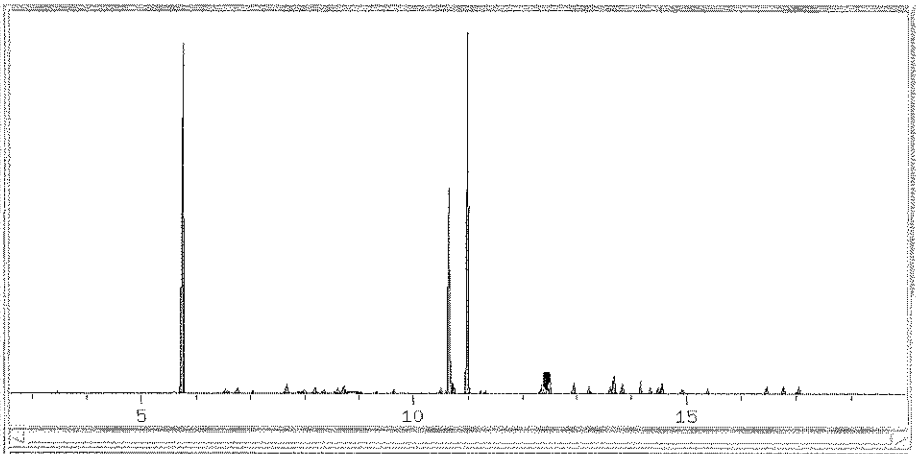
TargetReview: eeyore: 2595-224-0.10: /chem/msdc.i/15Apr2015.b/c041505sim.d

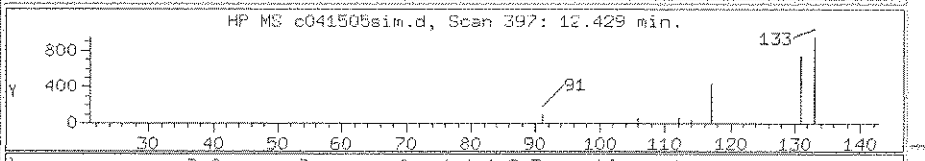
File Security Edit Display Process Spectra Help

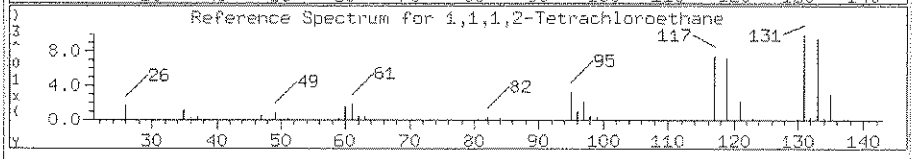
Sample: 2595-224-0.10 Type: CALIB_3 Inj.Date: 15-APR-2015 09:43

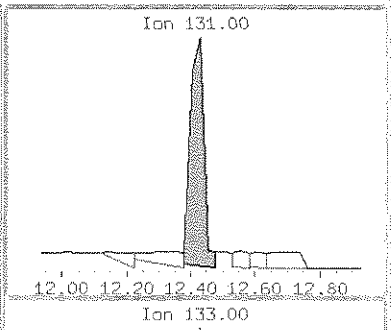
+ 9 Hexane
+ 10 Halothane
+ 11 1,1-Dichloroetl
+ 12 Ethyl Acetate
+ 13 2-Butanone
+ 14 cis-1,2-Dichlo
+ 15 Chloroform-CCC
+ 16 Cyclohexane
+ 17 1,1,1-Trichlor
+ 18 Carbon Tetrach
+ 19 Benzene
+ 20 1,2-Dichloroetl
+ 21 Heptane
+ 22 Trichloroethen
+ 23 Methyl Methacr
+ 24 4-Methyl-2-pen
*+ 25 Toluene-d8
+ 26 Toluene-CCC
*+ 27 2-Fluorotoluen
+ 28 1,1,2-Trichlor
+ 29 Tetrachloroeth
+ 30 Chlorobenzene
+ 31 Ethylbenzene-Cl
+ 32 1,1,1,2-Tetrac
+ 33 m,p-Xylene

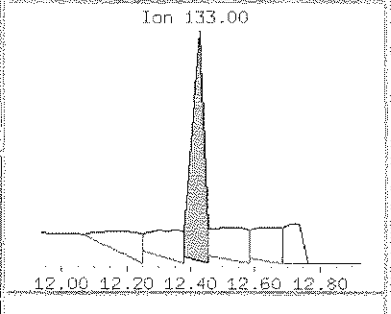
c041503sim.d
c041504sim.d
c041505sim.d
c041506sim.d
c041507sim.d
c041508sim.d
c041509sim.d
c041510sim.d





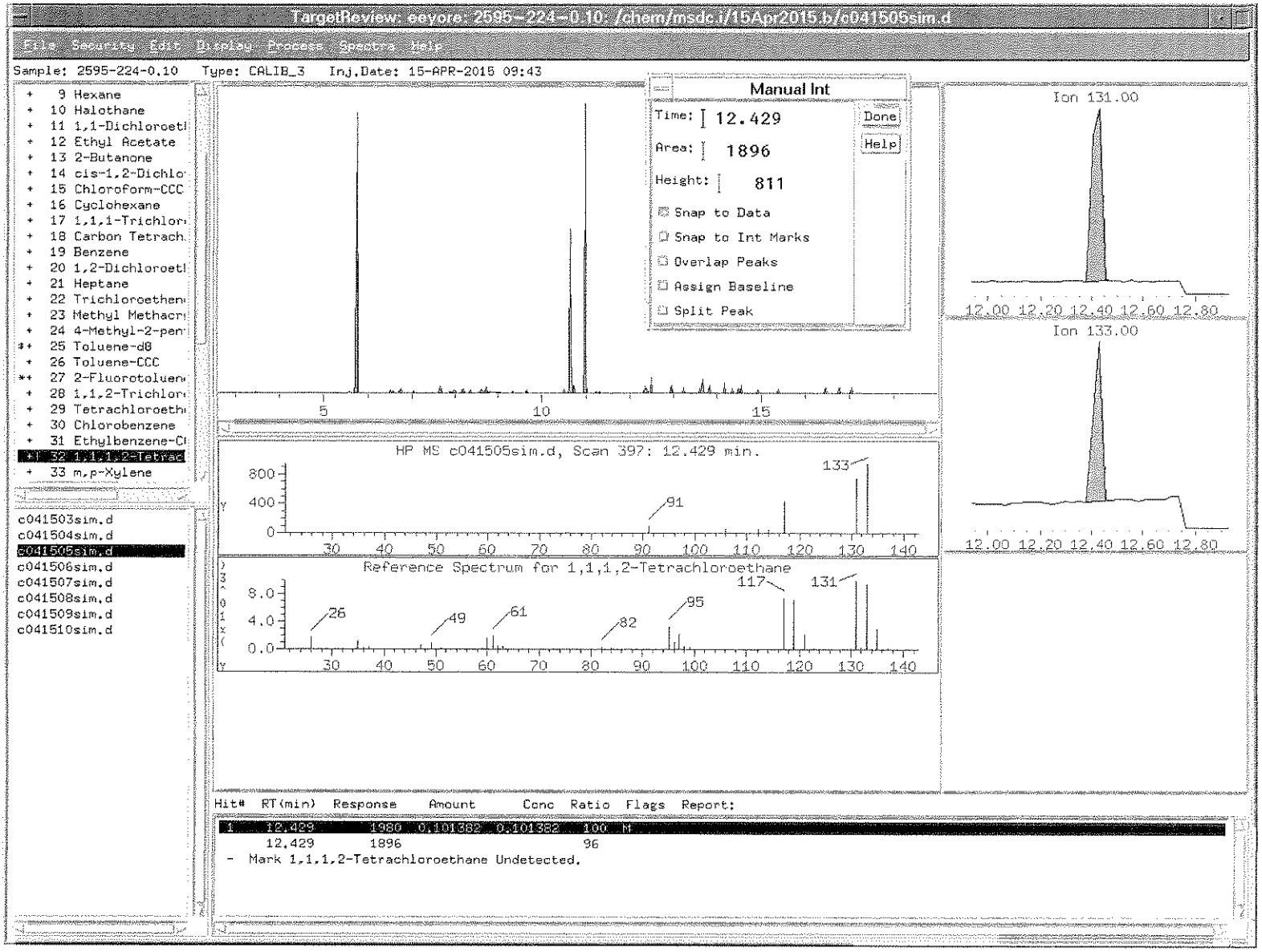






Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
	12.145	827			421		
2	12.300	382	0.0175546	0.0175546	100	a	
	12.351	985			257		
3	12.429	2315	0.106202	0.106202	100		
	12.429	2657			115		
4	12.557	220	0.0101061	0.0101061	100	a	

Before
gnv
4/15/15



4/15/15
ACT

9mw
4/15/15

After

Correct Baseline	✓
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	

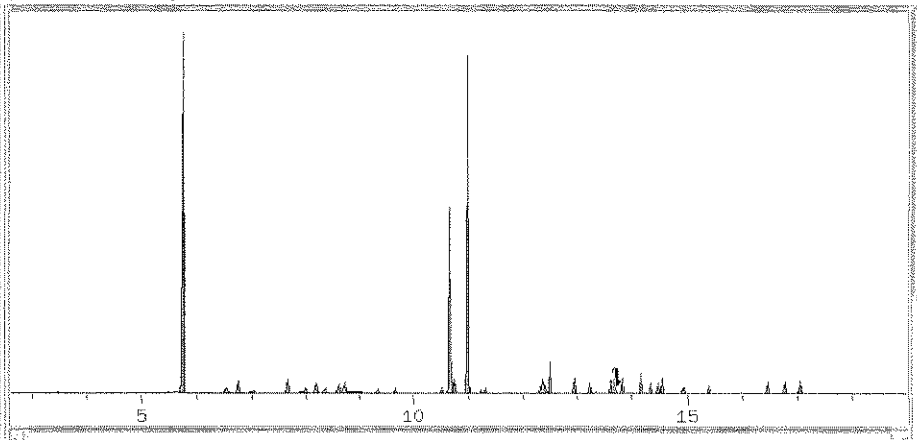
TargetReview: eeyore: 2595-224-0.20: /chem/msdc.i/15Apr2015.b/c041506sim.d

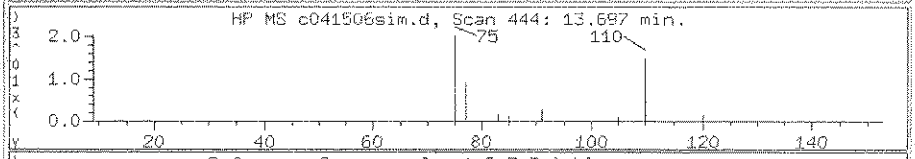
File Security Edit Display Process Specs Help

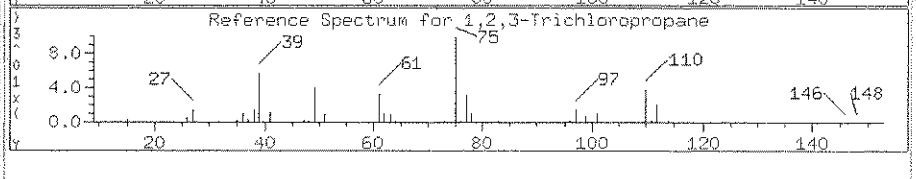
Sample: 2595-224-0.20 Type: CALIB_4 Inj.Date: 15-APR-2015 10:07

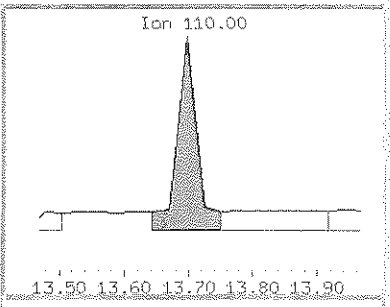
+ 16 Cyclohexane
+ 17 1,1,1-Trichlor
+ 18 Carbon Tetrach
+ 19 Benzene
+ 20 1,2-Dichloroetl
+ 21 Heptane
+ 22 Trichloroethen
+ 23 Methyl Methacr
+ 24 4-Methyl-2-pen
$+ 25 Toluene-d8
+ 26 Toluene-CCC
** 27 2-Fluorotoluen
+ 28 1,1,2-Trichlor
+ 29 Tetrachloroeth
+ 30 Chlorobenzene
+ 31 Ethylbenzene-Cl
+ 32 1,1,1,2-Tetracl
+ 33 m,p-Xylene
+ 34 o-Xylene
+ 35 Styrene
+ 36 a-Pinene
+ 37 1,1,2,2-Tetracl
+ 38 Propylbenzene
+ 39 1,2,3-Trichlor
+ 40 1,3,5-Trimethy

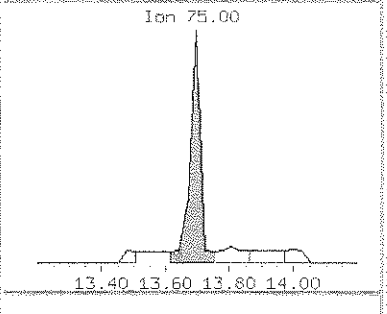
c041503sim.d
c041504sim.d
c041505sim.d
c041506sim.d
c041507sim.d
c041508sim.d
c041509sim.d
c041510sim.d







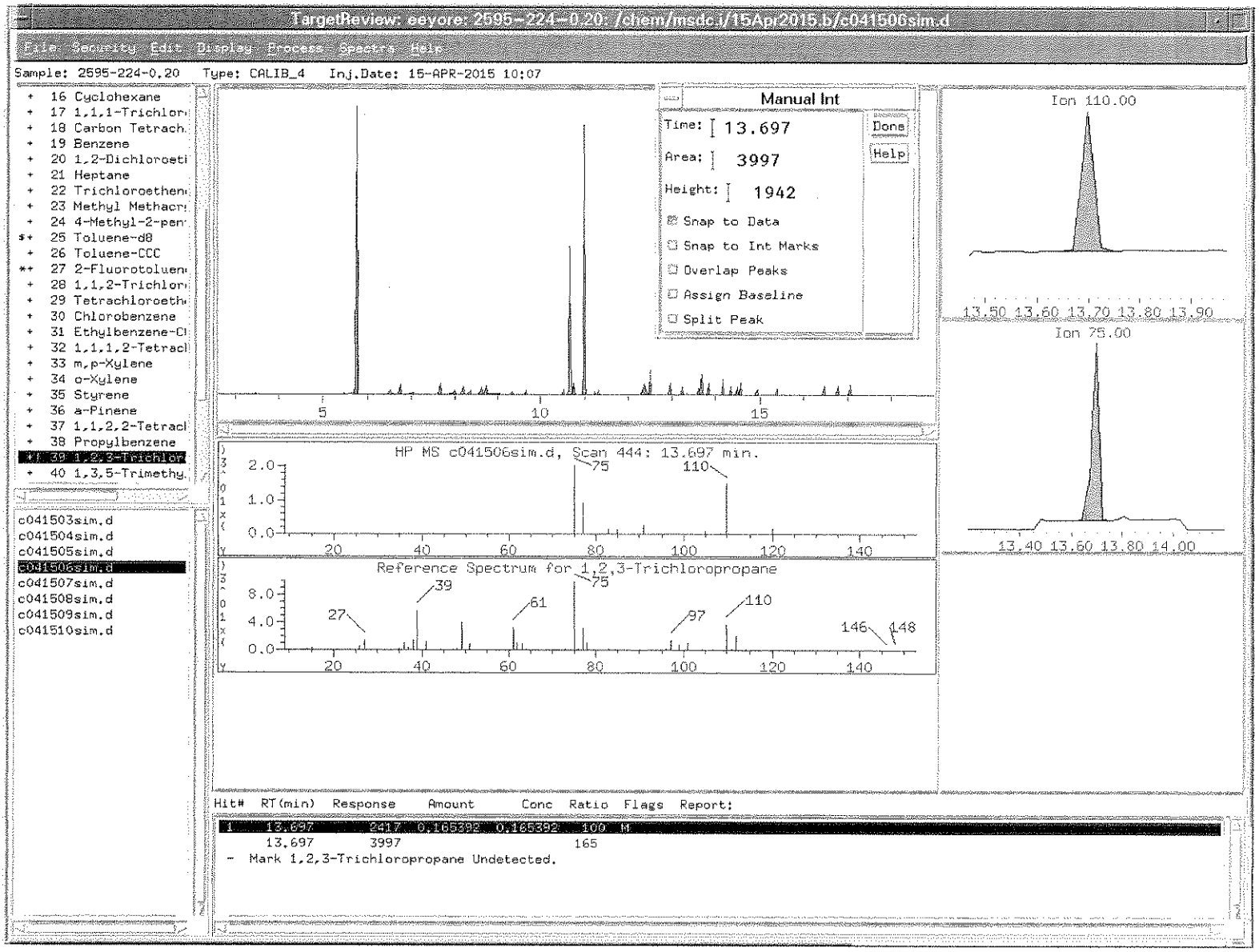




Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
	13.477	331			191		
2	13.697	2861	0.168168	0.168168	100		
	13.697	4980			174		
3	13.834	645	0.0379536	0.0379536	100	a	
	13.807	932			144		
4	13.944	281	0.0165579	0.0165579	100	a	

Before

gnw
4/15/15



4/15/15
ACT

After

Correct Baseline	✓
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	

gw
4/15/15

Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msdc.i/15Apr2015.b/c041515sim.d
Lab Smp Id: 2595-231-5.0 Client Smp ID: ICV
Inj Date : 15-APR-2015 13:49
Operator : gm Inst ID: msdc.i
Smp Info : ;2595-231-5.0;ICV
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Meth Date : 15-Apr-2015 14:12 gmash Quant Type: ISTD
Cal Date : 15-APR-2015 11:23 Cal File: c041509sim.d
Als bottle: 15 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all-2Pr.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
1	Chloromethane	50	3.227	3.227	(0.294)	39890	7.76265	7.76264(R)
2	Vinyl Chloride	62	3.444	3.444	(0.313)	63776	6.15370	6.15370
3	Ethanol	45	5.009	4.985	(0.456)	24887	5.44205	5.44205
4	1,1-Dichloroethene-CCC	96	5.454	5.454	(0.496)	38714	6.07945	6.07945
5	Acetone	58	5.611	5.588	(0.510)	37150	5.29477	5.29477
7	MTBE	73	6.528	6.528	(0.594)	145408	5.05374	5.05374
8	trans-1,2-Dichloroethene	96	6.555	6.583	(0.596)	46366	4.65062	4.65062
9	Hexane	57	6.748	6.775	(0.614)	171557	5.77652	5.77652
10	Halothane	117	6.985	6.985	(0.635)	34845	5.34247	5.34247
11	1,1-Dichloroethane-SPCC	63	7.057	7.057	(0.642)	111254	5.10358	5.10358
12	Ethyl Acetate	70	7.662	7.662	(0.697)	15009	4.97639	4.97639
13	2-Butanone	72	7.662	7.662	(0.697)	33622	5.07471	5.07471
14	cis-1,2-Dichloroethene	96	7.662	7.684	(0.697)	52950	4.90270	4.90270
15	Chloroform-CCC	83	7.987	7.987	(0.726)	91133	4.96043	4.96043
16	Cyclohexane	84	8.172	8.203	(0.743)	89194	4.80852	4.80852
17	1,1,1-Trichloroethane	97	8.203	8.203	(0.746)	77686	4.55801	4.55801

			QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug)
	18	Carbon Tetrachloride	117	8.357	8.357	(0.760)	76894	4.48939	4.48939
	19	Benzene	78	8.603	8.603	(0.783)	207912	4.98369	4.98369
	20	1,2-Dichloroethane	62	8.696	8.696	(0.791)	93827	4.89449	4.89448
	21	Heptane	71	8.727	8.727	(0.794)	75825	4.85500	4.85500
	22	Trichloroethene	130	9.331	9.331	(0.849)	64345	4.67217	4.67217
	23	Methyl Methacrylate	69	9.644	9.644	(0.877)	63470	4.63780	4.63780
	24	4-Methyl-2-pentanone	85	10.512	10.512	(0.956)	26948	5.00174	5.00174
$	25	Toluene-d8	98	10.656	10.656	(0.969)	203530	5.14745	5.14745(A)
	26	Toluene-CCC	92	10.728	10.728	(0.976)	160150	4.68905	4.68905
*	27	2-Fluorotoluene	109	10.994	10.994	(1.000)	240216	5.00000	
	28	1,1,2-Trichloroethane	97	11.235	11.235	(1.022)	63022	4.58390	4.58390
	29	Tetrachloroethene	164	11.331	11.331	(1.031)	72210	4.59571	4.59571
	30	Chlorobenzene	112	12.325	12.325	(1.121)	197517	4.88247	4.88247
	31	Ethylbenzene-CCC	106	12.377	12.377	(1.126)	108070	4.92082	4.92082
	32	1,1,1,2-Tetrachloroethane	131	12.403	12.428	(1.128)	68653	4.78508	4.78508
	33	m,p-Xylene	106	12.506	12.506	(1.138)	296850	9.65940	9.65940
	34	o-Xylene	106	12.956	12.956	(1.178)	108171	4.42897	4.42897
	35	Styrene	104	12.956	12.956	(1.178)	204129	4.97513	4.97512
	36	a-Pinene	93	13.230	13.230	(1.203)	159641	5.57159	5.57159
	37	1,1,2,2-Tetrachloroethane-SPC	83	13.615	13.615	(1.238)	145270	4.82935	4.82935
	38	Propylbenzene	91	13.669	13.669	(1.243)	513233	4.38276	4.38276
	39	1,2,3-Trichloropropane	110	13.697	13.697	(1.246)	56097	4.77220	4.77220
	40	1,3,5-Trimethylbenzene	105	13.834	13.834	(1.258)	248583	4.50861	4.50861
	41	1,2,4-Trimethylbenzene	105	14.174	14.174	(1.289)	332082	4.77602	4.77602
	42	R-(+)-Limonene	68	14.367	14.367	(1.307)	141139	4.85231	4.85231
	43	1,3-Dichlorobenzene	146	14.488	14.488	(1.318)	173999	4.59908	4.59908
	44	1,4-Dichlorobenzene	146	14.560	14.560	(1.324)	239833	4.88655	4.88655
	45	1,2-Dichlorobenzene	146	14.898	14.898	(1.355)	164401	4.72515	4.72515
	46	1,4-Dithiane	120	15.380	15.380	(1.399)	127366	4.55829	4.55829
	47	1,2,4-Trichlorobenzene	180	16.465	16.465	(1.498)	183350	4.63568	4.63568
	48	Naphthalene	128	16.778	16.778	(1.526)	428760	4.91263	4.91263
	49	1,2,3-Trichlorobenzene	180	17.044	17.044	(1.550)	188112	4.79768	4.79768

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c041515sim.d
Lab Smp Id: 2595-231-5.0
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

Calibration Date: 15-APR-2015
Calibration Time: 11:23
Client Smp ID: ICV
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	318479	159240	636958	240216	-24.57

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	10.99	10.49	11.49	10.99	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 15-Apr-2015 14:13

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 15Apr2015
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 2595-231-5.0 Client Smp ID: ICV
Level: MED Operator: gm
Data Type: MS DATA SampleType: LCS
SpikeList File: ICV-2Pr.spk Quant Type: ISTD
Sublist File: all-2Pr.sub
Method File: /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

	SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
1	Chloromethane	5.00000	7.76264	155.25*	70-130
2	Vinyl Chloride	5.00000	6.15370	123.07	50-140
3	Ethanol	5.00000	5.44205	108.84	70-130
4	1,1-Dichloroethene	5.00000	6.07945	121.59	70-130
5	Acetone	5.00000	5.29477	105.90	70-130
7	MTBE	5.00000	5.05374	101.07	70-130
8	trans-1,2-Dichloro	5.00000	4.65062	93.01	70-130
9	Hexane	5.00000	5.77652	115.53	70-130
10	Halothane	5.00000	5.34247	106.85	70-130
11	1,1-Dichloroethane	5.00000	5.10358	102.07	80-120
12	Ethyl Acetate	5.00000	4.97639	99.53	70-130
13	2-Butanone	5.00000	5.07471	101.49	70-130
14	cis-1,2-Dichloroet	5.00000	4.90270	98.05	80-120
15	Chloroform-CCC	5.00000	4.96043	99.21	80-120
16	Cyclohexane	5.00000	4.80852	96.17	70-130
17	1,1,1-Trichloroeth	5.00000	4.55801	91.16	80-120
18	Carbon Tetrachlori	5.00000	4.48939	89.79	80-120
19	Benzene	5.00000	4.98369	99.67	70-130
20	1,2-Dichloroethane	5.00000	4.89448	97.89	80-120
21	Heptane	5.00000	4.85500	97.10	80-120
22	Trichloroethene	5.00000	4.67217	93.44	80-120
23	Methyl Methacrylat	5.00000	4.63780	92.76	70-130
24	4-Methyl-2-pentano	5.00000	5.00174	100.03	70-130
26	Toluene-CCC	5.00000	4.68905	93.78	80-120
28	1,1,2-Trichloroeth	5.00000	4.58390	91.68	80-120
29	Tetrachloroethene	5.00000	4.59571	91.91	80-120
30	Chlorobenzene	5.00000	4.88247	97.65	80-120
31	Ethylbenzene-CCC	5.00000	4.92082	98.42	80-120
32	1,1,1,2-Tetrachlor	5.00000	4.78508	95.70	80-120
33	m,p-Xylene	10.0000	9.65940	96.59	80-120
34	o-Xylene	5.00000	4.42897	88.58	70-130
35	Styrene	5.00000	4.97512	99.50	70-130
36	a-Pinene	5.00000	5.57159	111.43	70-130

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
37 1,1,2,2-Tetrachlor	5.00000	4.82935	96.59	70-130
38 Propylbenzene	5.00000	4.38276	87.66	80-120
39 1,2,3-Trichloropro	5.00000	4.77220	95.44	80-120
40 1,3,5-Trimethylben	5.00000	4.50861	90.17	80-120
41 1,2,4-Trimethylben	5.00000	4.77602	95.52	80-120
42 R-(+)-Limonene	5.00000	4.85231	97.05	70-130
43 1,3-Dichlorobenzen	5.00000	4.59908	91.98	70-130
44 1,4-Dichlorobenzen	5.00000	4.88655	97.73	70-130
45 1,2-Dichlorobenzen	5.00000	4.72515	94.50	70-130
46 1,4-Dithiane	5.00000	4.55829	91.17	70-130
47 1,2,4-Trichloroben	5.00000	4.63568	92.71	70-130
48 Naphthalene	5.00000	4.91263	98.25	70-130
49 1,2,3-Trichloroben	5.00000	4.79768	95.95	70-130

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 25 Toluene-d8	5.00000	5.14745	102.95	70-130

Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

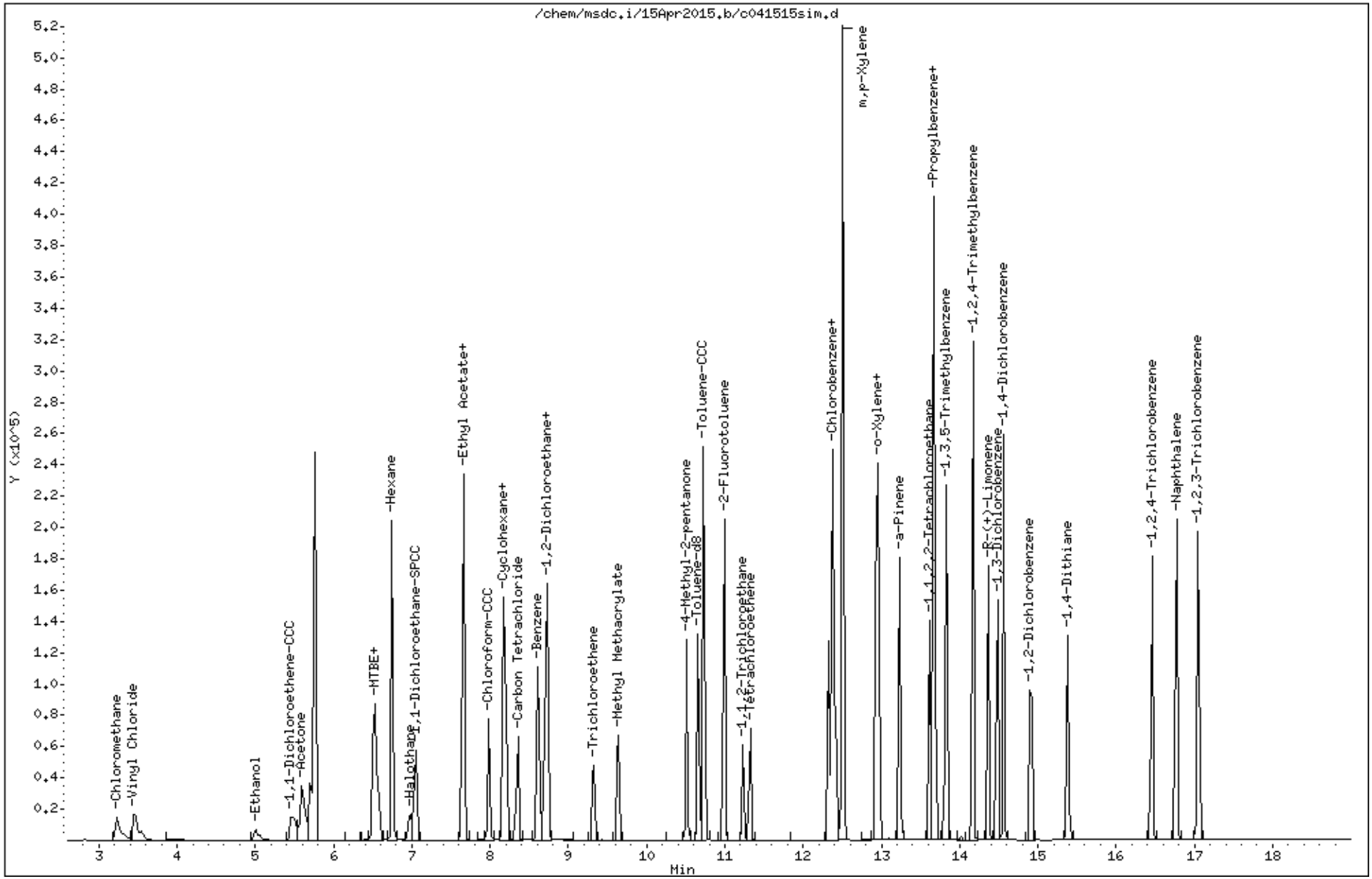
Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

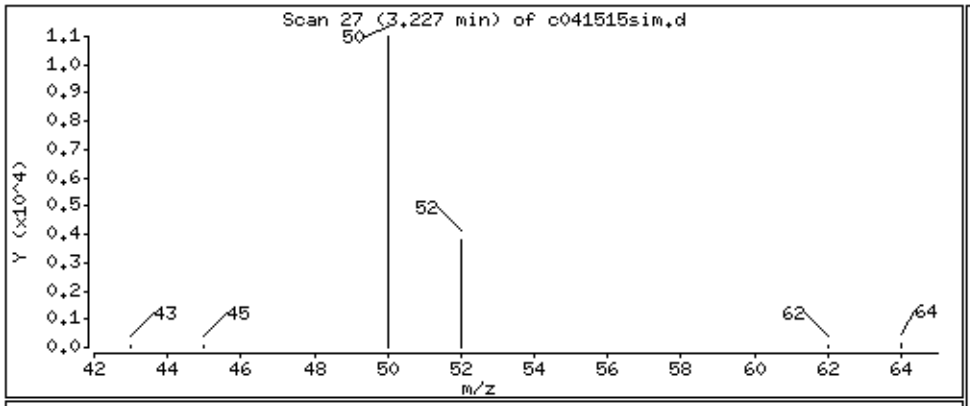
Operator: gm

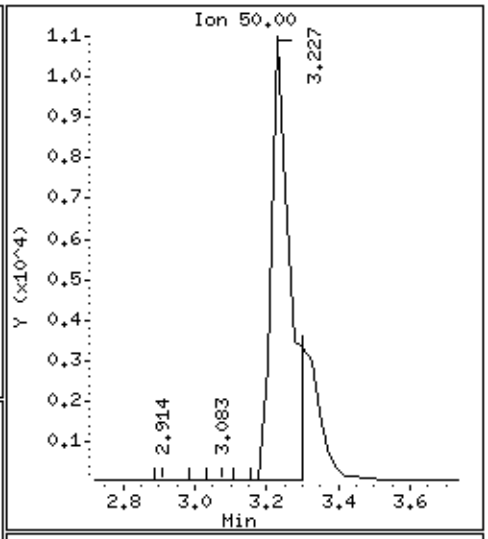
Column phase: DB-5.625

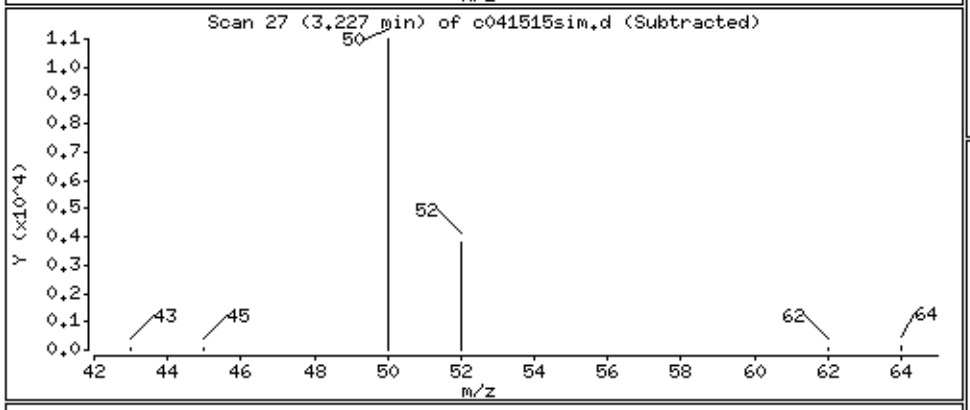
Column diameter: 0.25

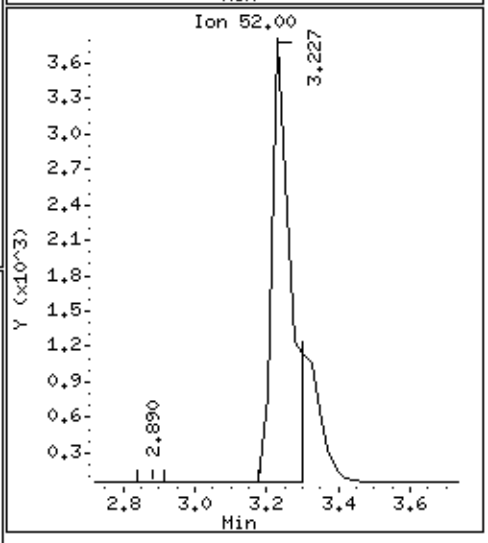
1 Chloromethane

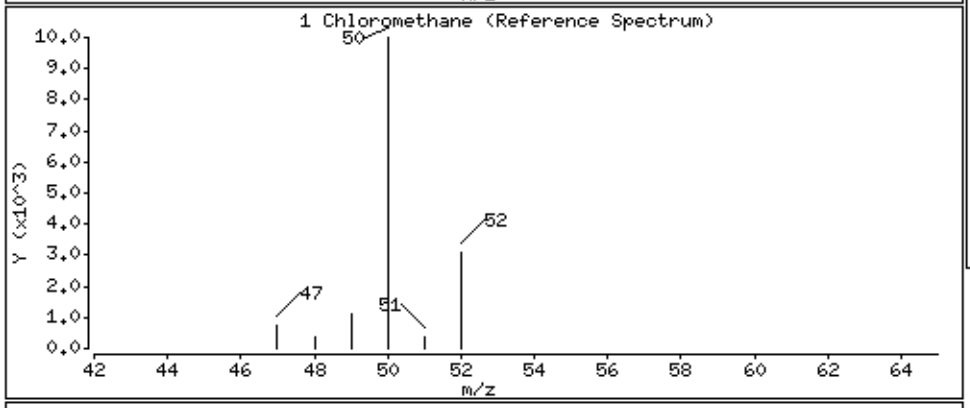
Concentration: 7.76264 ug

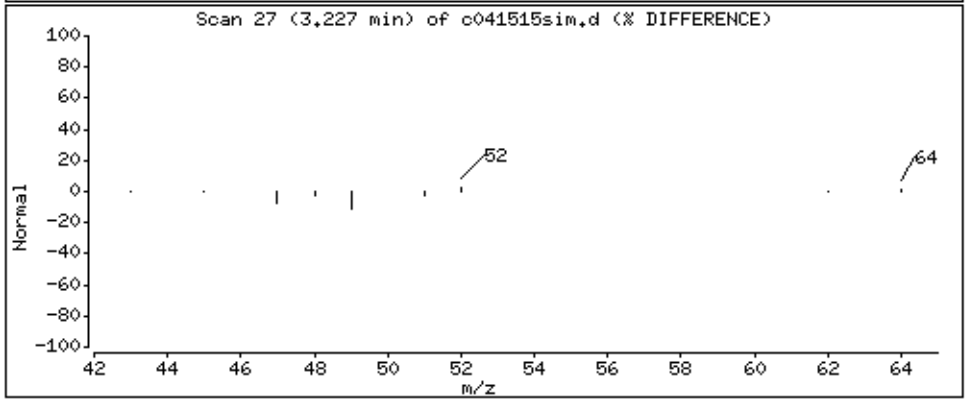












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

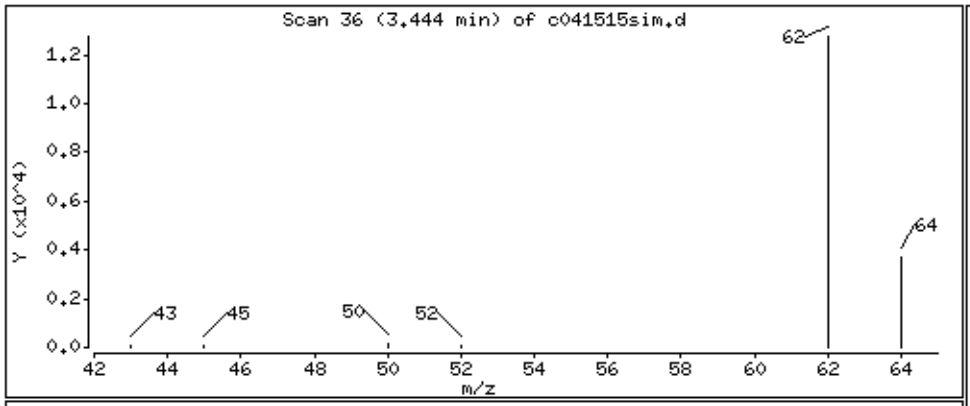
Operator: gm

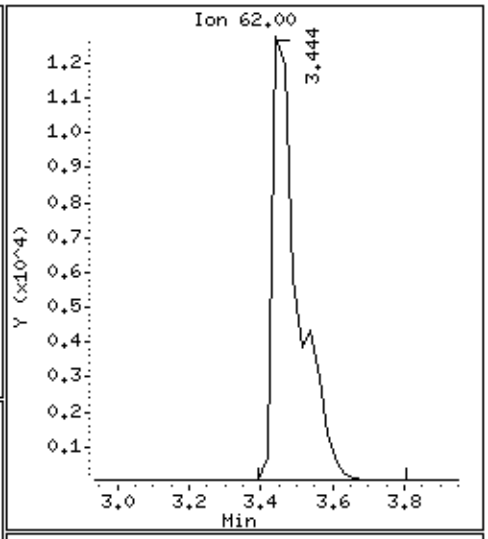
Column phase: DB-5.625

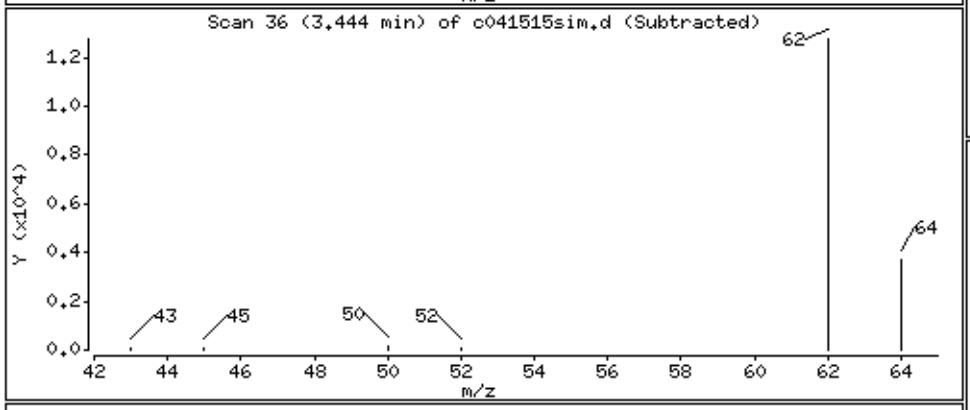
Column diameter: 0.25

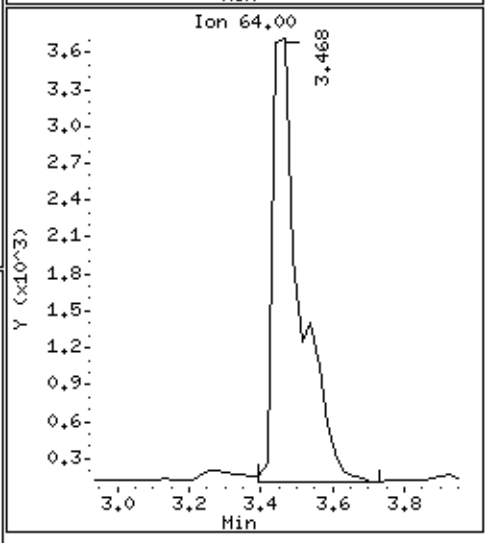
2 Vinyl Chloride

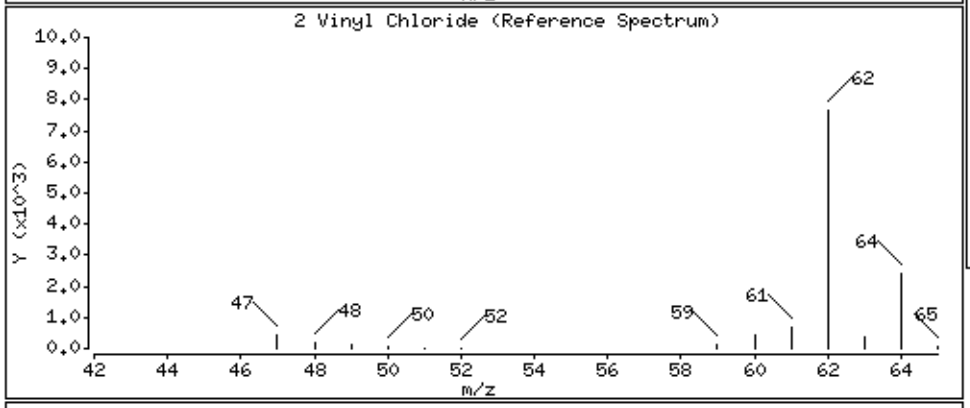
Concentration: 6.15370 ug

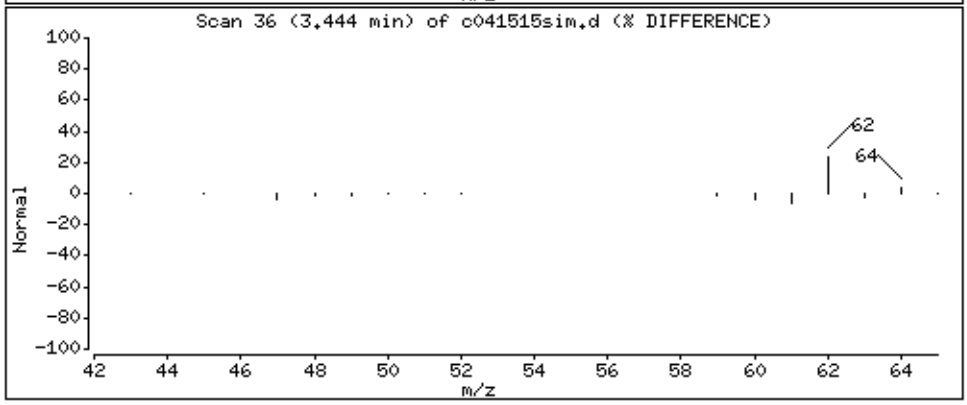












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

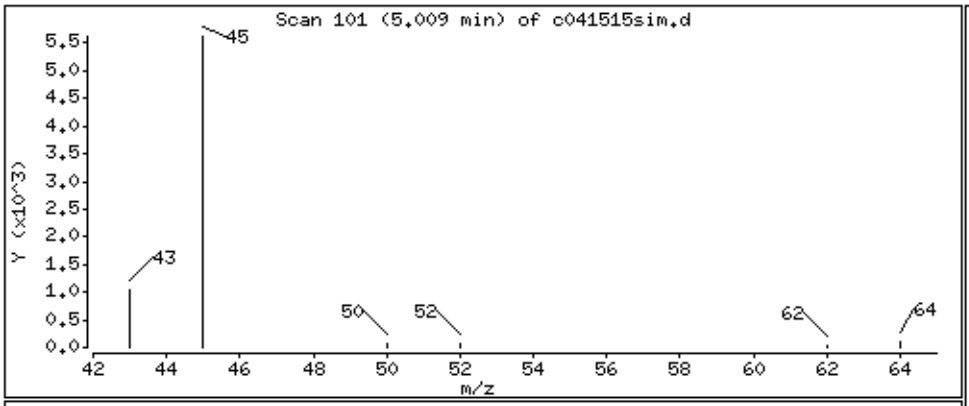
Operator: gm

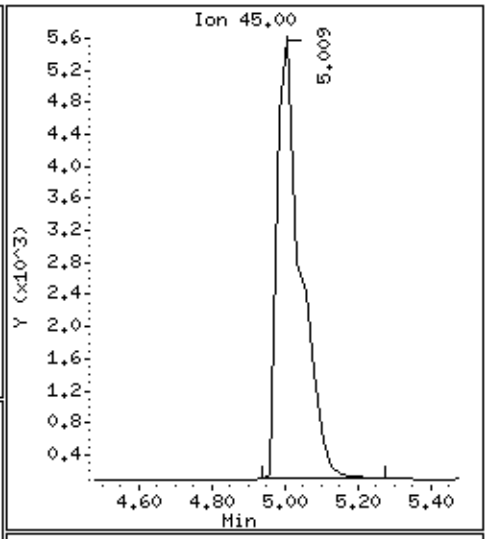
Column phase: DB-5.625

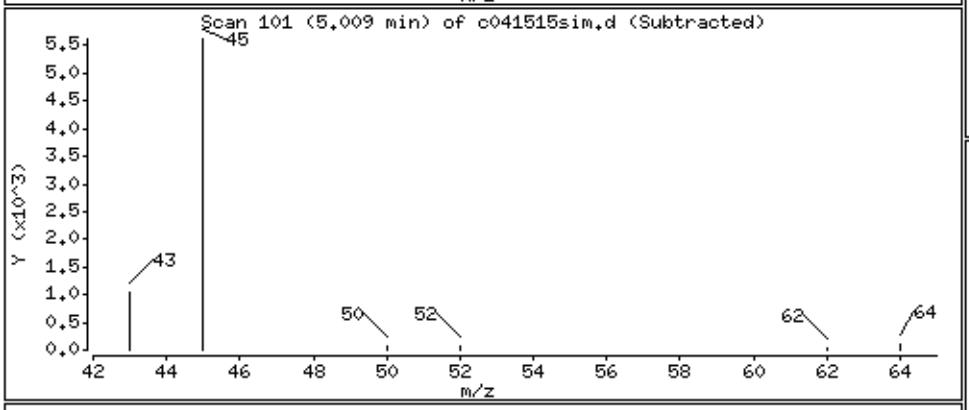
Column diameter: 0.25

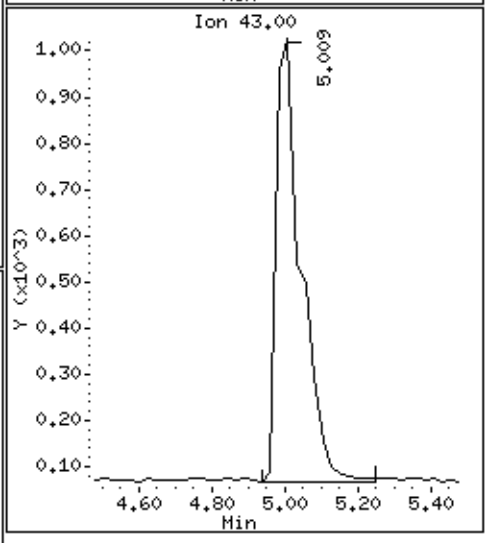
3 Ethanol

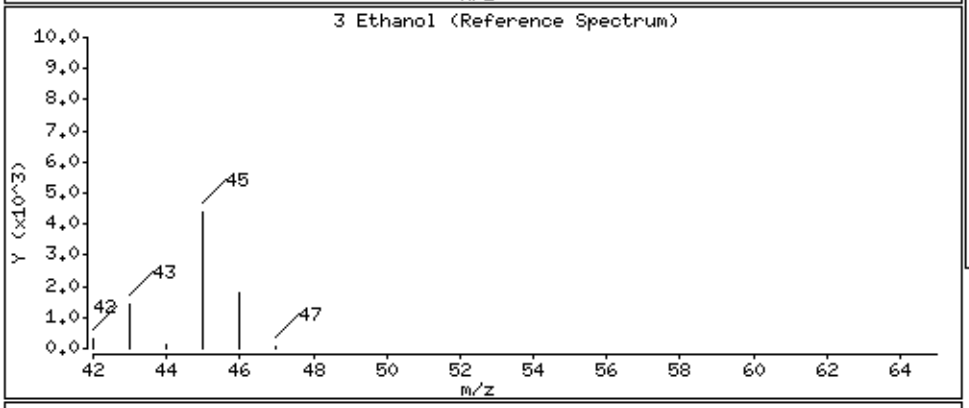
Concentration: 5.44205 ug

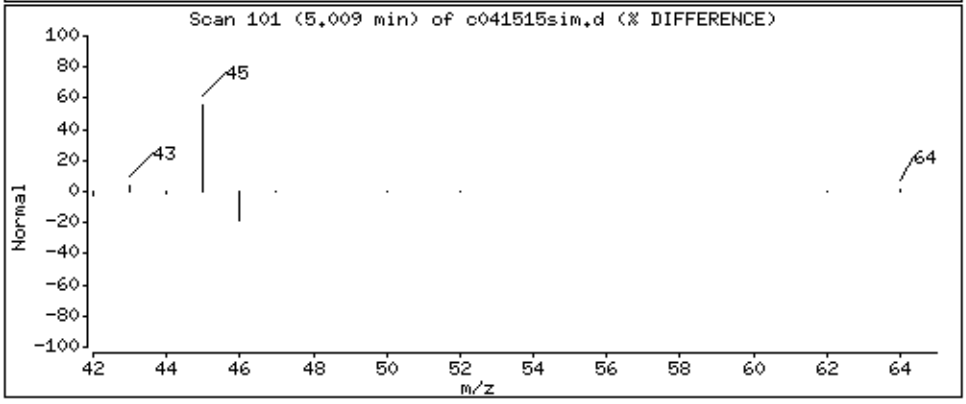












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

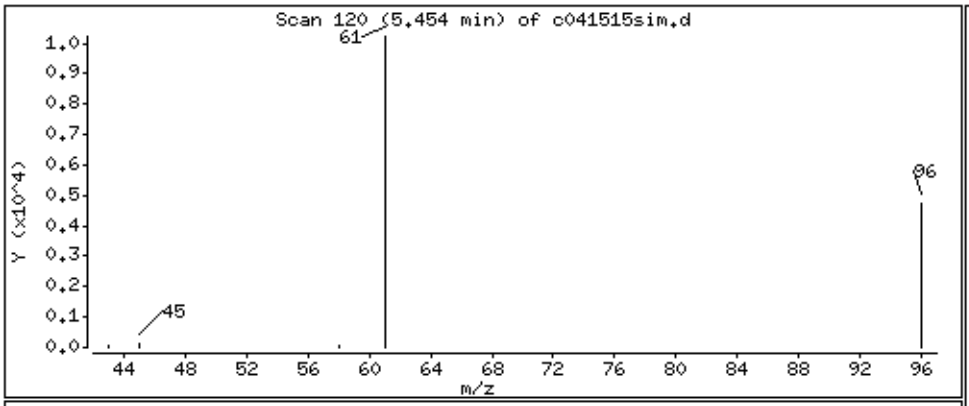
Operator: gm

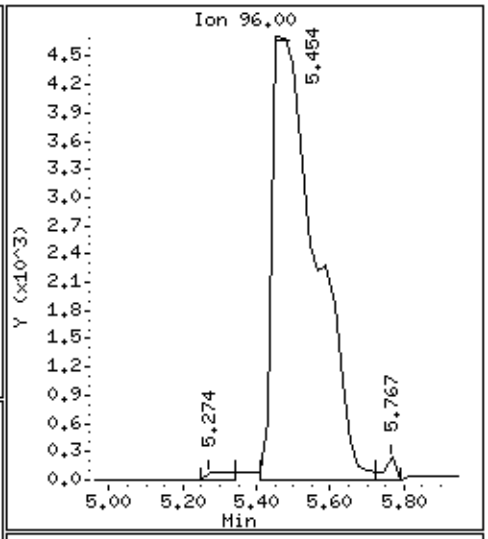
Column phase: DB-5.625

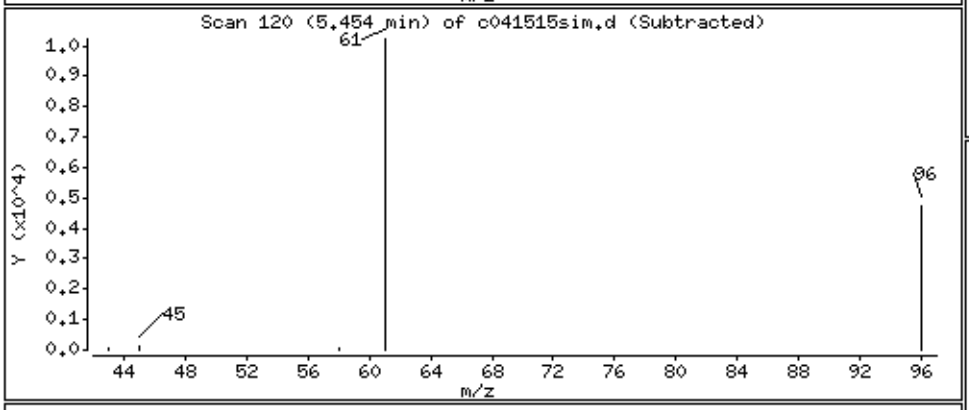
Column diameter: 0.25

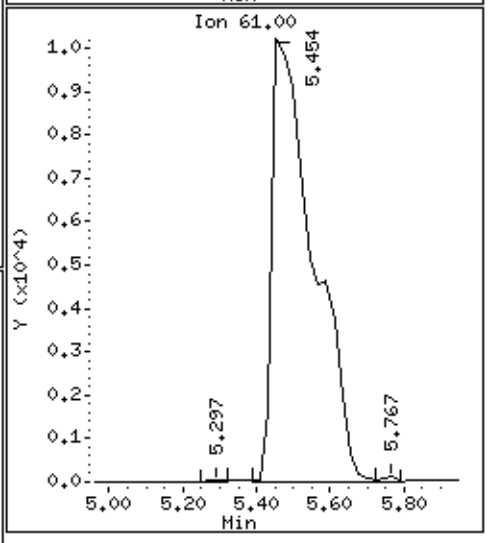
4 1,1-Dichloroethene-CCC

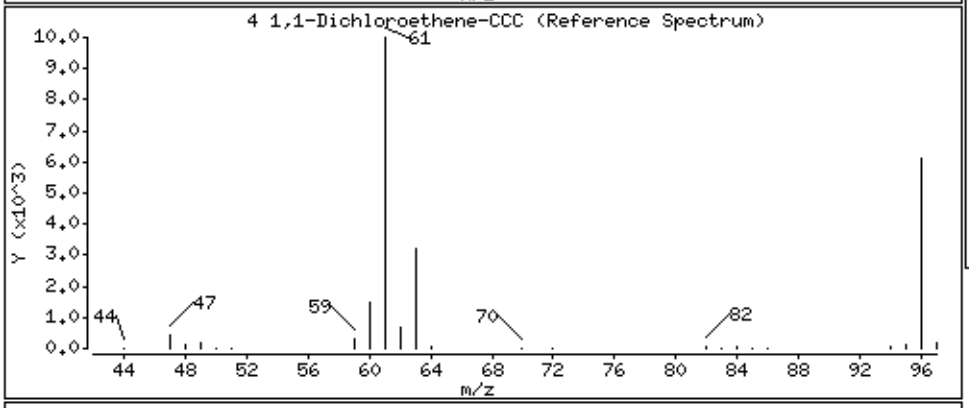
Concentration: 6.07945 ug

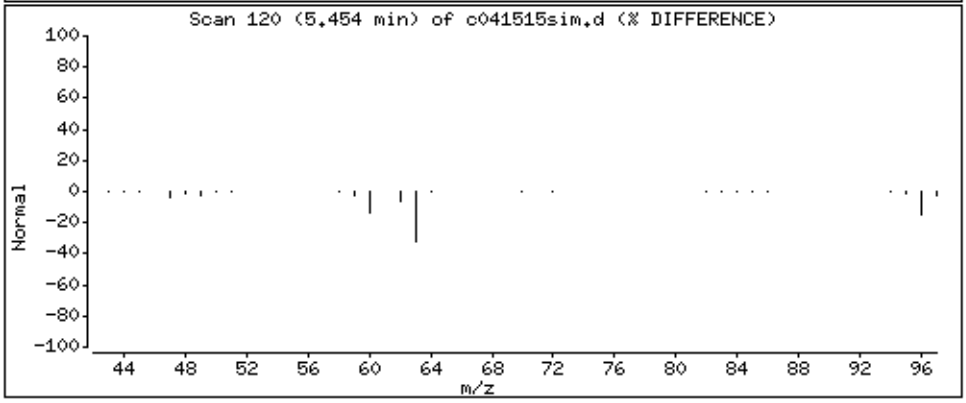












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

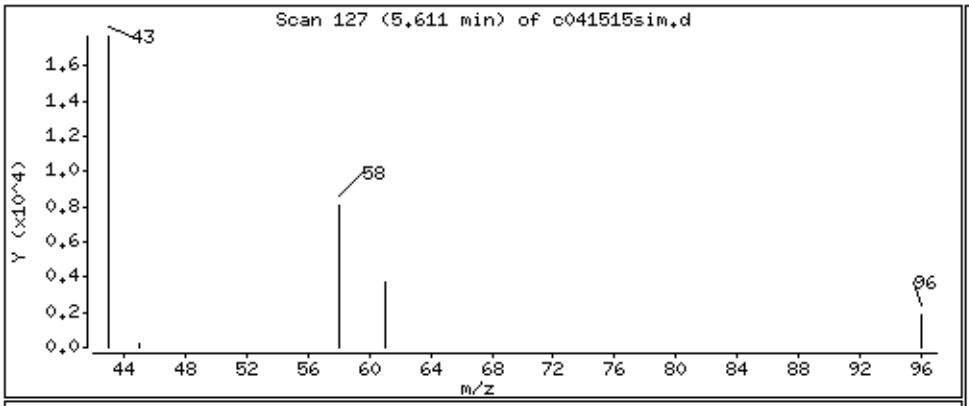
Operator: gm

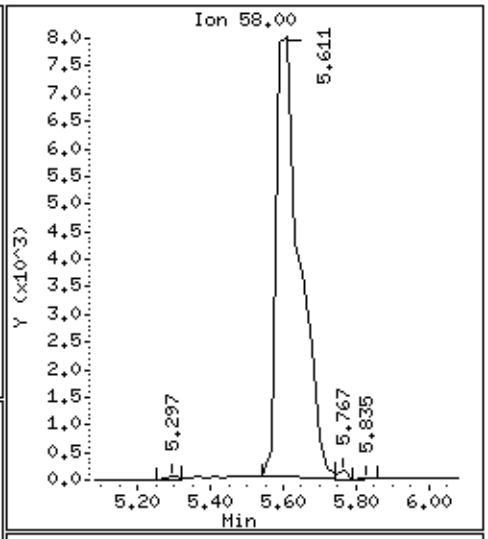
Column phase: DB-5.625

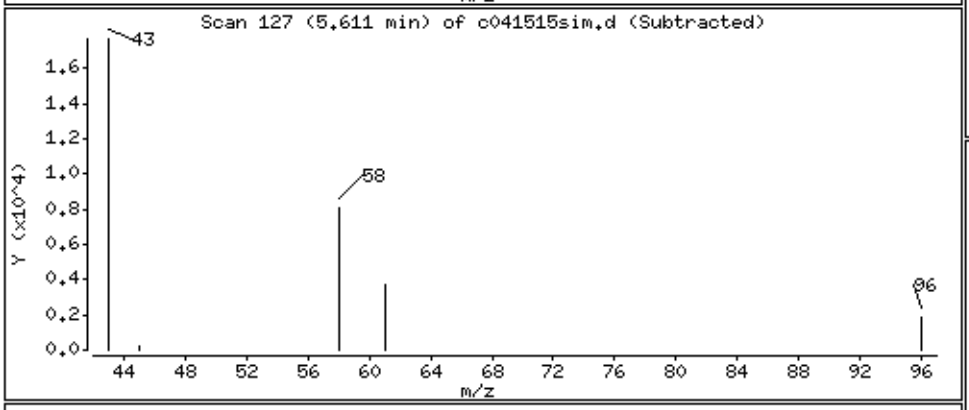
Column diameter: 0.25

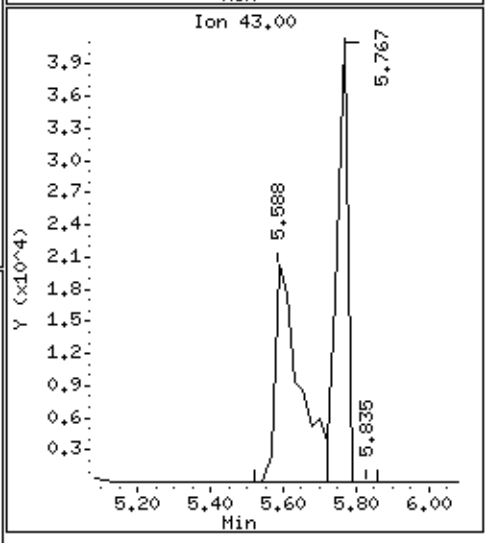
5 Acetone

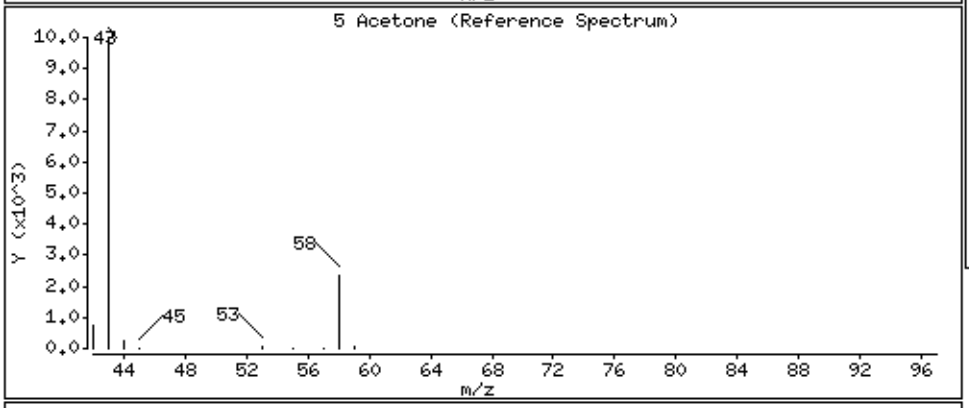
Concentration: 5.29477 ug

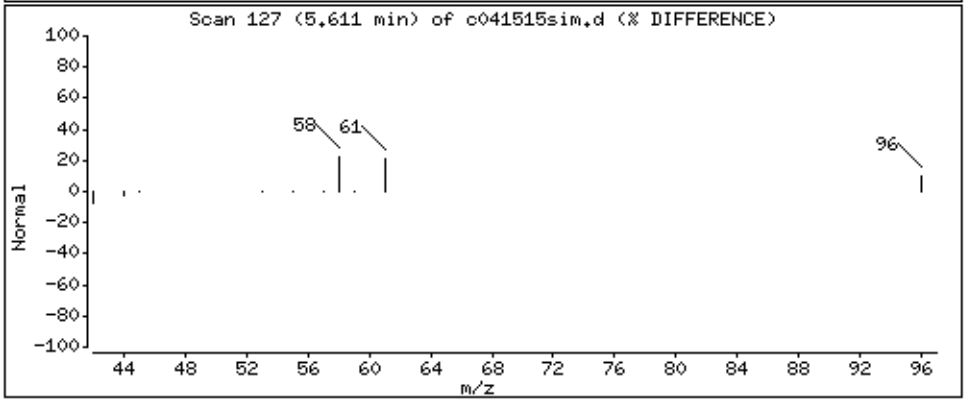












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

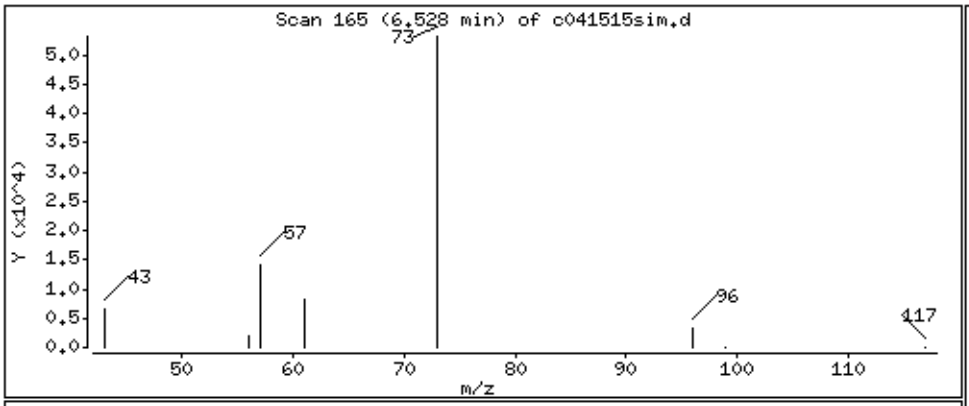
Operator: gm

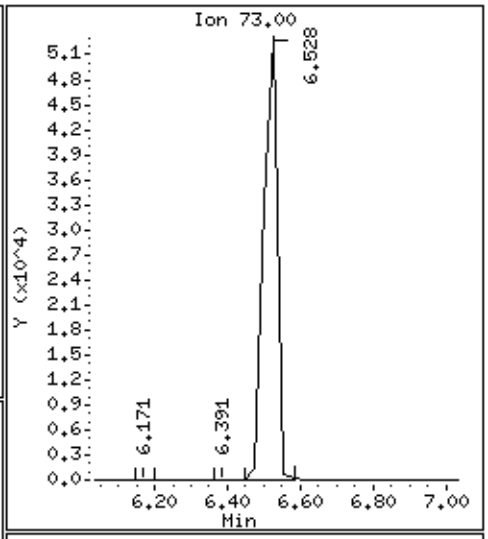
Column phase: DB-5.625

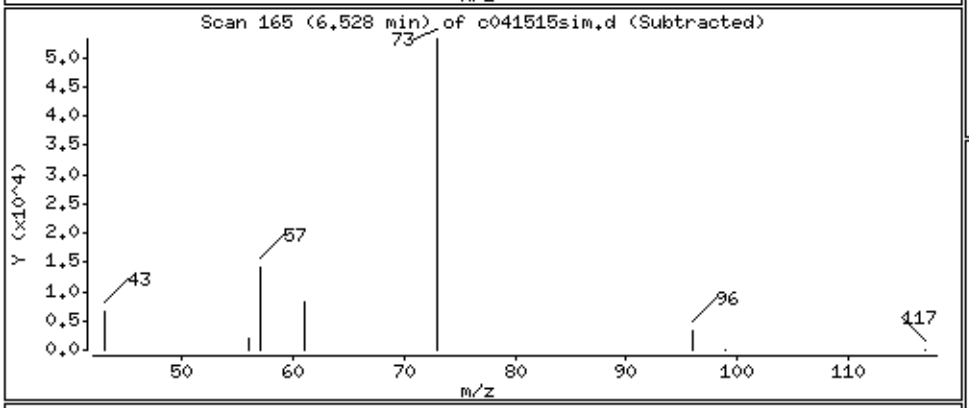
Column diameter: 0.25

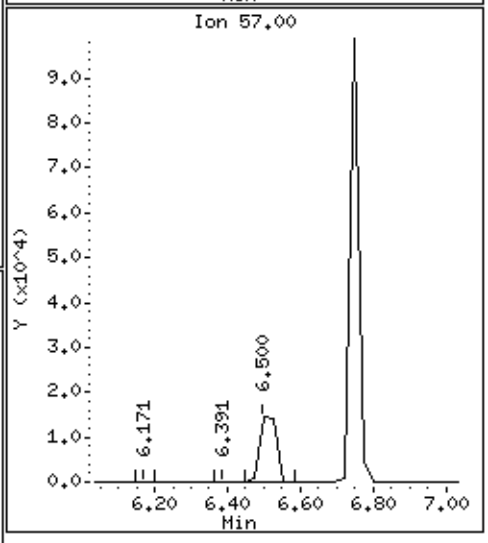
7 MTBE

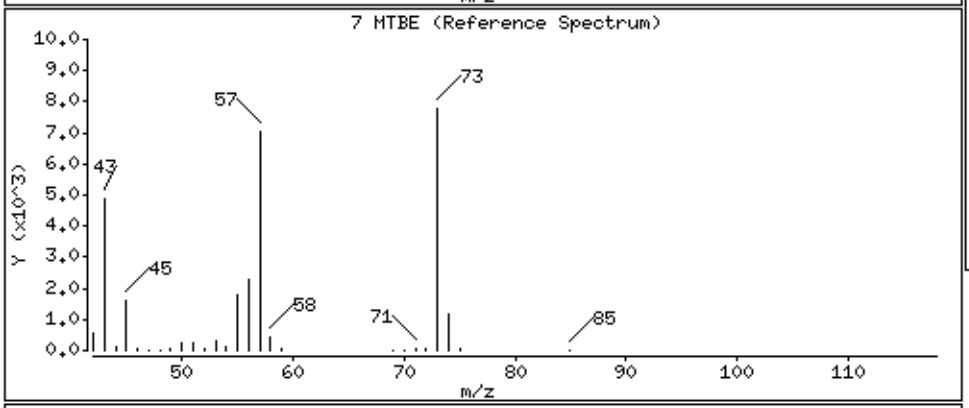
Concentration: 5.05374 ug

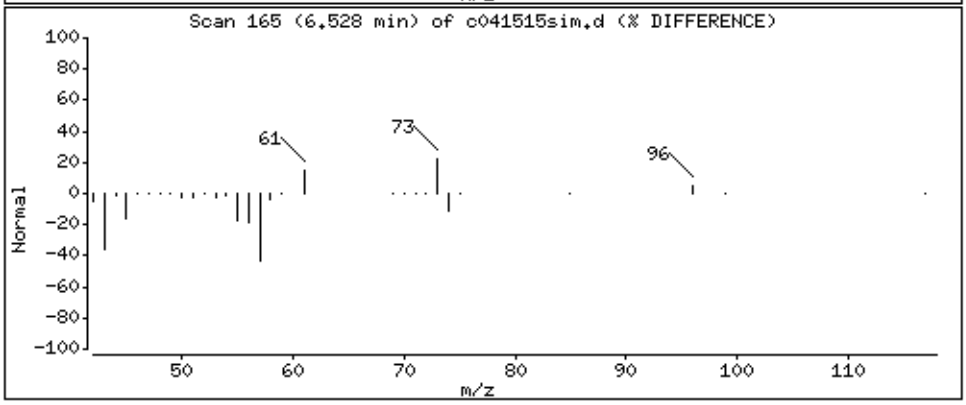












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

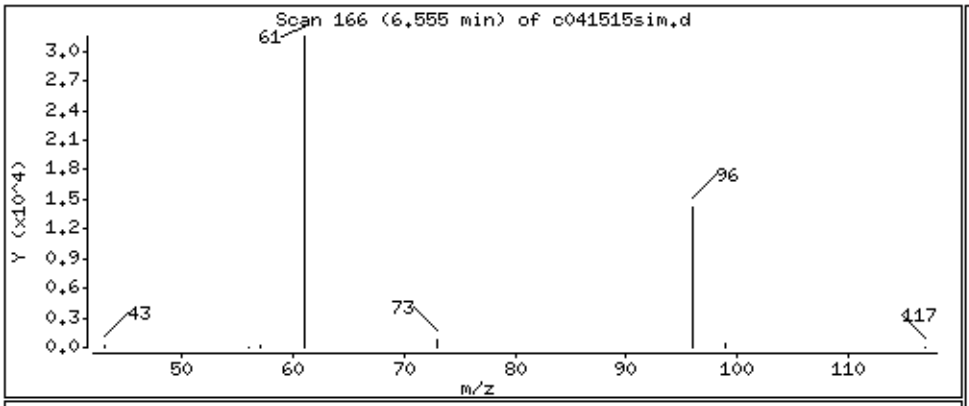
Operator: gm

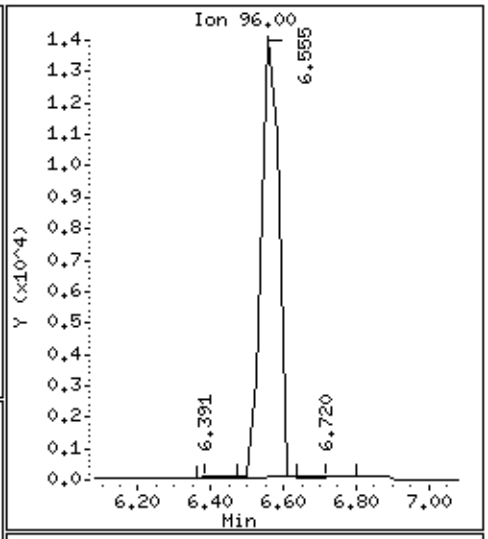
Column phase: DB-5.625

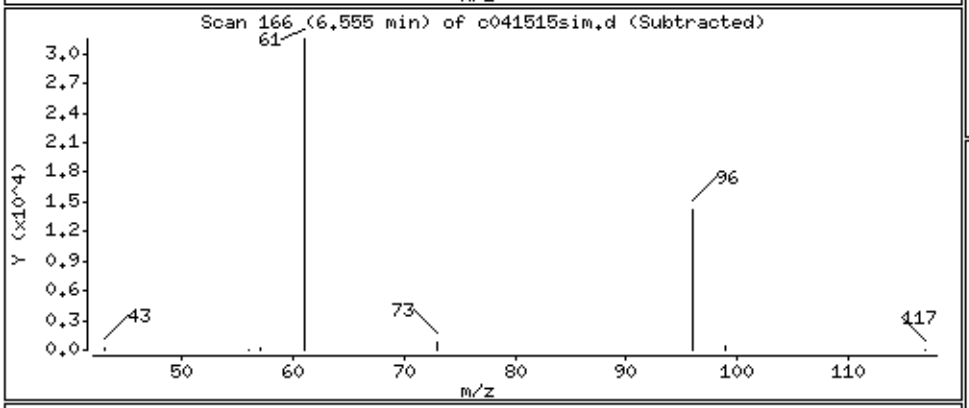
Column diameter: 0.25

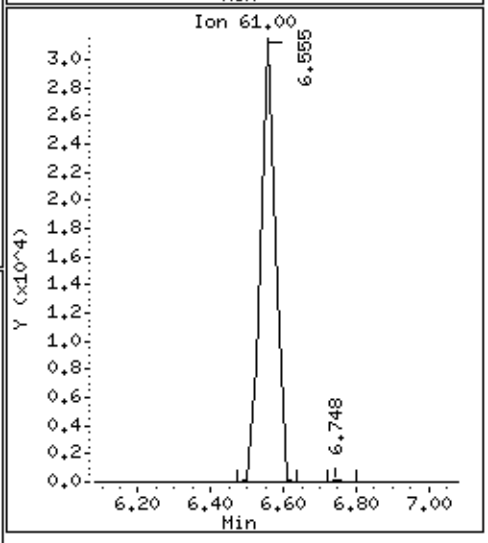
8 trans-1,2-Dichloroethene

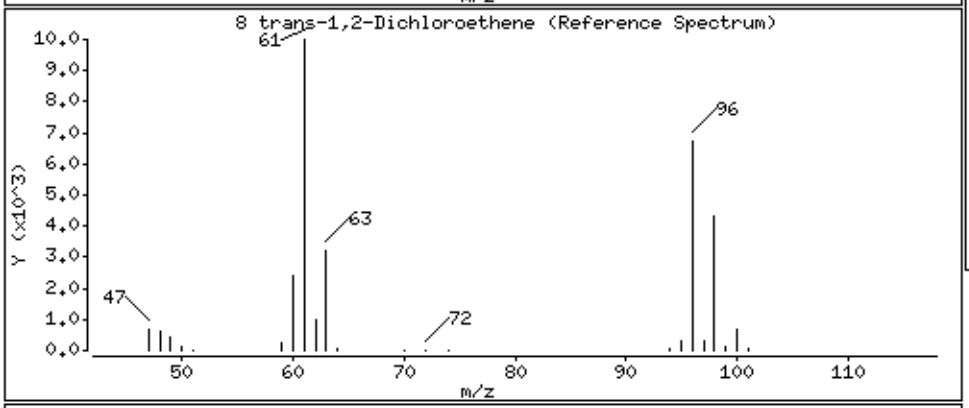
Concentration: 4.65062 ug

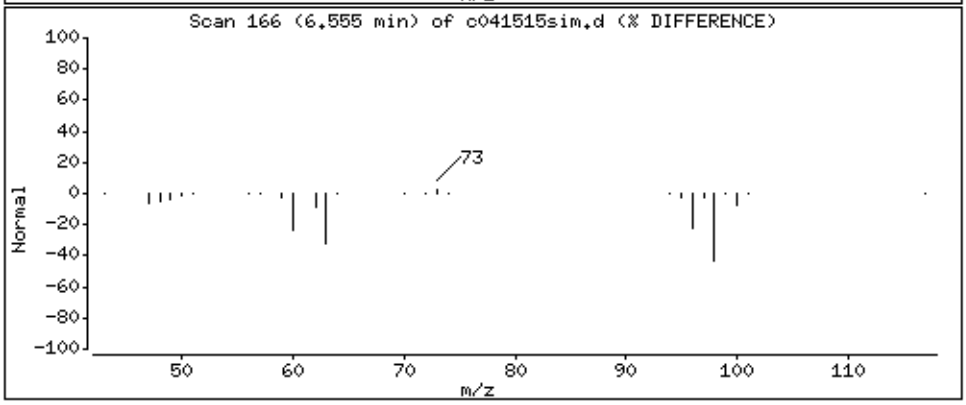












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

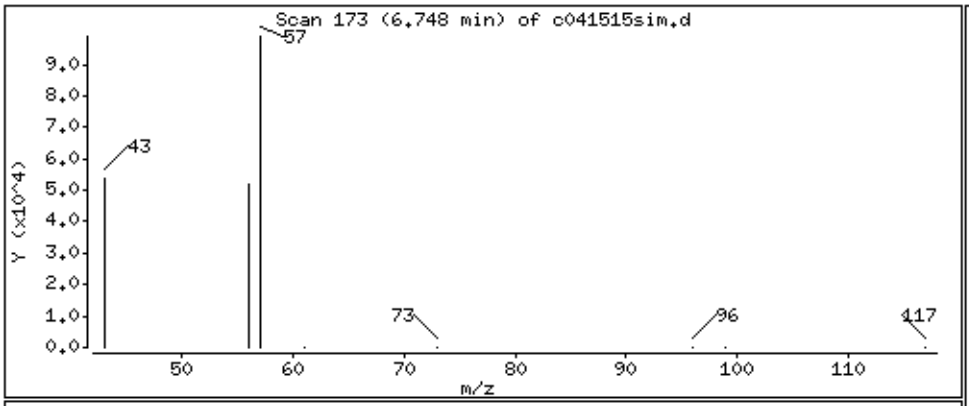
Operator: gm

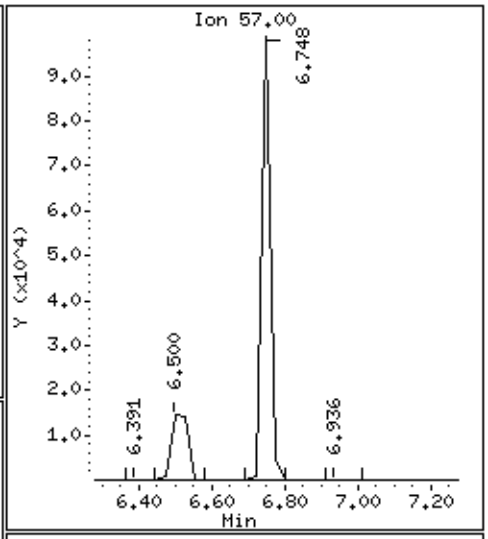
Column phase: DB-5.625

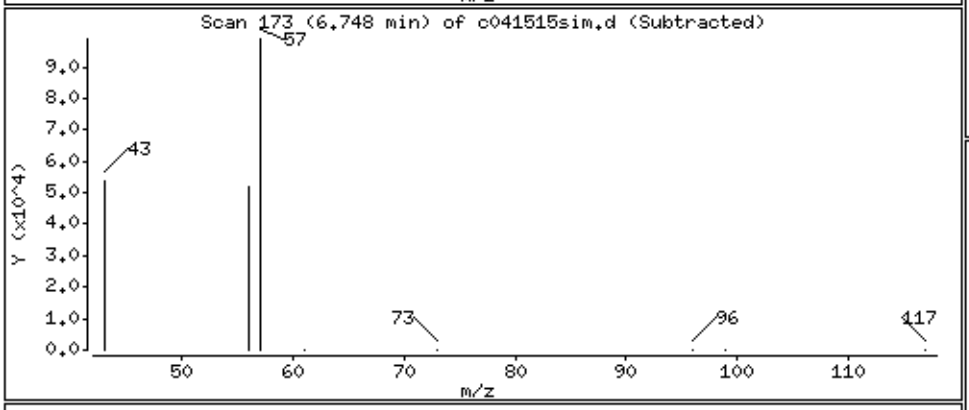
Column diameter: 0.25

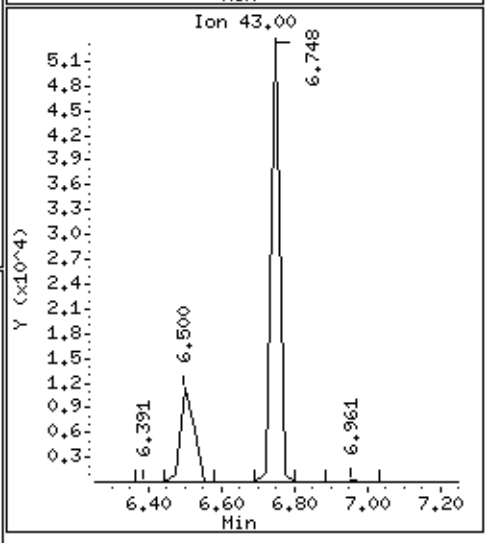
9 Hexane

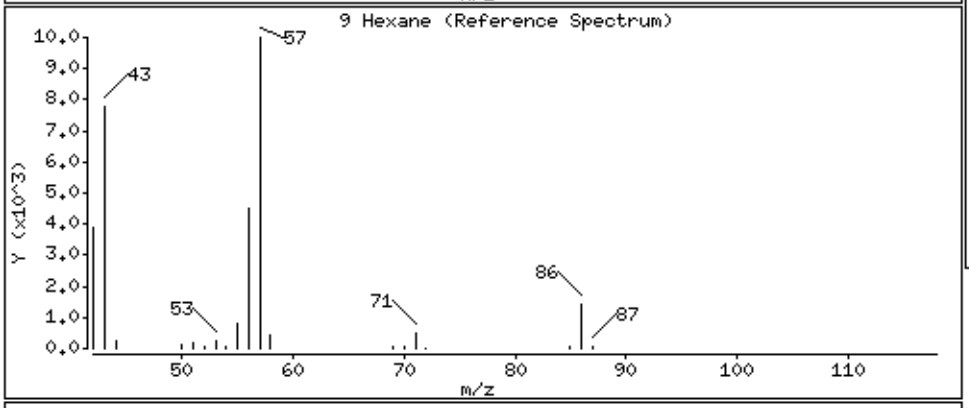
Concentration: 5.77652 ug

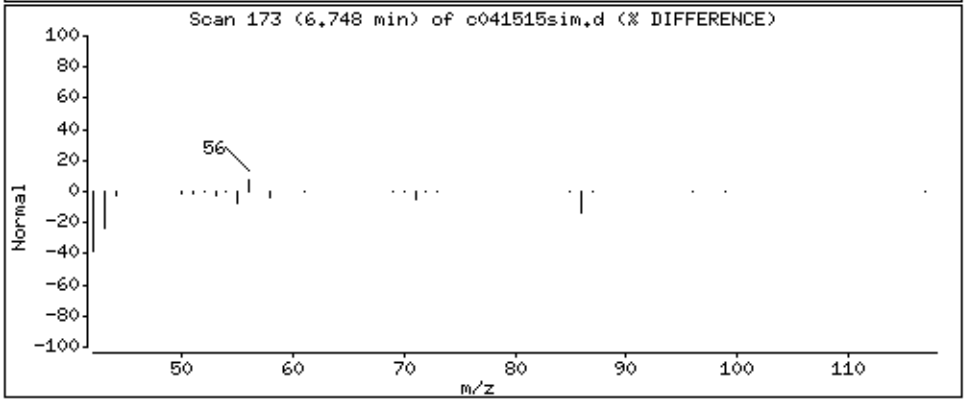












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

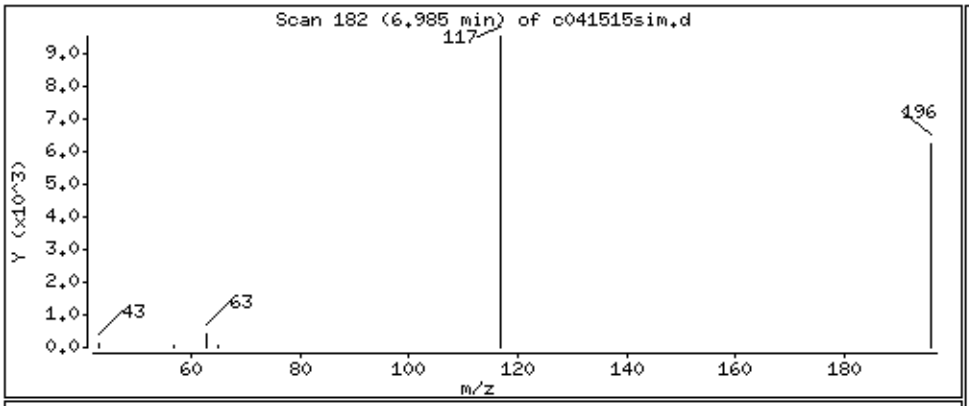
Operator: gm

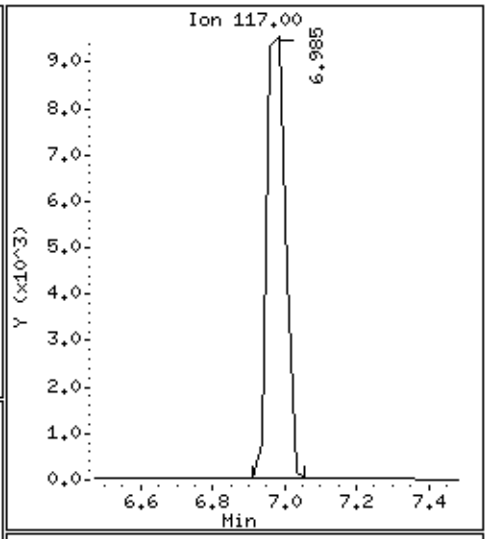
Column phase: DB-5.625

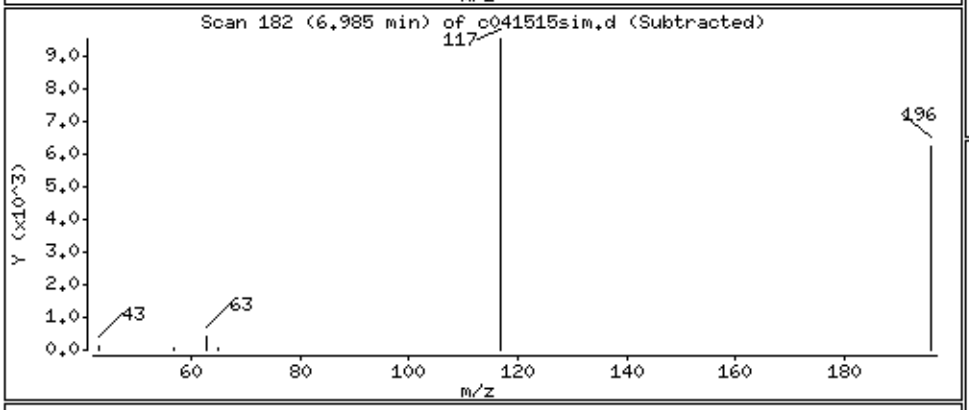
Column diameter: 0.25

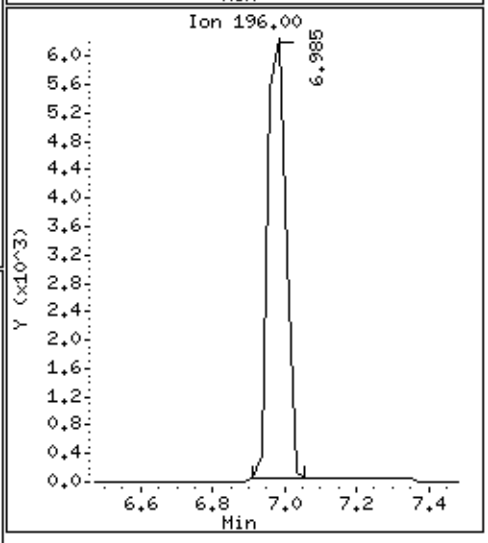
10 Halothane

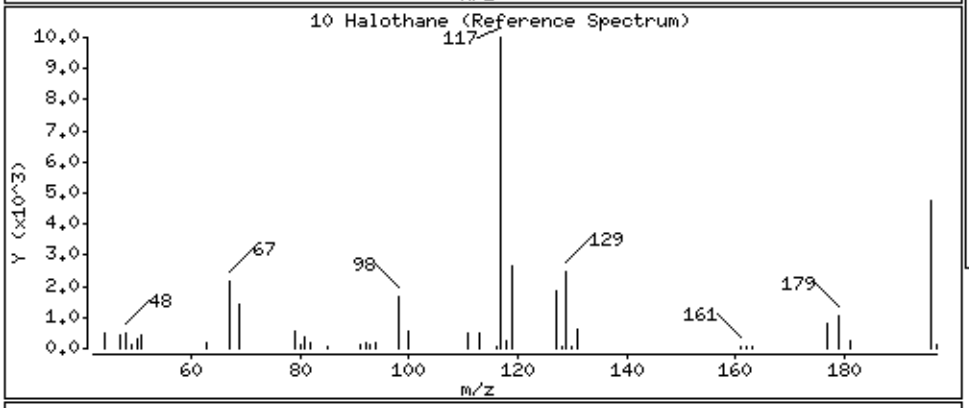
Concentration: 5.34247 ug

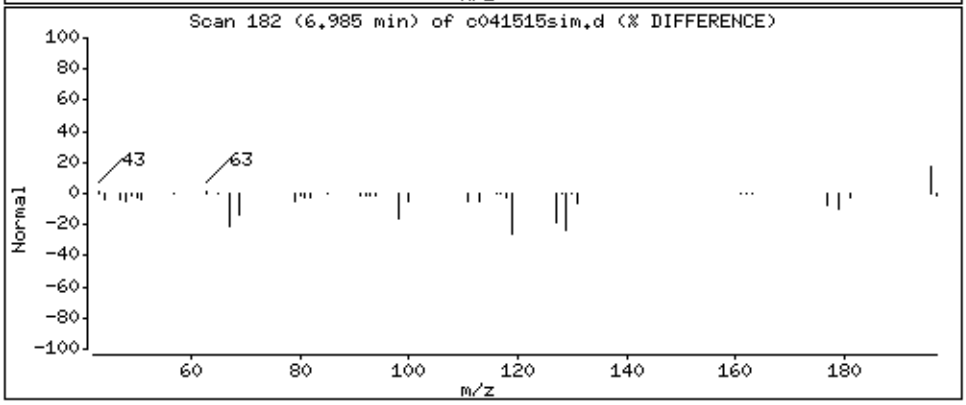












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

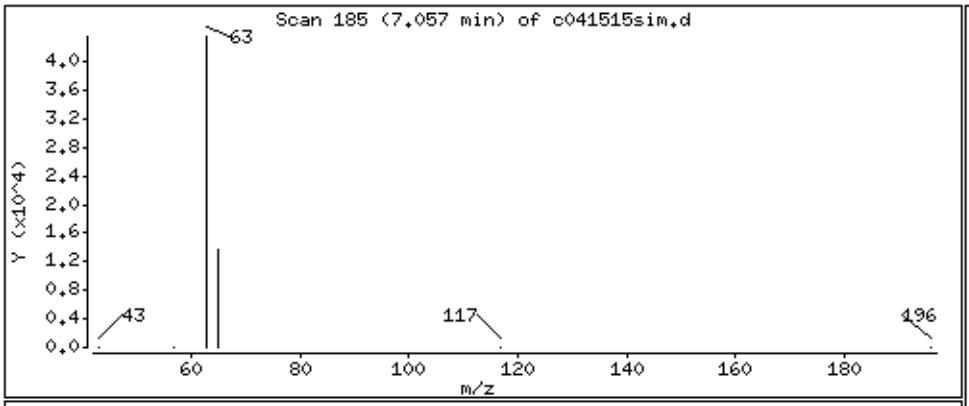
Operator: gm

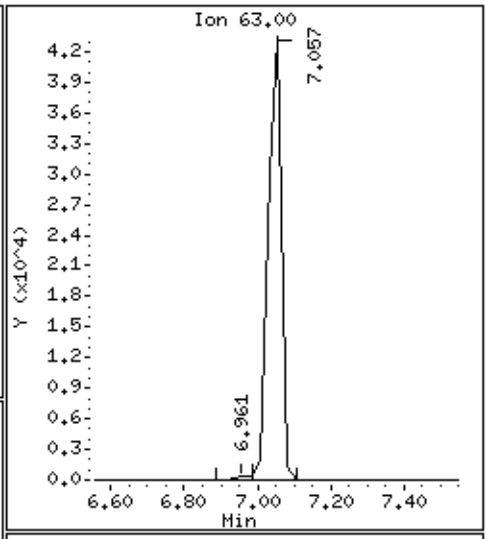
Column phase: DB-5.625

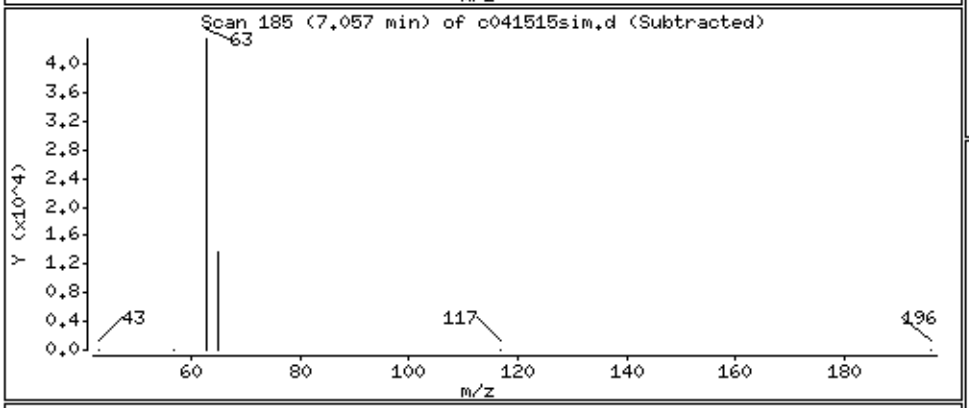
Column diameter: 0.25

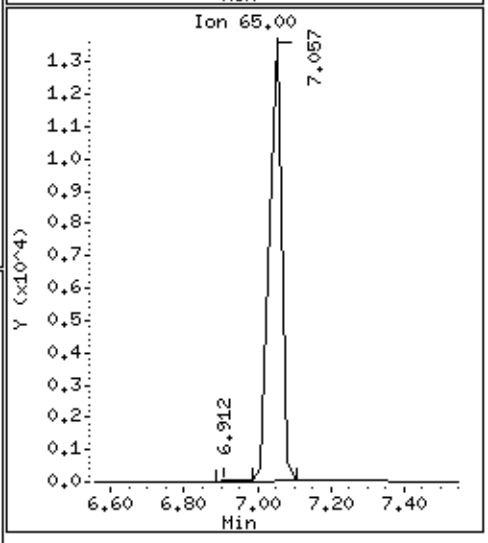
11 1,1-Dichloroethane-SPCC

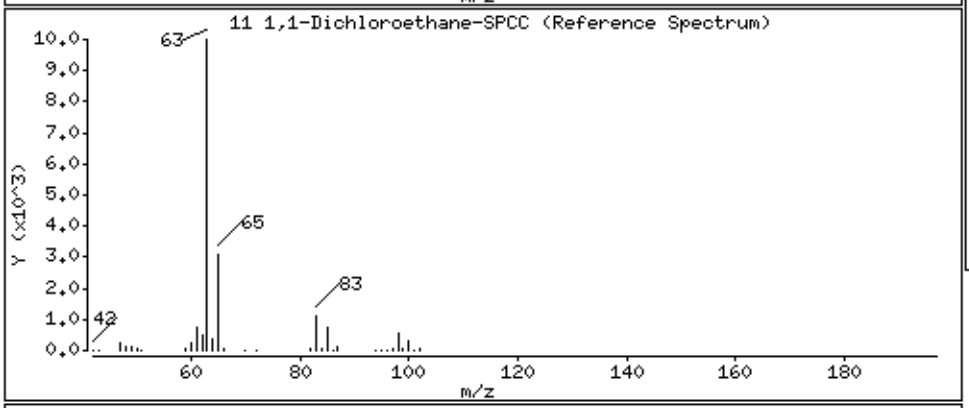
Concentration: 5.10358 ug

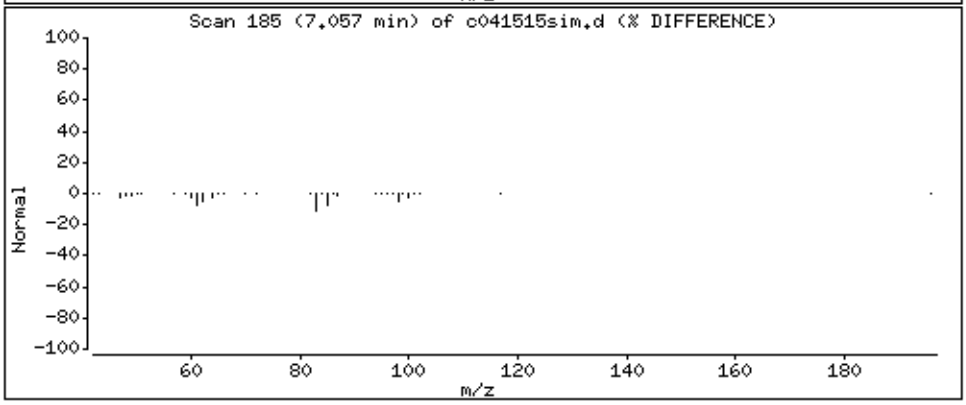












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

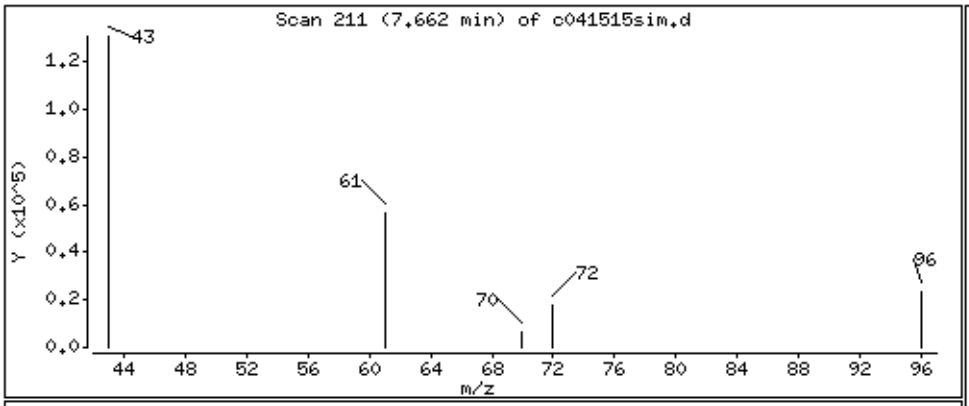
Operator: gm

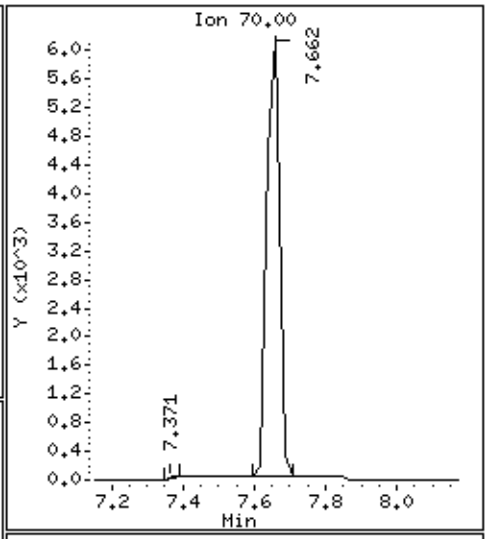
Column phase: DB-5.625

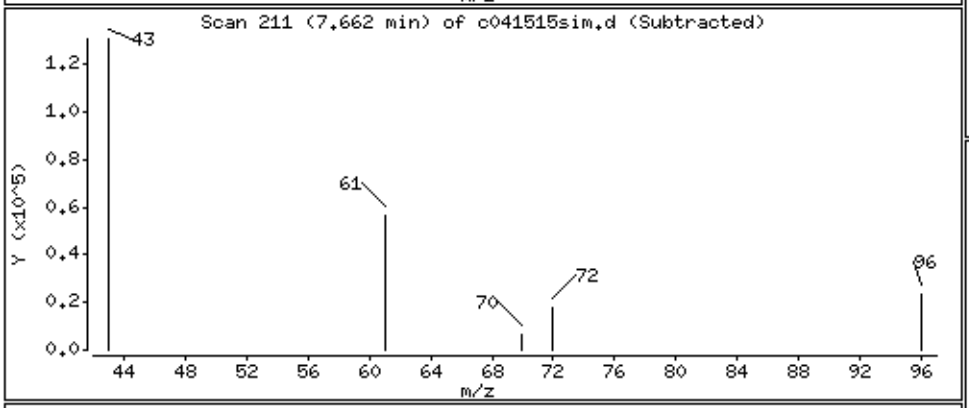
Column diameter: 0.25

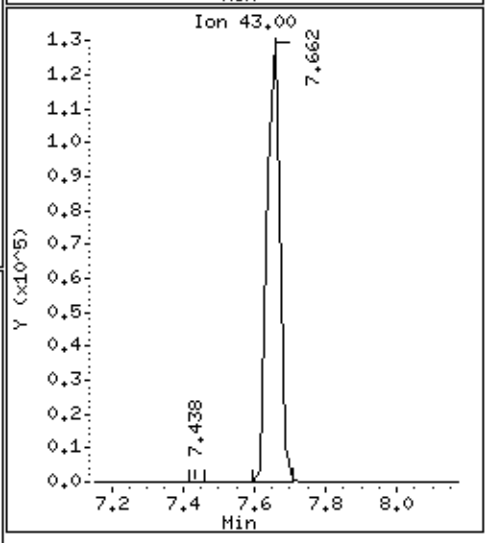
12 Ethyl Acetate

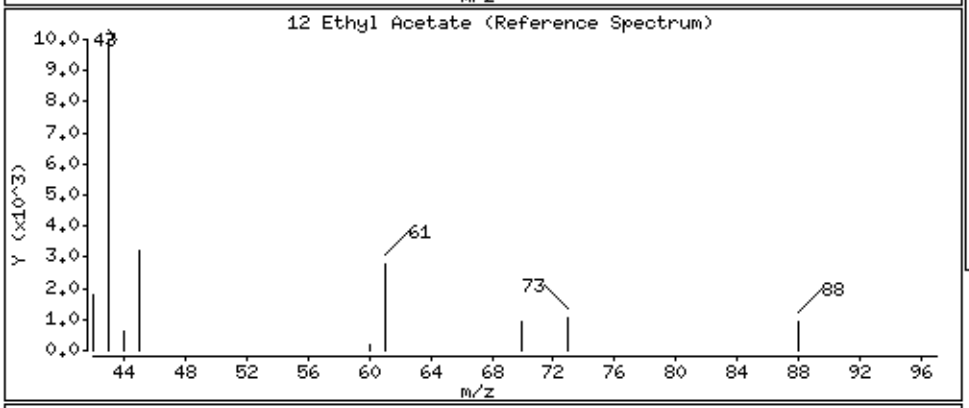
Concentration: 4.97639 ug

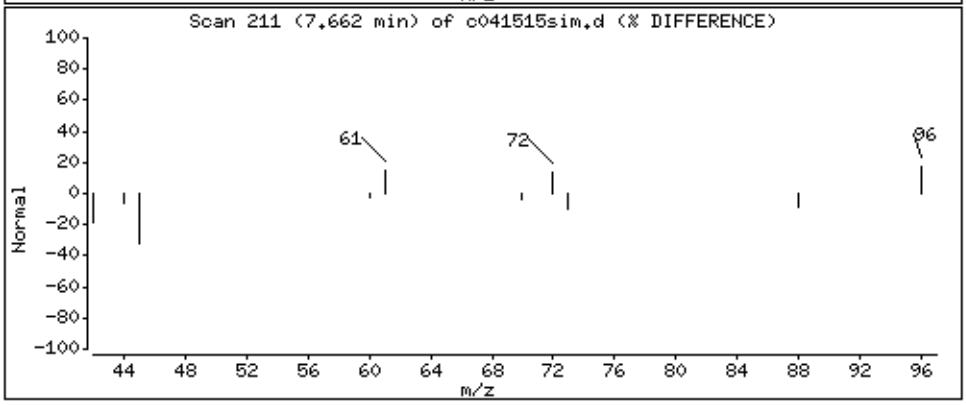












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

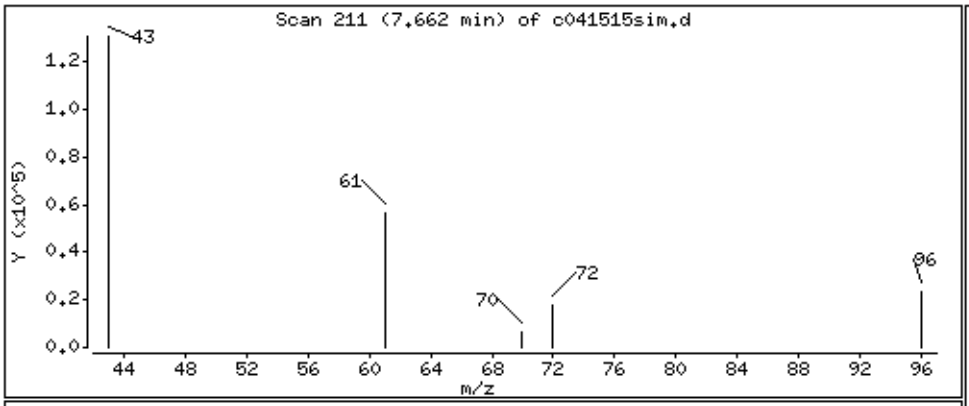
Operator: gm

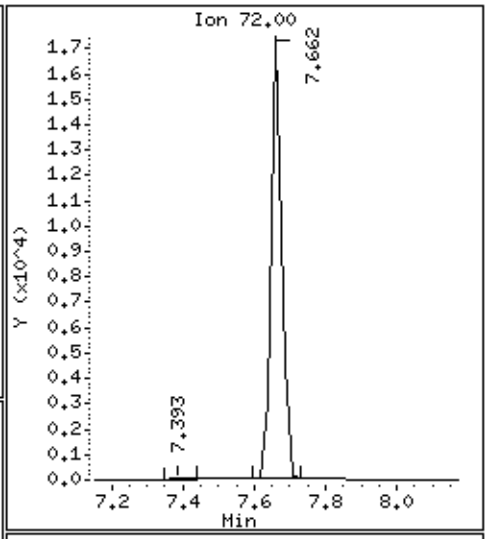
Column phase: DB-5.625

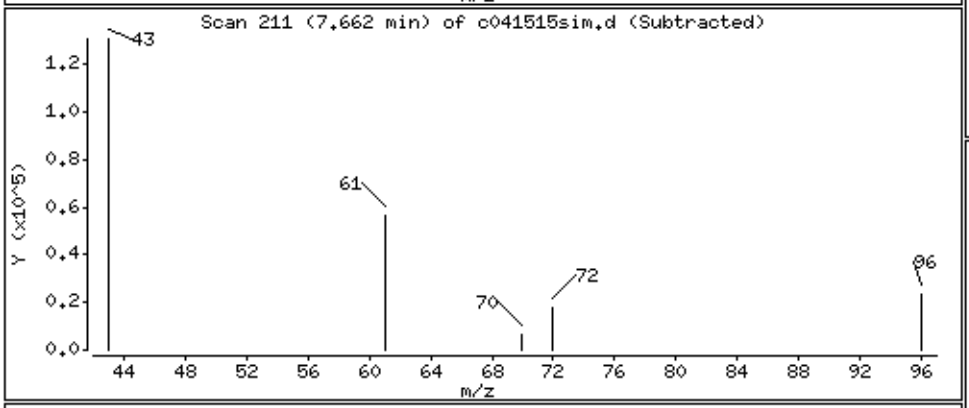
Column diameter: 0.25

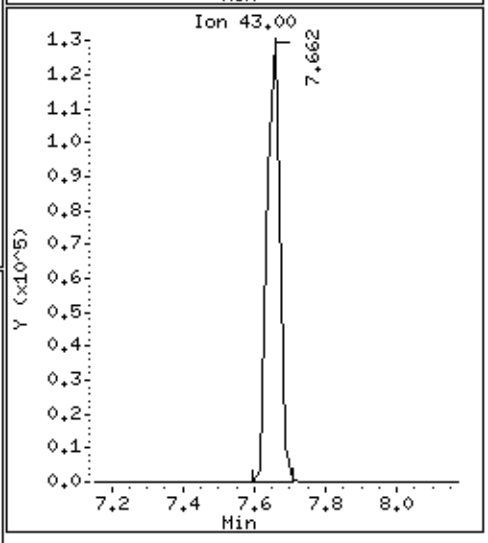
13 2-Butanone

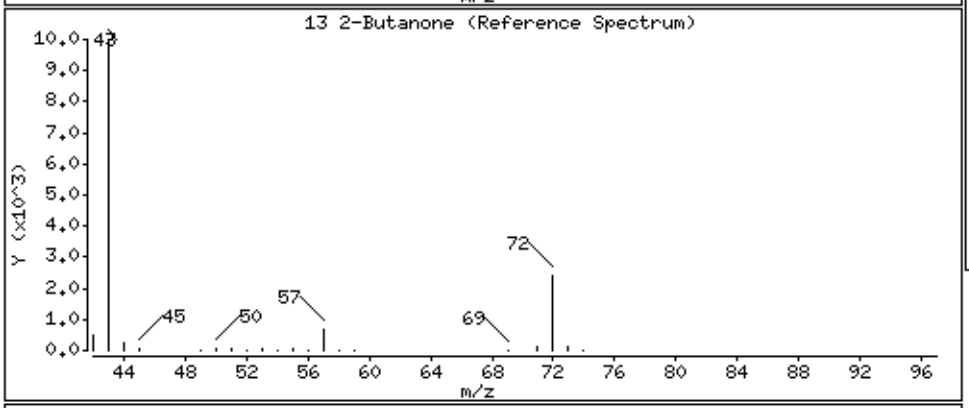
Concentration: 5.07471 ug

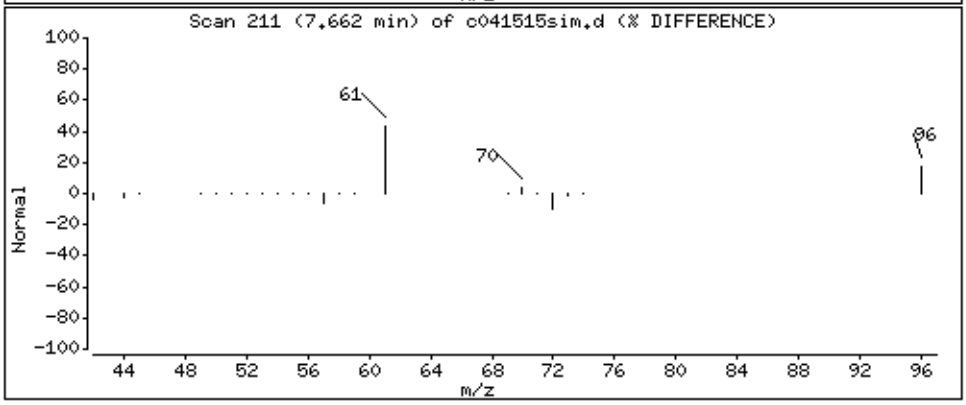












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

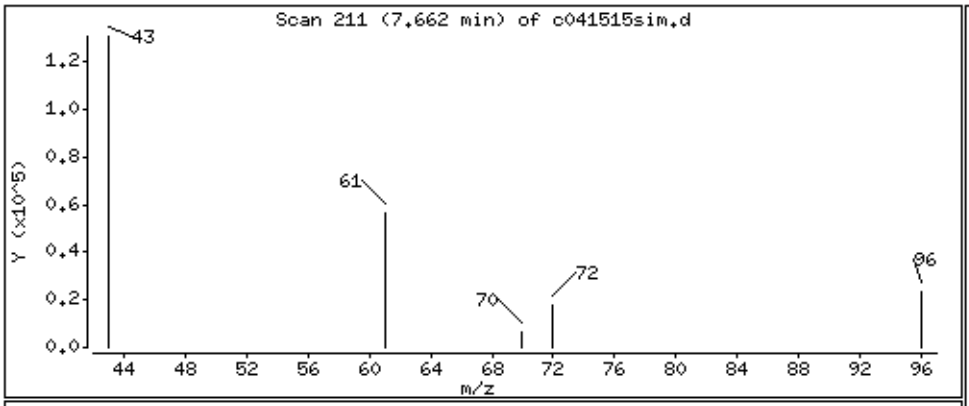
Operator: gm

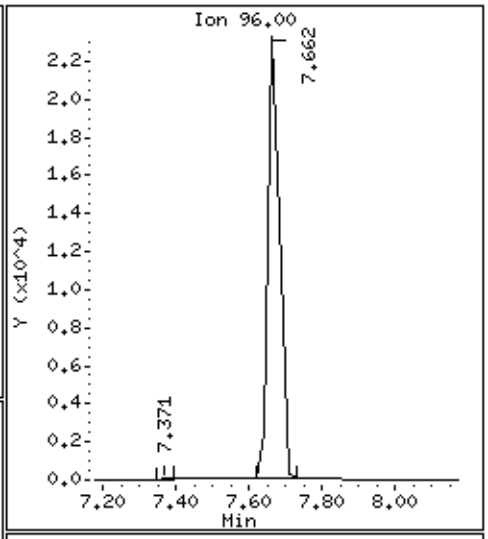
Column phase: DB-5.625

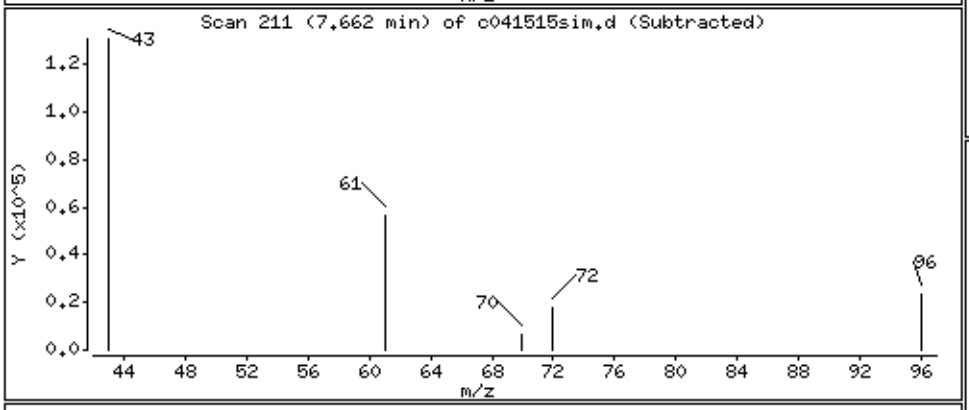
Column diameter: 0.25

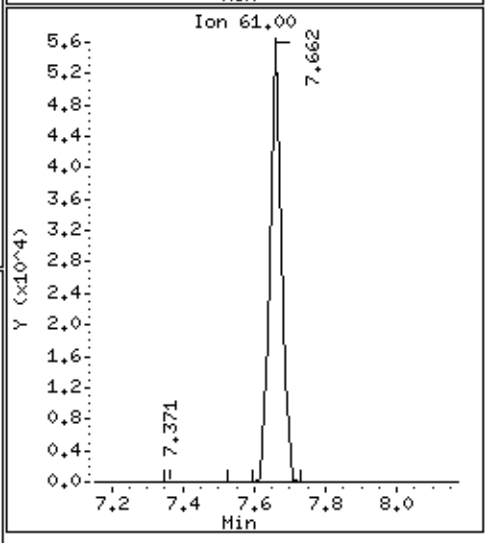
14 cis-1,2-Dichloroethene

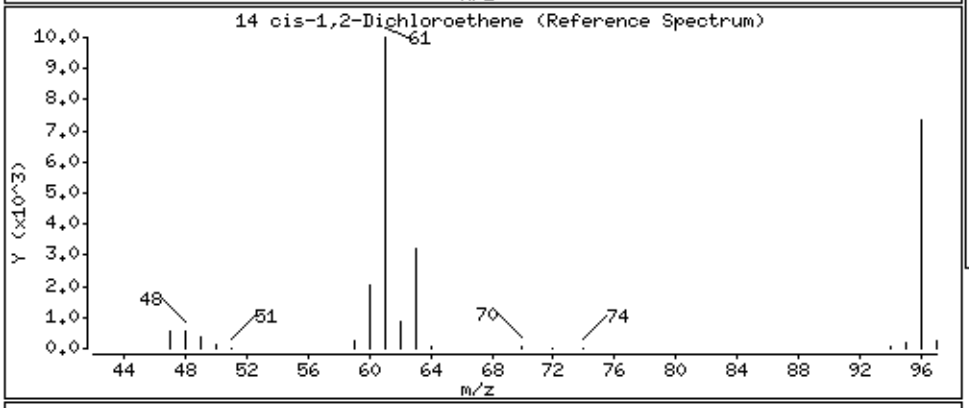
Concentration: 4.90270 ug

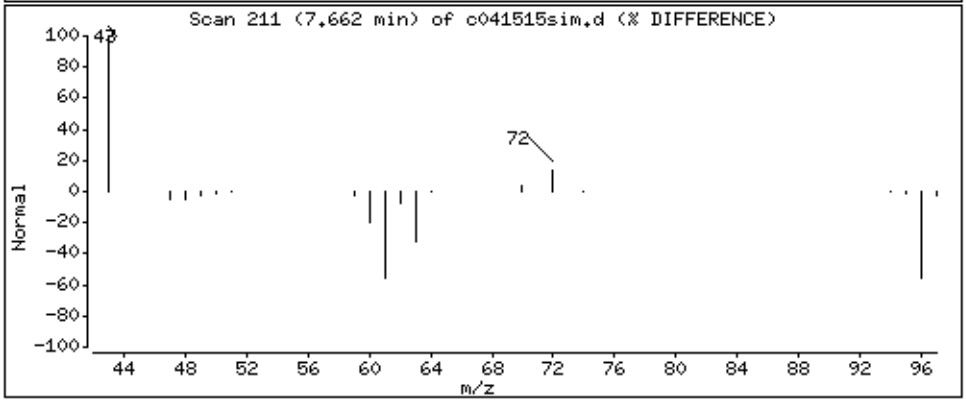












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

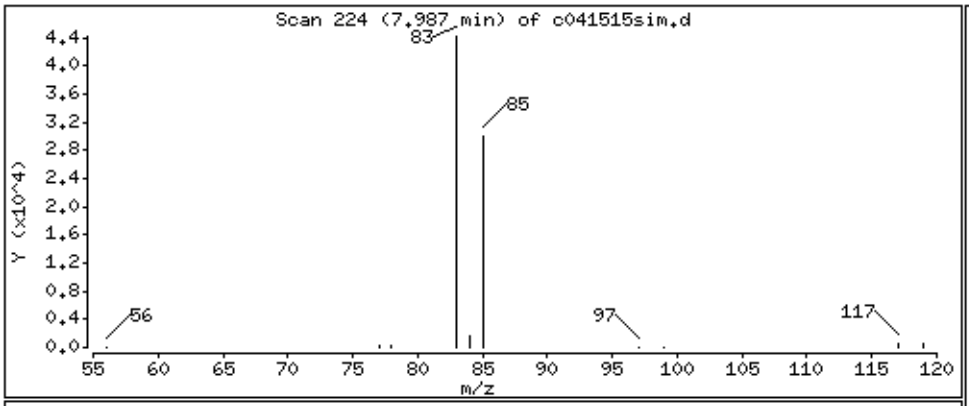
Operator: gm

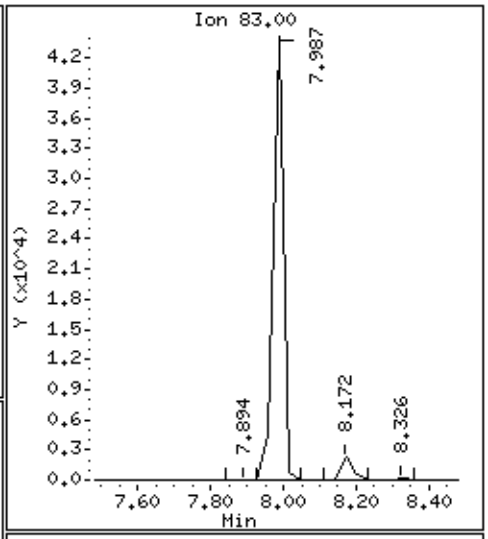
Column phase: DB-5.625

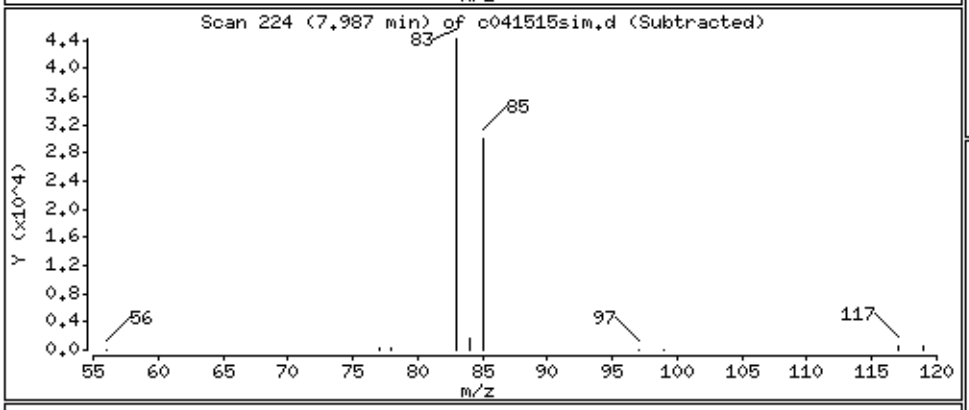
Column diameter: 0.25

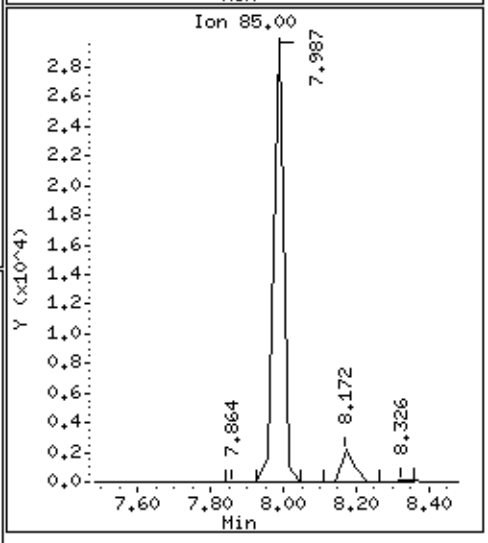
15 Chloroform-CCC

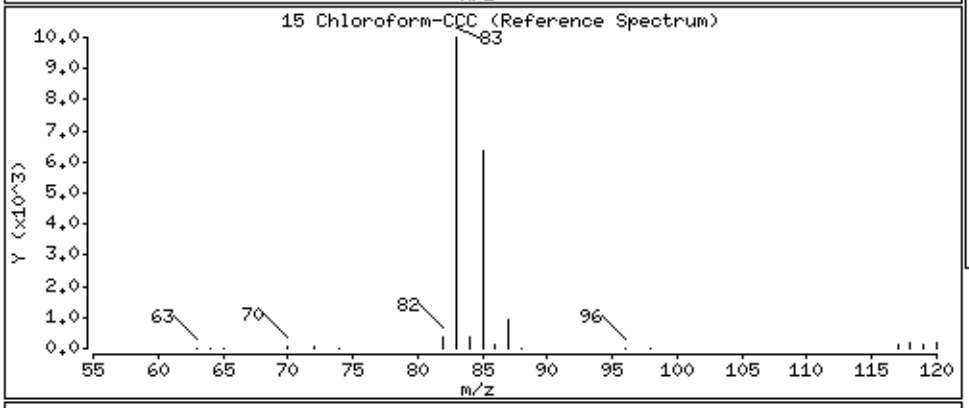
Concentration: 4.96043 ug

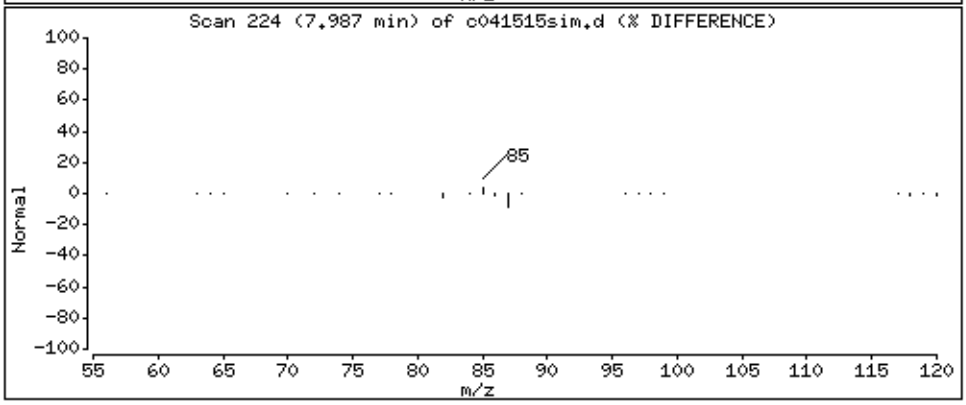












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

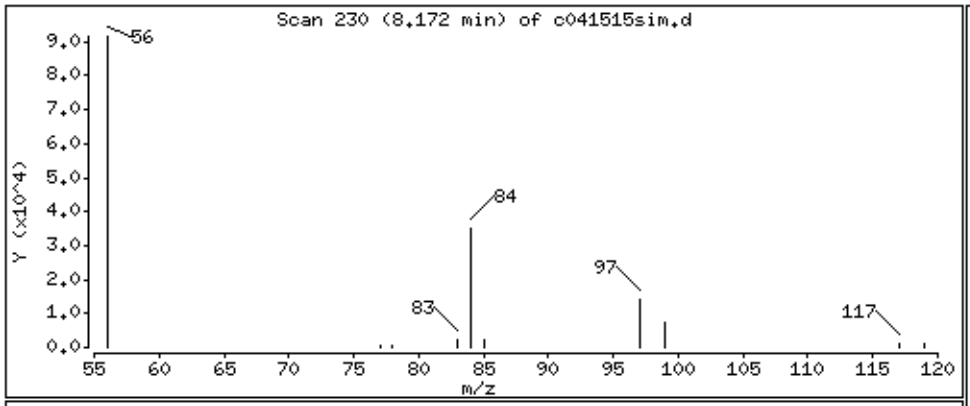
Operator: gm

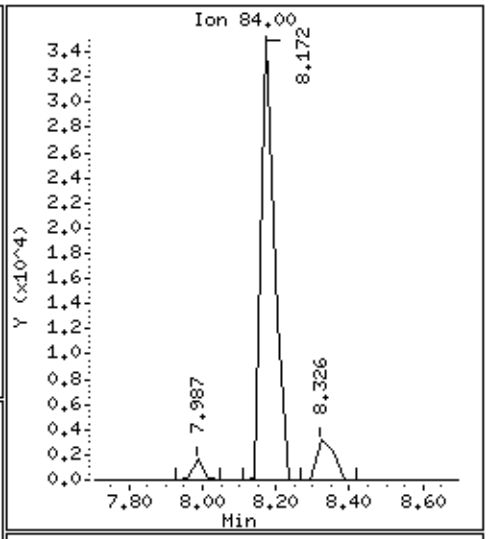
Column phase: DB-5.625

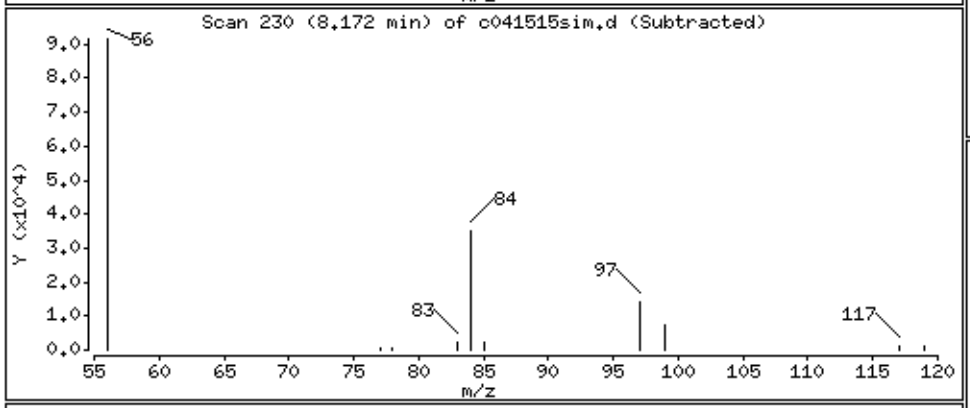
Column diameter: 0.25

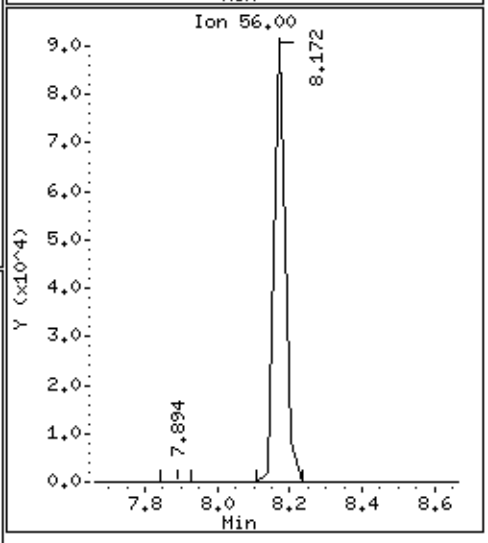
16 Cyclohexane

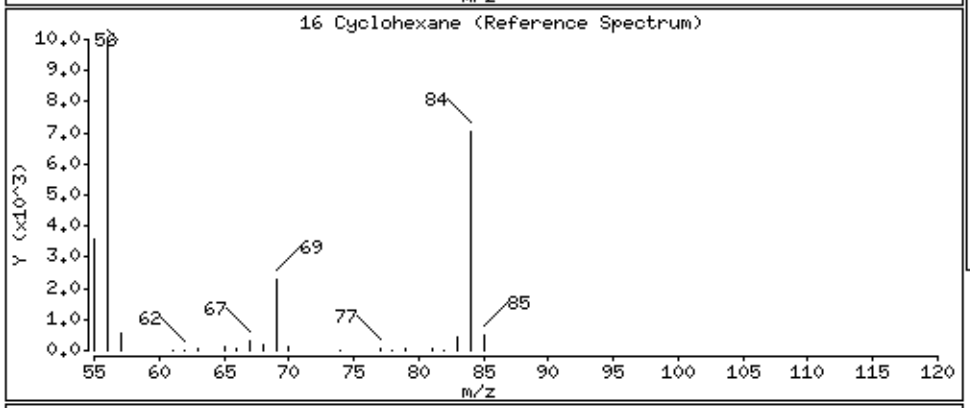
Concentration: 4.80852 ug

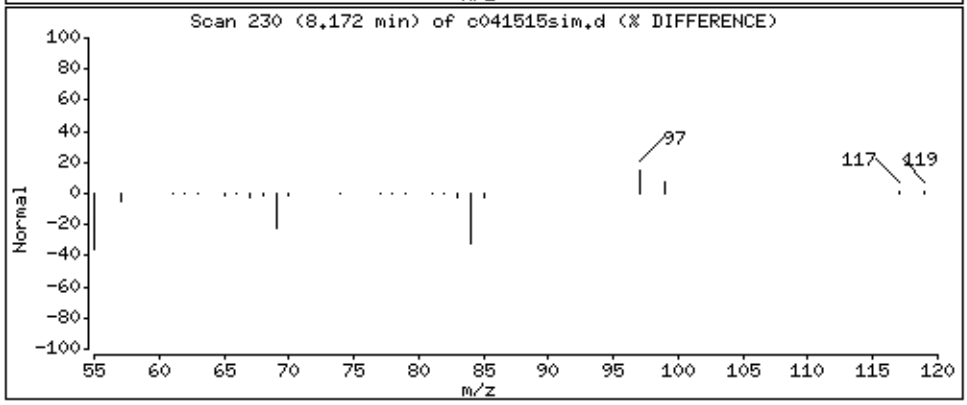












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

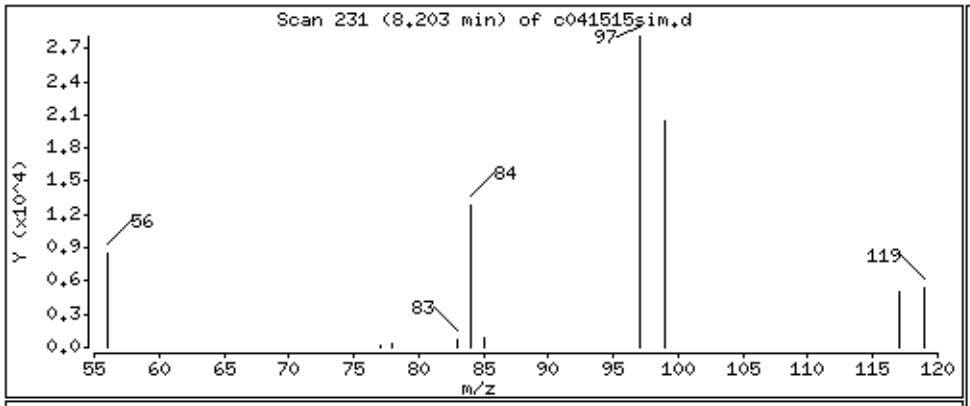
Operator: gm

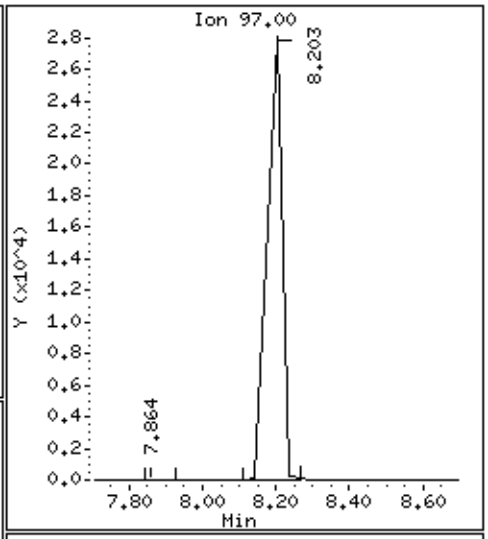
Column phase: DB-5.625

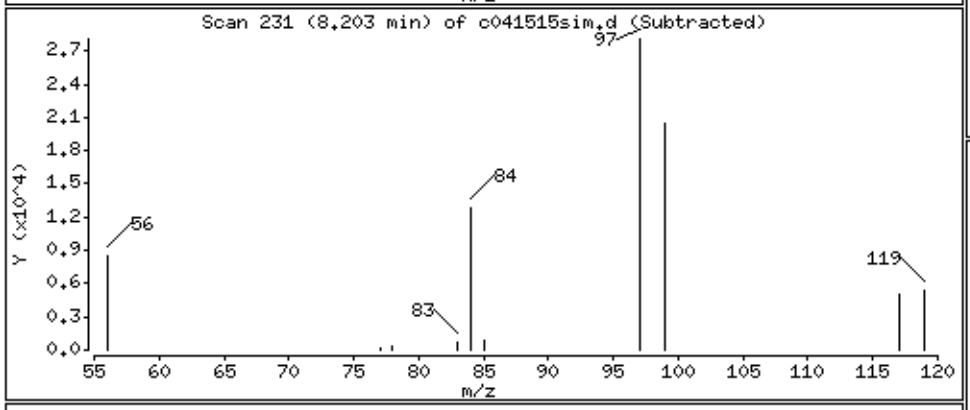
Column diameter: 0.25

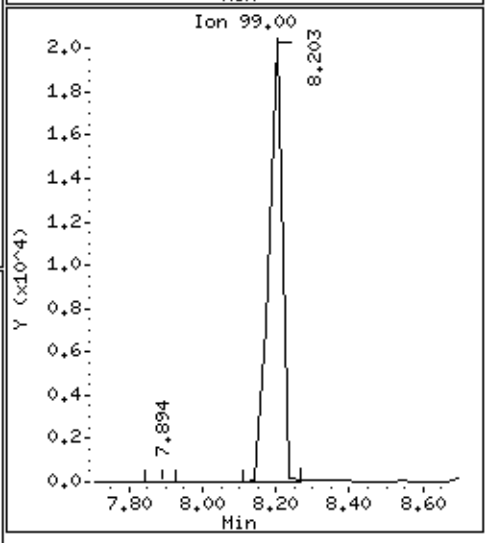
17 1,1,1-Trichloroethane

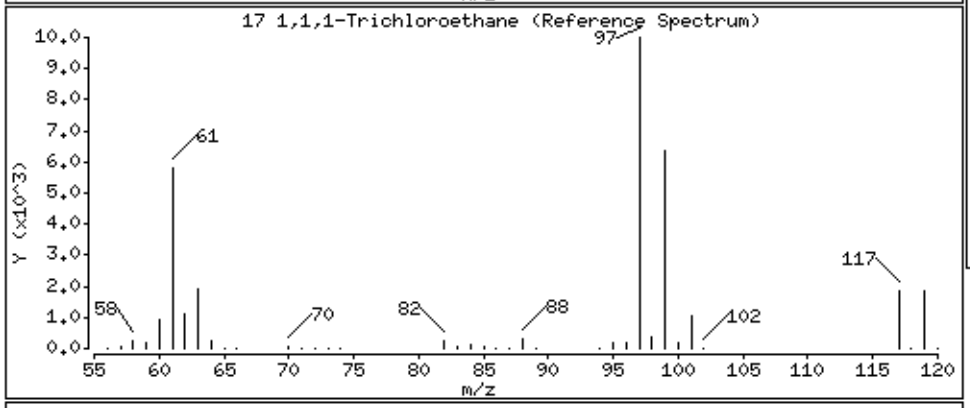
Concentration: 4.55801 ug

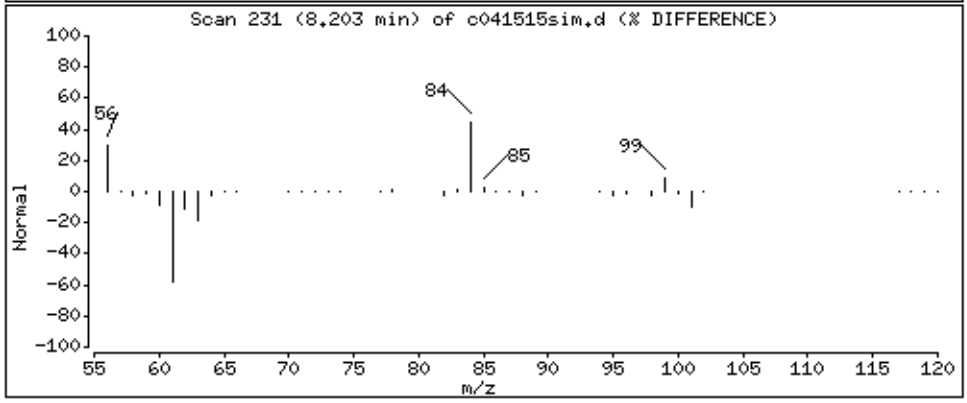












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

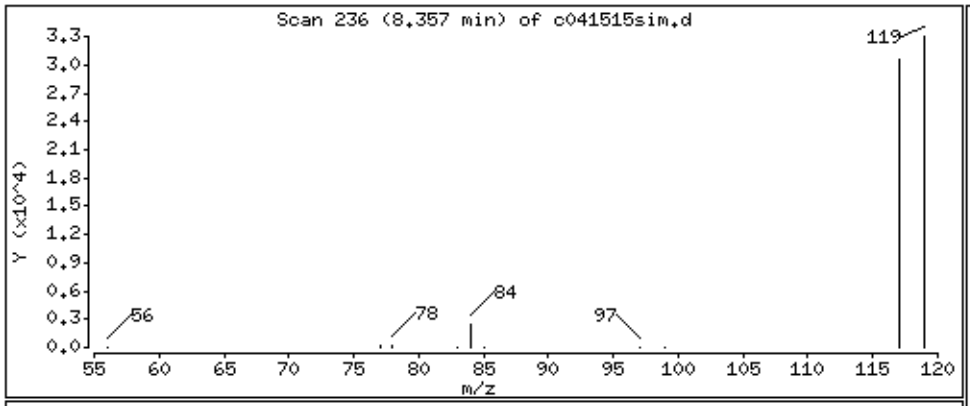
Operator: gm

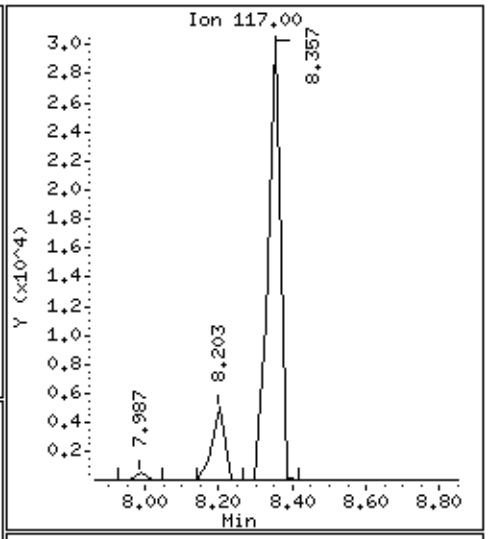
Column phase: DB-5.625

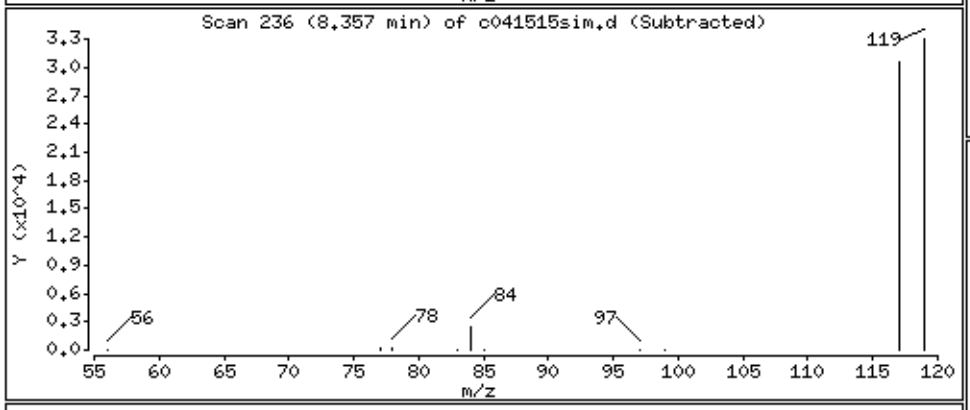
Column diameter: 0.25

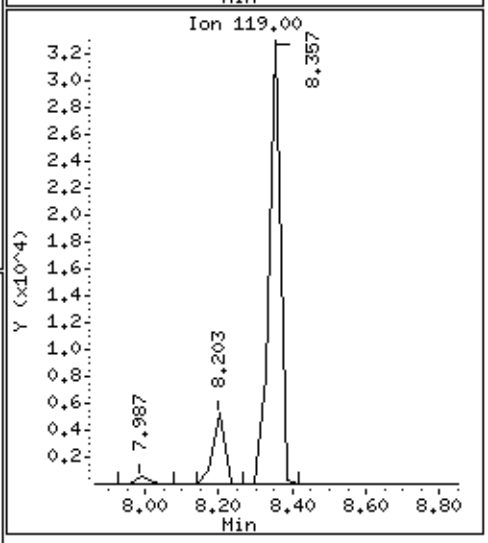
18 Carbon Tetrachloride

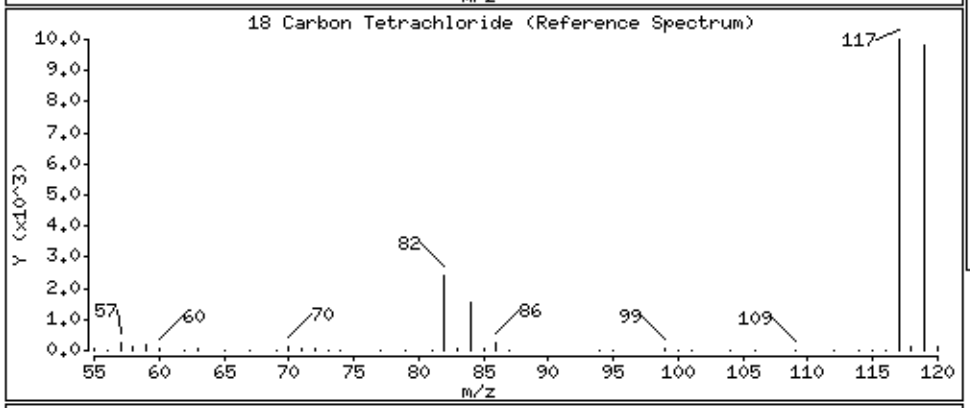
Concentration: 4.48939 ug

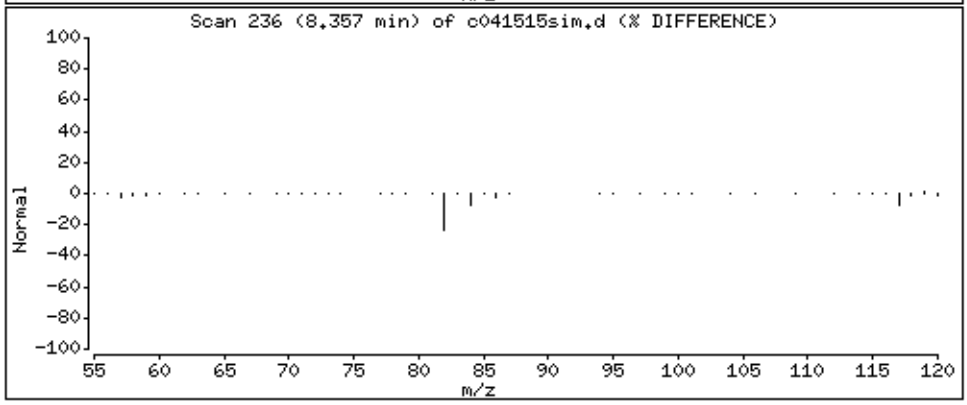












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

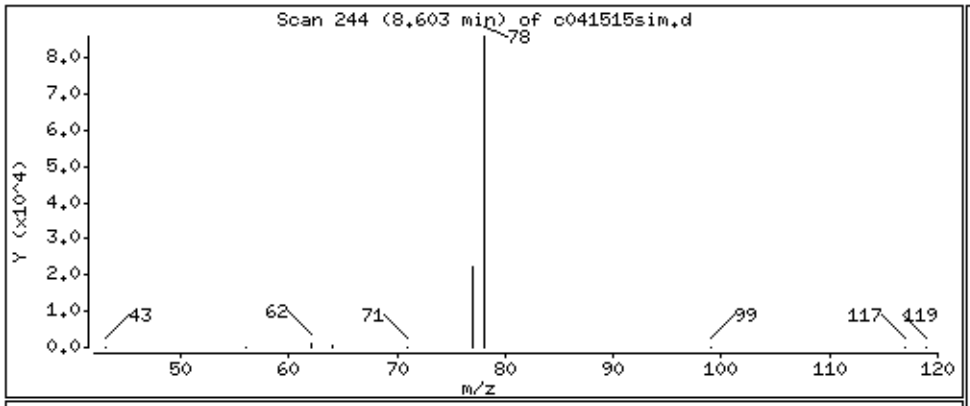
Operator: gm

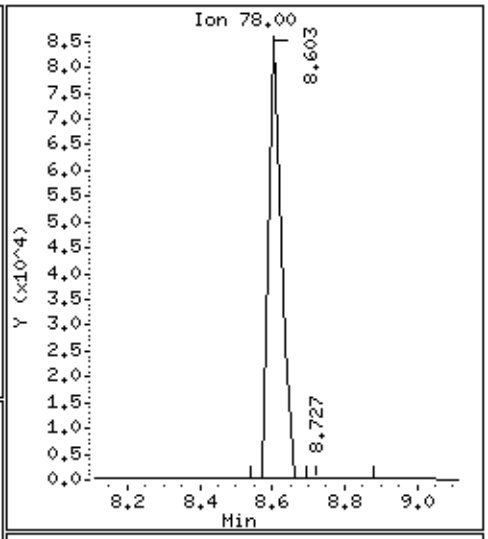
Column phase: DB-5.625

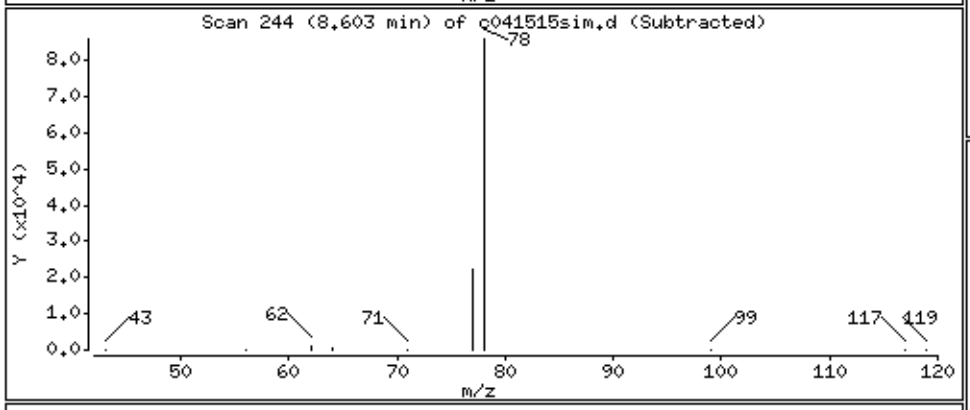
Column diameter: 0.25

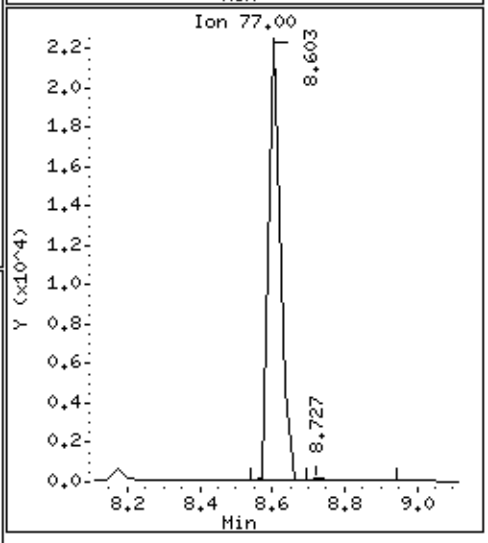
19 Benzene

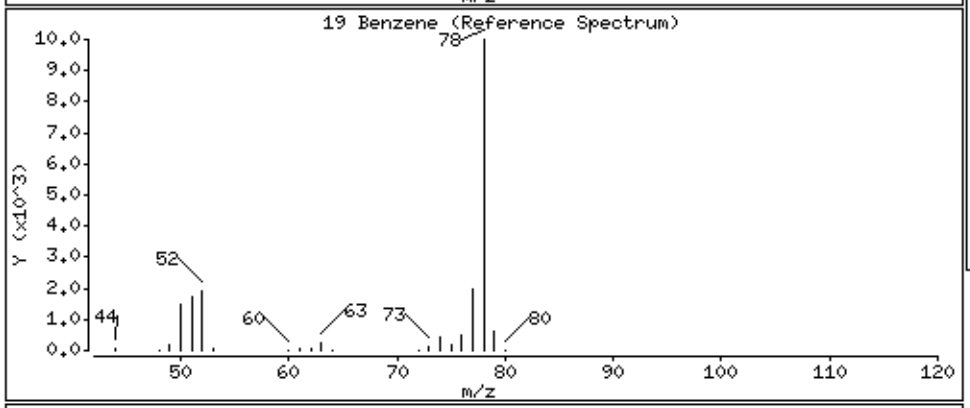
Concentration: 4.98369 ug

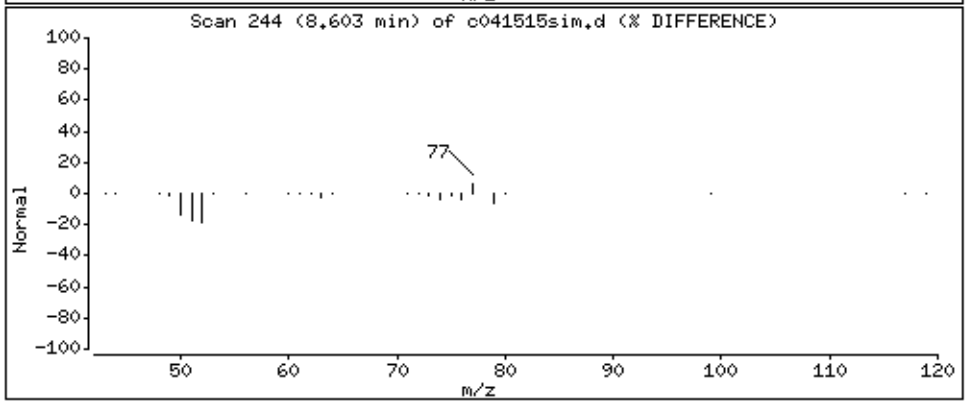












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

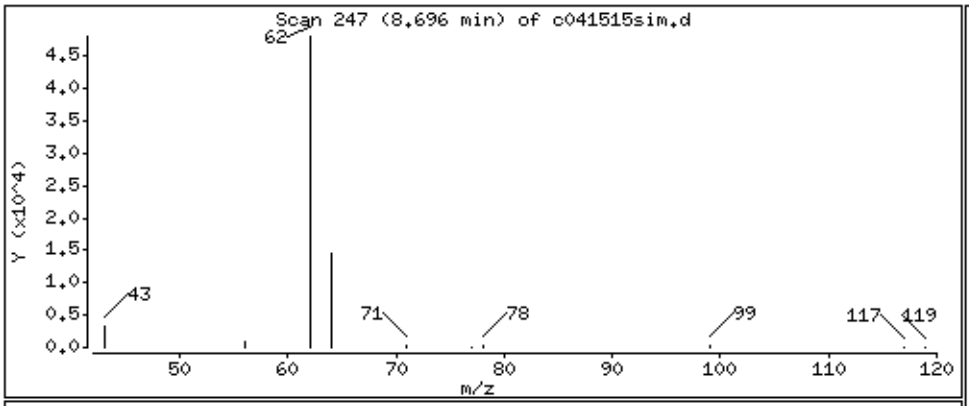
Operator: gm

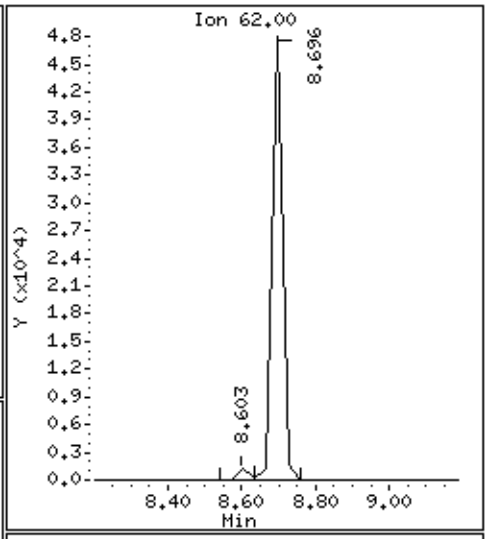
Column phase: DB-5.625

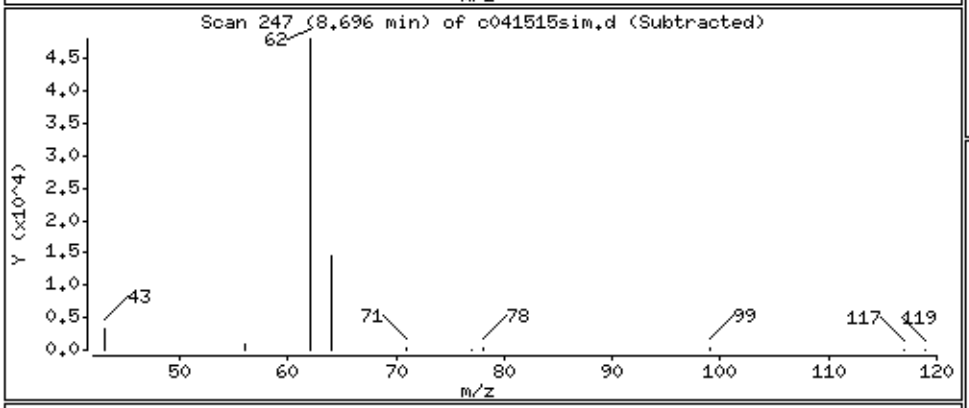
Column diameter: 0.25

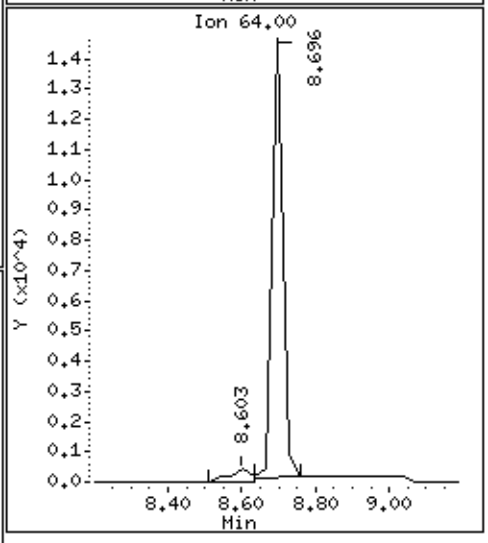
20 1,2-Dichloroethane

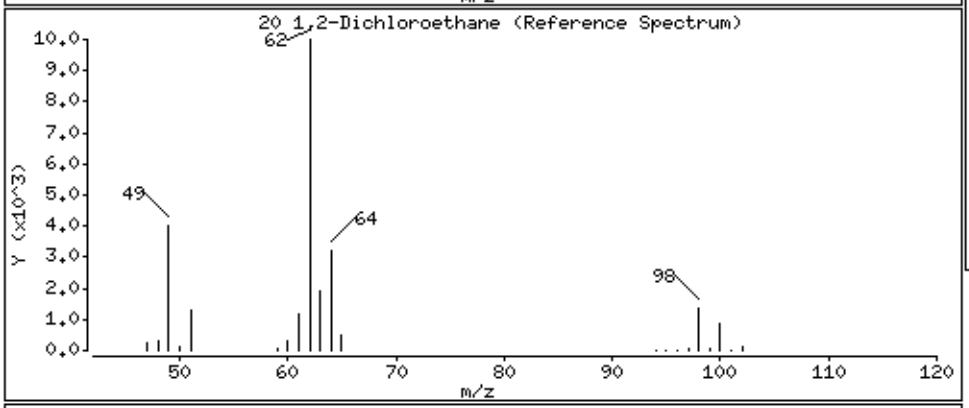
Concentration: 4.89448 ug

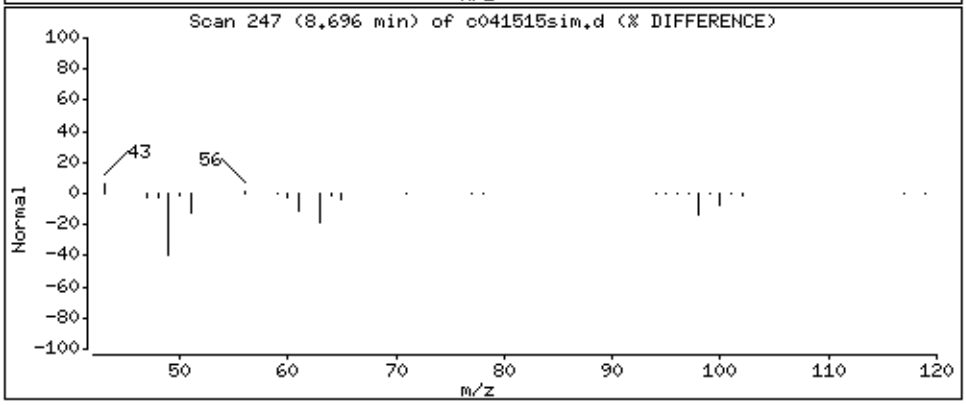












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

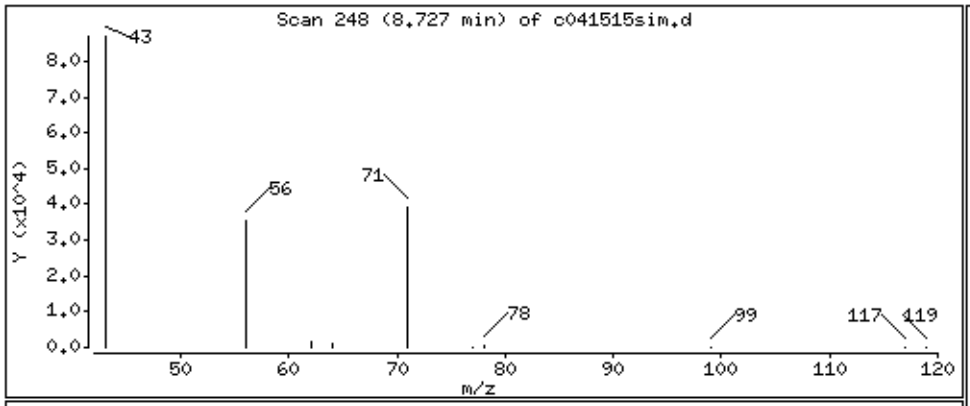
Operator: gm

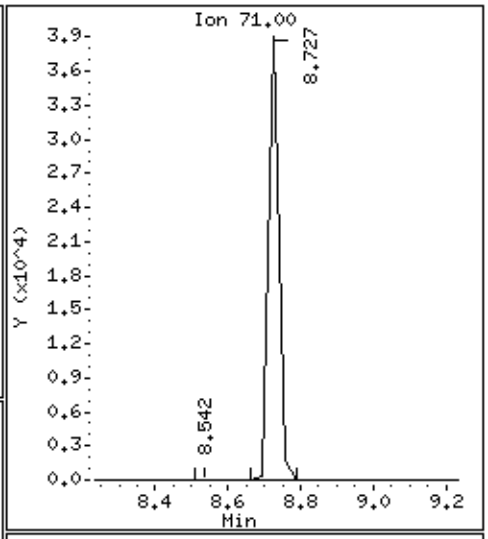
Column phase: DB-5.625

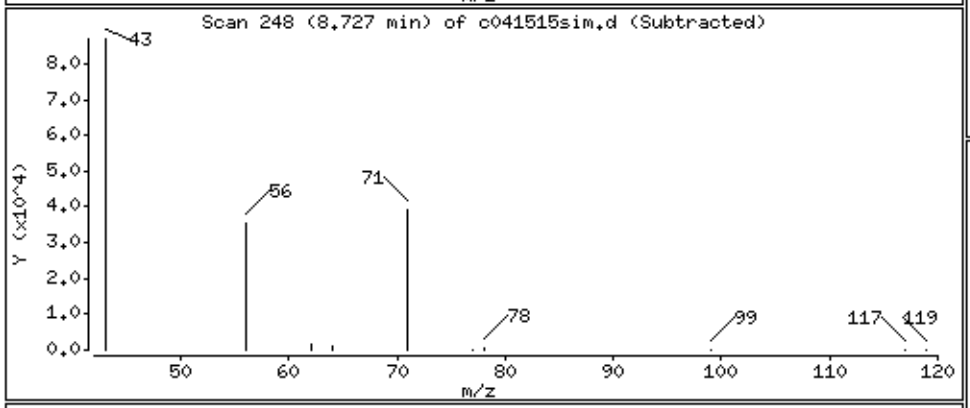
Column diameter: 0.25

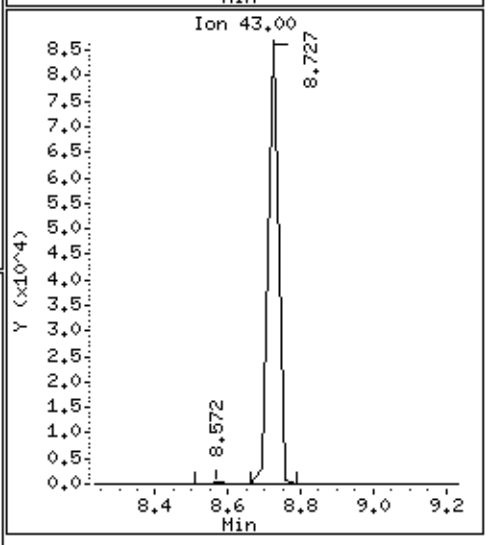
21 Heptane

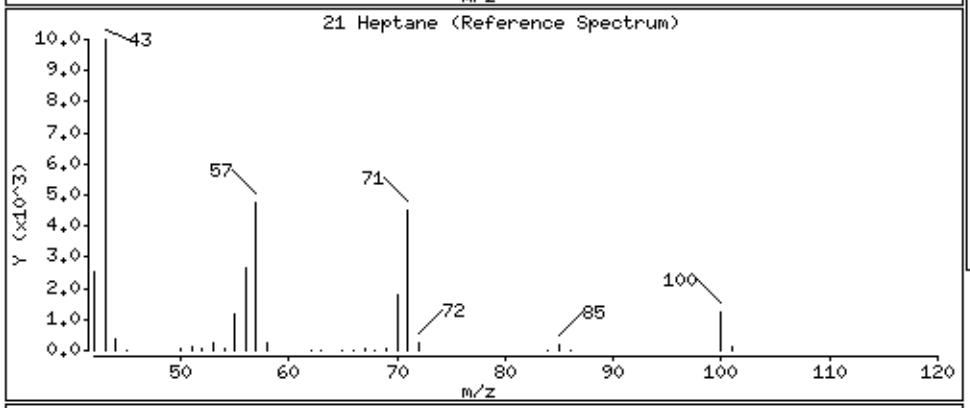
Concentration: 4.85500 ug

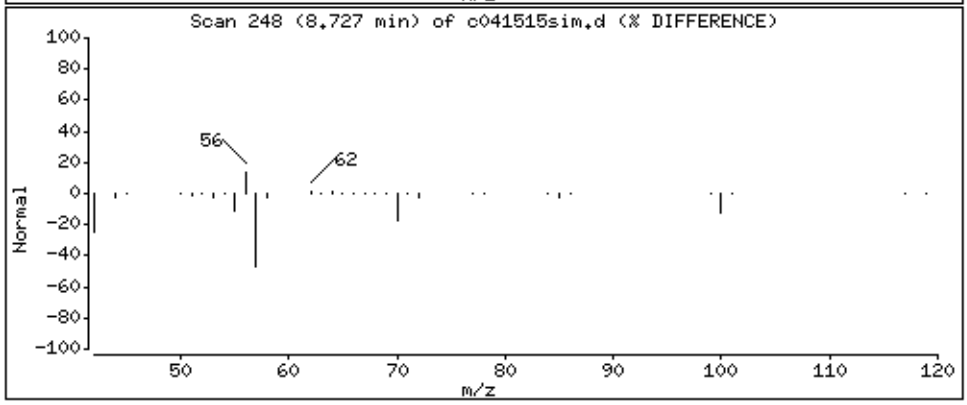












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

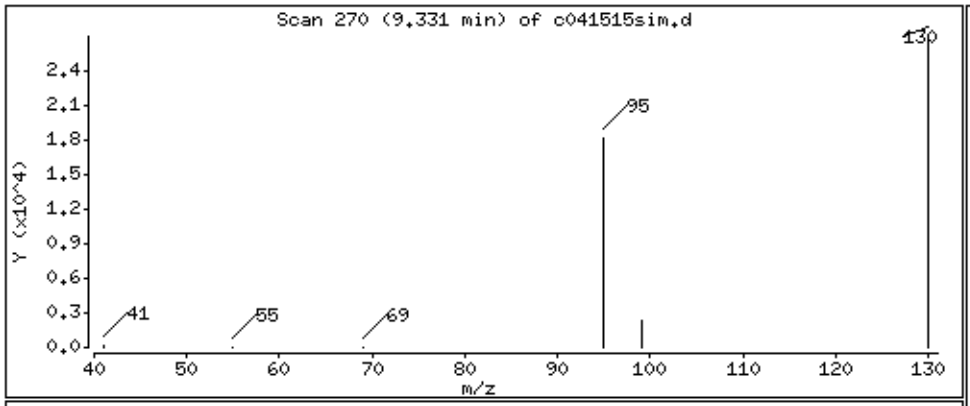
Operator: gm

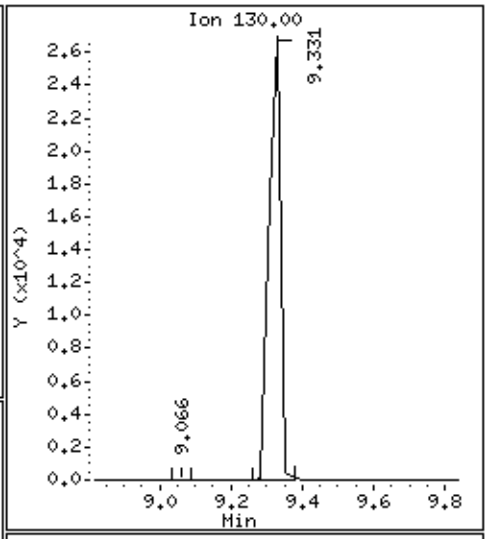
Column phase: DB-5.625

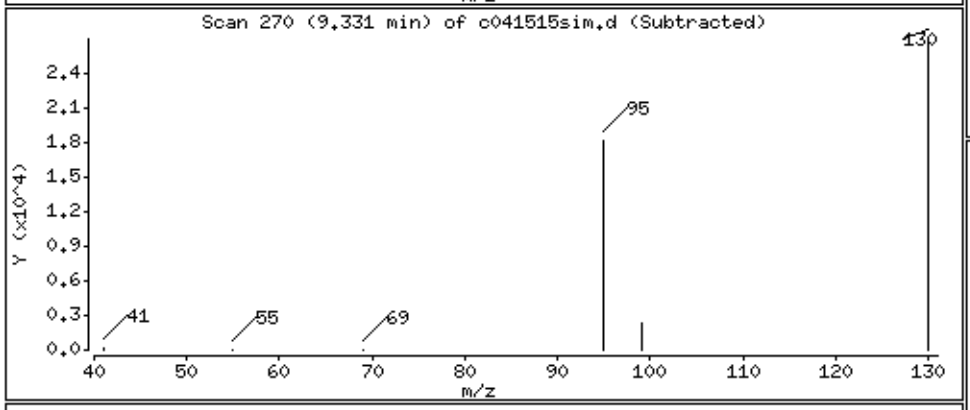
Column diameter: 0.25

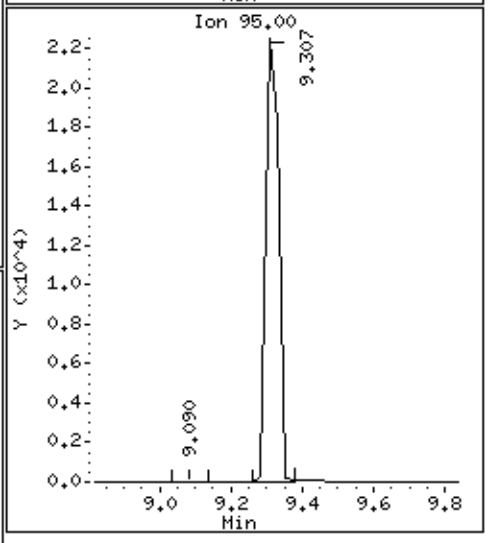
22 Trichloroethene

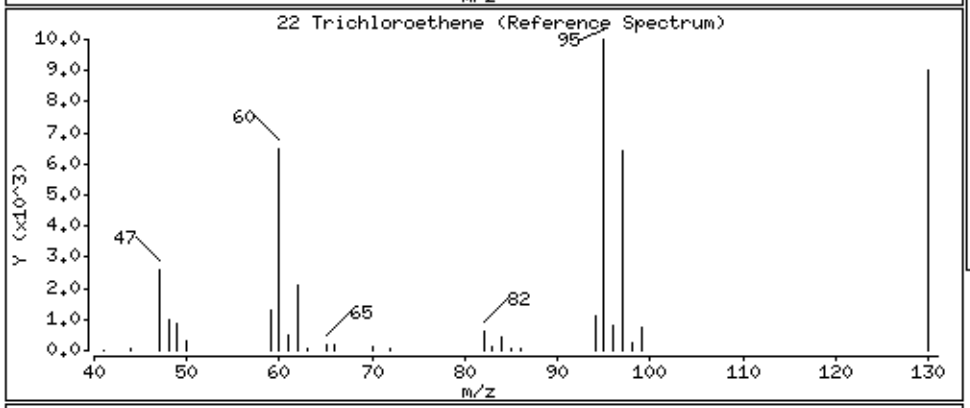
Concentration: 4.67217 ug

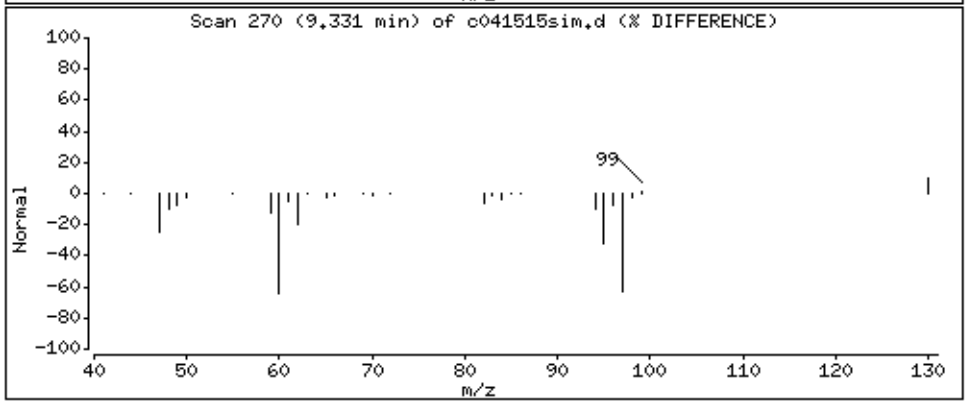












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

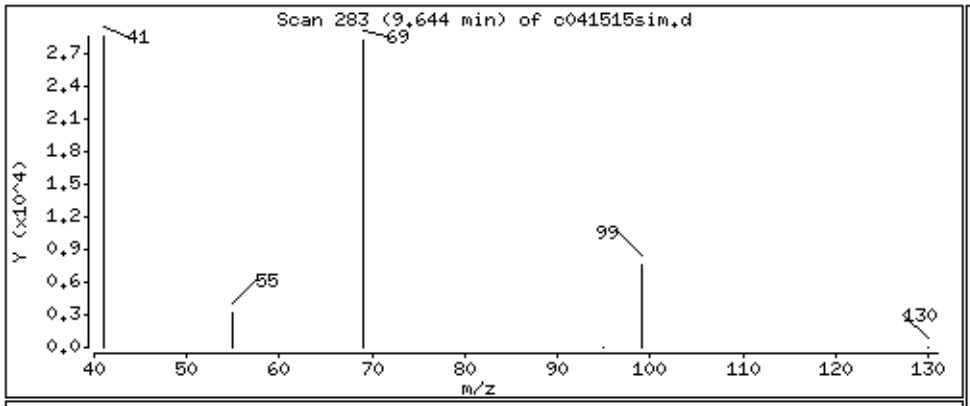
Operator: gm

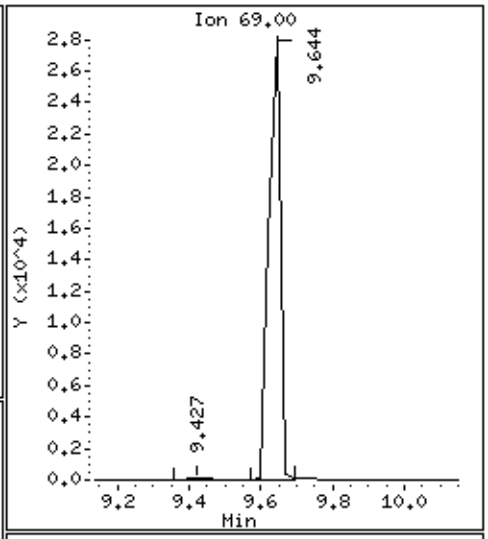
Column phase: DB-5.625

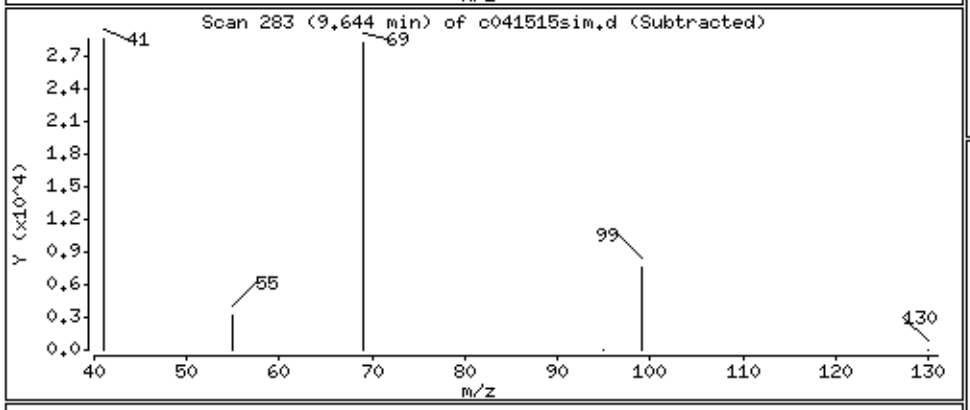
Column diameter: 0.25

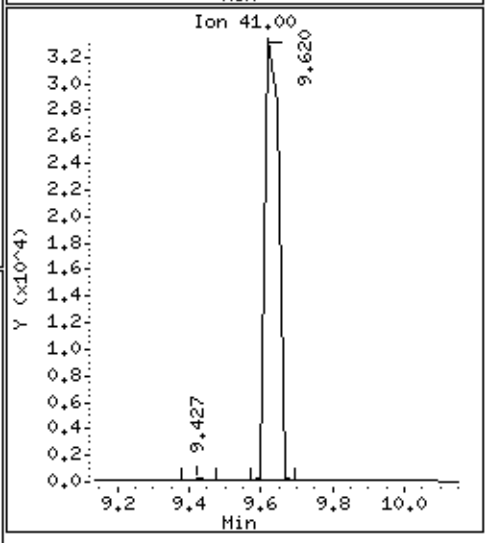
23 Methyl Methacrylate

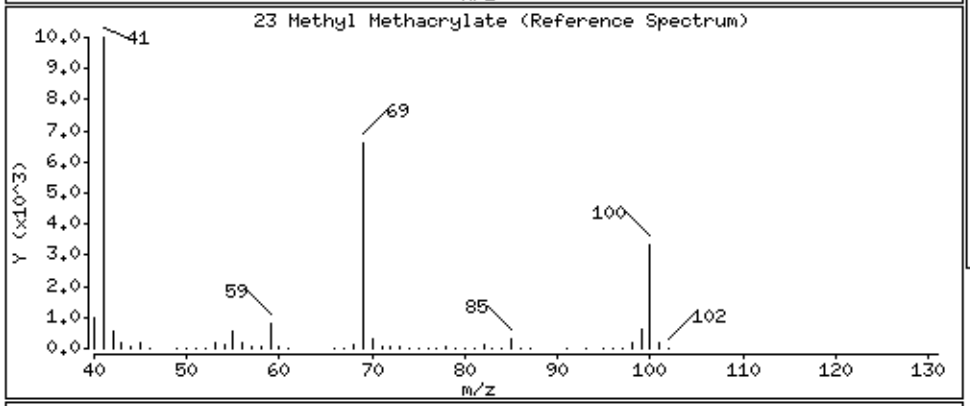
Concentration: 4.63780 ug

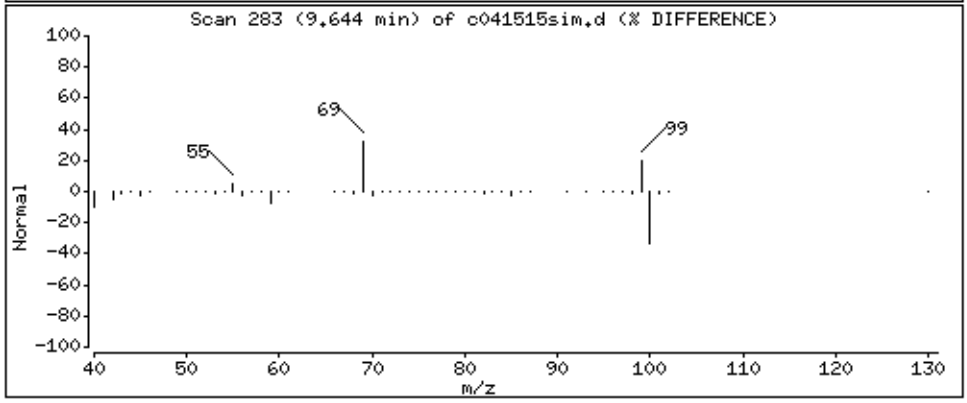












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

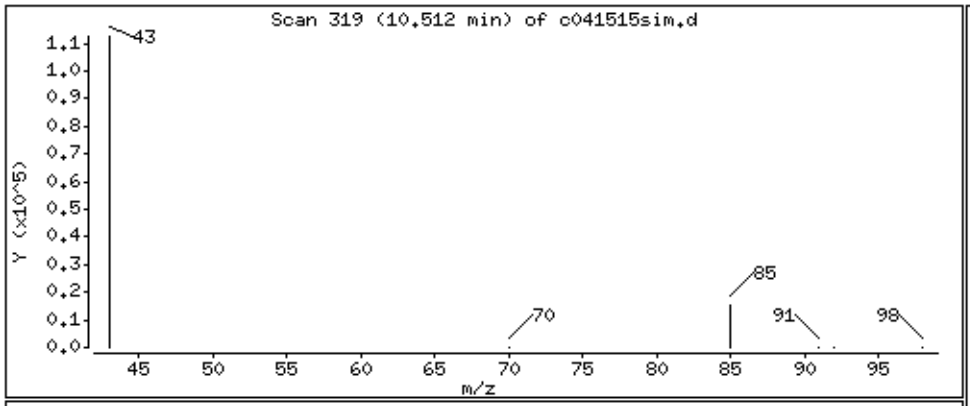
Operator: gm

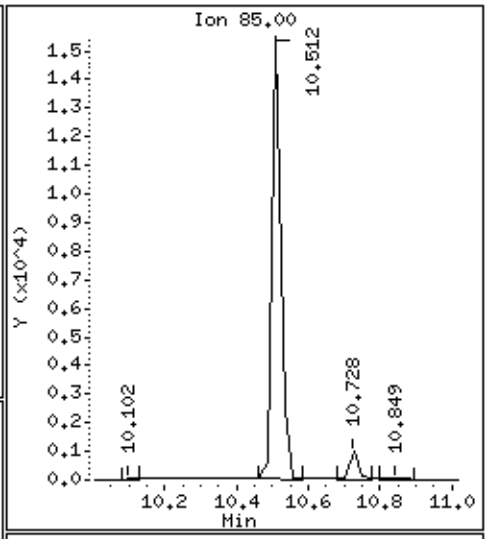
Column phase: DB-5.625

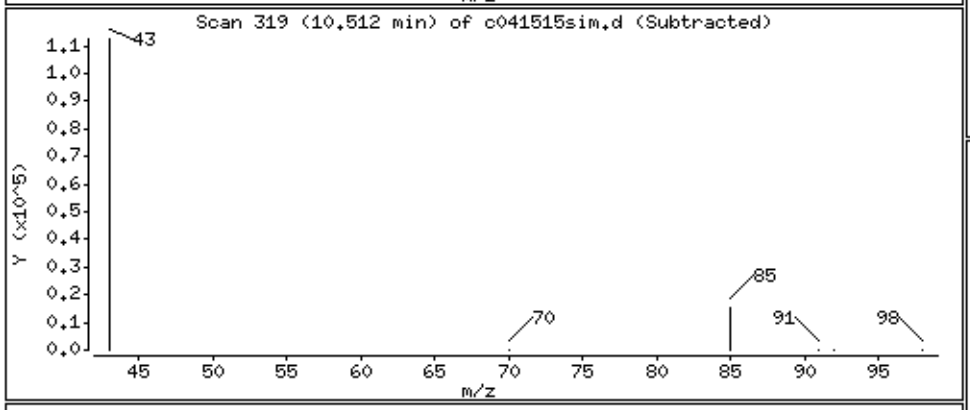
Column diameter: 0.25

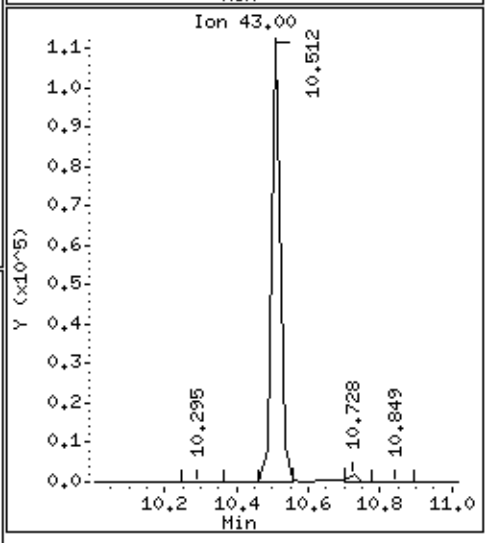
24 4-Methyl-2-pentanone

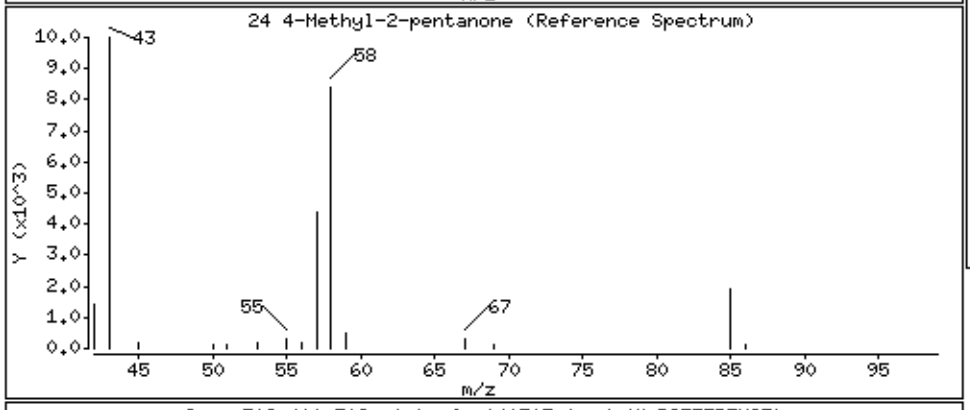
Concentration: 5.00174 ug

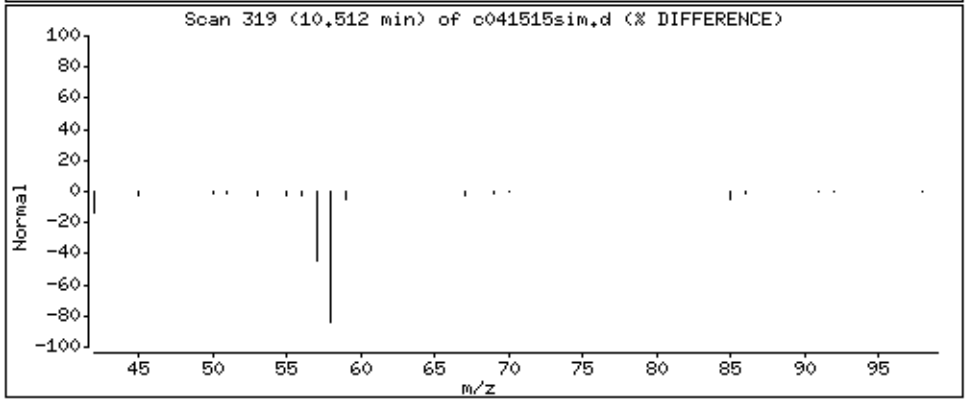












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

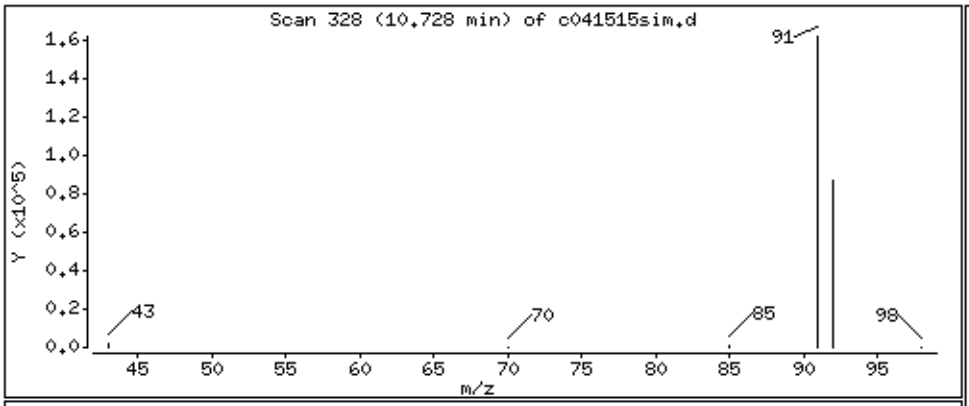
Operator: gm

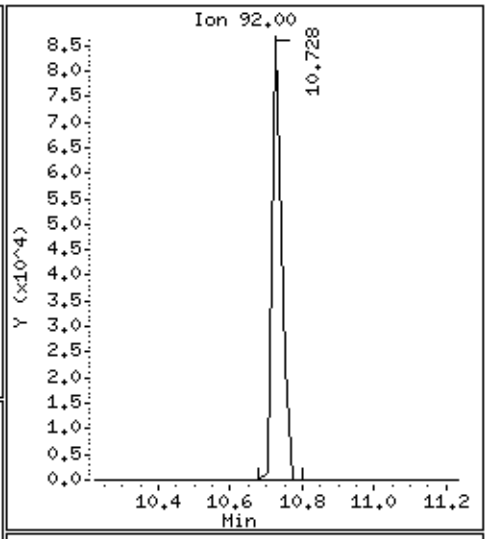
Column phase: DB-5.625

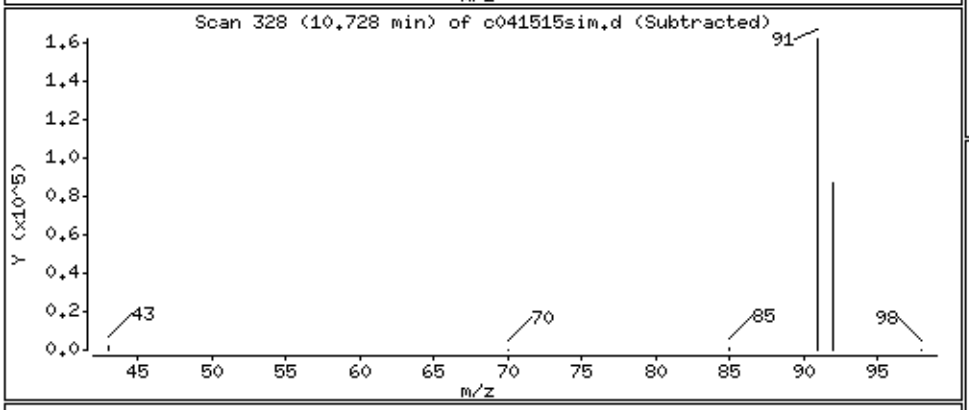
Column diameter: 0.25

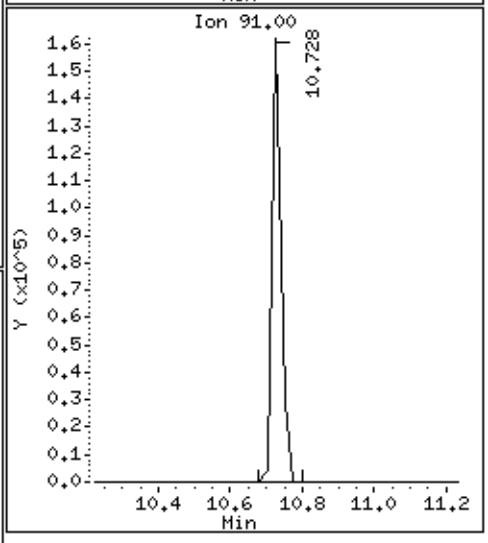
26 Toluene-CCC

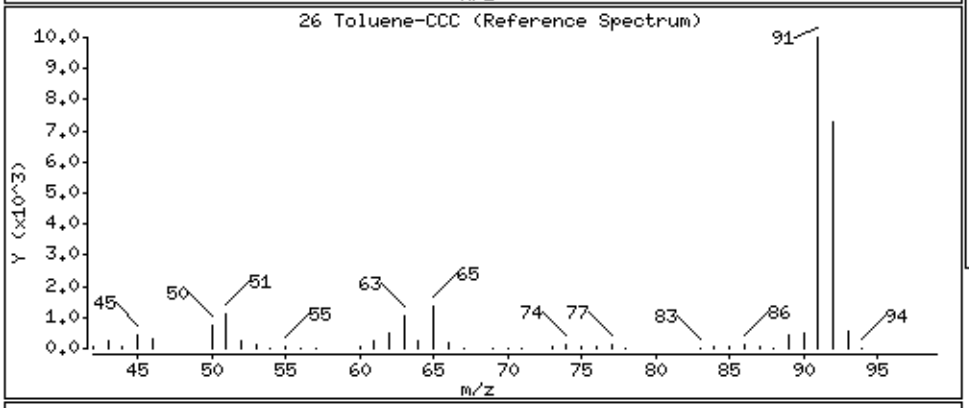
Concentration: 4.68905 ug

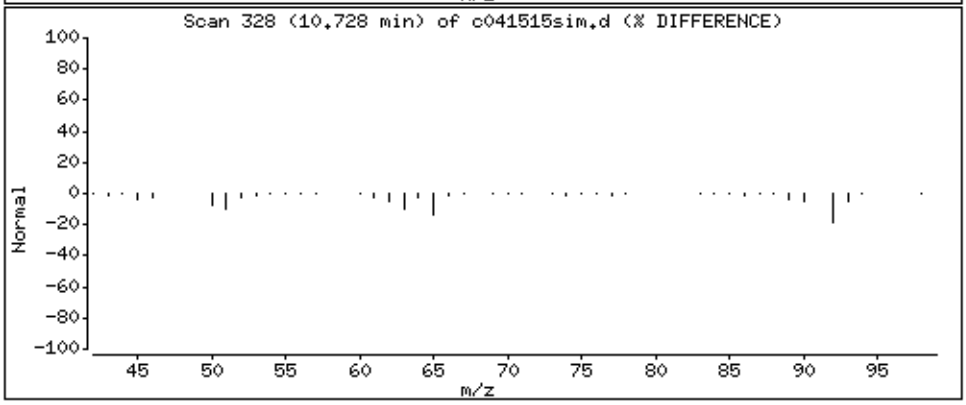












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

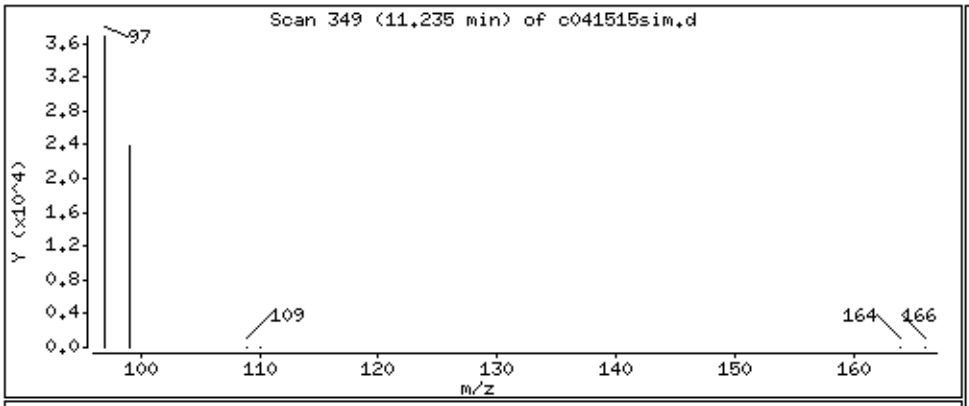
Operator: gm

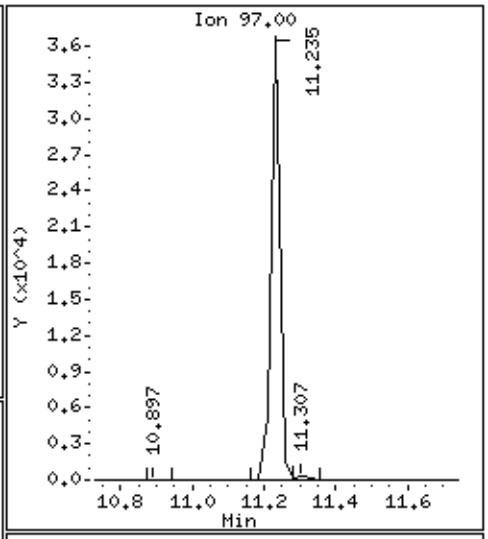
Column phase: DB-5.625

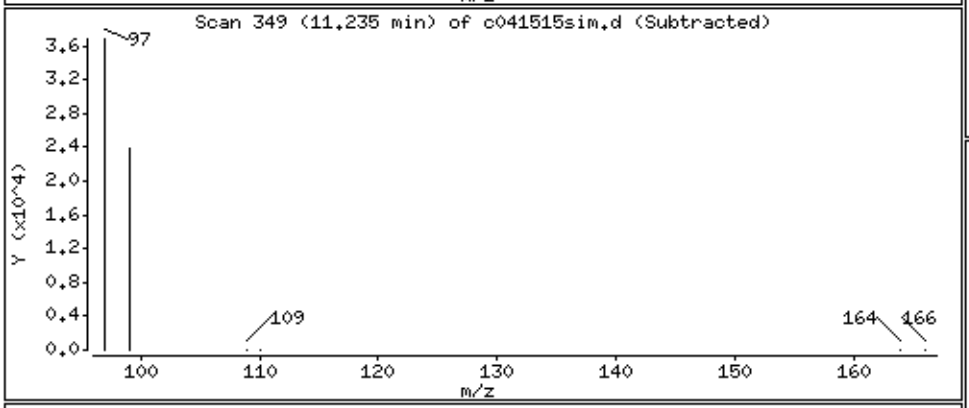
Column diameter: 0.25

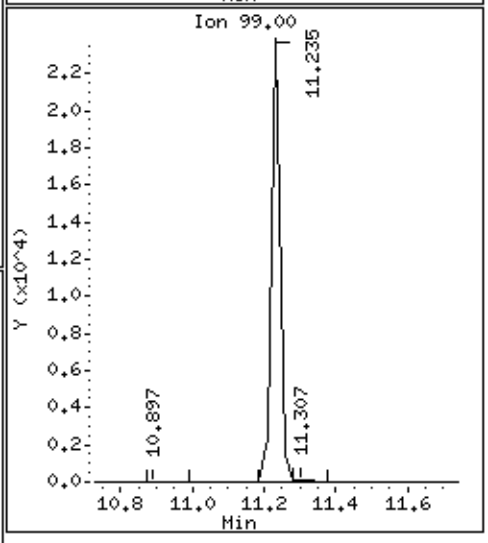
28 1,1,2-Trichloroethane

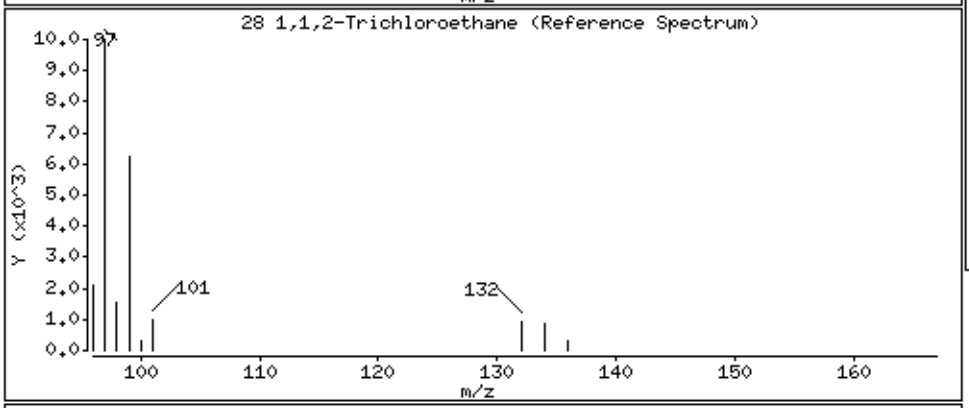
Concentration: 4.58390 ug

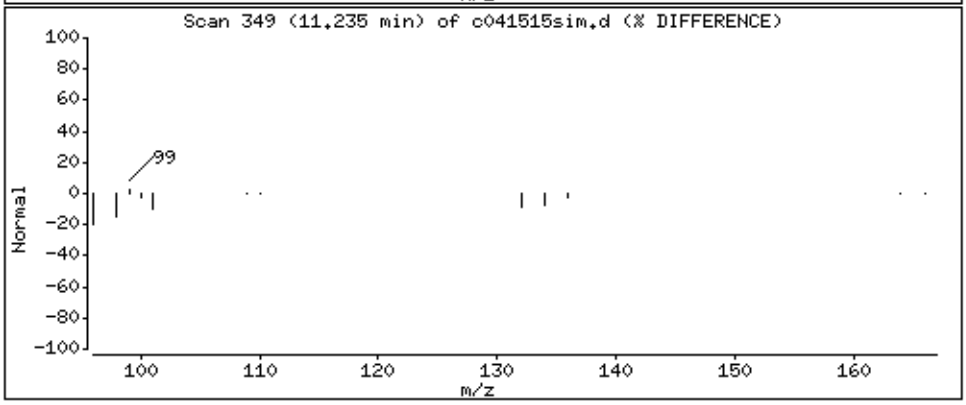












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

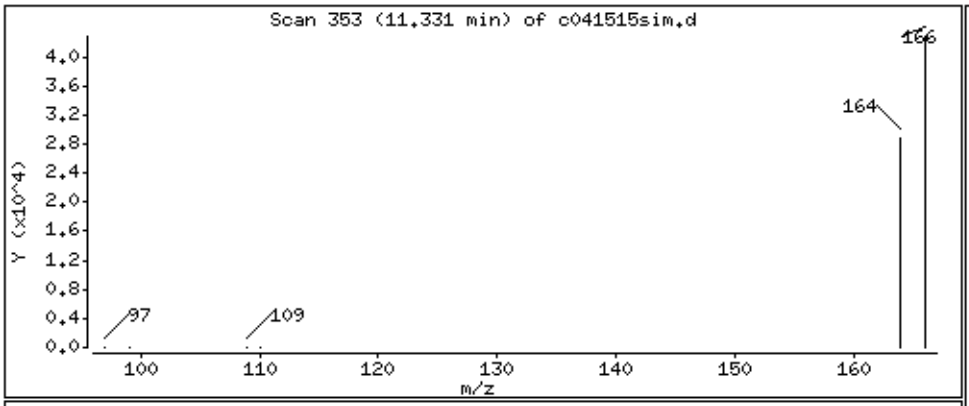
Operator: gm

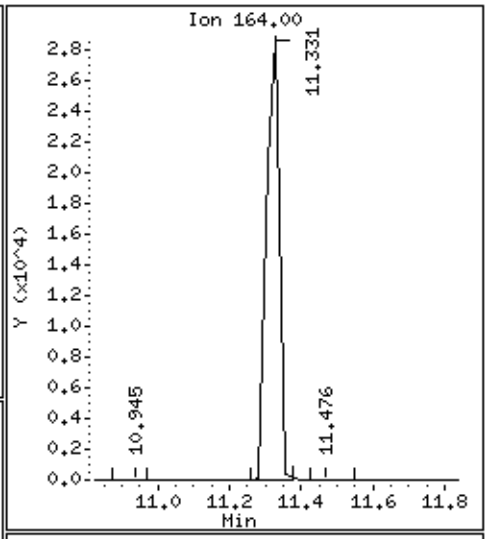
Column phase: DB-5.625

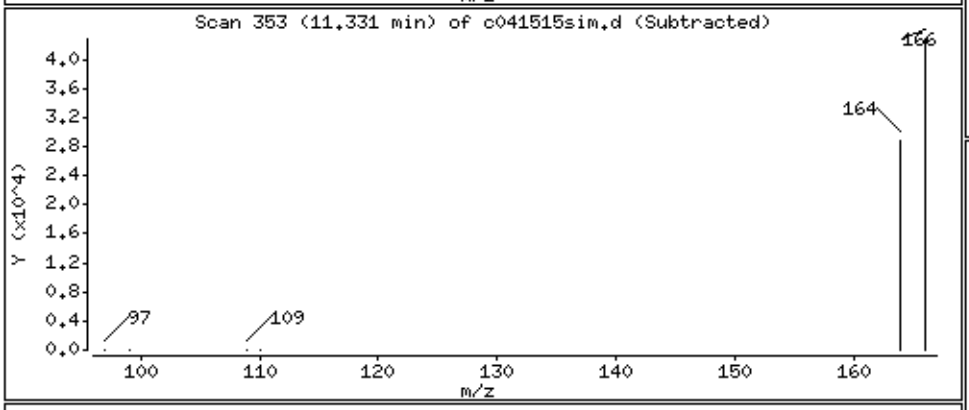
Column diameter: 0.25

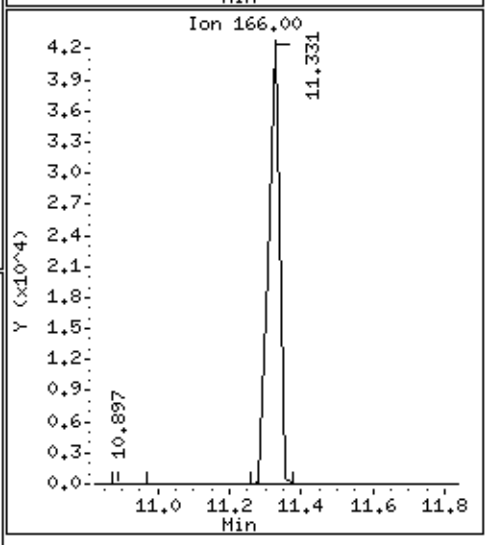
29 Tetrachloroethene

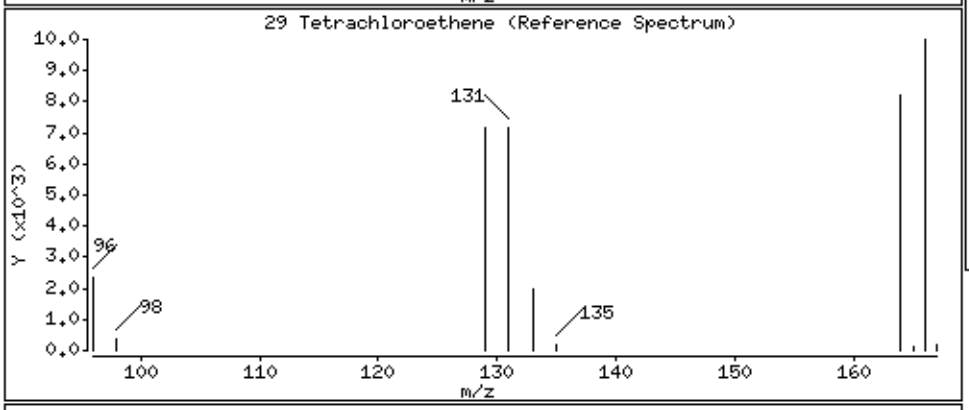
Concentration: 4.59571 ug

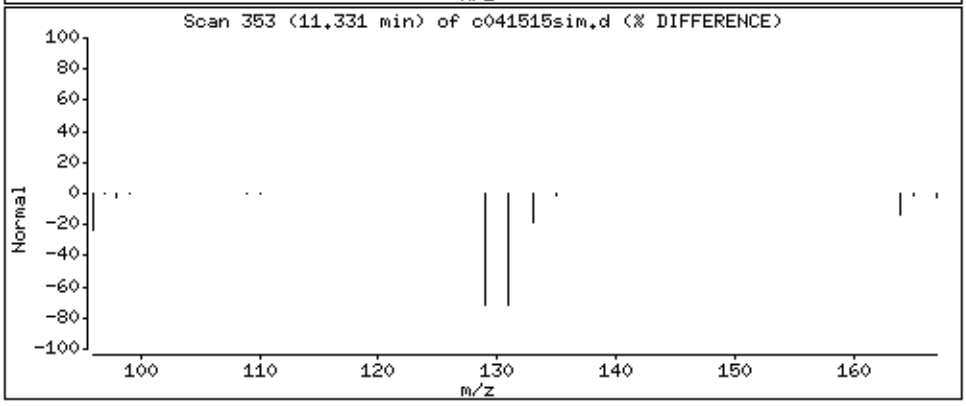












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

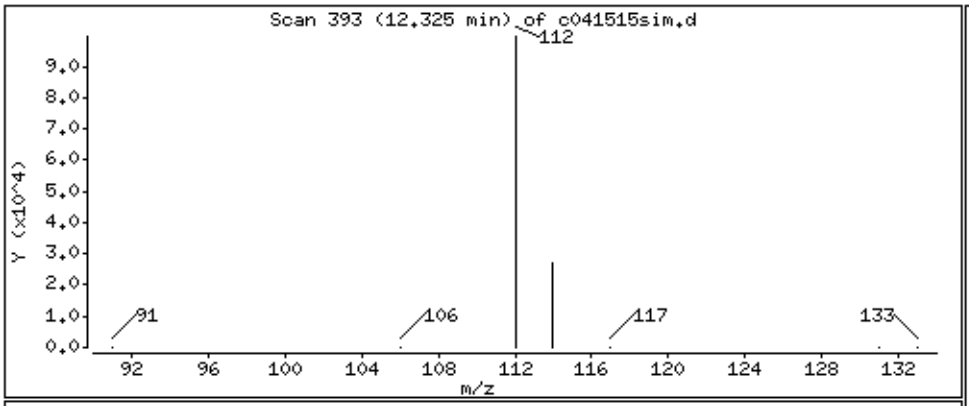
Operator: gm

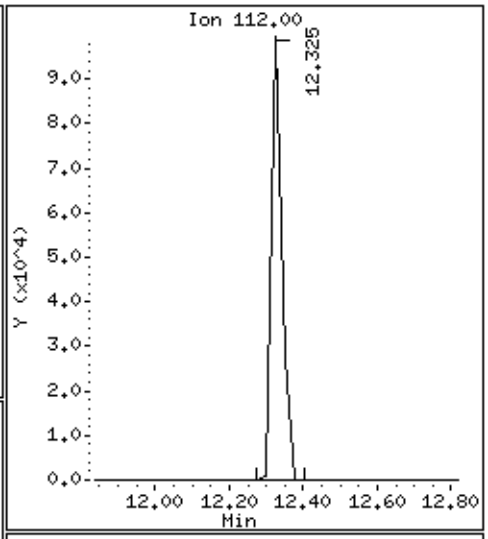
Column phase: DB-5.625

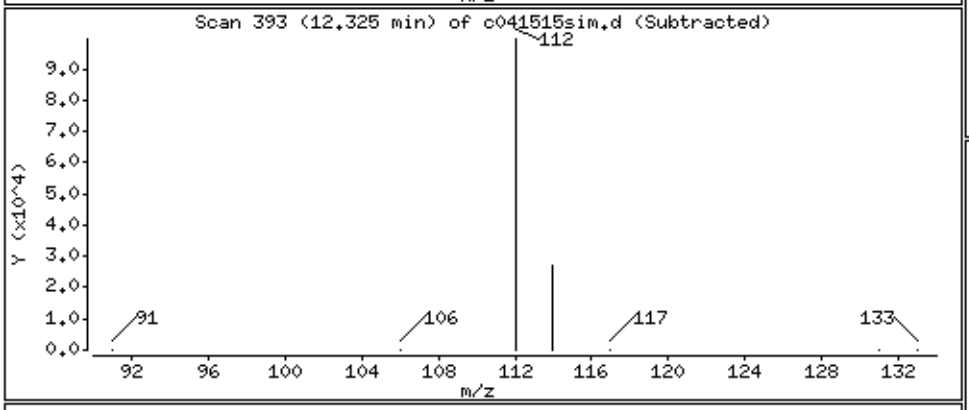
Column diameter: 0.25

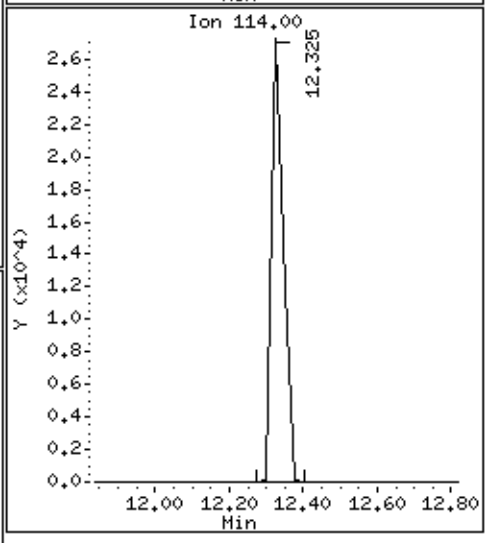
30 Chlorobenzene

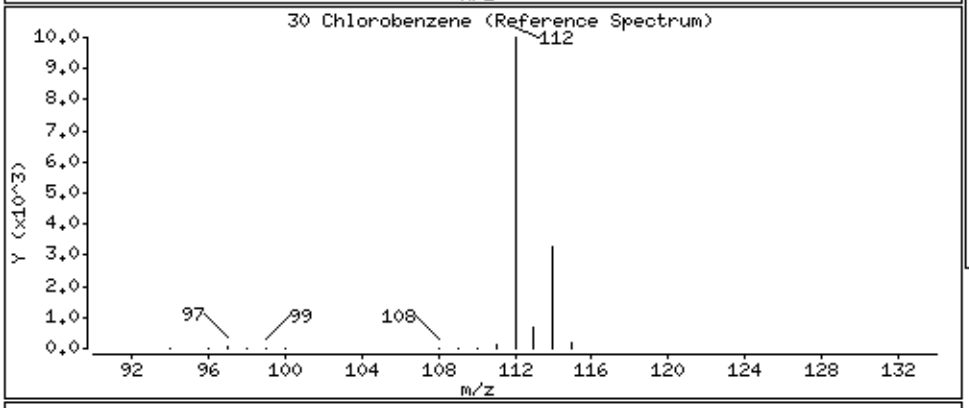
Concentration: 4.88247 ug

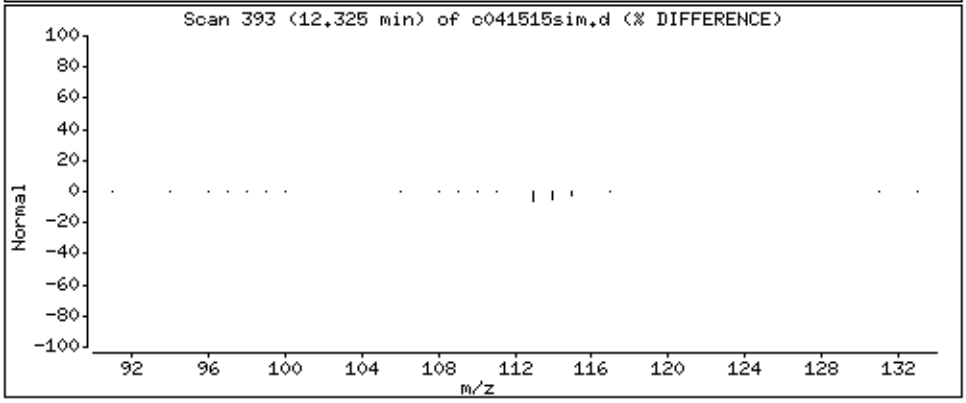












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

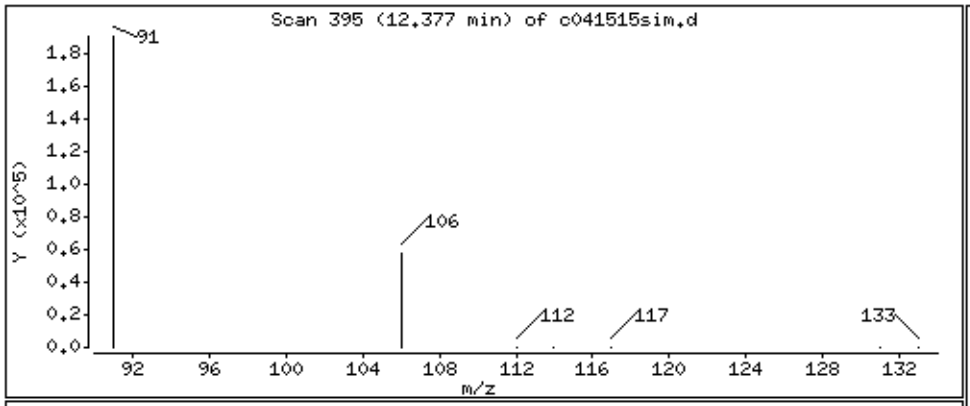
Operator: gm

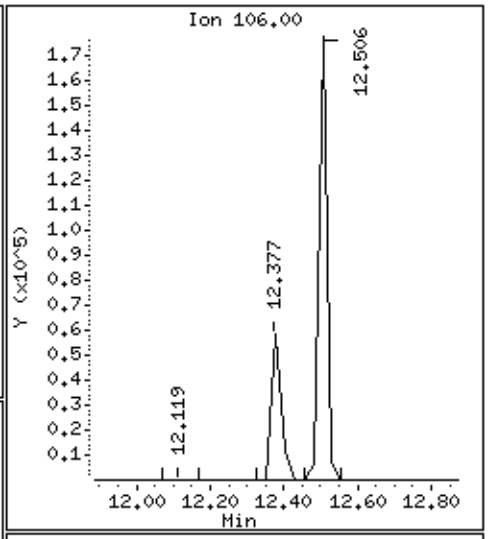
Column phase: DB-5.625

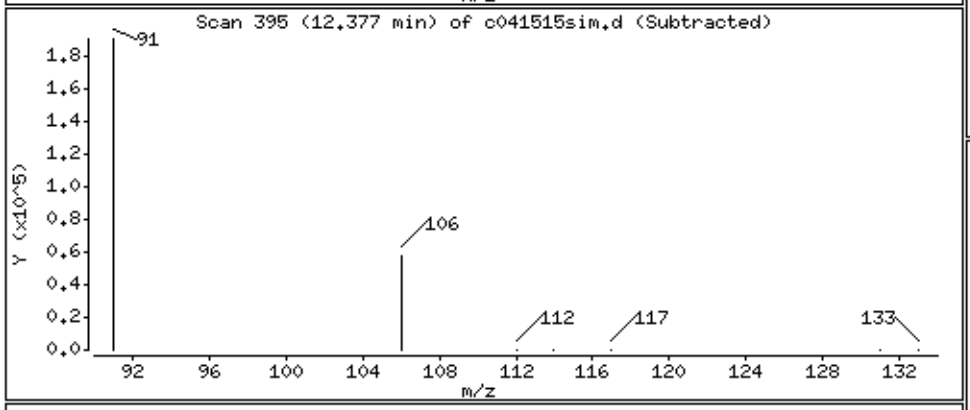
Column diameter: 0.25

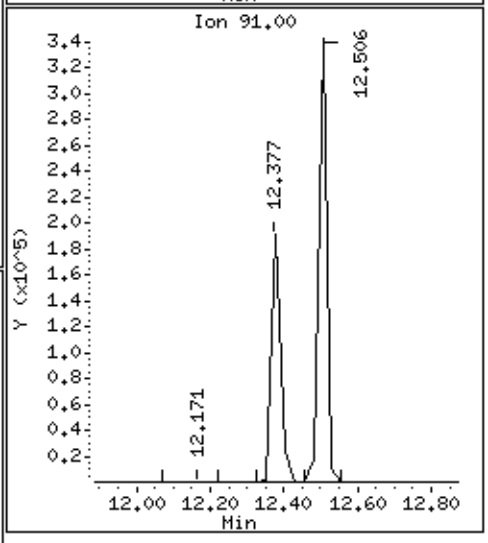
31 Ethylbenzene-CCC

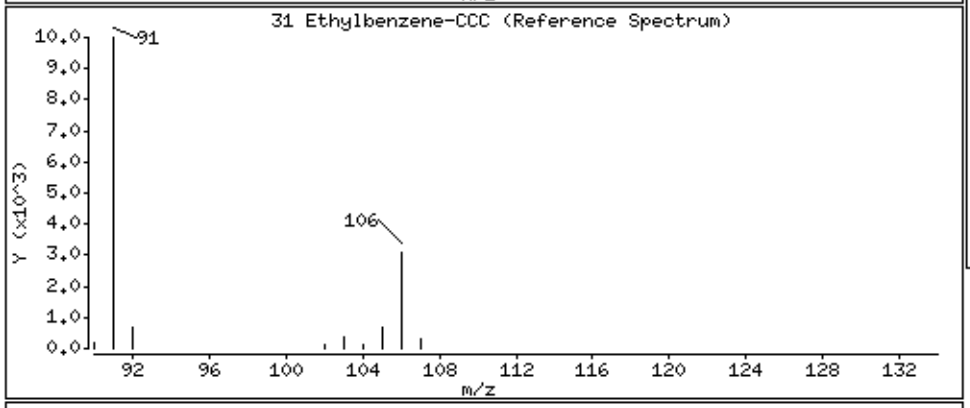
Concentration: 4.92082 ug

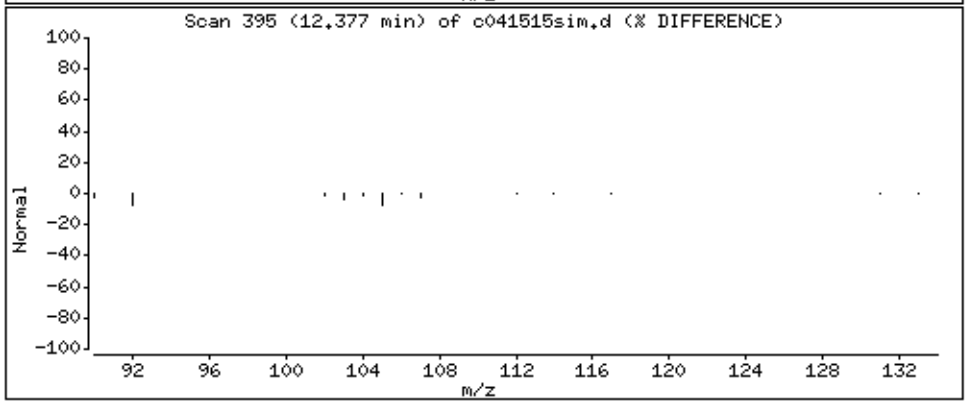












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

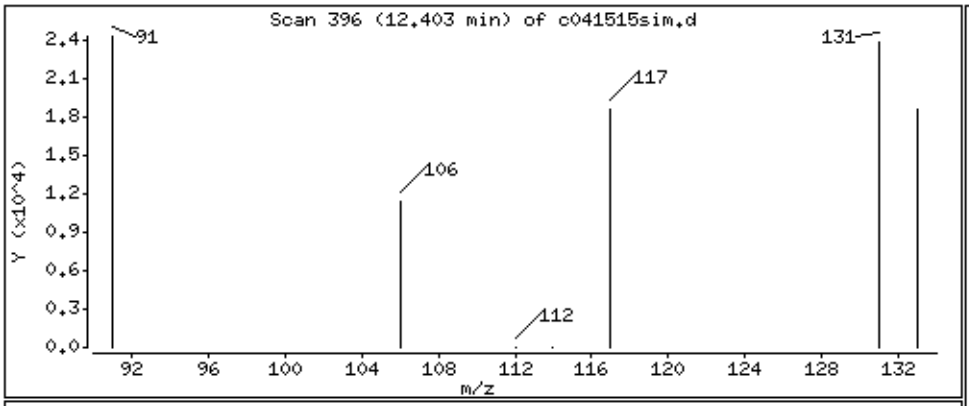
Operator: gm

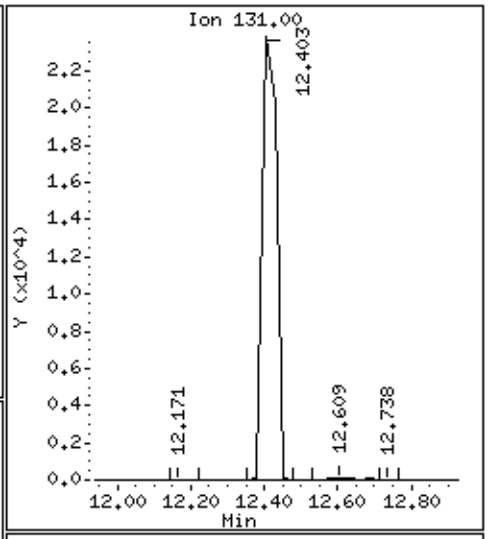
Column phase: DB-5.625

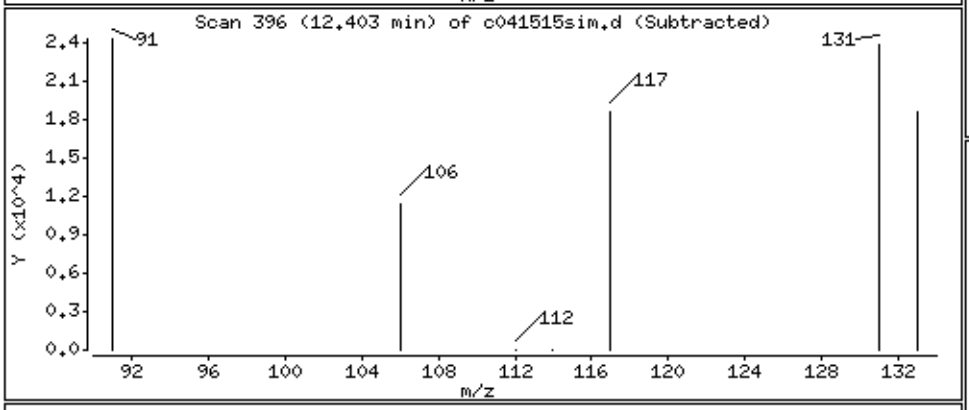
Column diameter: 0.25

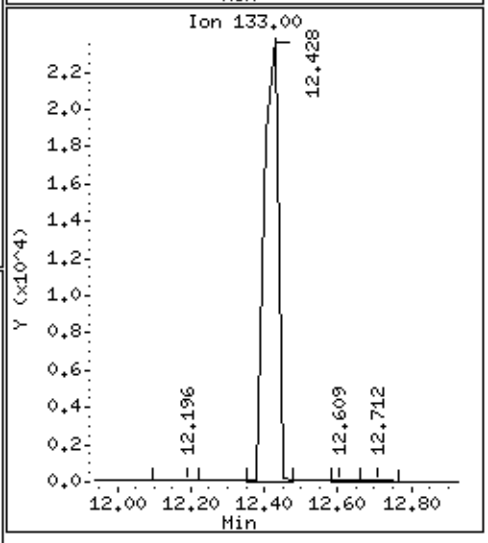
32 1,1,1,2-Tetrachloroethane

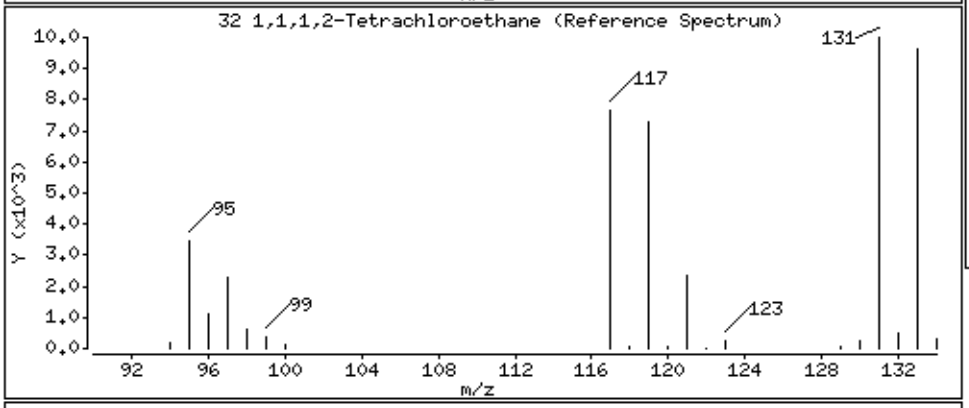
Concentration: 4.78508 ug

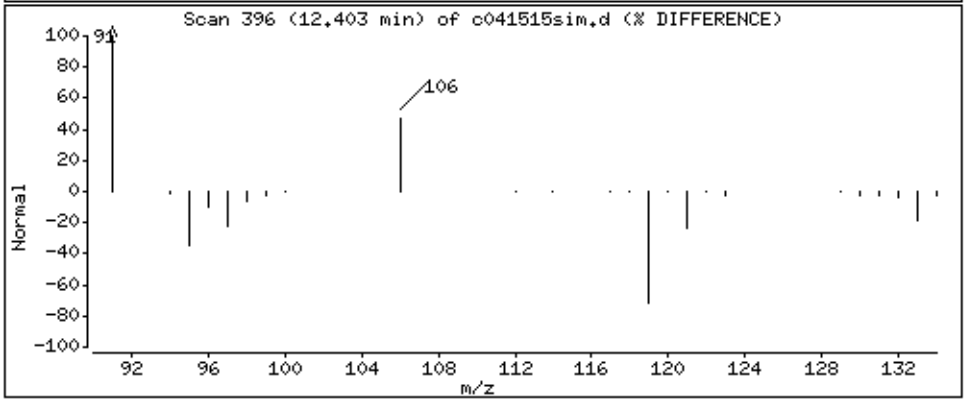












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

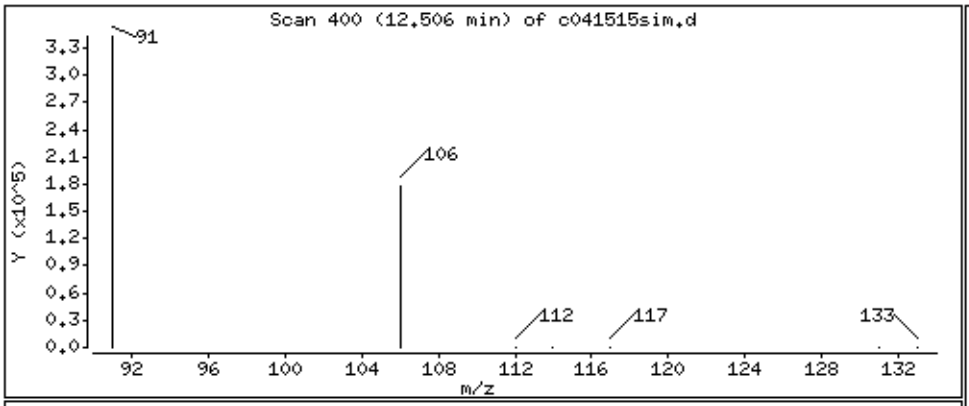
Operator: gm

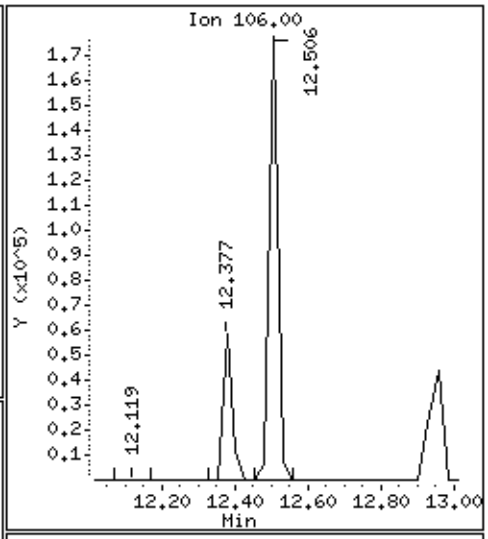
Column phase: DB-5.625

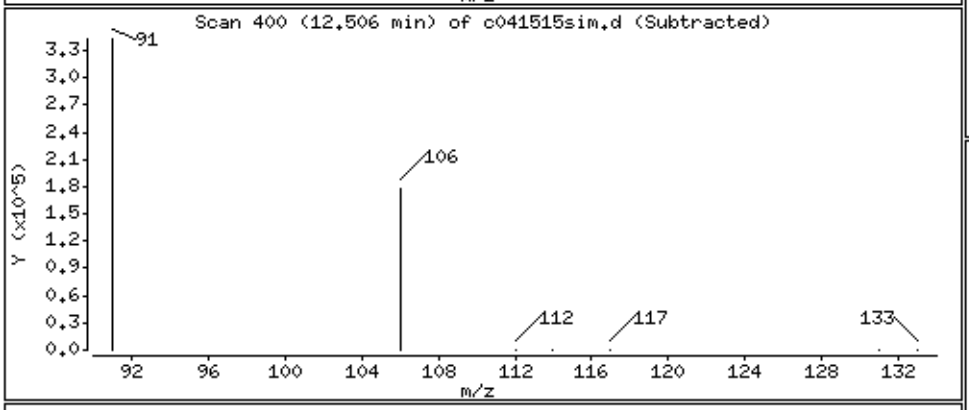
Column diameter: 0.25

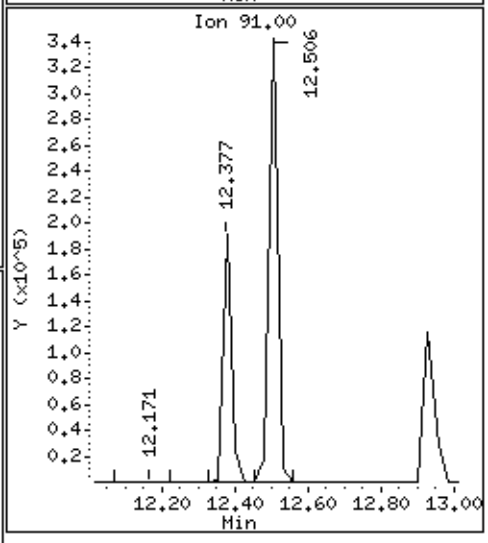
33 m,p-Xylene

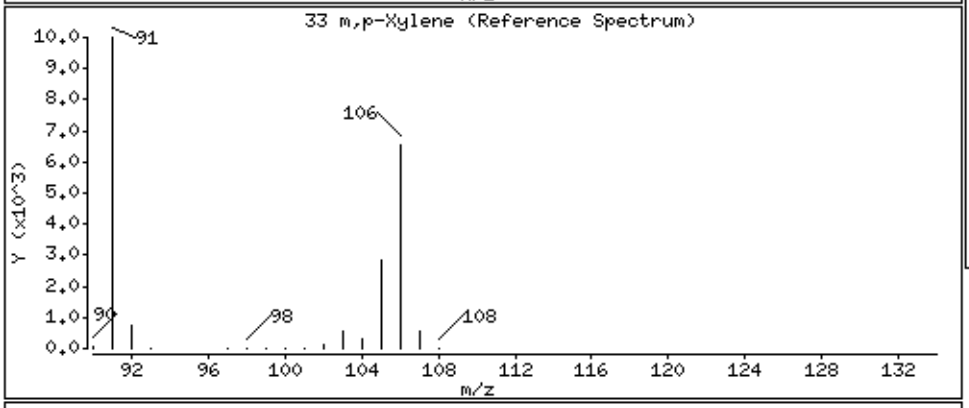
Concentration: 9.65940 ug

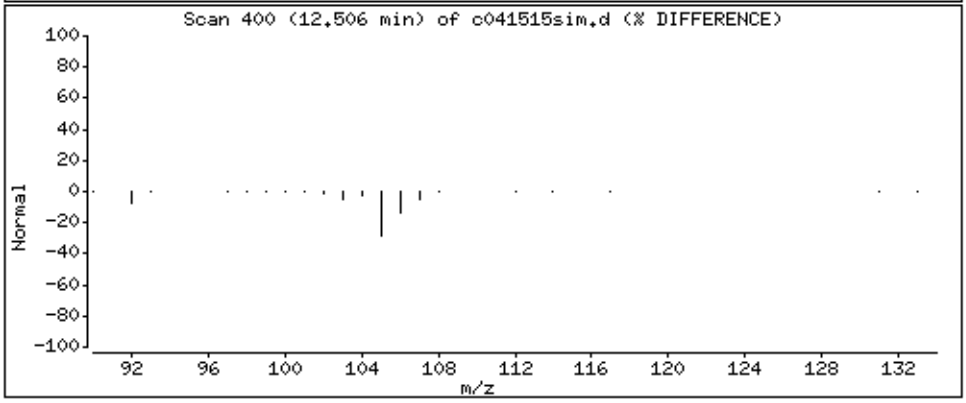












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

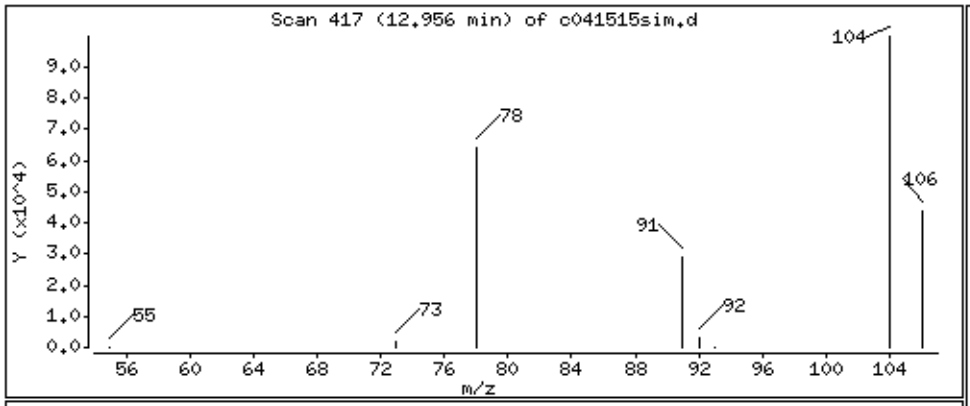
Operator: gm

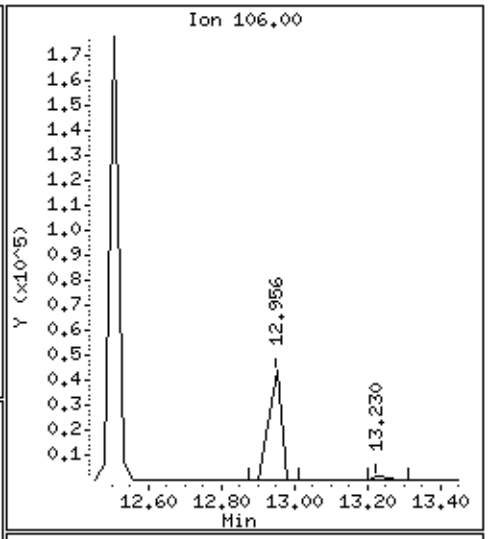
Column phase: DB-5.625

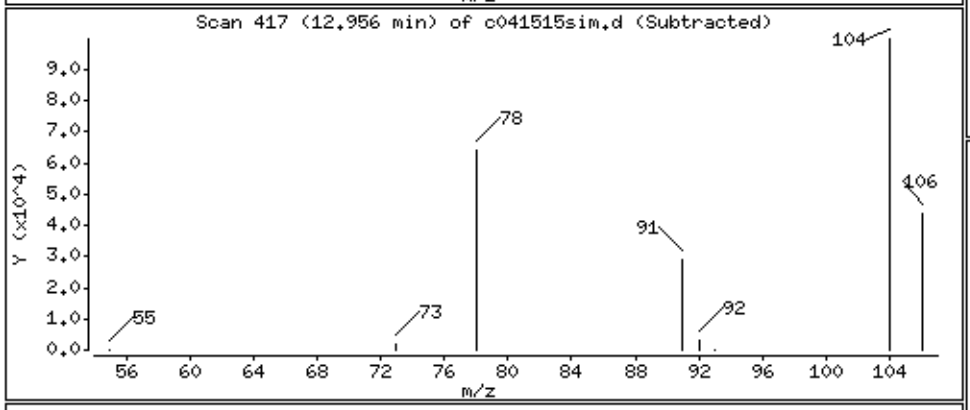
Column diameter: 0.25

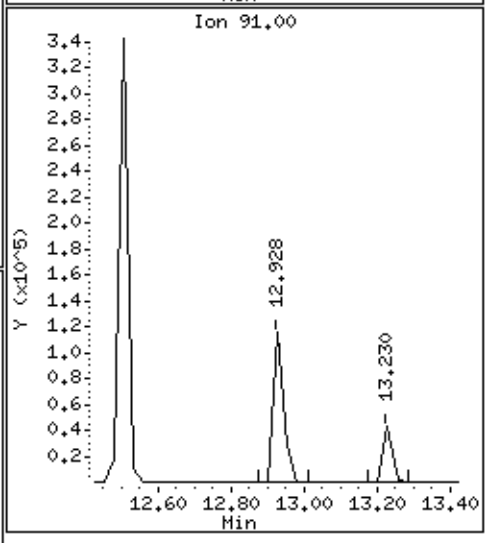
34 o-Xylene

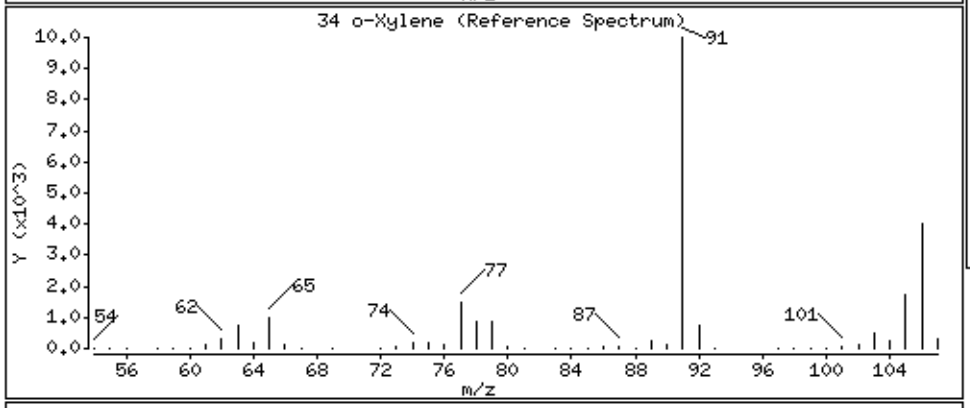
Concentration: 4.42897 ug

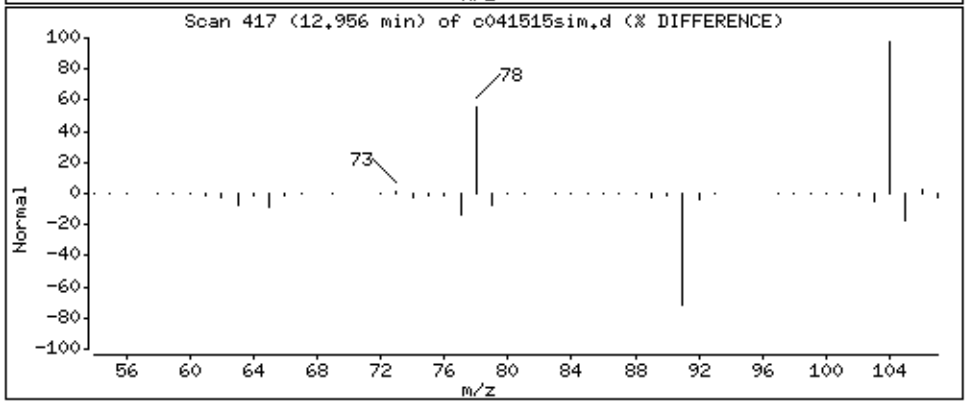












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

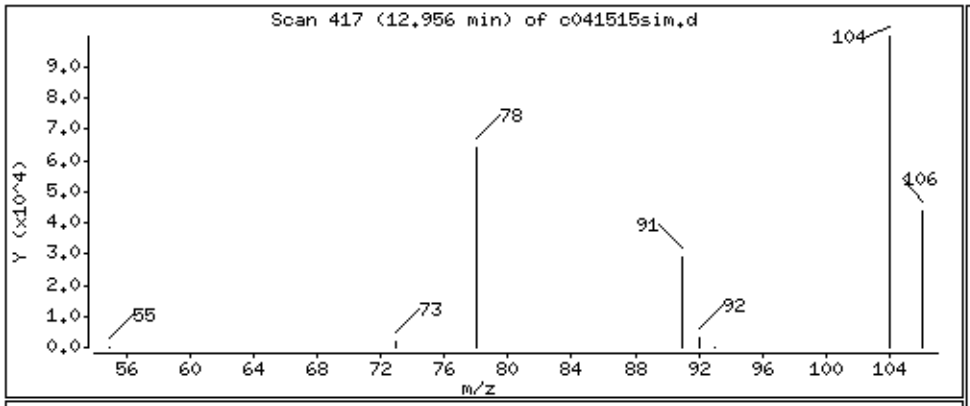
Operator: gm

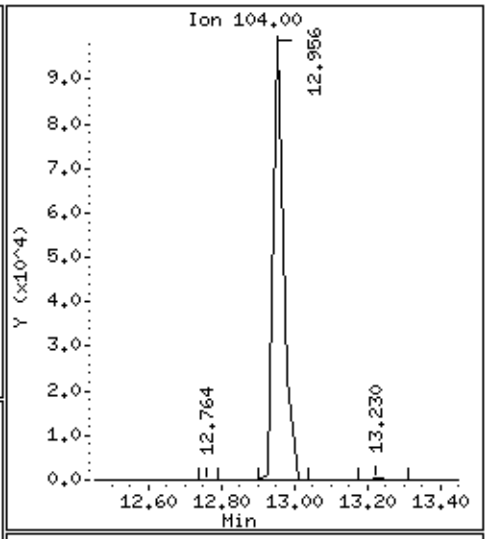
Column phase: DB-5.625

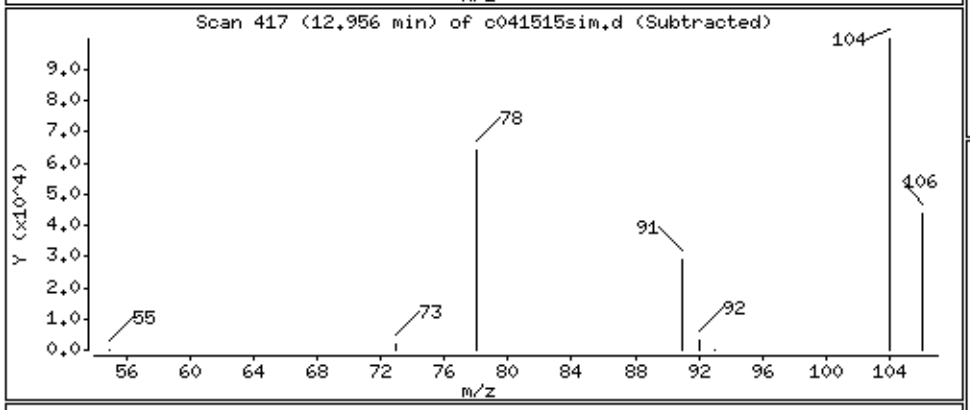
Column diameter: 0.25

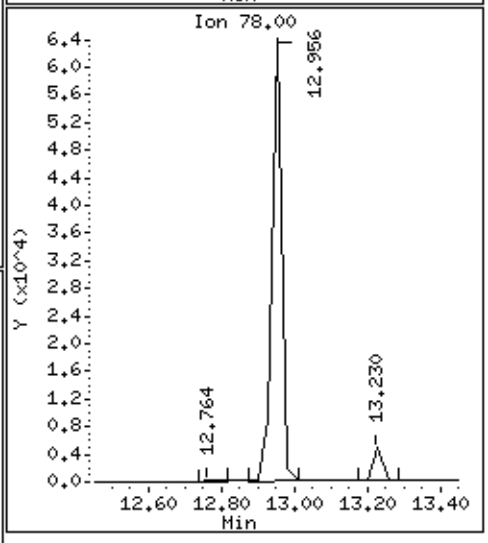
35 Styrene

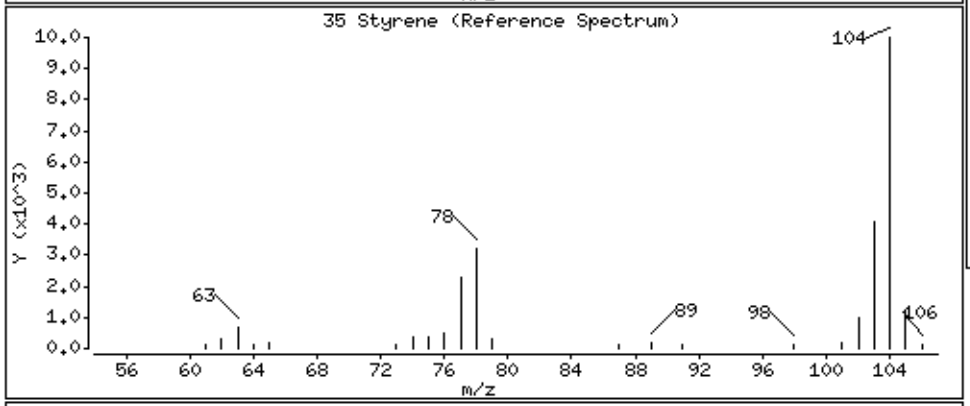
Concentration: 4.97512 ug

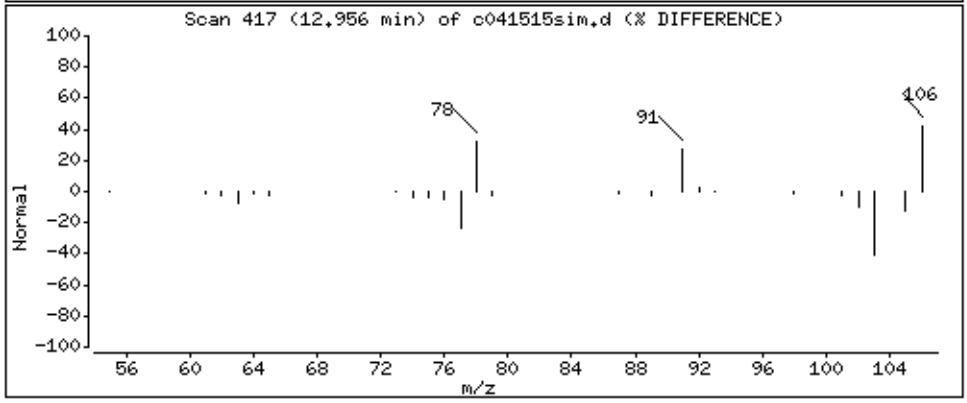












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

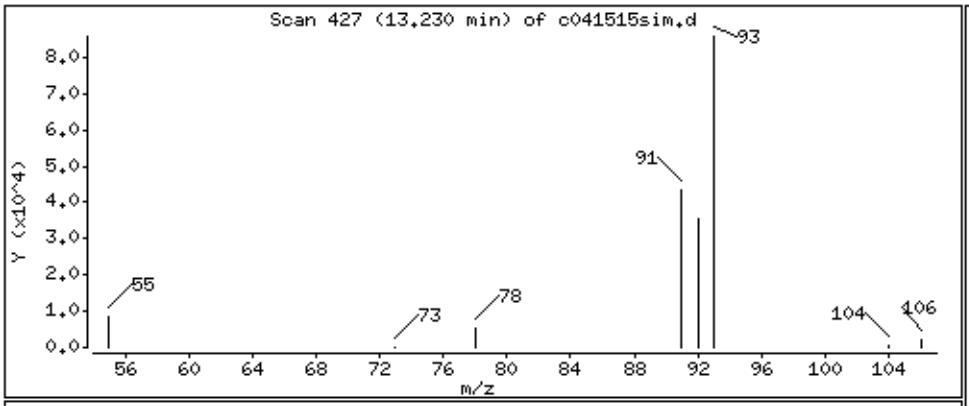
Operator: gm

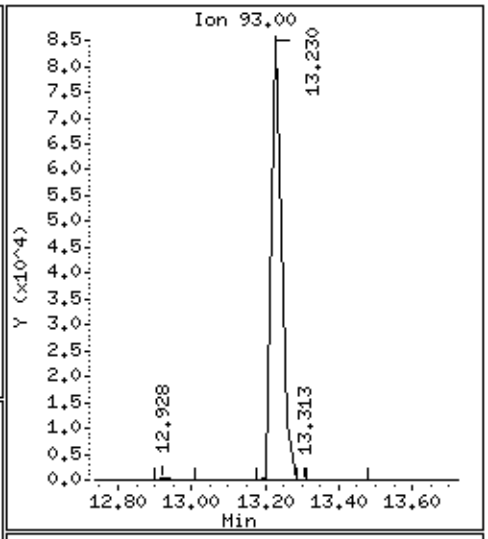
Column phase: DB-5.625

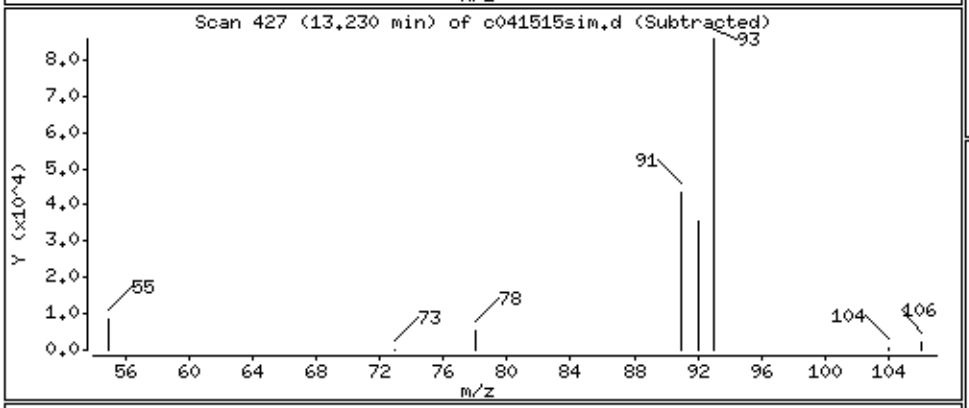
Column diameter: 0.25

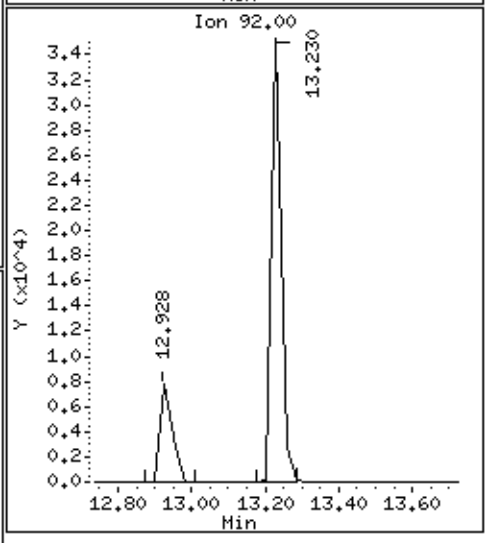
36 a-Pinene

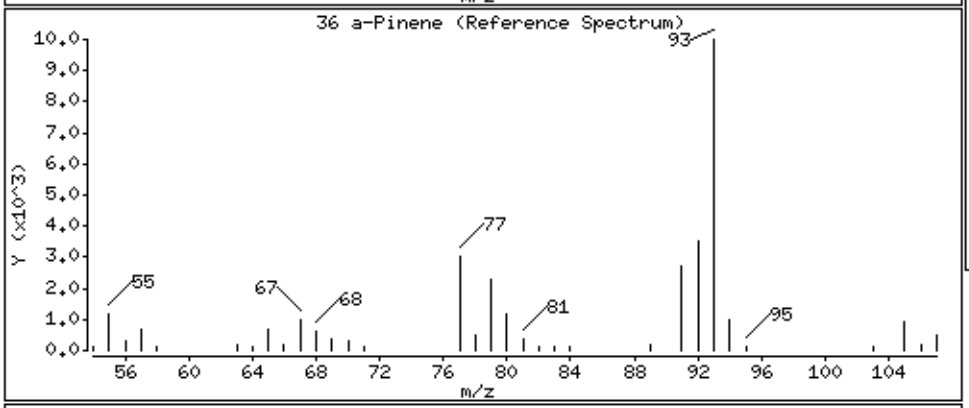
Concentration: 5.57159 ug

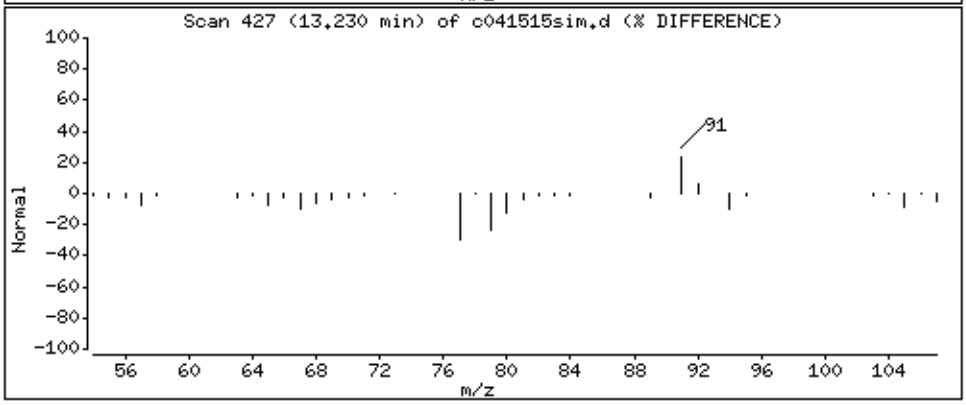












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

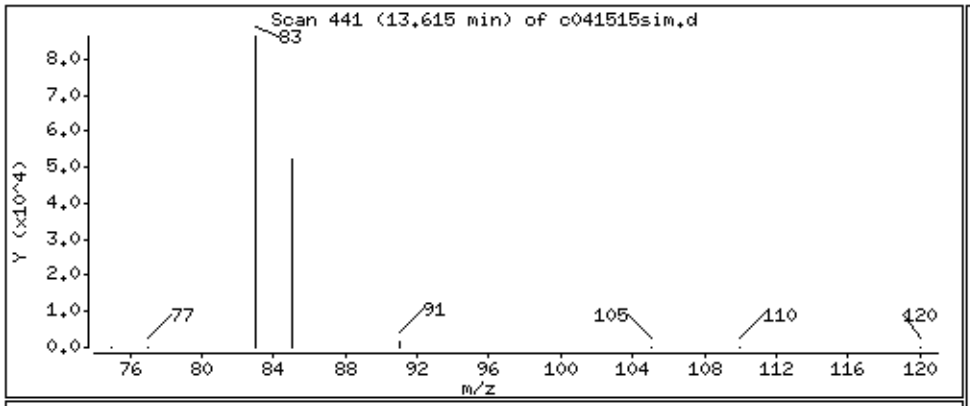
Operator: gm

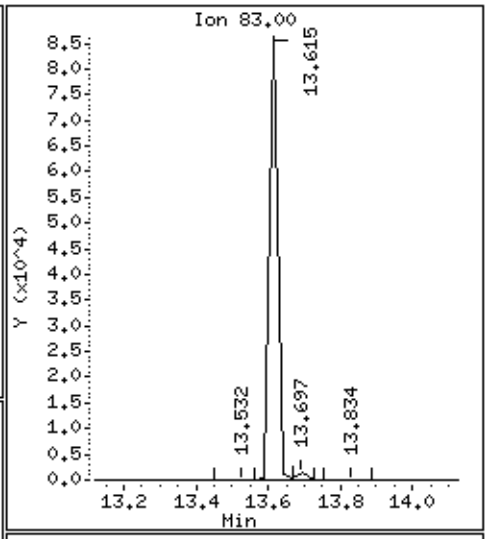
Column phase: DB-5.625

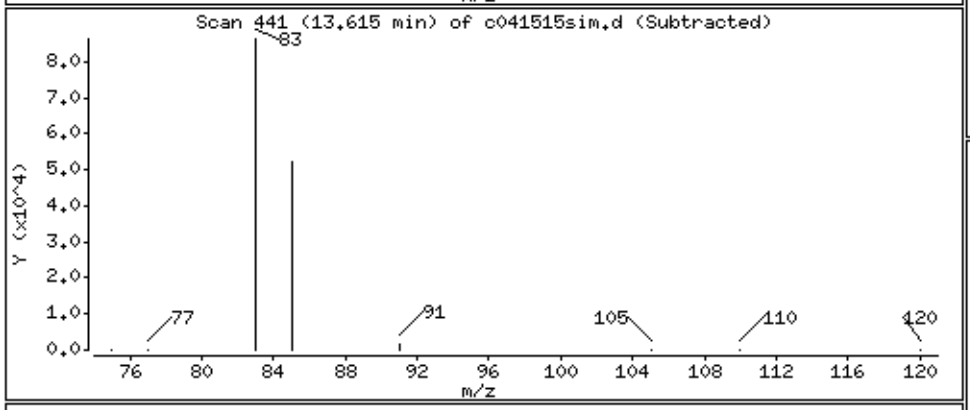
Column diameter: 0.25

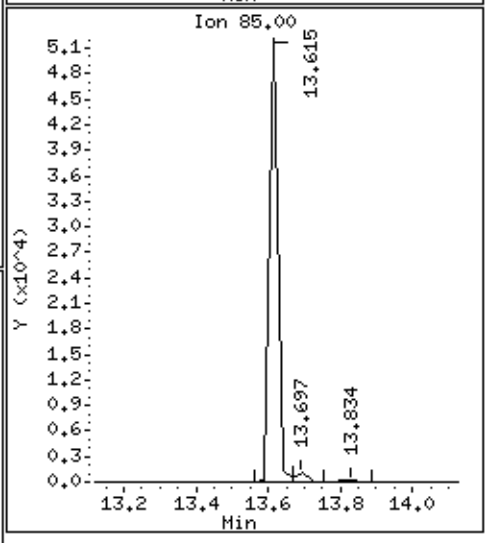
37 1,1,2,2-Tetrachloroethane-SPC

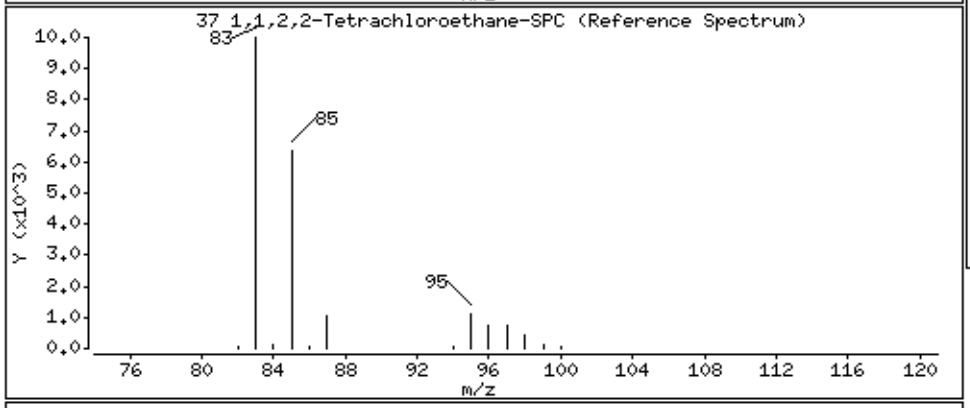
Concentration: 4.82935 ug

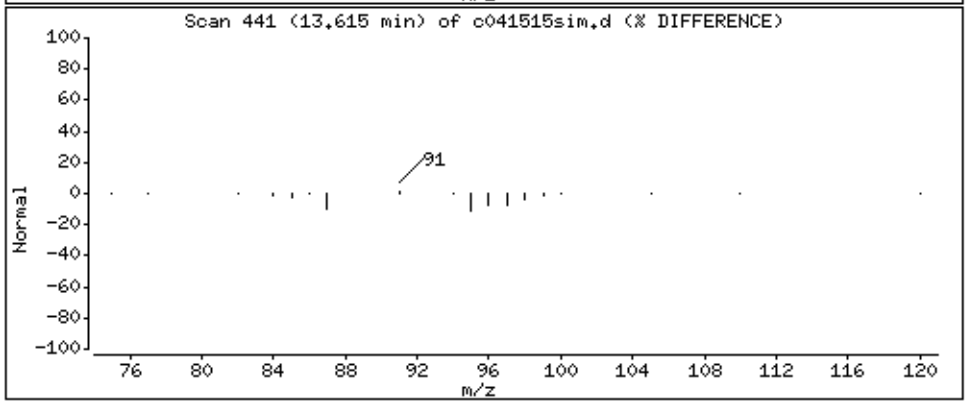












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

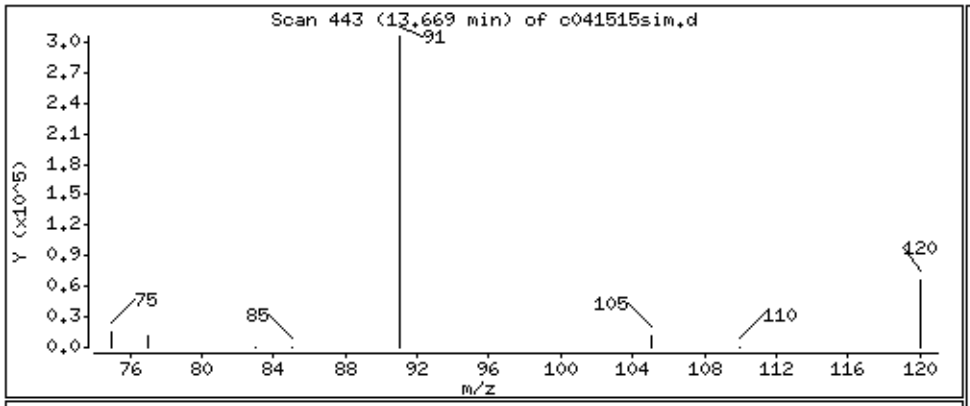
Operator: gm

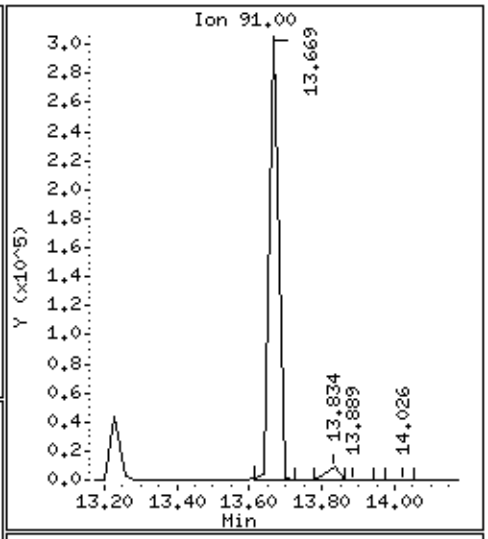
Column phase: DB-5.625

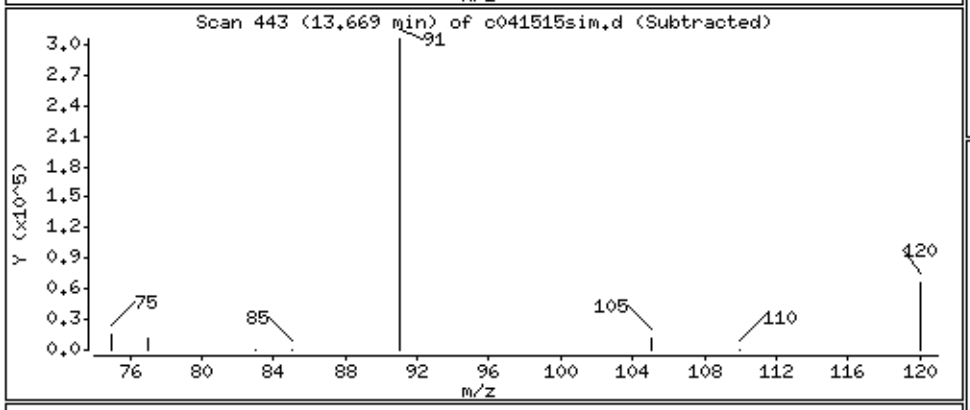
Column diameter: 0.25

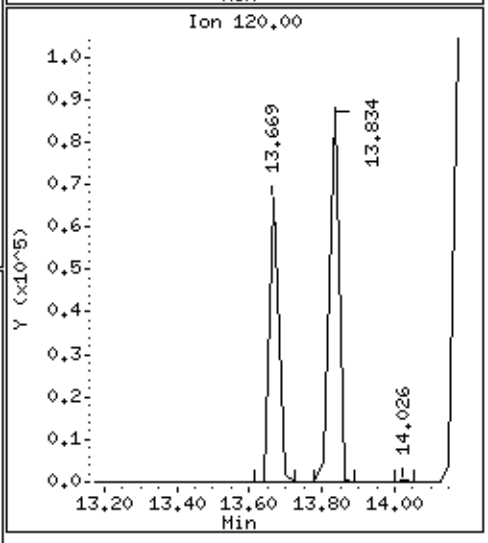
38 Propylbenzene

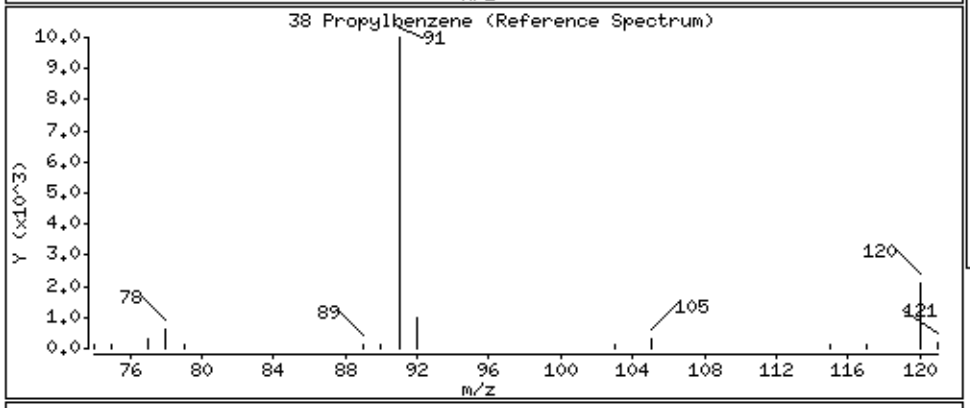
Concentration: 4.38276 ug

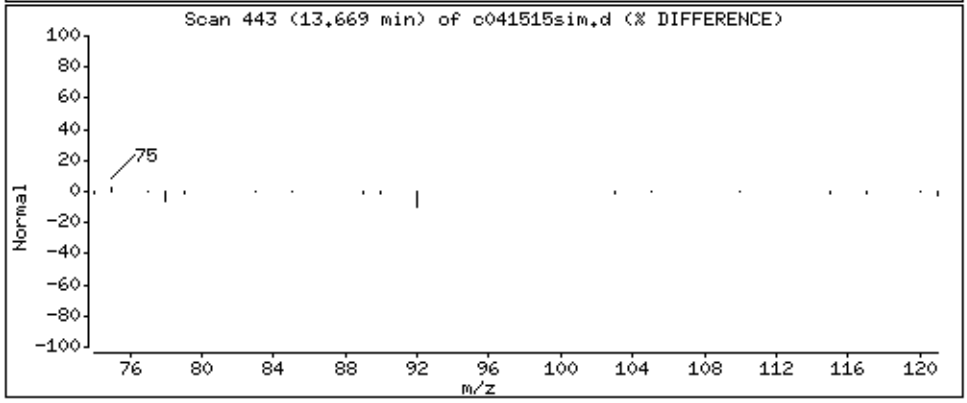












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

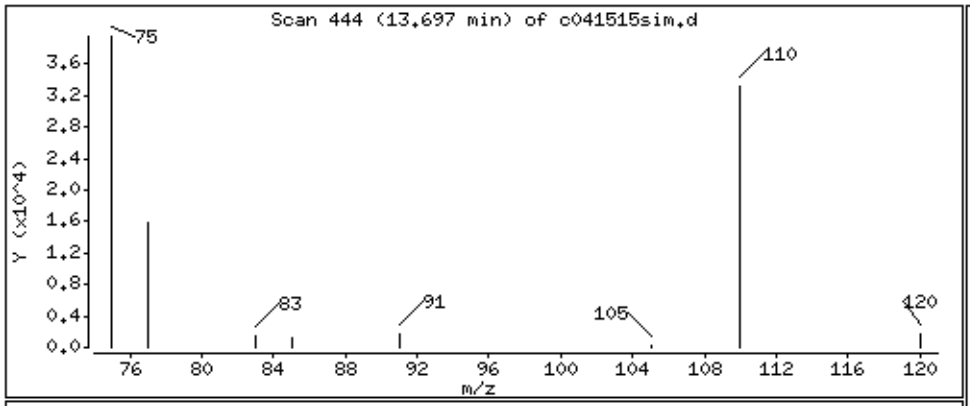
Operator: gm

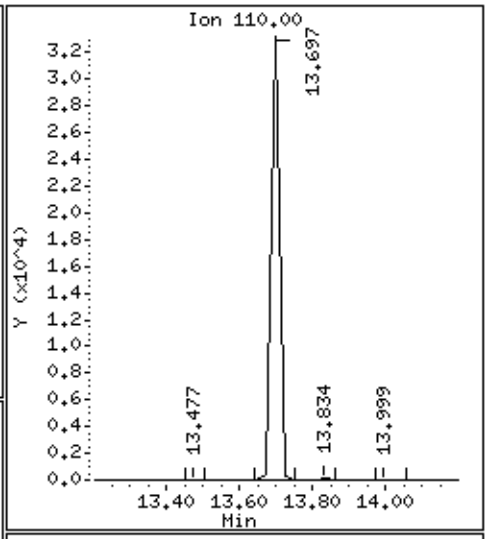
Column phase: DB-5.625

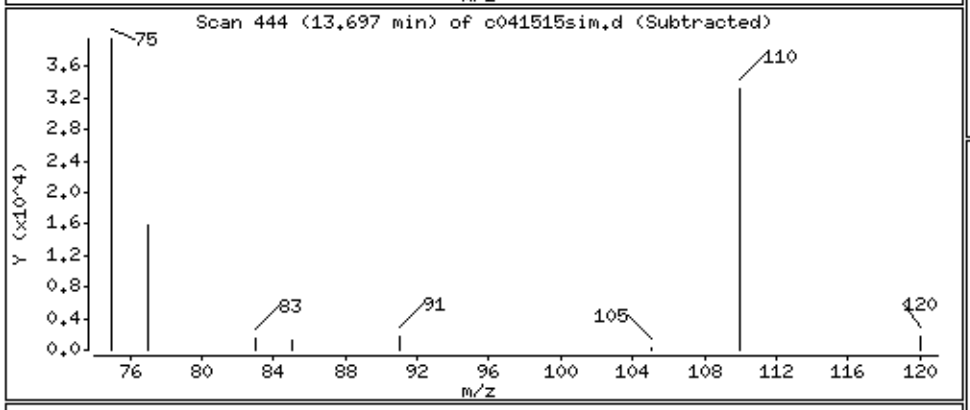
Column diameter: 0.25

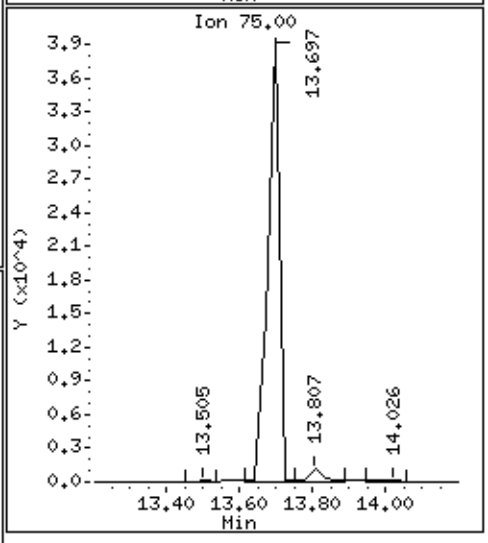
39 1,2,3-Trichloropropane

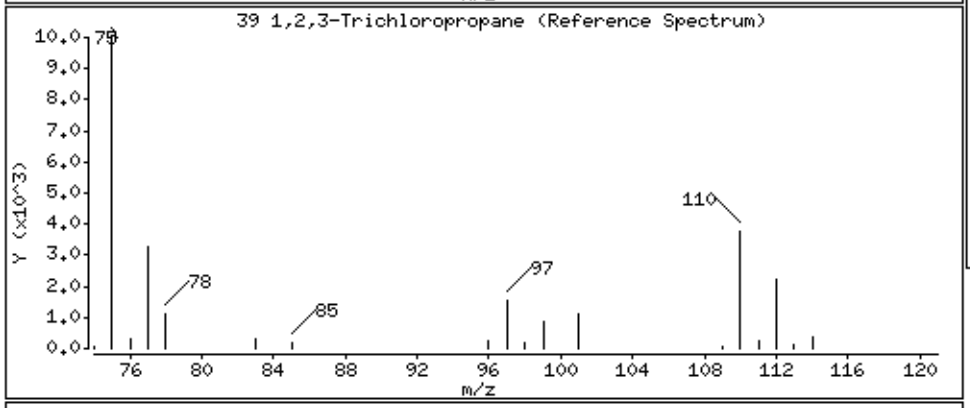
Concentration: 4.77220 ug

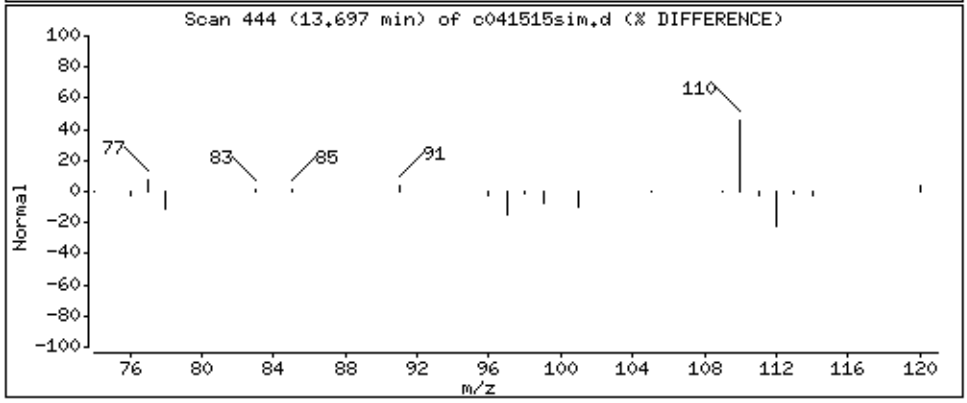












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

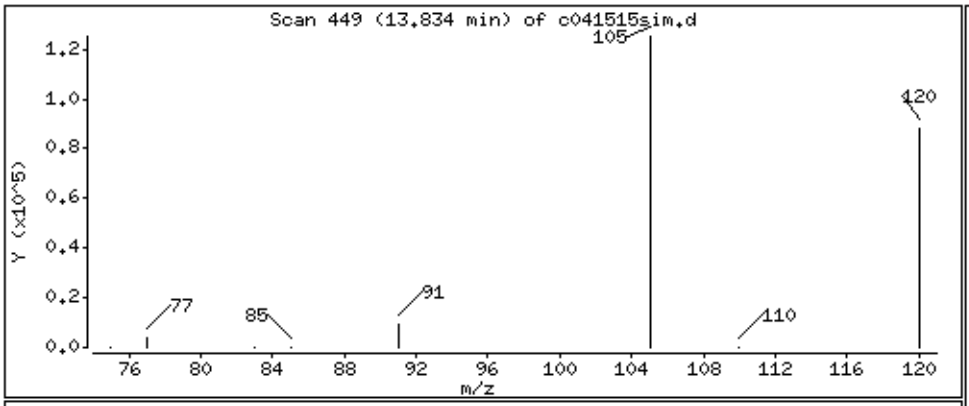
Operator: gm

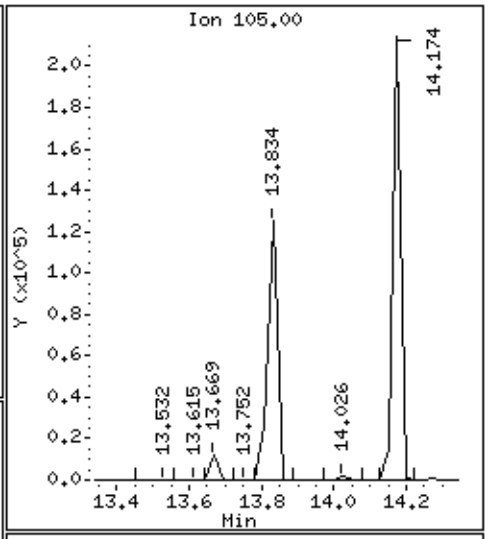
Column phase: DB-5.625

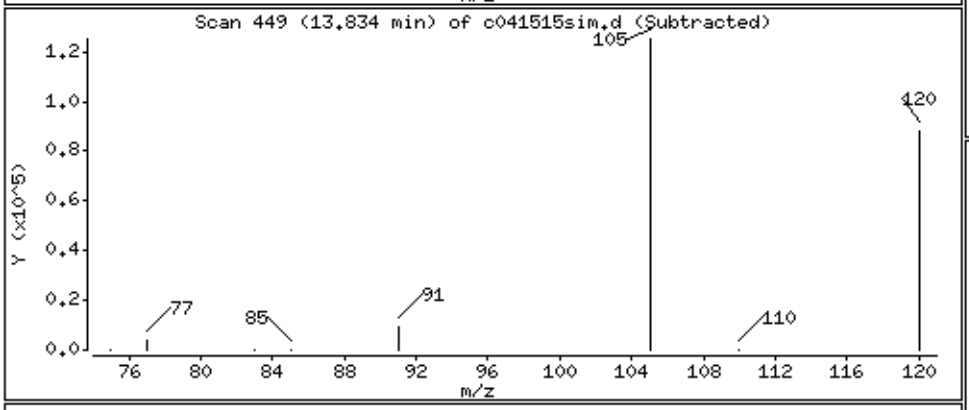
Column diameter: 0.25

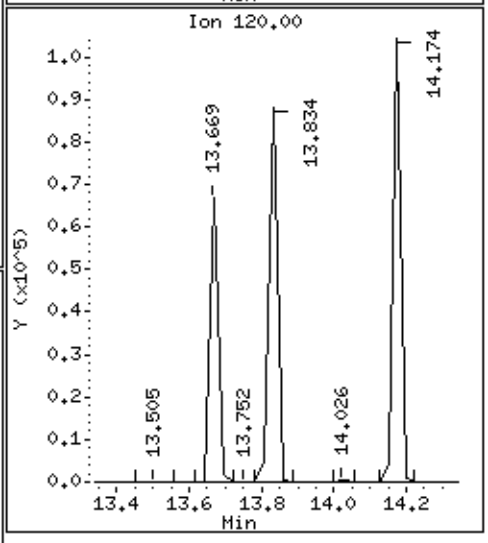
40 1,3,5-Trimethylbenzene

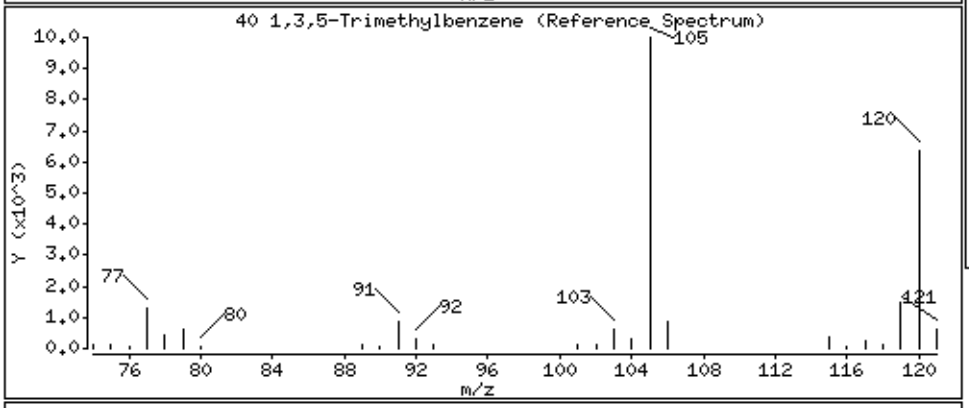
Concentration: 4.50861 ug

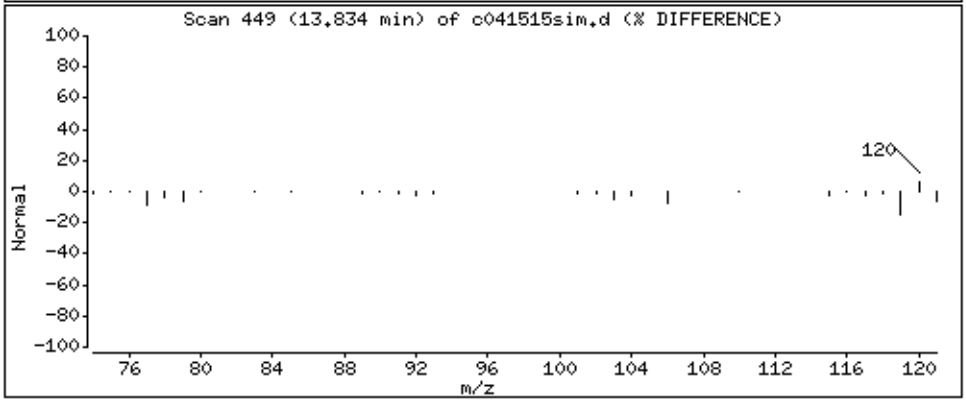












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

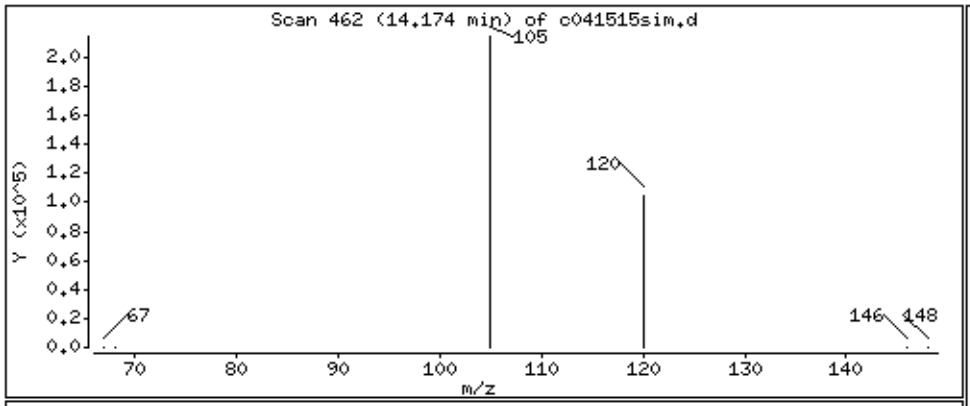
Operator: gm

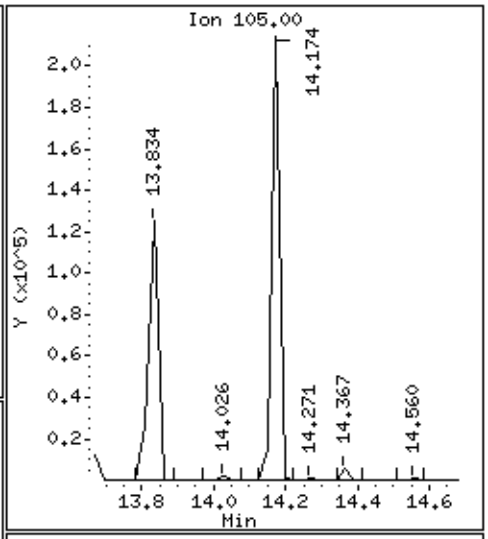
Column phase: DB-5.625

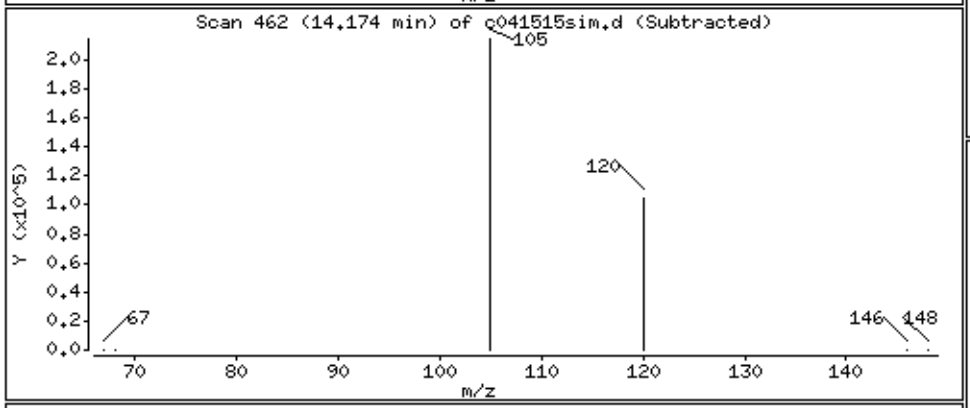
Column diameter: 0.25

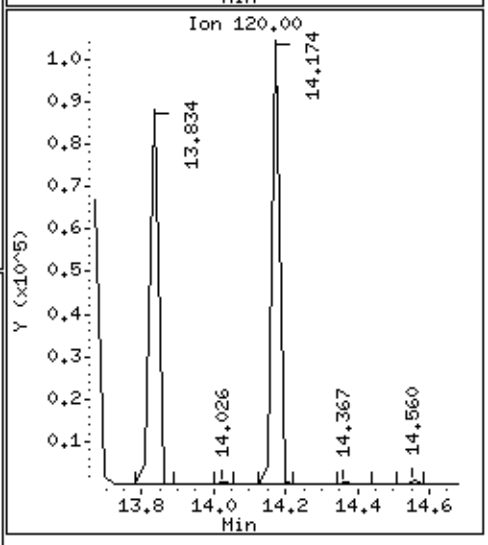
41 1,2,4-Trimethylbenzene

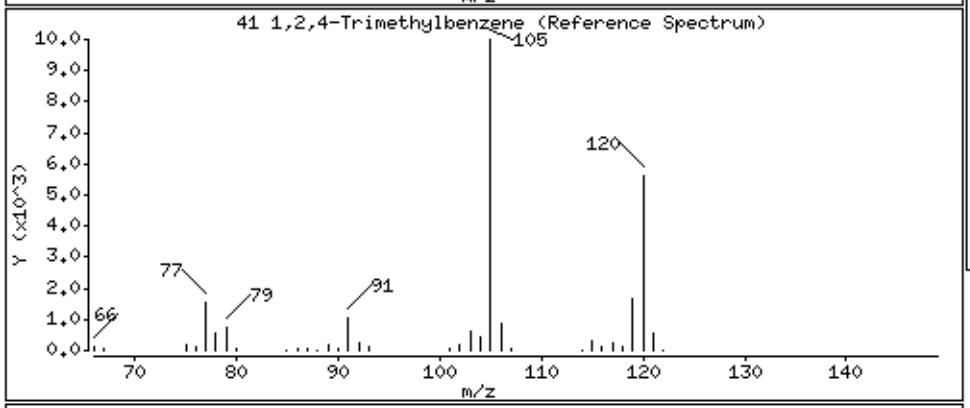
Concentration: 4.77602 ug

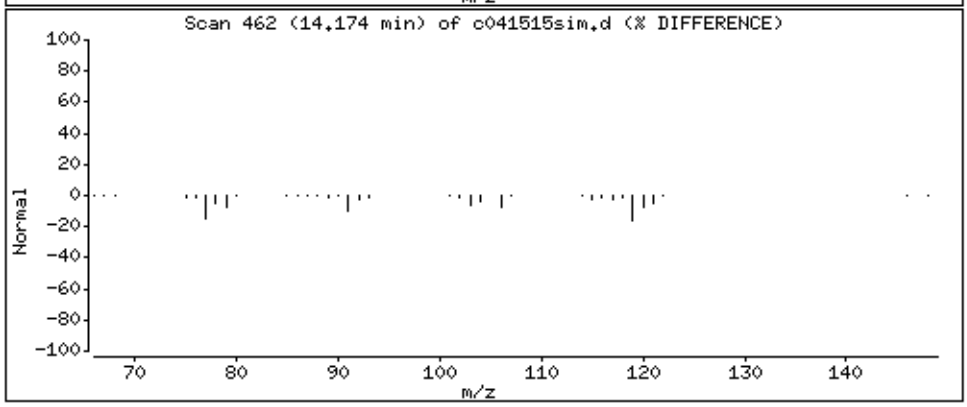












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

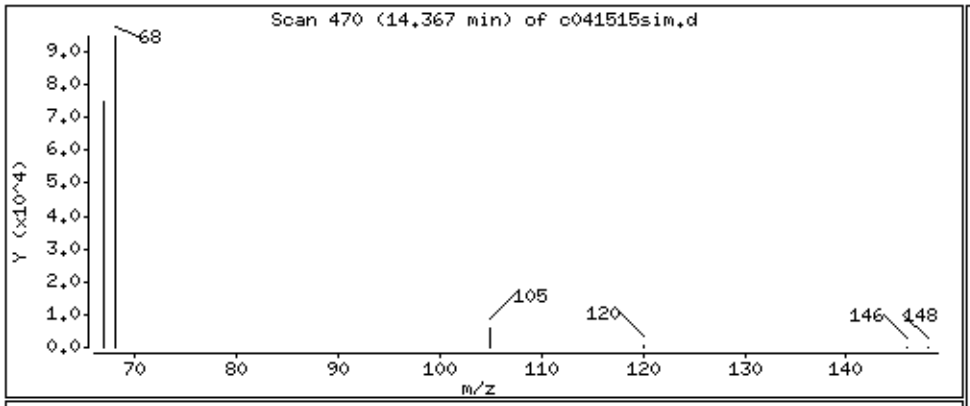
Operator: gm

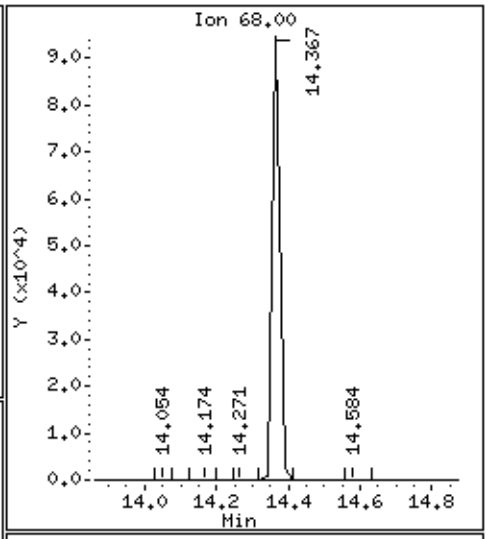
Column phase: DB-5.625

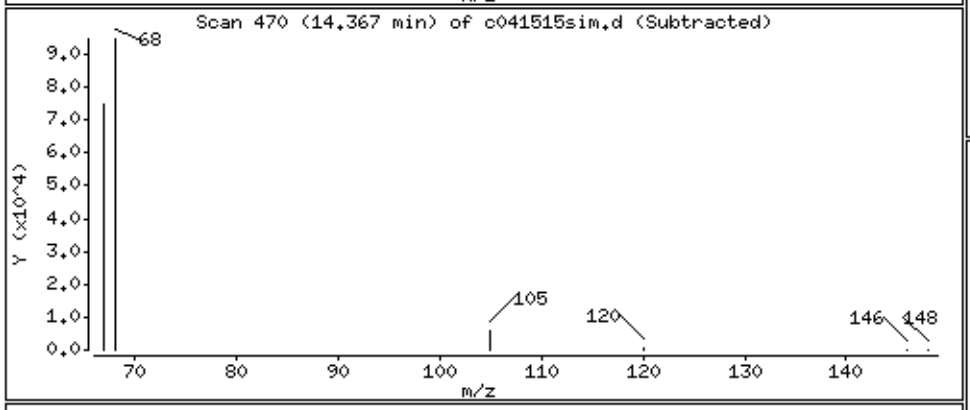
Column diameter: 0.25

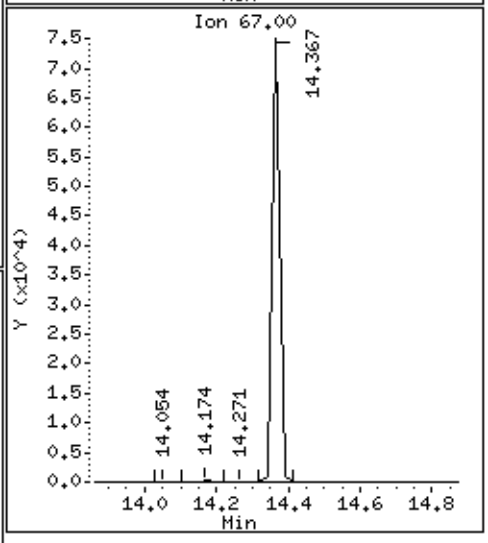
42 R-(+)-Limonene

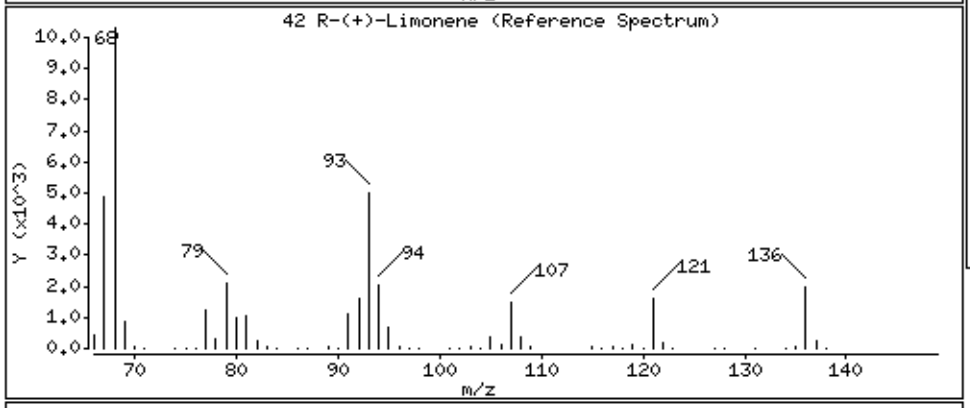
Concentration: 4.85231 ug

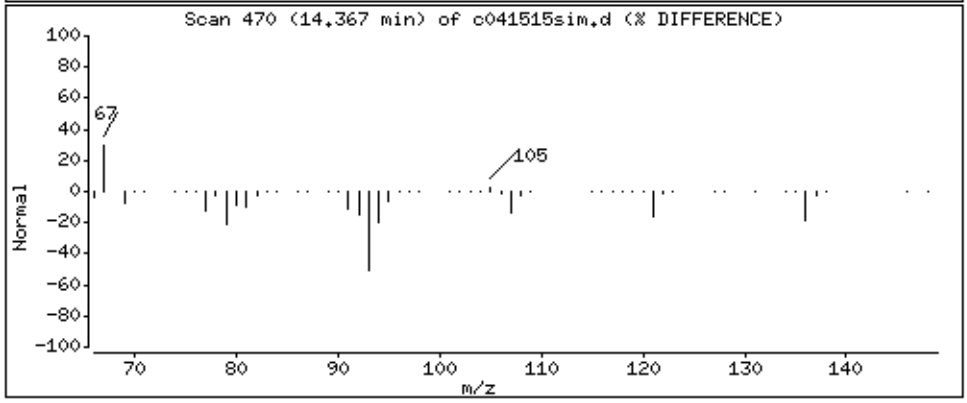












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

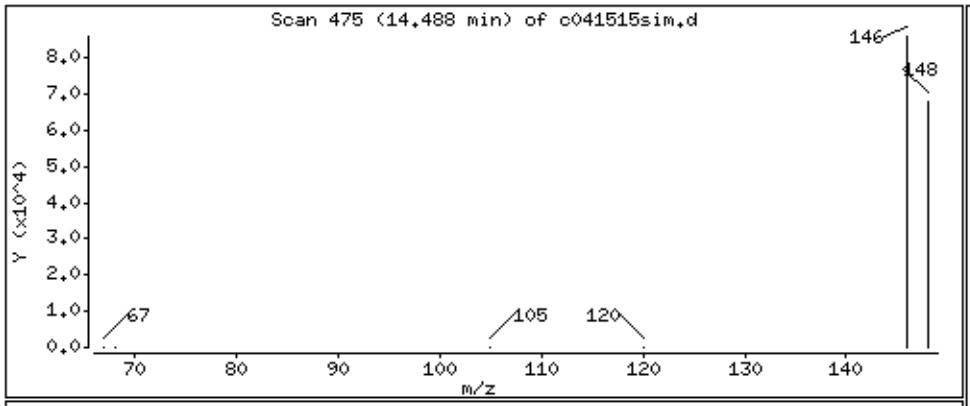
Operator: gm

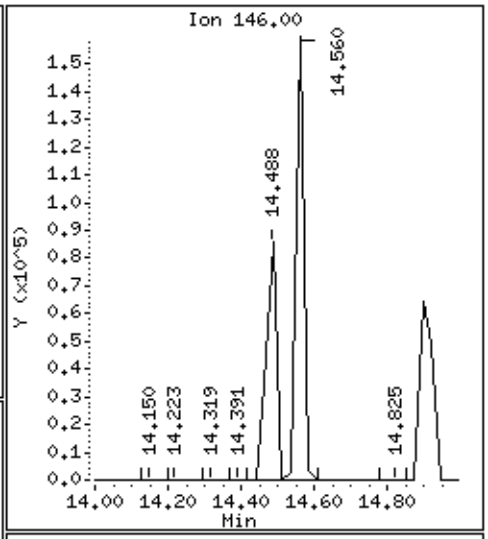
Column phase: DB-5.625

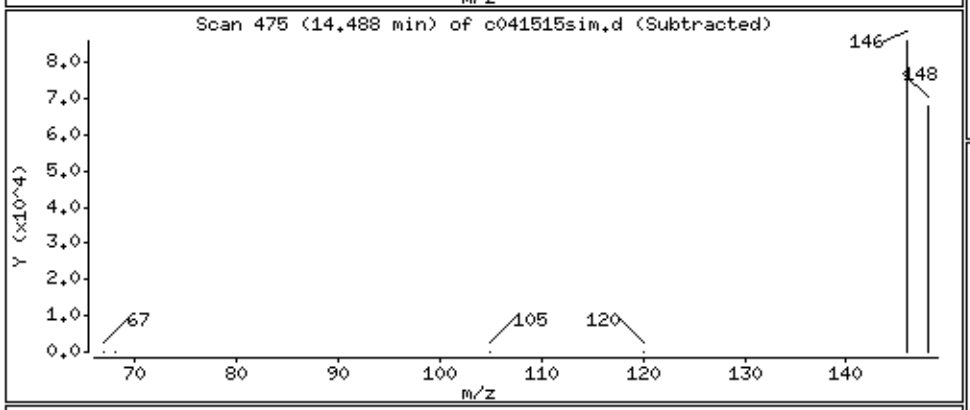
Column diameter: 0.25

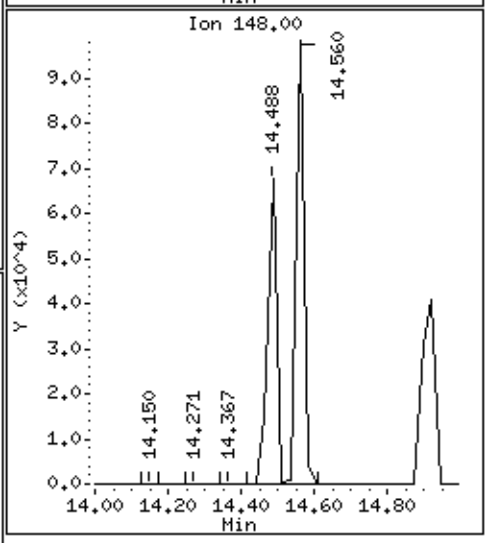
43 1,3-Dichlorobenzene

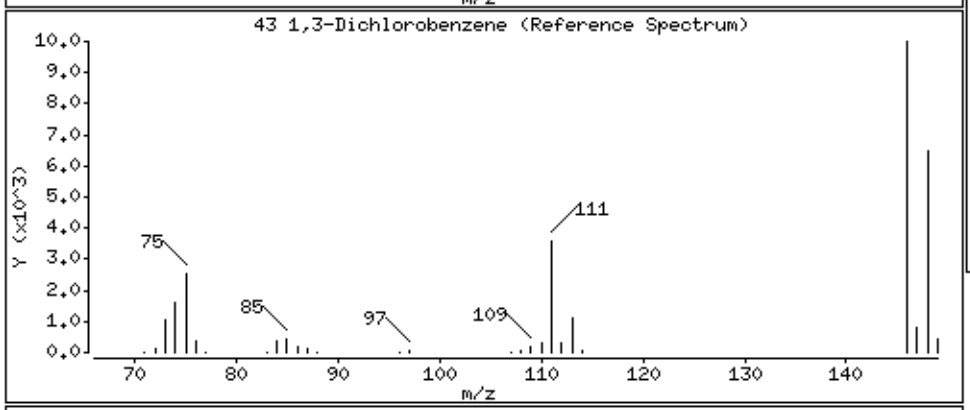
Concentration: 4.59908 ug

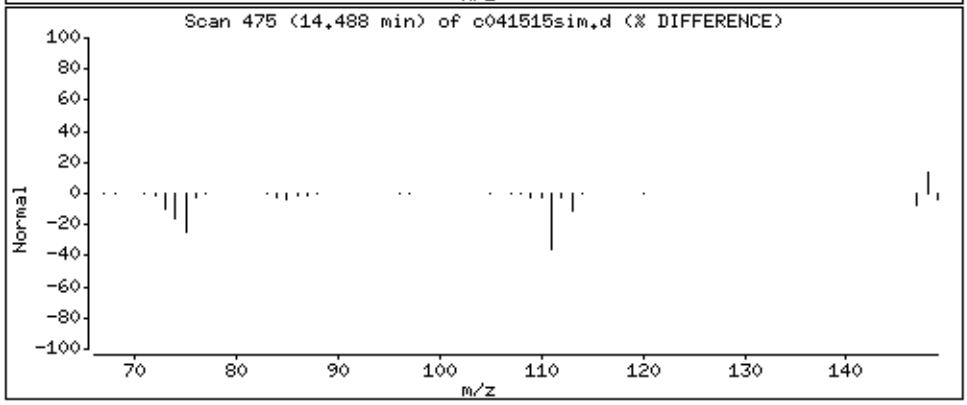












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

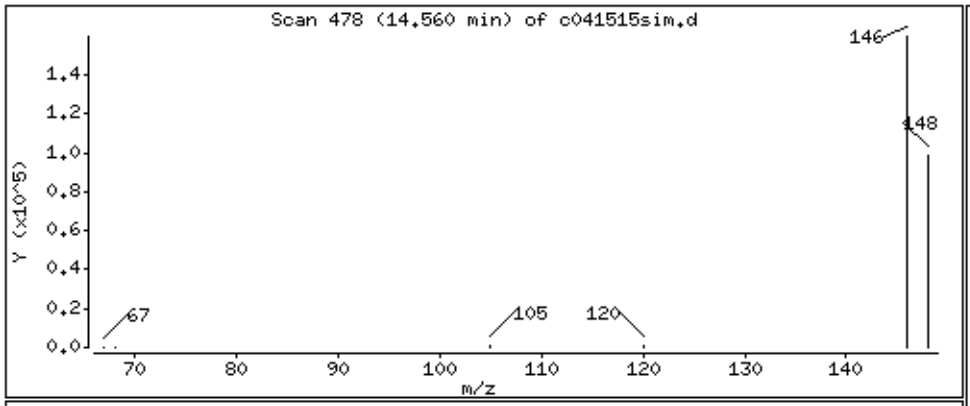
Operator: gm

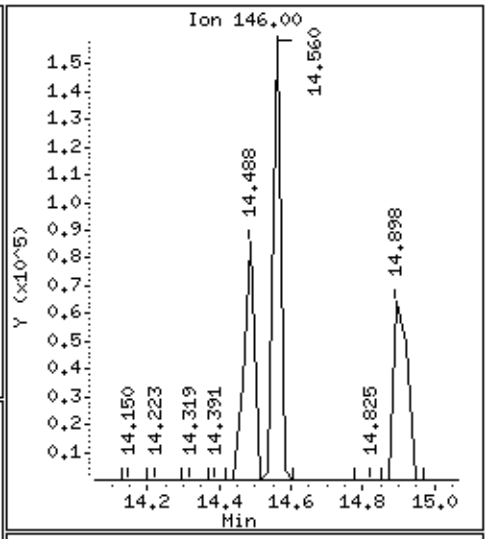
Column phase: DB-5.625

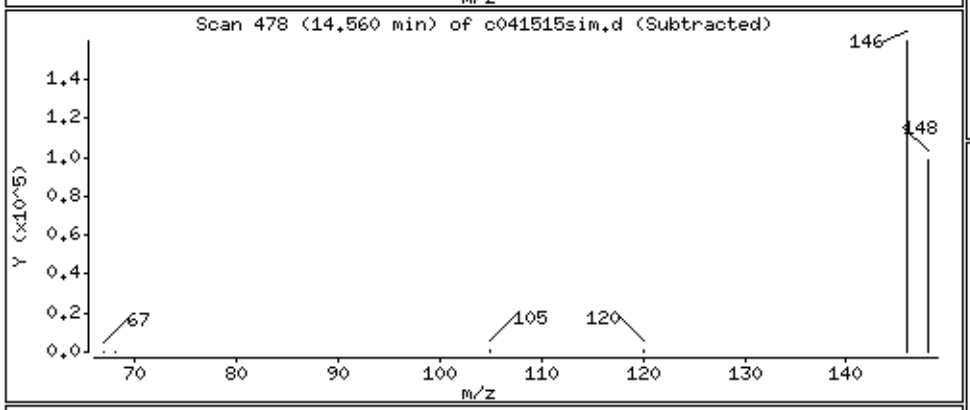
Column diameter: 0.25

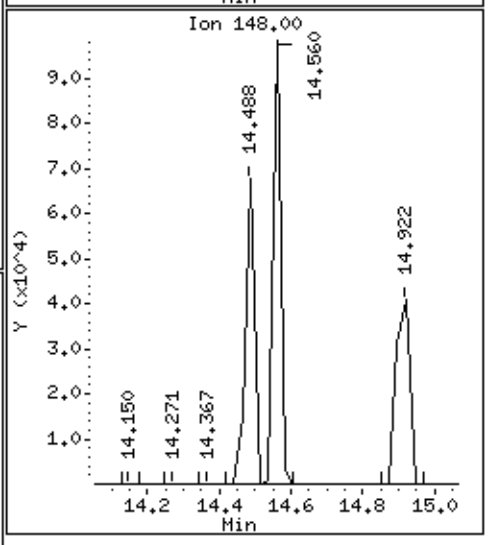
44 1,4-Dichlorobenzene

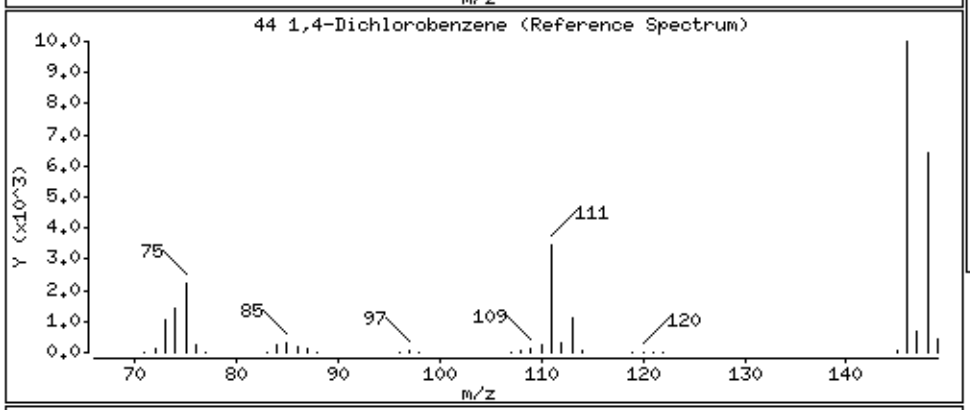
Concentration: 4.88655 ug

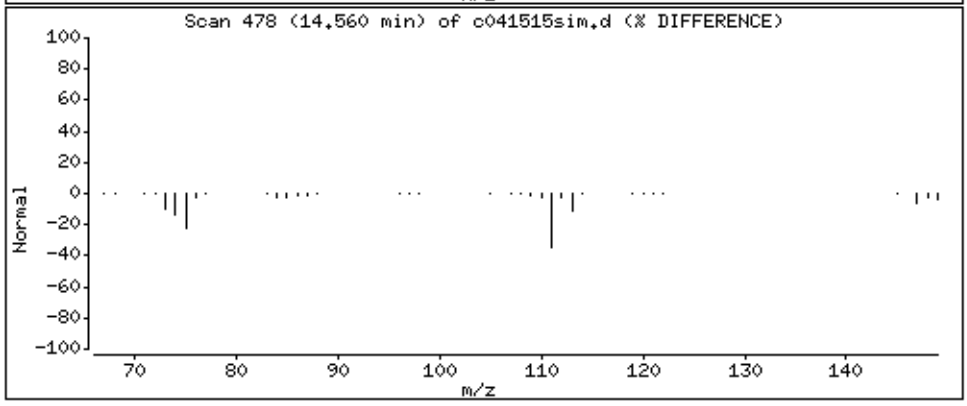












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

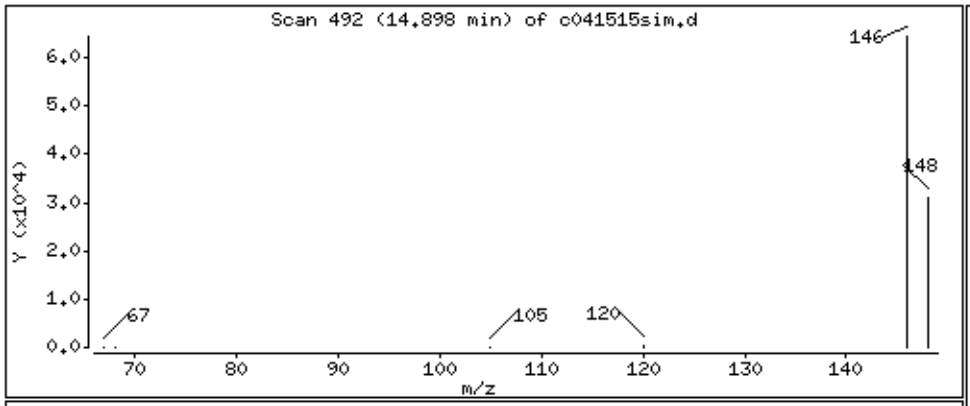
Operator: gm

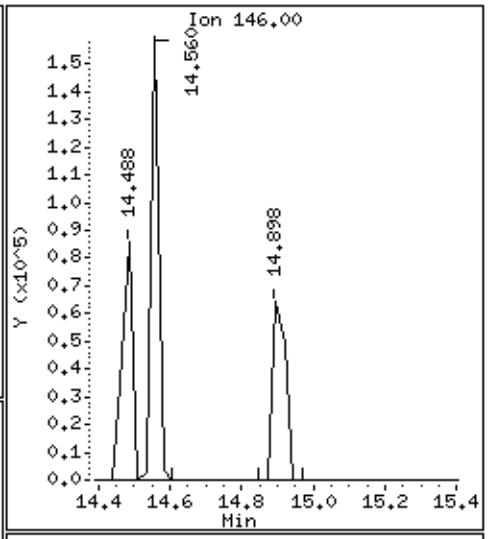
Column phase: DB-5.625

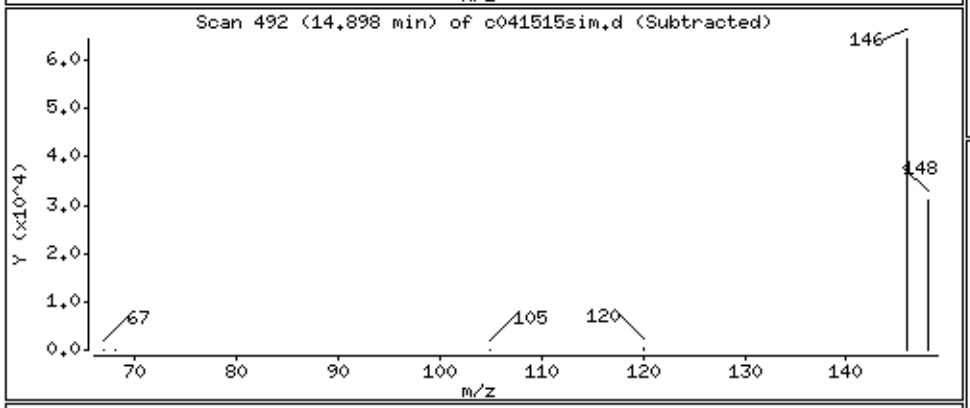
Column diameter: 0.25

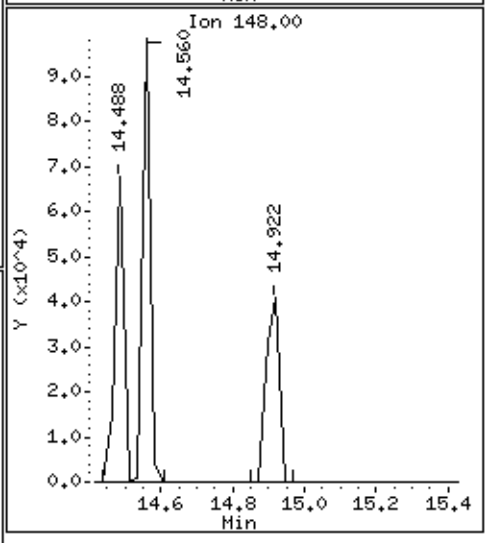
45 1,2-Dichlorobenzene

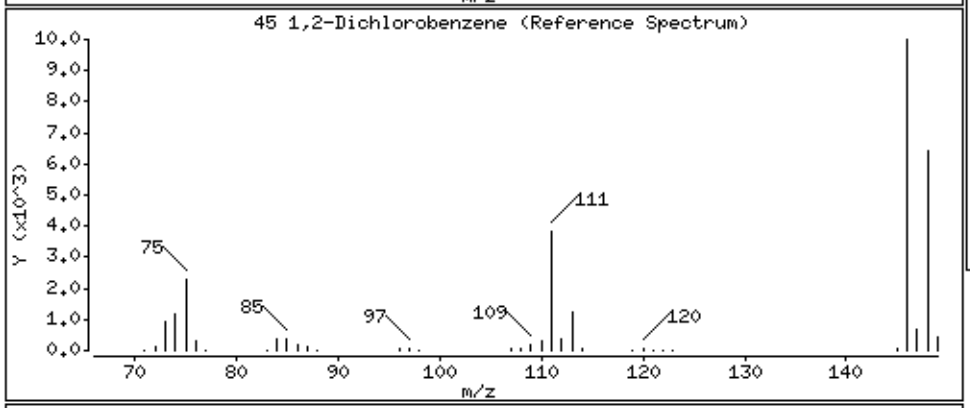
Concentration: 4.72515 ug

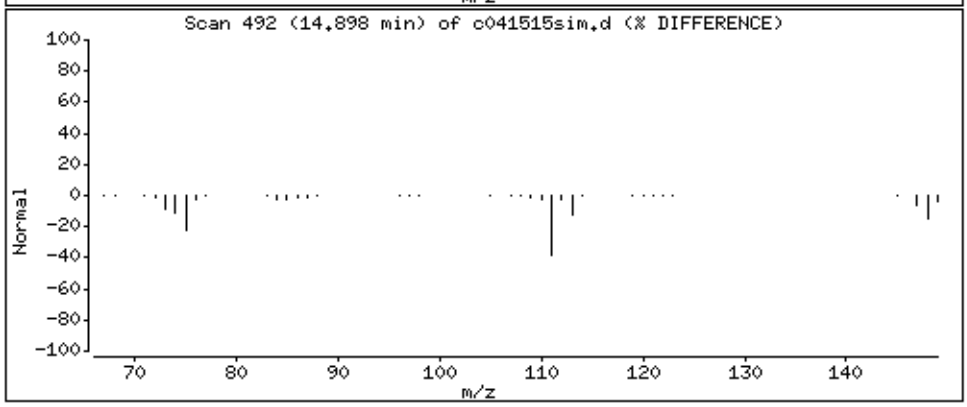












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

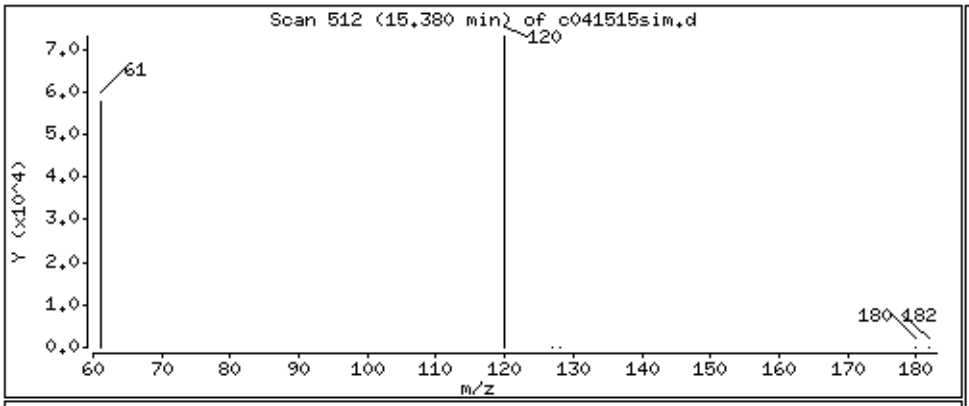
Operator: gm

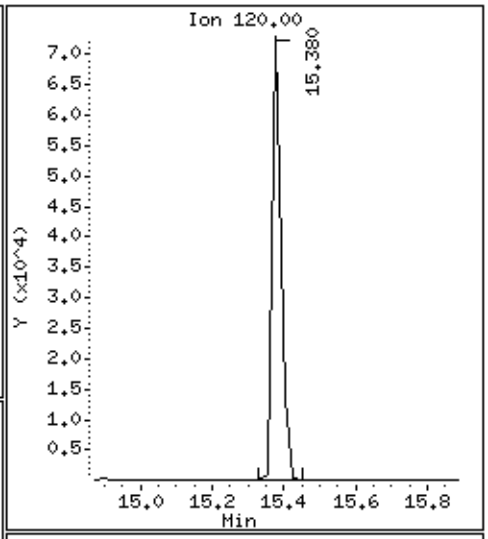
Column phase: DB-5.625

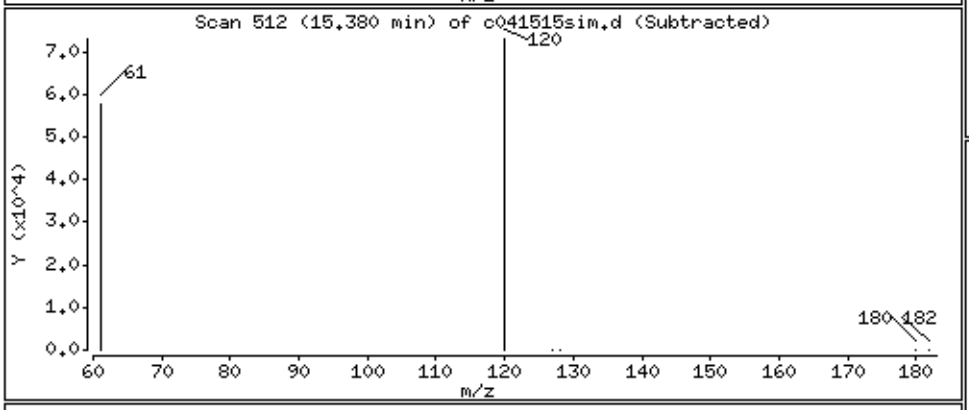
Column diameter: 0.25

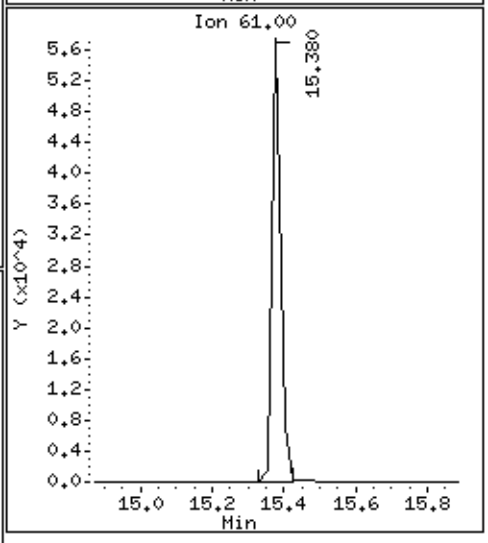
46 1,4-Dithiane

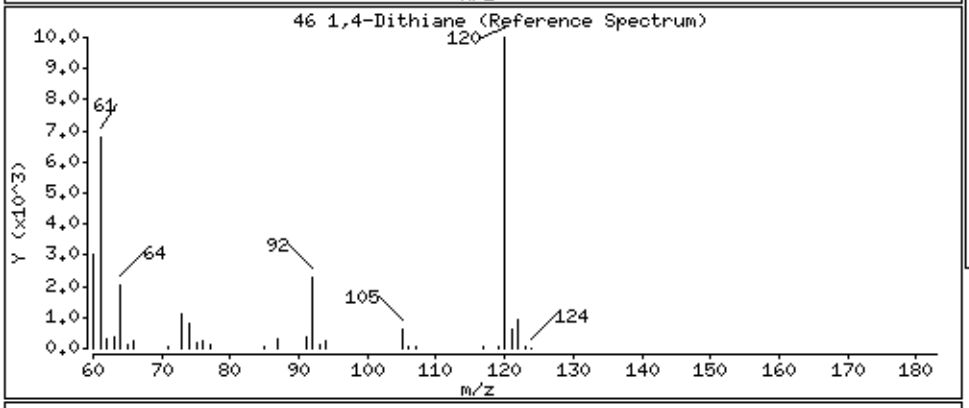
Concentration: 4.55829 ug

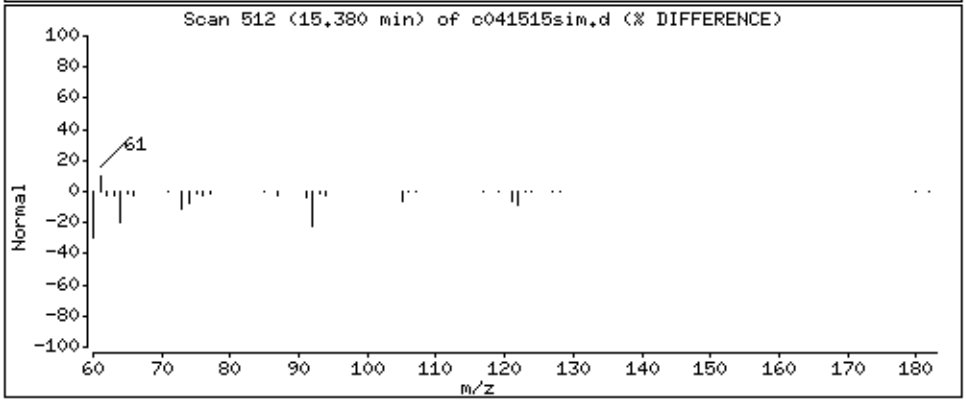












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

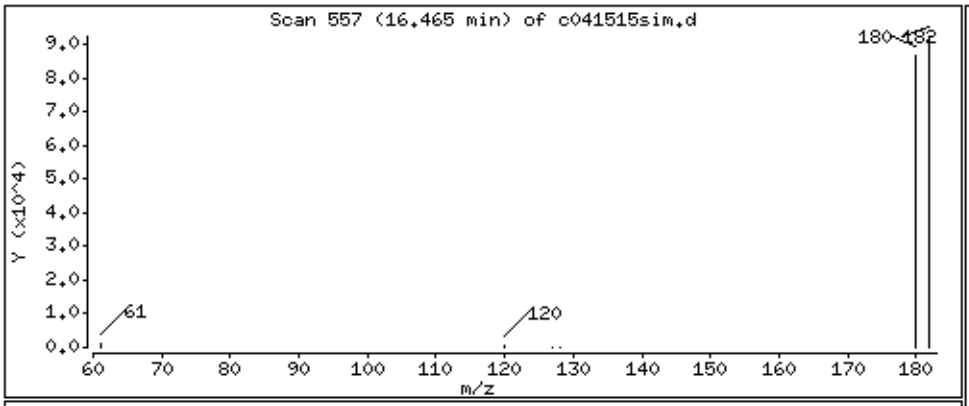
Operator: gm

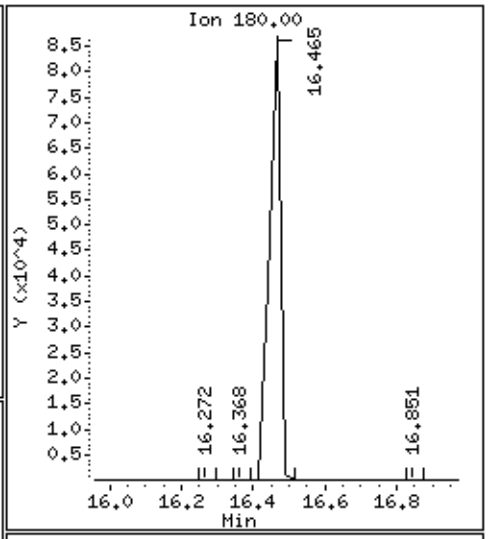
Column phase: DB-5.625

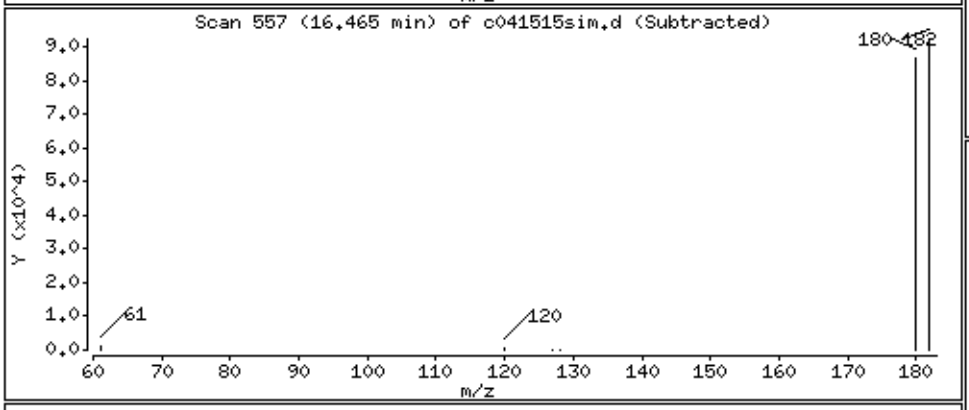
Column diameter: 0.25

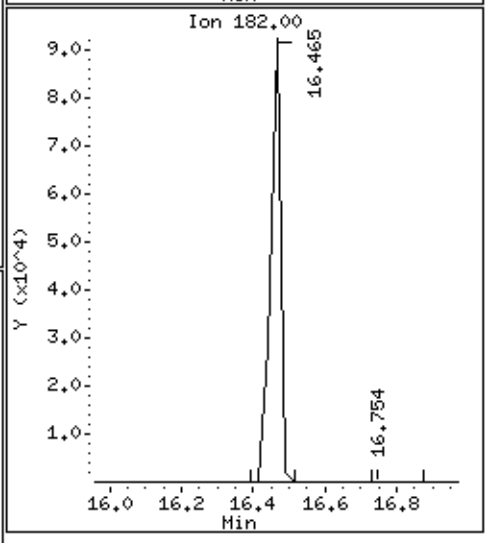
47 1,2,4-Trichlorobenzene

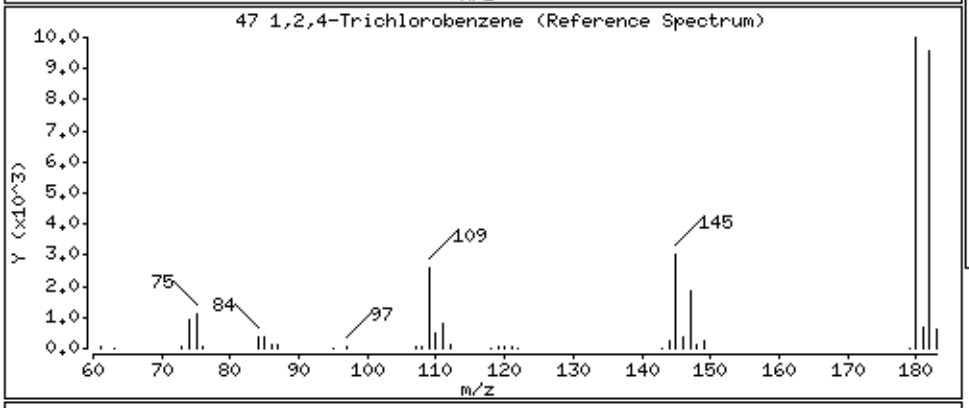
Concentration: 4.63568 ug

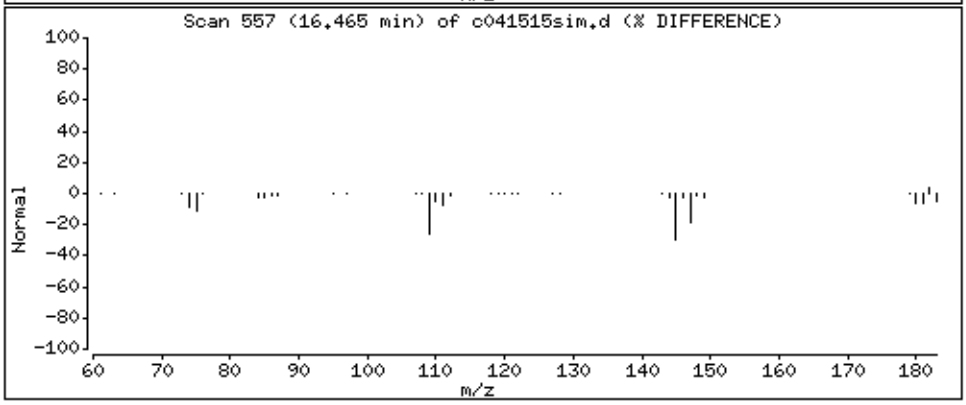












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

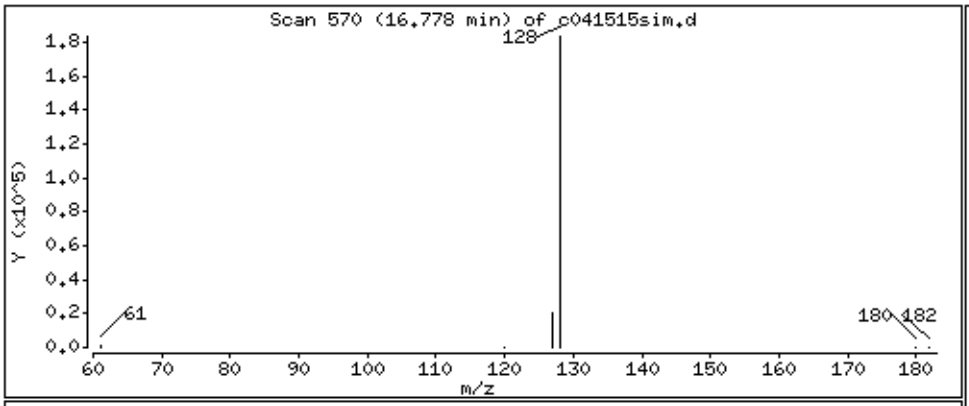
Operator: gm

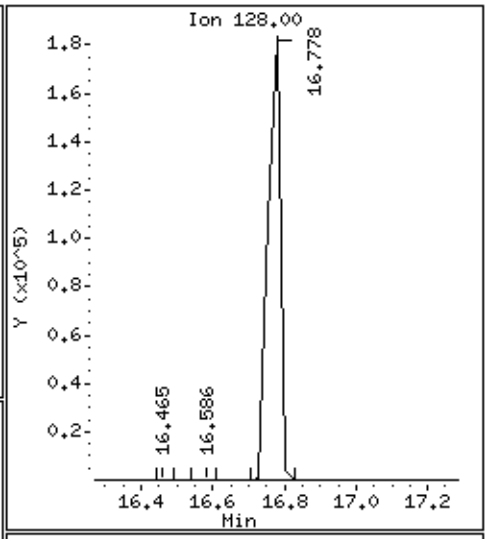
Column phase: DB-5.625

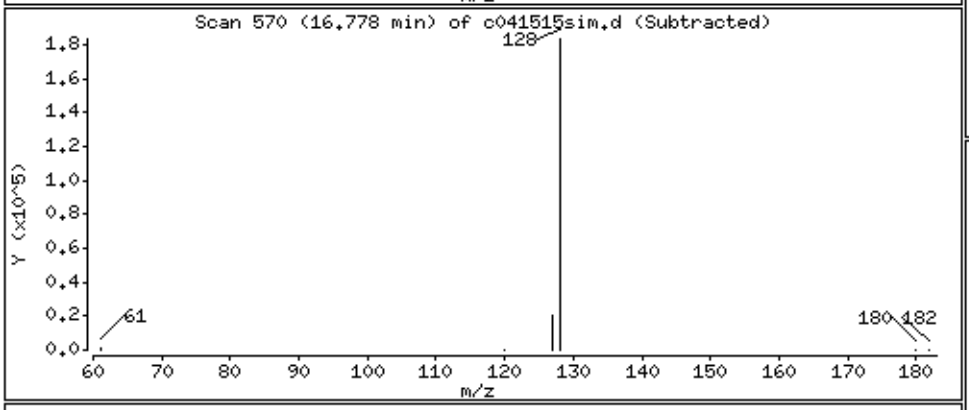
Column diameter: 0.25

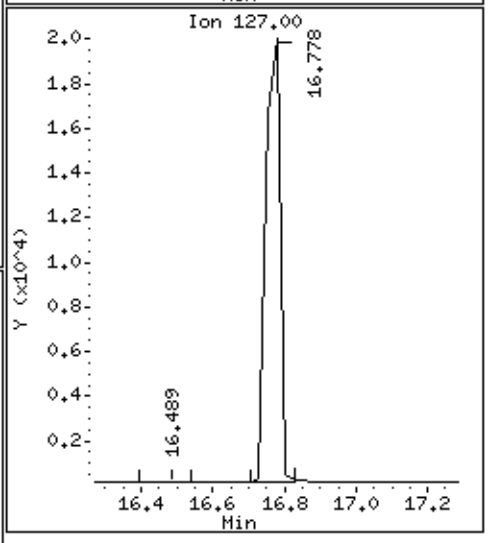
48 Naphthalene

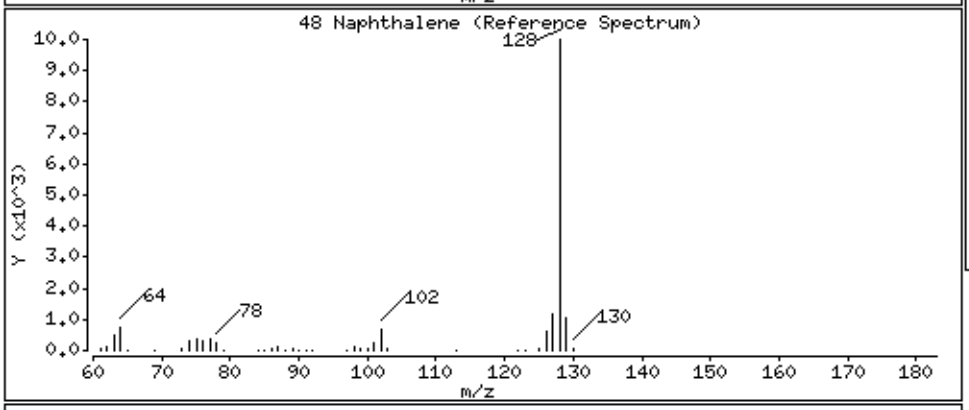
Concentration: 4.91263 ug

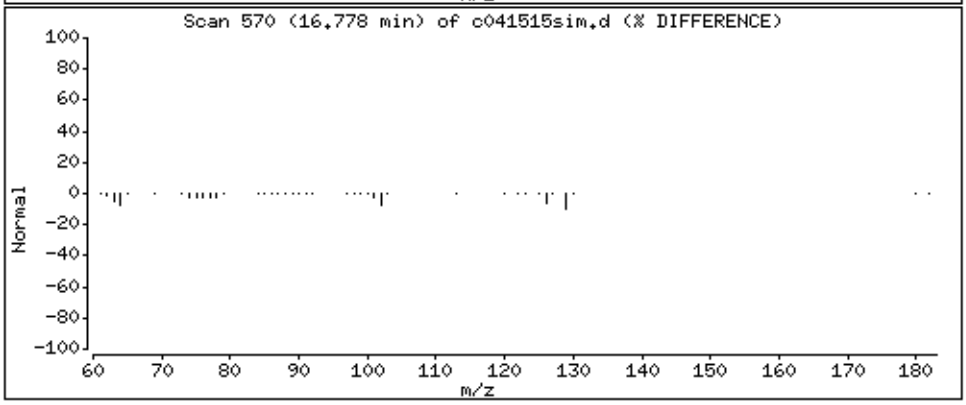












Data File: /chem/msdc.i/15Apr2015.b/c041515sim.d

Date : 15-APR-2015 13:49

Client ID: ICV

Instrument: msdc.i

Sample Info: ;2595-231-5.0;ICV

Volume Injected (uL): 1.0

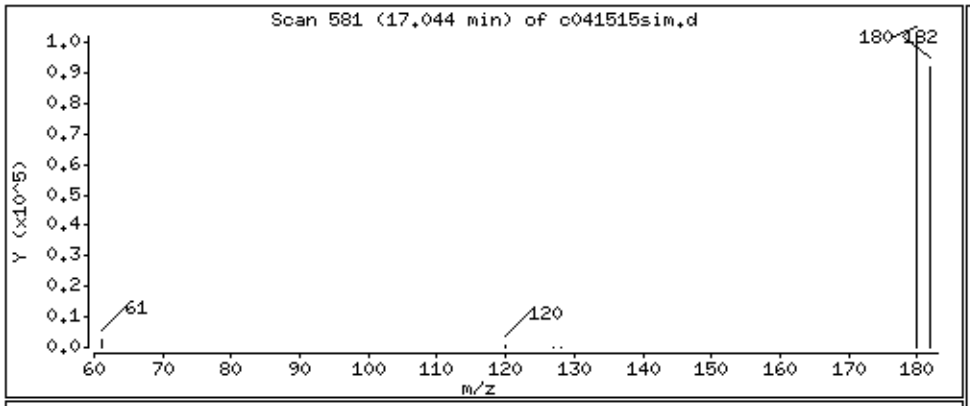
Operator: gm

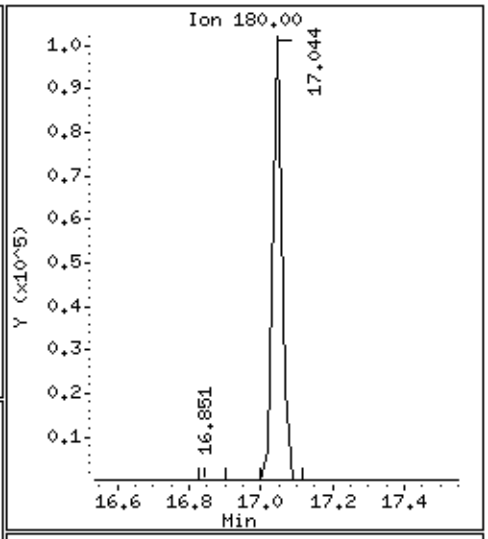
Column phase: DB-5.625

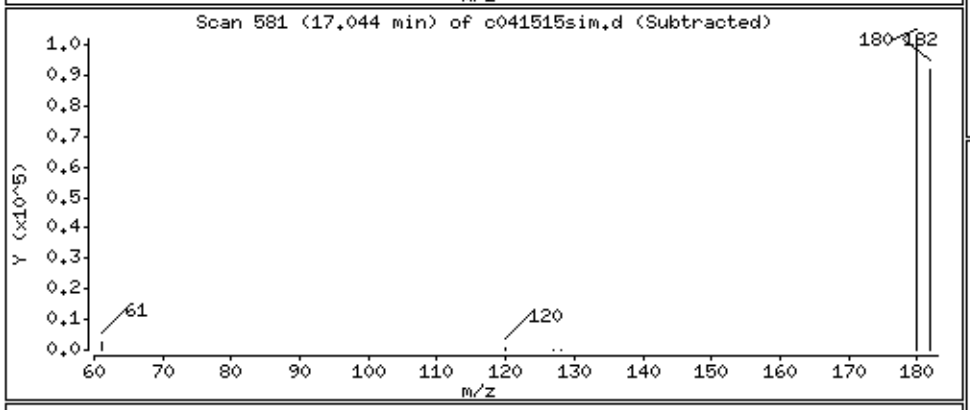
Column diameter: 0.25

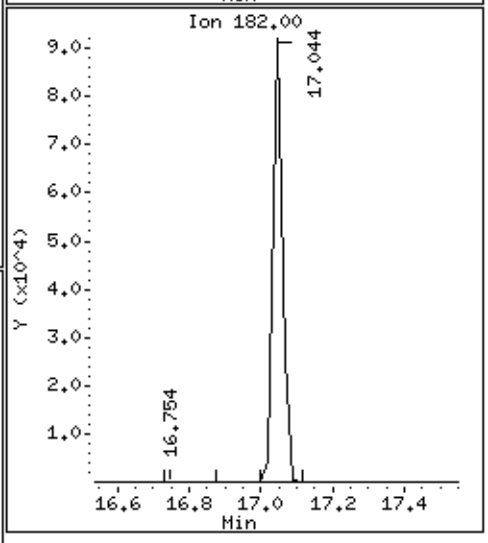
49 1,2,3-Trichlorobenzene

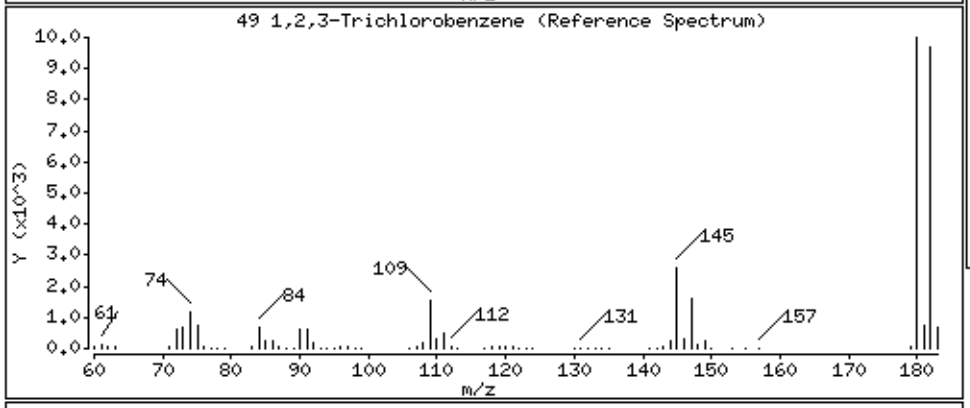
Concentration: 4.79768 ug

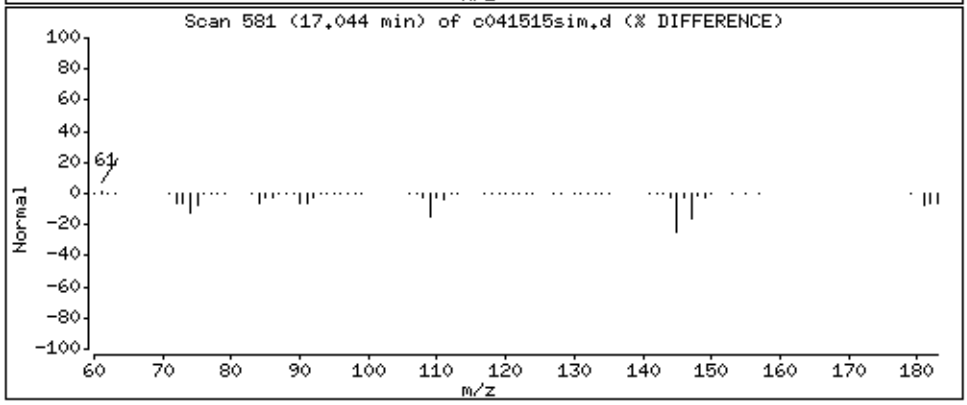












Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msdc.i/15Apr2015.b/c041503sim.d
Lab Smp Id: 2595-224-0.05>0.025 Client Smp ID: Level 1
Inj Date : 15-APR-2015 08:54
Operator : gm Inst ID: msdc.i
Smp Info : ;2595-224-0.05>0.025;Level 1
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Meth Date : 15-Apr-2015 13:38 gmash Quant Type: ISTD
Cal Date : 15-APR-2015 08:54 Cal File: c041503sim.d
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: mpxylene.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
* 27 2-Fluorotoluene	109	10.993	10.994	(1.000)	341288	5.00000	
$ 25 Toluene-d8	98	10.656	10.656	(0.969)	288025	5.00000	5.12714(A)
33 m,p-Xylene	106	12.506	12.506	(1.138)	2521	0.05000	0.0577387

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Report Date: 15-Apr-2015 13:38

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c041503sim.d
Lab Smp Id: 2595-224-0.05>0.025
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

Calibration Date: 15-APR-2015
Calibration Time: 11:23
Client Smp ID: Level 1
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	318479	159240	636958	341288	7.16

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	10.99	10.49	11.49	10.99	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdc.i/15Apr2015.b/c041503sim.d

Date : 15-APR-2015 08:54

Client ID: Level 1

Instrument: msdc.i

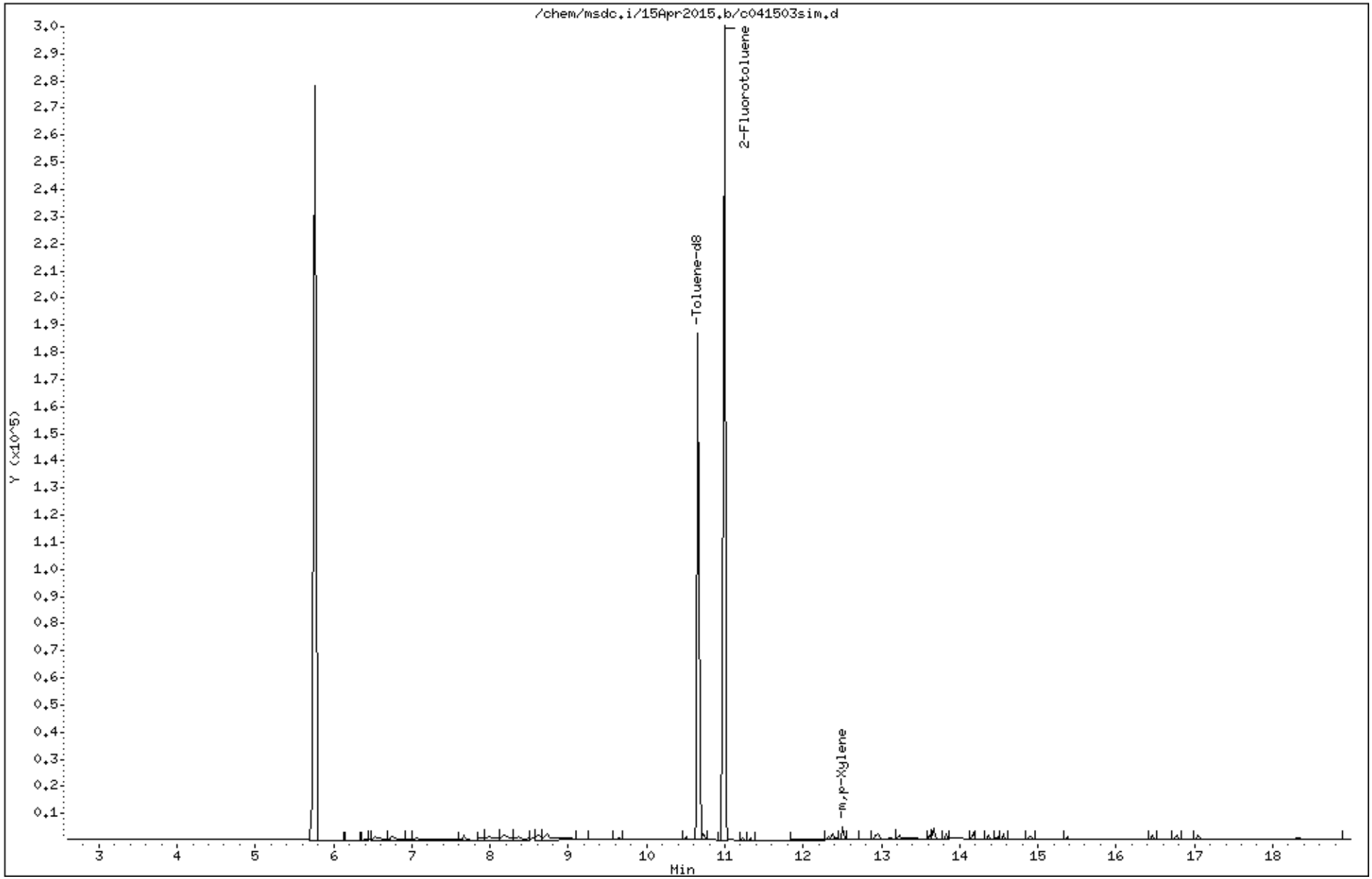
Sample Info: ;2595-224-0.05>0.025;Level 1

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msdc.i/15Apr2015.b/c041504sim.d
Lab Smp Id: 2595-224-0.05 Client Smp ID: Level 2
Inj Date : 15-APR-2015 09:18
Operator : gm Inst ID: msdc.i
Smp Info : ;2595-224-0.05;Level 2
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Meth Date : 15-Apr-2015 13:38 gmash Quant Type: ISTD
Cal Date : 15-APR-2015 09:18 Cal File: c041504sim.d
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0.05.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
	7 MTBE	73	6.555	6.528	(0.596)	2413	0.05000	0.0602257
	9 Hexane	57	6.775	6.775	(0.616)	2806	0.05000	0.0678496
	10 Halothane	117	6.985	6.985	(0.635)	550	0.05000	0.0605558
	11 1,1-Dichloroethane-SPCC	63	7.057	7.057	(0.642)	1738	0.05000	0.0572546
	14 cis-1,2-Dichloroethene	96	7.684	7.684	(0.699)	921	0.05000	0.0612391
	13 2-Butanone	72	7.684	7.662	(0.699)	540	0.05000	0.0585307
	15 Chloroform-CCC	83	7.987	7.987	(0.726)	1477	0.05000	0.0577329
	16 Cyclohexane	84	8.203	8.203	(0.746)	1563	0.05000	0.0605112
	17 1,1,1-Trichloroethane	97	8.203	8.203	(0.746)	1503	0.05000	0.0633273
	18 Carbon Tetrachloride	117	8.357	8.357	(0.760)	1501	0.05000	0.0629328
	20 1,2-Dichloroethane	62	8.696	8.696	(0.791)	1683	0.05000	0.0630471
	21 Heptane	71	8.727	8.727	(0.794)	1340	0.05000	0.0616142
	22 Trichloroethene	130	9.331	9.331	(0.849)	1128	0.05000	0.0588180
	23 Methyl Methacrylate	69	9.644	9.644	(0.877)	1129	0.05000	0.0592428
$	25 Toluene-d8	98	10.656	10.656	(0.969)	282840	5.00000	5.13697
	26 Toluene-CCC	92	10.729	10.728	(0.976)	3294	0.05000	0.0692599

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
*	27 2-Fluorotoluene	109	10.994	10.994	(1.000)	334503	5.00000	
	28 1,1,2-Trichloroethane	97	11.235	11.235	(1.022)	1148	0.05000	0.0599631
	29 Tetrachloroethene	164	11.331	11.331	(1.031)	1344	0.05000	0.0614266
	30 Chlorobenzene	112	12.325	12.325	(1.121)	3419	0.05000	0.0606926
	31 Ethylbenzene-CCC	106	12.377	12.377	(1.126)	1860	0.05000	0.0608202
	32 1,1,1,2-Tetrachloroethane	131	12.403	12.428	(1.128)	1166	0.05000	0.0583617(a)
	33 m,p-Xylene	106	12.506	12.506	(1.138)	5117	0.10000	0.119572
	34 o-Xylene	106	12.956	12.956	(1.178)	1881	0.05000	0.0553072
	35 Styrene	104	12.956	12.956	(1.178)	3492	0.05000	0.0611190(a)
	36 a-Pinene	93	13.230	13.230	(1.203)	2329	0.05000	0.0583722
	37 1,1,2,2-Tetrachloroethane-SPC	83	13.615	13.615	(1.238)	2418	0.05000	0.0577260
	38 Propylbenzene	91	13.670	13.669	(1.243)	9114	0.05000	0.0558913
	39 1,2,3-Trichloropropane	110	13.697	13.697	(1.246)	954	0.05000	0.0582813(aM)
	40 1,3,5-Trimethylbenzene	105	13.834	13.834	(1.258)	4244	0.05000	0.0552776
	41 1,2,4-Trimethylbenzene	105	14.174	14.174	(1.289)	5544	0.05000	0.0572594
	42 R-(+)-Limonene	68	14.367	14.367	(1.307)	2327	0.05000	0.0574512
	43 1,3-Dichlorobenzene	146	14.488	14.488	(1.318)	3015	0.05000	0.0572285
	44 1,4-Dichlorobenzene	146	14.560	14.560	(1.324)	4029	0.05000	0.0589513
	45 1,2-Dichlorobenzene	146	14.898	14.898	(1.355)	2805	0.05000	0.0578958
	46 1,4-Dithiane	120	15.380	15.380	(1.399)	2205	0.05000	0.0566707
	47 1,2,4-Trichlorobenzene	180	16.465	16.465	(1.498)	3168	0.05000	0.0575200
	48 Naphthalene	128	16.779	16.778	(1.526)	6829	0.05000	0.0561900
	49 1,2,3-Trichlorobenzene	180	17.044	17.044	(1.550)	3113	0.05000	0.0570158

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c041504sim.d
Lab Smp Id: 2595-224-0.05
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

Calibration Date: 15-APR-2015
Calibration Time: 11:23
Client Smp ID: Level 2
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	318479	159240	636958	334503	5.03

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	10.99	10.49	11.49	10.99	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdc.i/15Apr2015.b/c041504sim.d

Date : 15-APR-2015 09:18

Client ID: Level 2

Instrument: msdc.i

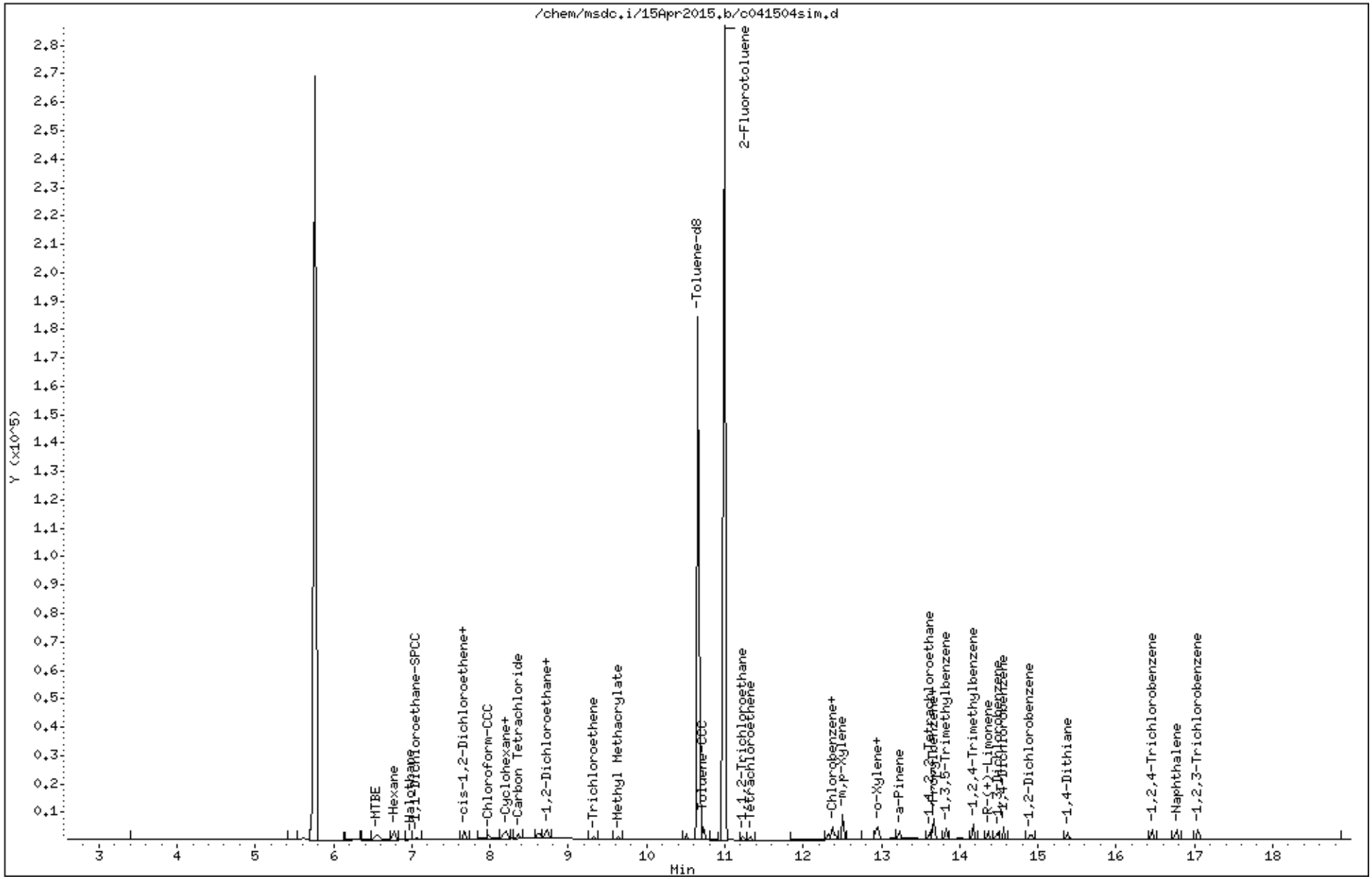
Sample Info: ;2595-224-0.05;Level 2

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msdc.i/15Apr2015.b/c041505sim.d
Lab Smp Id: 2595-224-0.10 Client Smp ID: Level 3
Inj Date : 15-APR-2015 09:43
Operator : gm Inst ID: msdc.i
Smp Info : ;2595-224-0.10;Level 3
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Meth Date : 15-Apr-2015 13:38 gmash Quant Type: ISTD
Cal Date : 15-APR-2015 09:43 Cal File: c041505sim.d
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0.1.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 Chloromethane	50	3.228	3.227	(0.294)	519	0.10000	0.0784988(a)
2 Vinyl Chloride	62	3.444	3.444	(0.313)	1241	0.10000	0.0930687(a)
3 Ethanol	45	5.010	4.985	(0.456)	627	0.10000	0.106564
4 1,1-Dichloroethene-CCC	96	5.454	5.454	(0.496)	902	0.10000	0.110092
5 Acetone	58	5.611	5.588	(0.510)	1005	0.10000	0.111332
7 MTBE	73	6.528	6.528	(0.594)	4227	0.10000	0.114185
8 trans-1,2-Dichloroethene	96	6.583	6.583	(0.599)	1667	0.10000	0.129957
9 Hexane	57	6.748	6.775	(0.614)	3937	0.10000	0.103033
10 Halothane	117	6.961	6.985	(0.633)	888	0.10000	0.105818
11 1,1-Dichloroethane-SPCC	63	7.057	7.057	(0.642)	3210	0.10000	0.114451
12 Ethyl Acetate	70	7.662	7.662	(0.697)	445	0.10000	0.114675
13 2-Butanone	72	7.662	7.662	(0.697)	921	0.10000	0.108044
14 cis-1,2-Dichloroethene	96	7.684	7.684	(0.699)	1640	0.10000	0.118023
15 Chloroform-CCC	83	7.987	7.987	(0.727)	2768	0.10000	0.117101
16 Cyclohexane	84	8.172	8.203	(0.743)	2629	0.10000	0.110159
17 1,1,1-Trichloroethane	97	8.203	8.203	(0.746)	2394	0.10000	0.109171

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
18	Carbon Tetrachloride	117	8.357	8.357	(0.760)	2405	0.10000	0.109135
19	Benzene	78	8.603	8.603	(0.783)	6613	0.10000	0.123204
20	1,2-Dichloroethane	62	8.696	8.696	(0.791)	2747	0.10000	0.111376
21	Heptane	71	8.727	8.727	(0.794)	2178	0.10000	0.108389
22	Trichloroethene	130	9.331	9.331	(0.849)	1935	0.10000	0.109203
23	Methyl Methacrylate	69	9.644	9.644	(0.877)	1893	0.10000	0.107509
24	4-Methyl-2-pentanone	85	10.512	10.512	(0.956)	741	0.10000	0.106894
$ 25	Toluene-d8	98	10.656	10.656	(0.969)	252238	5.00000	4.95826
26	Toluene-CCC	92	10.729	10.728	(0.976)	4797	0.10000	0.109164
* 27	2-Fluorotoluene	109	10.994	10.994	(1.000)	309063	5.00000	
28	1,1,2-Trichloroethane	97	11.235	11.235	(1.022)	1979	0.10000	0.111877
29	Tetrachloroethene	164	11.331	11.331	(1.031)	2209	0.10000	0.109271
30	Chlorobenzene	112	12.325	12.325	(1.121)	5659	0.10000	0.108725
31	Ethylbenzene-CCC	106	12.377	12.377	(1.126)	3068	0.10000	0.108578
32	1,1,1,2-Tetrachloroethane	131	12.429	12.428	(1.131)	1979	0.10000	0.107208(M)
33	m,p-Xylene	106	12.506	12.506	(1.138)	8692	0.20000	0.219830
34	o-Xylene	106	12.956	12.956	(1.178)	3278	0.10000	0.104317
35	Styrene	104	12.956	12.956	(1.178)	5681	0.10000	0.107617
36	a-Pinene	93	13.230	13.230	(1.203)	3902	0.10000	0.105847
37	1,1,2,2-Tetrachloroethane-SPC	83	13.615	13.615	(1.238)	4381	0.10000	0.113199
38	Propylbenzene	91	13.670	13.669	(1.243)	16106	0.10000	0.106900
39	1,2,3-Trichloropropane	110	13.697	13.697	(1.246)	1722	0.10000	0.113859
40	1,3,5-Trimethylbenzene	105	13.834	13.834	(1.258)	7340	0.10000	0.103472
41	1,2,4-Trimethylbenzene	105	14.175	14.174	(1.289)	9605	0.10000	0.107368
42	R-(+)-Limonene	68	14.367	14.367	(1.307)	3975	0.10000	0.106217
43	1,3-Dichlorobenzene	146	14.488	14.488	(1.318)	5002	0.10000	0.102760
44	1,4-Dichlorobenzene	146	14.560	14.560	(1.324)	6828	0.10000	0.108129
45	1,2-Dichlorobenzene	146	14.898	14.898	(1.355)	4787	0.10000	0.106938
46	1,4-Dithiane	120	15.380	15.380	(1.399)	3726	0.10000	0.103644
47	1,2,4-Trichlorobenzene	180	16.465	16.465	(1.498)	5382	0.10000	0.105762
48	Naphthalene	128	16.779	16.778	(1.526)	11814	0.10000	0.105209
49	1,2,3-Trichlorobenzene	180	17.044	17.044	(1.550)	5381	0.10000	0.106667

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Report Date: 15-Apr-2015 13:38

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c041505sim.d
Lab Smp Id: 2595-224-0.10
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

Calibration Date: 15-APR-2015
Calibration Time: 11:23
Client Smp ID: Level 3
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	318479	159240	636958	309063	-2.96

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	10.99	10.49	11.49	10.99	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdc.i/15Apr2015.b/c041505sim.d

Page 1

Date : 15-APR-2015 09:43

Client ID: Level 3

Instrument: msdc.i

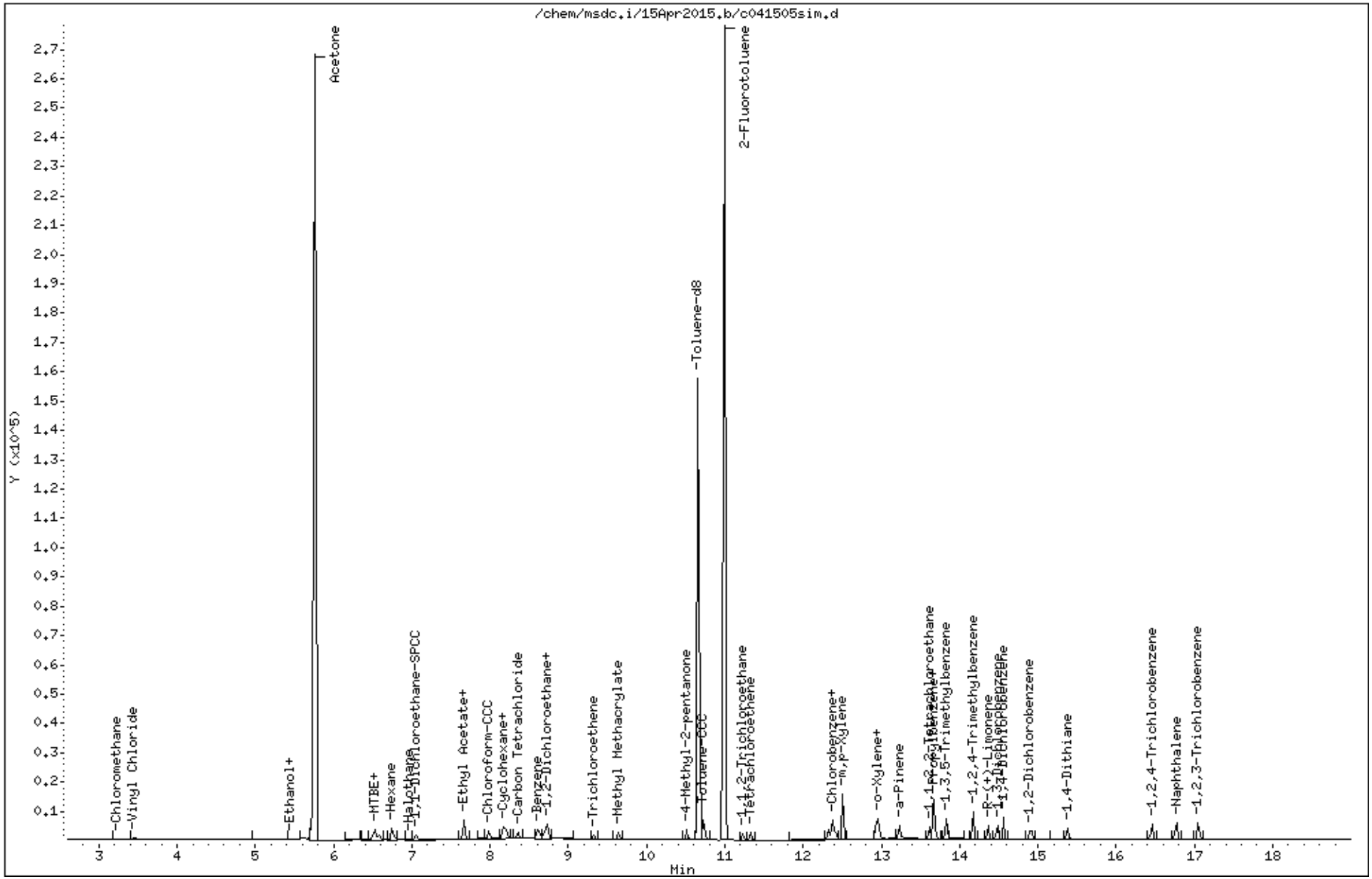
Sample Info: ;2595-224-0.10;Level 3

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msdc.i/15Apr2015.b/c041506sim.d
Lab Smp Id: 2595-224-0.20 Client Smp ID: Level 4
Inj Date : 15-APR-2015 10:07
Operator : gm Inst ID: msdc.i
Smp Info : ;2595-224-0.20;Level 4
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Meth Date : 15-Apr-2015 13:38 gmash Quant Type: ISTD
Cal Date : 15-APR-2015 10:07 Cal File: c041506sim.d
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 0.2.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 Chloromethane	50	3.227	3.227	(0.294)	1038	0.20000	0.176979
2 Vinyl Chloride	62	3.444	3.444	(0.313)	2606	0.20000	0.220310
3 Ethanol	45	5.009	4.985	(0.456)	988	0.20000	0.189290
4 1,1-Dichloroethene-CCC	96	5.476	5.454	(0.498)	1259	0.20000	0.173222
5 Acetone	58	5.611	5.588	(0.510)	1553	0.20000	0.193934
7 MTBE	73	6.528	6.528	(0.594)	6270	0.20000	0.190930
8 trans-1,2-Dichloroethene	96	6.555	6.583	(0.596)	2195	0.20000	0.192898
9 Hexane	57	6.748	6.775	(0.614)	7639	0.20000	0.225360
10 Halothane	117	6.961	6.985	(0.633)	1411	0.20000	0.189540
11 1,1-Dichloroethane-SPCC	63	7.057	7.057	(0.642)	4682	0.20000	0.188180
12 Ethyl Acetate	70	7.662	7.662	(0.697)	627	0.20000	0.182140
13 2-Butanone	72	7.662	7.662	(0.697)	1426	0.20000	0.188578
14 cis-1,2-Dichloroethene	96	7.662	7.684	(0.697)	2249	0.20000	0.182448
15 Chloroform-CCC	83	7.987	7.987	(0.726)	3922	0.20000	0.187039
16 Cyclohexane	84	8.172	8.203	(0.743)	4067	0.20000	0.192102
17 1,1,1-Trichloroethane	97	8.203	8.203	(0.746)	3367	0.20000	0.173084

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
18	Carbon Tetrachloride	117	8.357	8.357	(0.760)	3400	0.20000	0.173923
19	Benzene	78	8.603	8.603	(0.783)	10017	0.20000	0.210374
20	1,2-Dichloroethane	62	8.696	8.696	(0.791)	4202	0.20000	0.192052
21	Heptane	71	8.727	8.727	(0.794)	3262	0.20000	0.182996
22	Trichloroethene	130	9.331	9.331	(0.849)	2906	0.20000	0.184875
23	Methyl Methacrylate	69	9.644	9.644	(0.877)	2820	0.20000	0.180540
24	4-Methyl-2-pentanone	85	10.512	10.512	(0.956)	1085	0.20000	0.176439
$ 25	Toluene-d8	98	10.656	10.656	(0.969)	221629	5.00000	4.91105
26	Toluene-CCC	92	10.728	10.728	(0.976)	7057	0.20000	0.181034
* 27	2-Fluorotoluene	109	10.994	10.994	(1.000)	274169	5.00000	
28	1,1,2-Trichloroethane	97	11.235	11.235	(1.022)	2889	0.20000	0.184108
29	Tetrachloroethene	164	11.331	11.331	(1.031)	3261	0.20000	0.181840
30	Chlorobenzene	112	12.325	12.325	(1.121)	8402	0.20000	0.181970
31	Ethylbenzene-CCC	106	12.377	12.377	(1.126)	4526	0.20000	0.180564
32	1,1,1,2-Tetrachloroethane	131	12.428	12.428	(1.131)	2890	0.20000	0.176485
33	m,p-Xylene	106	12.506	12.506	(1.138)	12837	0.40000	0.365982
34	o-Xylene	106	12.956	12.956	(1.178)	4964	0.20000	0.178076
35	Styrene	104	12.956	12.956	(1.178)	8077	0.20000	0.172478
36	a-Pinene	93	13.230	13.230	(1.203)	5653	0.20000	0.172861
37	1,1,2,2-Tetrachloroethane-SPC	83	13.615	13.615	(1.238)	6358	0.20000	0.185190
38	Propylbenzene	91	13.669	13.669	(1.243)	23974	0.20000	0.179373
39	1,2,3-Trichloropropane	110	13.697	13.697	(1.246)	2416	0.20000	0.180078(M)
40	1,3,5-Trimethylbenzene	105	13.834	13.834	(1.258)	10889	0.20000	0.173039
41	1,2,4-Trimethylbenzene	105	14.174	14.174	(1.289)	14570	0.20000	0.183596
42	R-(+)-Limonene	68	14.367	14.367	(1.307)	5741	0.20000	0.172931
43	1,3-Dichlorobenzene	146	14.488	14.488	(1.318)	7632	0.20000	0.176744
44	1,4-Dichlorobenzene	146	14.560	14.560	(1.324)	10340	0.20000	0.184586
45	1,2-Dichlorobenzene	146	14.898	14.898	(1.355)	7066	0.20000	0.177938
46	1,4-Dithiane	120	15.380	15.380	(1.399)	5479	0.20000	0.171804
47	1,2,4-Trichlorobenzene	180	16.465	16.465	(1.498)	8180	0.20000	0.181204
48	Naphthalene	128	16.778	16.778	(1.526)	18252	0.20000	0.183229
49	1,2,3-Trichlorobenzene	180	17.044	17.044	(1.550)	8153	0.20000	0.182186

QC Flag Legend

M - Compound response manually integrated.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c041506sim.d
Lab Smp Id: 2595-224-0.20
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

Calibration Date: 15-APR-2015
Calibration Time: 11:23
Client Smp ID: Level 4
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	318479	159240	636958	274169	-13.91

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	10.99	10.49	11.49	10.99	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdc.i/15Apr2015.b/c041506sim.d

Date : 15-APR-2015 10:07

Client ID: Level 4

Instrument: msdc.i

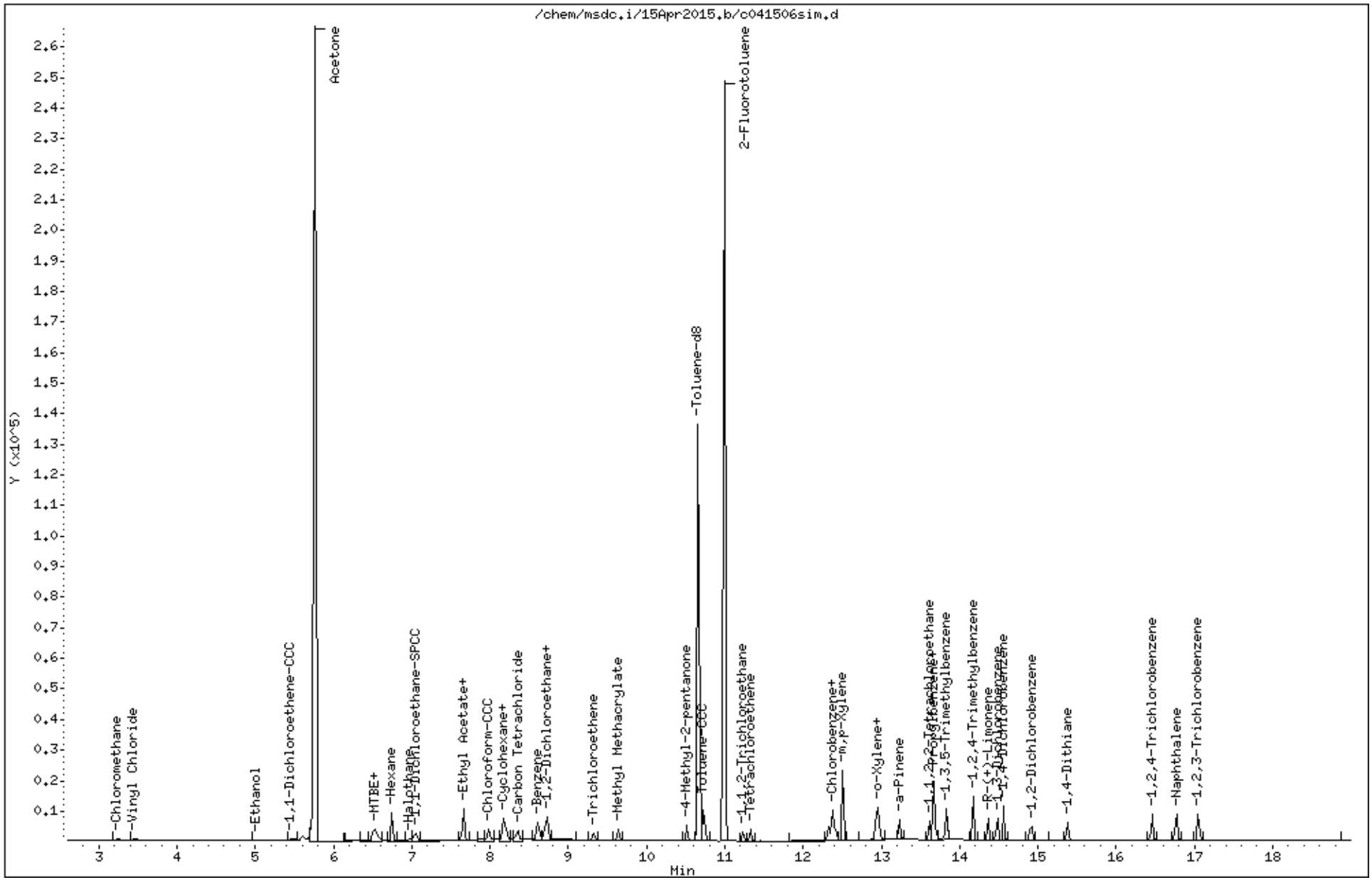
Sample Info: ;2595-224-0.20;Level 4

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msdc.i/15Apr2015.b/c041507sim.d
Lab Smp Id: 2595-224-0.50 Client Smp ID: Level 5
Inj Date : 15-APR-2015 10:31
Operator : gm Inst ID: msdc.i
Smp Info : ;2595-224-0.50;Level 5
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Meth Date : 15-Apr-2015 13:38 gmash Quant Type: ISTD
Cal Date : 15-APR-2015 10:31 Cal File: c041507sim.d
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all-2Pr.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
1	Chloromethane	50	3.227	3.227	(0.294)	3576	0.50000	0.520609
2	Vinyl Chloride	62	3.444	3.444	(0.313)	6765	0.50000	0.488336
3	Ethanol	45	5.010	4.985	(0.456)	3376	0.50000	0.552286
4	1,1-Dichloroethene-CCC	96	5.454	5.454	(0.496)	4496	0.50000	0.528194
5	Acetone	58	5.611	5.588	(0.510)	5236	0.50000	0.558306
7	MTBE	73	6.528	6.528	(0.594)	22644	0.50000	0.588776
8	trans-1,2-Dichloroethene	96	6.583	6.583	(0.599)	8168	0.50000	0.612915
9	Hexane	57	6.775	6.775	(0.616)	21651	0.50000	0.545393
10	Halothane	117	6.985	6.985	(0.635)	5043	0.50000	0.578434
11	1,1-Dichloroethane-SPCC	63	7.057	7.057	(0.642)	17572	0.50000	0.603051
12	Ethyl Acetate	70	7.662	7.662	(0.697)	2446	0.50000	0.606715
13	2-Butanone	72	7.662	7.662	(0.697)	5272	0.50000	0.595302
14	cis-1,2-Dichloroethene	96	7.684	7.684	(0.699)	8544	0.50000	0.591837
15	Chloroform-CCC	83	7.987	7.987	(0.726)	15063	0.50000	0.613375
16	Cyclohexane	84	8.203	8.203	(0.746)	15032	0.50000	0.606270
17	1,1,1-Trichloroethane	97	8.203	8.203	(0.746)	14137	0.50000	0.620527

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	18	Carbon Tetrachloride	117	8.357	8.357	(0.760)	14315	0.50000	0.625258
	19	Benzene	78	8.603	8.603	(0.783)	33858	0.50000	0.607163
	20	1,2-Dichloroethane	62	8.696	8.696	(0.791)	15185	0.50000	0.592608
	21	Heptane	71	8.727	8.727	(0.794)	12022	0.50000	0.575870
	22	Trichloroethene	130	9.331	9.331	(0.849)	11131	0.50000	0.604655
	23	Methyl Methacrylate	69	9.644	9.644	(0.877)	10879	0.50000	0.594706
	24	4-Methyl-2-pentanone	85	10.512	10.512	(0.956)	4435	0.50000	0.615814
$	25	Toluene-d8	98	10.656	10.656	(0.969)	262733	5.00000	4.97110
	26	Toluene-CCC	92	10.729	10.728	(0.976)	27743	0.50000	0.607692
*	27	2-Fluorotoluene	109	10.994	10.994	(1.000)	321091	5.00000	
	28	1,1,2-Trichloroethane	97	11.235	11.235	(1.022)	11298	0.50000	0.614774
	29	Tetrachloroethene	164	11.331	11.331	(1.031)	12801	0.50000	0.609499
	30	Chlorobenzene	112	12.325	12.325	(1.121)	33633	0.50000	0.621976
	31	Ethylbenzene-CCC	106	12.377	12.377	(1.126)	18450	0.50000	0.628497
	32	1,1,1,2-Tetrachloroethane	131	12.428	12.428	(1.131)	11859	0.50000	0.618371
	33	m,p-Xylene	106	12.506	12.506	(1.138)	51931	1.00000	1.26419
	34	o-Xylene	106	12.956	12.956	(1.178)	19334	0.50000	0.592225
	35	Styrene	104	12.956	12.956	(1.178)	33111	0.50000	0.603734
	36	a-Pinene	93	13.230	13.230	(1.203)	22688	0.50000	0.592386
	37	1,1,2,2-Tetrachloroethane-SPC	83	13.615	13.615	(1.238)	25202	0.50000	0.626790
	38	Propylbenzene	91	13.670	13.669	(1.243)	96480	0.50000	0.616374
	39	1,2,3-Trichloropropane	110	13.697	13.697	(1.246)	10155	0.50000	0.646298
	40	1,3,5-Trimethylbenzene	105	13.834	13.834	(1.258)	45269	0.50000	0.614252
	41	1,2,4-Trimethylbenzene	105	14.174	14.174	(1.289)	58680	0.50000	0.631372
	42	R-(+)-Limonene	68	14.367	14.367	(1.307)	23076	0.50000	0.593520
	43	1,3-Dichlorobenzene	146	14.488	14.488	(1.318)	30040	0.50000	0.594015
	44	1,4-Dichlorobenzene	146	14.560	14.560	(1.324)	40920	0.50000	0.623740
	45	1,2-Dichlorobenzene	146	14.898	14.898	(1.355)	28143	0.50000	0.605140
	46	1,4-Dithiane	120	15.380	15.380	(1.399)	22059	0.50000	0.590620
	47	1,2,4-Trichlorobenzene	180	16.465	16.465	(1.498)	31074	0.50000	0.587763
	48	Naphthalene	128	16.778	16.778	(1.526)	68728	0.50000	0.589125
	49	1,2,3-Trichlorobenzene	180	17.044	17.044	(1.550)	31077	0.50000	0.592962

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c041507sim.d
Lab Smp Id: 2595-224-0.50
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

Calibration Date: 15-APR-2015
Calibration Time: 11:23
Client Smp ID: Level 5
Level: MED
Sample Type: AIR

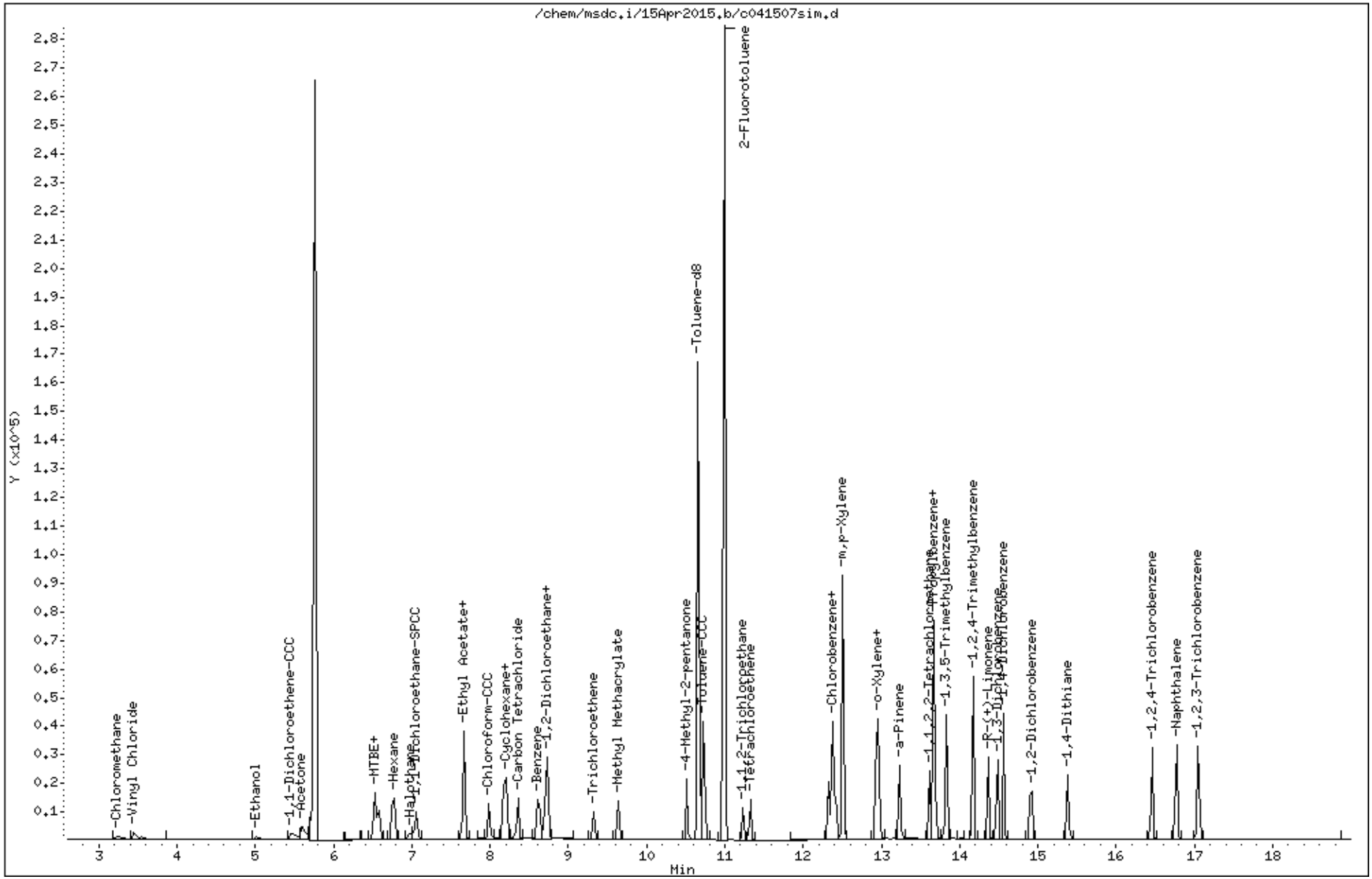
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	318479	159240	636958	321091	0.82

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	10.99	10.49	11.49	10.99	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdc.i/15Apr2015.b/c041507sim.d
Date : 15-APR-2015 10:31
Client ID: Level 5
Sample Info: ;2595-224-0.50;Level 5
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdc.i
Operator: gm
Column diameter: 0.25



Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msdc.i/15Apr2015.b/c041508sim.d
Lab Smp Id: 2595-224-1.0 Client Smp ID: Level 6
Inj Date : 15-APR-2015 10:59
Operator : gm Inst ID: msdc.i
Smp Info : ;2595-224-1.0;Level 6
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Meth Date : 15-Apr-2015 13:38 gmash Quant Type: ISTD
Cal Date : 15-APR-2015 10:59 Cal File: c041508sim.d
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all-2Pr.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
1 Chloromethane	50	3.227	3.227	(0.294)	6022	1.00000	1.05617
2 Vinyl Chloride	62	3.444	3.444	(0.313)	12684	1.00000	1.10302
3 Ethanol	45	5.009	4.985	(0.456)	6063	1.00000	1.19489
4 1,1-Dichloroethene-CCC	96	5.454	5.454	(0.496)	7491	1.00000	1.06019
5 Acetone	58	5.611	5.588	(0.510)	9079	1.00000	1.16624
7 MTBE	73	6.528	6.528	(0.594)	35100	1.00000	1.09946
8 trans-1,2-Dichloroethene	96	6.555	6.583	(0.596)	11615	1.00000	1.04998
9 Hexane	57	6.747	6.775	(0.614)	44588	1.00000	1.35309
10 Halothane	117	6.960	6.985	(0.633)	8351	1.00000	1.15393
11 1,1-Dichloroethane-SPCC	63	7.057	7.057	(0.642)	27305	1.00000	1.12889
12 Ethyl Acetate	70	7.662	7.662	(0.697)	3713	1.00000	1.10951
13 2-Butanone	72	7.662	7.662	(0.697)	8133	1.00000	1.10634
14 cis-1,2-Dichloroethene	96	7.662	7.684	(0.697)	12935	1.00000	1.07940
15 Chloroform-CCC	83	7.987	7.987	(0.726)	21863	1.00000	1.07251
16 Cyclohexane	84	8.172	8.203	(0.743)	23103	1.00000	1.12252
17 1,1,1-Trichloroethane	97	8.203	8.203	(0.746)	18959	1.00000	1.00253

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	18	Carbon Tetrachloride	117	8.357	8.357	(0.760)	18590	1.00000	0.978193
	19	Benzene	78	8.603	8.603	(0.783)	54204	1.00000	1.17099
	20	1,2-Dichloroethane	62	8.696	8.696	(0.791)	23152	1.00000	1.08848
	21	Heptane	71	8.727	8.727	(0.794)	18866	1.00000	1.08869
	22	Trichloroethene	130	9.331	9.331	(0.849)	15791	1.00000	1.03338
	23	Methyl Methacrylate	69	9.644	9.644	(0.877)	15604	1.00000	1.02760
	24	4-Methyl-2-pentanone	85	10.512	10.512	(0.956)	6333	1.00000	1.05936
$	25	Toluene-d8	98	10.656	10.656	(0.969)	215014	5.00000	4.90097
	26	Toluene-CCC	92	10.728	10.728	(0.976)	38860	1.00000	1.02544
*	27	2-Fluorotoluene	109	10.994	10.994	(1.000)	266533	5.00000	
	28	1,1,2-Trichloroethane	97	11.235	11.235	(1.022)	15897	1.00000	1.04209
	29	Tetrachloroethene	164	11.331	11.331	(1.031)	18084	1.00000	1.03729
	30	Chlorobenzene	112	12.325	12.325	(1.121)	47474	1.00000	1.05765
	31	Ethylbenzene-CCC	106	12.377	12.377	(1.126)	25719	1.00000	1.05545
	32	1,1,1,2-Tetrachloroethane	131	12.428	12.428	(1.131)	16834	1.00000	1.05746
	33	m,p-Xylene	106	12.506	12.506	(1.138)	72627	2.00000	2.12991
	34	o-Xylene	106	12.956	12.956	(1.178)	27513	1.00000	1.01527
	35	Styrene	104	12.956	12.956	(1.178)	47091	1.00000	1.03440
	36	a-Pinene	93	13.230	13.230	(1.203)	32298	1.00000	1.01592
	37	1,1,2,2-Tetrachloroethane-SPC	83	13.615	13.615	(1.238)	35917	1.00000	1.07613
	38	Propylbenzene	91	13.669	13.669	(1.243)	137119	1.00000	1.05531
	39	1,2,3-Trichloropropane	110	13.697	13.697	(1.246)	14140	1.00000	1.08412
	40	1,3,5-Trimethylbenzene	105	13.834	13.834	(1.258)	62387	1.00000	1.01980
	41	1,2,4-Trimethylbenzene	105	14.174	14.174	(1.289)	83021	1.00000	1.07612
	42	R-(+)-Limonene	68	14.367	14.367	(1.307)	33064	1.00000	1.02449
	43	1,3-Dichlorobenzene	146	14.488	14.488	(1.318)	43323	1.00000	1.03203
	44	1,4-Dichlorobenzene	146	14.560	14.560	(1.324)	58939	1.00000	1.08230
	45	1,2-Dichlorobenzene	146	14.898	14.898	(1.355)	40248	1.00000	1.04257
	46	1,4-Dithiane	120	15.380	15.380	(1.399)	31831	1.00000	1.02671
	47	1,2,4-Trichlorobenzene	180	16.465	16.465	(1.498)	46152	1.00000	1.05165
	48	Naphthalene	128	16.778	16.778	(1.526)	104522	1.00000	1.07934
	49	1,2,3-Trichlorobenzene	180	17.044	17.044	(1.550)	46169	1.00000	1.06124

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c041508sim.d
Lab Smp Id: 2595-224-1.0
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

Calibration Date: 15-APR-2015
Calibration Time: 11:23
Client Smp ID: Level 6
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	318479	159240	636958	266533	-16.31

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	10.99	10.49	11.49	10.99	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdc.i/15Apr2015.b/c041508sim.d

Date : 15-APR-2015 10:59

Client ID: Level 6

Instrument: msdc.i

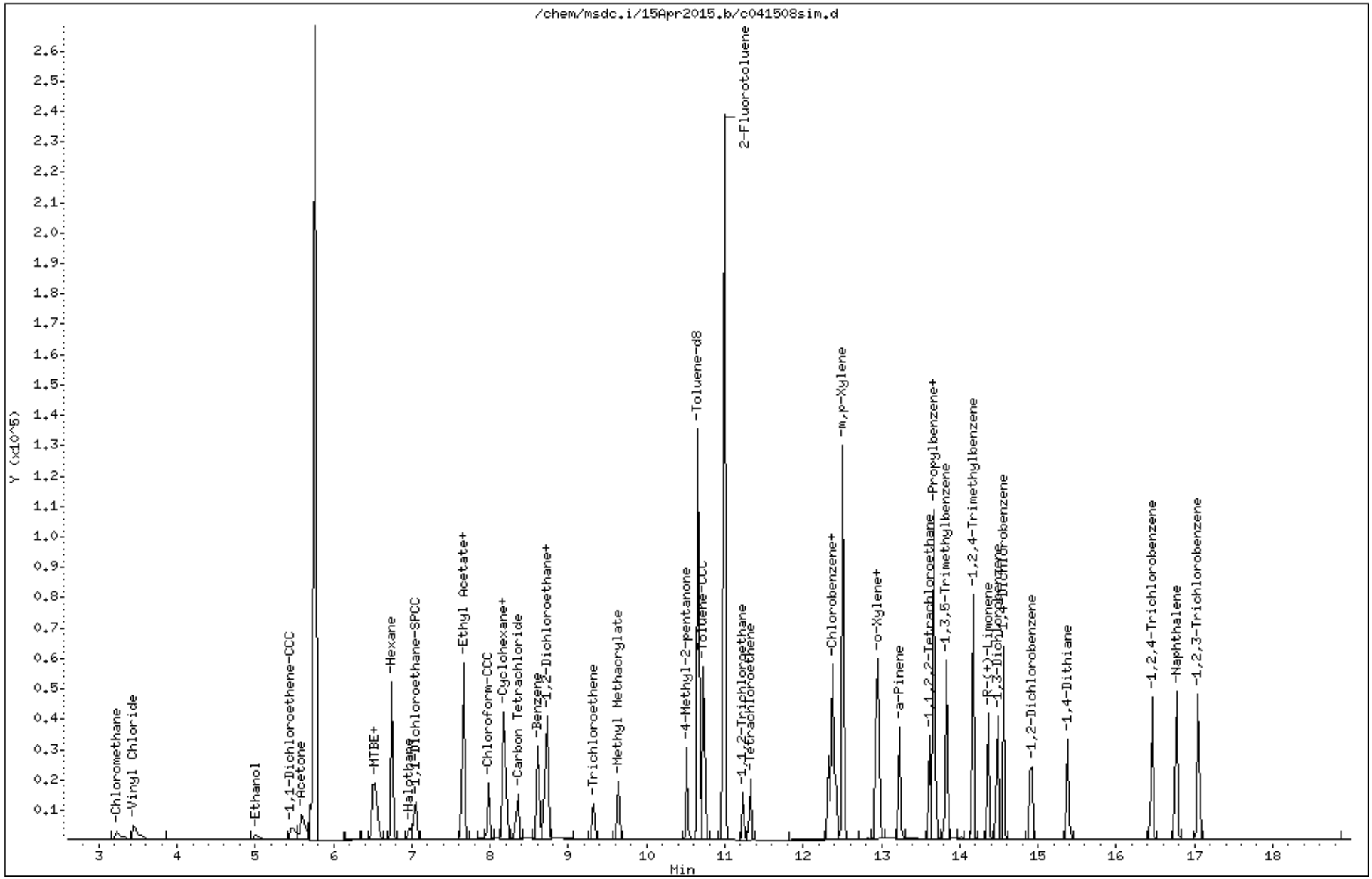
Sample Info: ;2595-224-1.0;Level 6

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msdc.i/15Apr2015.b/c041509sim.d
Lab Smp Id: 2595-224-5.0 Client Smp ID: Level 7
Inj Date : 15-APR-2015 11:23
Operator : gm Inst ID: msdc.i
Smp Info : ;2595-224-5.0;Level 7
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Meth Date : 15-Apr-2015 14:12 gmash Quant Type: ISTD
Cal Date : 15-APR-2015 11:23 Cal File: c041509sim.d
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all-2Pr.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
1	Chloromethane	50	3.227	3.227	(0.294)	40089	5.00000	5.88424
2	Vinyl Chloride	62	3.444	3.444	(0.313)	87555	5.00000	6.37206
3	Ethanol	45	4.985	4.985	(0.453)	34373	5.00000	5.66935
4	1,1-Dichloroethene-CCC	96	5.454	5.454	(0.496)	54955	5.00000	6.50912
5	Acetone	58	5.588	5.588	(0.508)	51143	5.00000	5.49783
7	MTBE	73	6.528	6.528	(0.594)	210622	5.00000	5.52139
8	trans-1,2-Dichloroethene	96	6.583	6.583	(0.599)	74374	5.00000	5.62669
9	Hexane	57	6.775	6.775	(0.616)	194153	5.00000	4.93085
10	Halothane	117	6.985	6.985	(0.635)	47556	5.00000	5.49946
11	1,1-Dichloroethane-SPCC	63	7.057	7.057	(0.642)	162270	5.00000	5.61460
12	Ethyl Acetate	70	7.662	7.662	(0.697)	23105	5.00000	5.77804
13	2-Butanone	72	7.662	7.662	(0.697)	49211	5.00000	5.60236
14	cis-1,2-Dichloroethene	96	7.684	7.684	(0.699)	79542	5.00000	5.55503
15	Chloroform-CCC	83	7.987	7.987	(0.726)	139058	5.00000	5.70896
16	Cyclohexane	84	8.203	8.203	(0.746)	132916	5.00000	5.40474
17	1,1,1-Trichloroethane	97	8.203	8.203	(0.746)	131857	5.00000	5.83517

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
18	Carbon Tetrachloride	117	8.357	8.357	(0.760)	132569	5.00000	5.83792
19	Benzene	78	8.603	8.603	(0.783)	304361	5.00000	5.50276
20	1,2-Dichloroethane	62	8.696	8.696	(0.791)	139116	5.00000	5.47365
21	Heptane	71	8.727	8.727	(0.794)	108147	5.00000	5.22290
22	Trichloroethene	130	9.331	9.331	(0.849)	103043	5.00000	5.64337
23	Methyl Methacrylate	69	9.644	9.644	(0.877)	101479	5.00000	5.59293
24	4-Methyl-2-pentanone	85	10.512	10.512	(0.956)	41167	5.00000	5.76314
$ 25	Toluene-d8	98	10.656	10.656	(0.969)	261326	5.00000	4.98503
26	Toluene-CCC	92	10.728	10.728	(0.976)	249020	5.00000	5.49935
* 27	2-Fluorotoluene	109	10.994	10.994	(1.000)	318479	5.00000	
28	1,1,2-Trichloroethane	97	11.235	11.235	(1.022)	101269	5.00000	5.55569
29	Tetrachloroethene	164	11.331	11.331	(1.031)	115830	5.00000	5.56030
30	Chlorobenzene	112	12.325	12.325	(1.121)	301741	5.00000	5.62587
31	Ethylbenzene-CCC	106	12.377	12.377	(1.126)	166862	5.00000	5.73076
32	1,1,1,2-Tetrachloroethane	131	12.428	12.428	(1.131)	106723	5.00000	5.61056
33	m,p-Xylene	106	12.506	12.506	(1.138)	480831	10.0000	11.8012
34	o-Xylene	106	12.956	12.956	(1.178)	180208	5.00000	5.56527
35	Styrene	104	12.956	12.956	(1.178)	308828	5.00000	5.67724
36	a-Pinene	93	13.230	13.230	(1.203)	215924	5.00000	5.68404
37	1,1,2,2-Tetrachloroethane-SPC	83	13.615	13.615	(1.238)	229561	5.00000	5.75616
38	Propylbenzene	91	13.669	13.669	(1.243)	884144	5.00000	5.69477
39	1,2,3-Trichloropropane	110	13.697	13.697	(1.246)	89887	5.00000	5.76762
40	1,3,5-Trimethylbenzene	105	13.834	13.834	(1.258)	395450	5.00000	5.40983
41	1,2,4-Trimethylbenzene	105	14.174	14.174	(1.289)	529890	5.00000	5.74814
42	R-(+)-Limonene	68	14.367	14.367	(1.307)	225131	5.00000	5.83791
43	1,3-Dichlorobenzene	146	14.488	14.488	(1.318)	276081	5.00000	5.50404
44	1,4-Dichlorobenzene	146	14.560	14.560	(1.324)	380992	5.00000	5.85504
45	1,2-Dichlorobenzene	146	14.898	14.898	(1.355)	258441	5.00000	5.60266
46	1,4-Dithiane	120	15.380	15.380	(1.399)	205369	5.00000	5.54376
47	1,2,4-Trichlorobenzene	180	16.465	16.465	(1.498)	287242	5.00000	5.47772
48	Naphthalene	128	16.778	16.778	(1.526)	656027	5.00000	5.66947
49	1,2,3-Trichlorobenzene	180	17.044	17.044	(1.550)	293672	5.00000	5.64934

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c041509sim.d
Lab Smp Id: 2595-224-5.0
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

Calibration Date: 15-APR-2015
Calibration Time: 11:23
Client Smp ID: Level 7
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	318479	159240	636958	318479	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	10.99	10.49	11.49	10.99	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdc.i/15Apr2015.b/c041509sim.d

Date : 15-APR-2015 11:23

Client ID: Level 7

Instrument: msdc.i

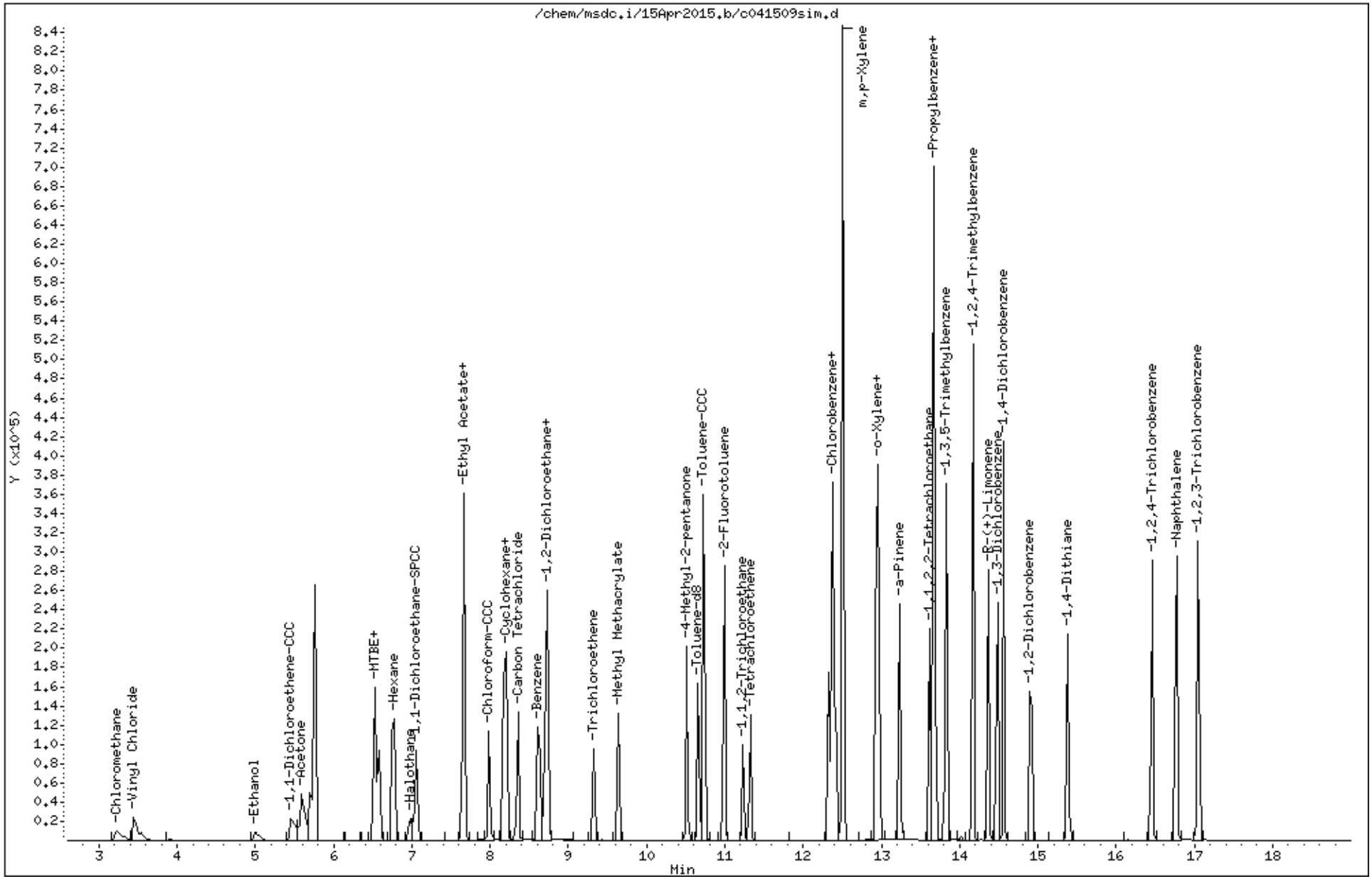
Sample Info: ;2595-224-5.0;Level 7

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msdc.i/15Apr2015.b/c041510sim.d
Lab Smp Id: 2595-224-20 Client Smp ID: Level 8
Inj Date : 15-APR-2015 11:47
Operator : gm Inst ID: msdc.i
Smp Info : ;2595-224-20;Level 8
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Meth Date : 15-Apr-2015 13:38 gmash Quant Type: ISTD
Cal Date : 15-APR-2015 11:47 Cal File: c041510sim.d
Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all-2Pr.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
1 Chloromethane	50	3.227	3.227	(0.294)	139655	20.0000	21.1179
2 Vinyl Chloride	62	3.444	3.444	(0.313)	287192	20.0000	21.5329
3 Ethanol	45	4.985	4.985	(0.453)	116074	20.0000	19.7232
4 1,1-Dichloroethene-CCC	96	5.476	5.454	(0.498)	175366	20.0000	21.3990
5 Acetone	58	5.588	5.588	(0.508)	174693	20.0000	19.3476
7 MTBE	73	6.528	6.528	(0.594)	669756	20.0000	18.0881
8 trans-1,2-Dichloroethene	96	6.583	6.583	(0.599)	233957	20.0000	18.2348
9 Hexane	57	6.775	6.775	(0.616)	592483	20.0000	15.5020
10 Halothane	117	6.985	6.985	(0.635)	152042	20.0000	18.1137
11 1,1-Dichloroethane-SPCC	63	7.057	7.057	(0.642)	509141	20.0000	18.1489
12 Ethyl Acetate	70	7.662	7.662	(0.697)	72616	20.0000	18.7086
13 2-Butanone	72	7.662	7.662	(0.697)	156211	20.0000	18.3212
14 cis-1,2-Dichloroethene	96	7.684	7.684	(0.699)	248482	20.0000	17.8779
15 Chloroform-CCC	83	7.987	7.987	(0.726)	430139	20.0000	18.1930
16 Cyclohexane	84	8.203	8.203	(0.746)	403998	20.0000	16.9242
17 1,1,1-Trichloroethane	97	8.203	8.203	(0.746)	401235	20.0000	18.2929

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
18	Carbon Tetrachloride	117	8.357	8.357	(0.760)	401783	20.0000	18.2280
19	Benzene	78	8.603	8.603	(0.783)	932698	20.0000	17.3726
20	1,2-Dichloroethane	62	8.696	8.696	(0.791)	438327	20.0000	17.7677
21	Heptane	71	8.727	8.727	(0.794)	333727	20.0000	16.6042
22	Trichloroethene	130	9.331	9.331	(0.849)	311651	20.0000	17.5842
23	Methyl Methacrylate	69	9.644	9.644	(0.877)	311792	20.0000	17.7035
24	4-Methyl-2-pentanone	85	10.512	10.512	(0.956)	127472	20.0000	18.3844
$ 25	Toluene-d8	98	10.656	10.656	(0.969)	258192	5.00000	5.07412(A)
26	Toluene-CCC	92	10.728	10.728	(0.976)	751557	20.0000	17.0991
* 27	2-Fluorotoluene	109	10.993	10.994	(1.000)	309135	5.00000	
28	1,1,2-Trichloroethane	97	11.235	11.235	(1.022)	301736	20.0000	17.0538
29	Tetrachloroethene	164	11.331	11.331	(1.031)	343864	20.0000	17.0058
30	Chlorobenzene	112	12.325	12.325	(1.121)	901268	20.0000	17.3118
31	Ethylbenzene-CCC	106	12.377	12.377	(1.126)	500216	20.0000	17.6988
32	1,1,1,2-Tetrachloroethane	131	12.428	12.428	(1.131)	319754	20.0000	17.3180
33	m,p-Xylene	106	12.506	12.506	(1.138)	1394321	40.0000	35.2557
34	o-Xylene	106	12.956	12.956	(1.178)	541241	20.0000	17.2201
35	Styrene	104	12.956	12.956	(1.178)	912646	20.0000	17.2845
36	a-Pinene	93	13.230	13.230	(1.203)	657423	20.0000	17.8293
37	1,1,2,2-Tetrachloroethane-SPC	83	13.615	13.615	(1.238)	686278	20.0000	17.7283
38	Propylbenzene	91	13.669	13.669	(1.243)	2591551	20.0000	17.1968
39	1,2,3-Trichloropropane	110	13.697	13.697	(1.246)	268705	20.0000	17.7627
40	1,3,5-Trimethylbenzene	105	13.834	13.834	(1.258)	1203089	20.0000	16.9560
41	1,2,4-Trimethylbenzene	105	14.174	14.174	(1.289)	1615362	20.0000	18.0528
42	R-(+)-Limonene	68	14.367	14.367	(1.307)	677306	20.0000	18.0942
43	1,3-Dichlorobenzene	146	14.488	14.488	(1.318)	840226	20.0000	17.2573
44	1,4-Dichlorobenzene	146	14.560	14.560	(1.324)	1133054	20.0000	17.9390
45	1,2-Dichlorobenzene	146	14.897	14.898	(1.355)	769932	20.0000	17.1956
46	1,4-Dithiane	120	15.380	15.380	(1.399)	632085	20.0000	17.5783
47	1,2,4-Trichlorobenzene	180	16.465	16.465	(1.498)	875186	20.0000	17.1943
48	Naphthalene	128	16.778	16.778	(1.526)	2038409	20.0000	18.1487
49	1,2,3-Trichlorobenzene	180	17.044	17.044	(1.550)	884348	20.0000	17.5263

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Report Date: 15-Apr-2015 13:38

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c041510sim.d
Lab Smp Id: 2595-224-20
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

Calibration Date: 15-APR-2015
Calibration Time: 11:23
Client Smp ID: Level 8
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	318479	159240	636958	309135	-2.93

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	10.99	10.49	11.49	10.99	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdc.i/15Apr2015.b/c041510sim.d

Date : 15-APR-2015 11:47

Client ID: Level 8

Instrument: msdc.i

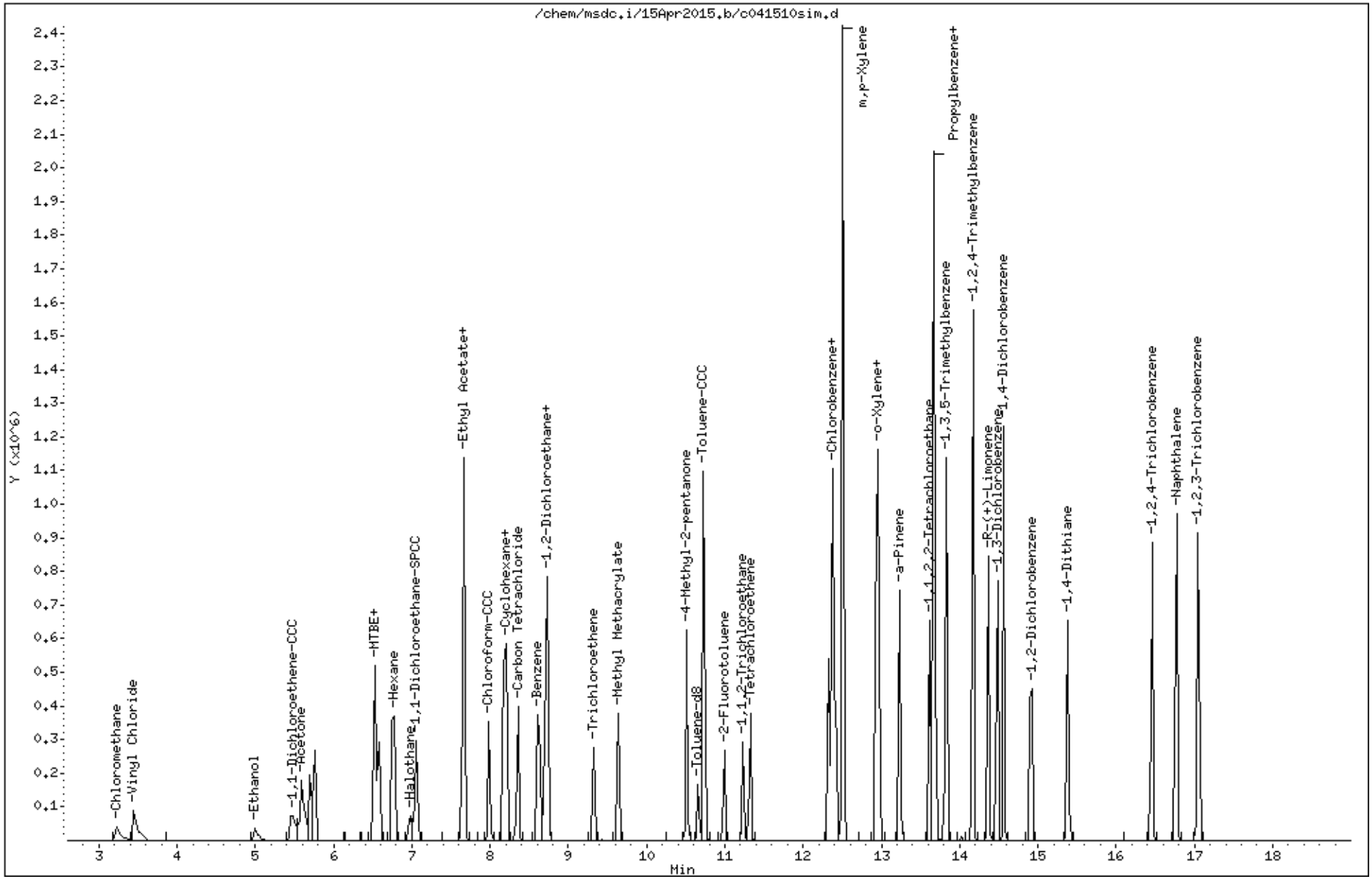
Sample Info: ;2595-224-20;Level 8

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msdc.i/15Apr2015.b/c041511sim.d
Lab Smp Id: 2595-224-50 Client Smp ID: Level 9
Inj Date : 15-APR-2015 12:11
Operator : gm Inst ID: msdc.i
Smp Info : ;2595-224-50;Level 9
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Meth Date : 15-Apr-2015 13:38 gmash Quant Type: ISTD
Cal Date : 15-APR-2015 12:11 Cal File: c041511sim.d
Als bottle: 11 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all-cm.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
2 Vinyl Chloride	62	3.444	3.444	(0.313)	563268	50.0000	48.0415
3 Ethanol	45	4.985	4.985	(0.453)	268034	50.0000	51.8087
4 1,1-Dichloroethene-CCC	96	5.476	5.454	(0.498)	314320	50.0000	43.6305
5 Acetone	58	5.588	5.588	(0.508)	393271	50.0000	49.5468
7 MTBE	73	6.500	6.528	(0.591)	1454883	50.0000	44.6967
8 trans-1,2-Dichloroethene	96	6.555	6.583	(0.596)	515400	50.0000	45.6961
9 Hexane	57	6.747	6.775	(0.614)	1423987	50.0000	42.3826
10 Halothane	117	6.960	6.985	(0.633)	336632	50.0000	45.6216
11 1,1-Dichloroethane-SPCC	63	7.033	7.057	(0.640)	1073904	50.0000	43.5460
12 Ethyl Acetate	70	7.639	7.662	(0.695)	153647	50.0000	45.0301
13 2-Butanone	72	7.662	7.662	(0.697)	338432	50.0000	45.1527
14 cis-1,2-Dichloroethene	96	7.662	7.684	(0.697)	533769	50.0000	43.6863
15 Chloroform-CCC	83	7.987	7.987	(0.726)	838270	50.0000	40.3320
16 Cyclohexane	84	8.172	8.203	(0.743)	986757	50.0000	47.0229
17 1,1,1-Trichloroethane	97	8.172	8.203	(0.743)	789404	50.0000	40.9405
18 Carbon Tetrachloride	117	8.357	8.357	(0.760)	776006	50.0000	40.0482

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	19	Benzene	78	8.603	8.603	(0.783)	2374496	50.0000	50.3114
	20	1,2-Dichloroethane	62	8.696	8.696	(0.791)	970963	50.0000	44.7720
	21	Heptane	71	8.727	8.727	(0.794)	817816	50.0000	46.2864
	22	Trichloroethene	130	9.331	9.331	(0.849)	681275	50.0000	43.7266
	23	Methyl Methacrylate	69	9.644	9.644	(0.877)	700073	50.0000	45.2176
	24	4-Methyl-2-pentanone	85	10.512	10.512	(0.956)	280961	50.0000	46.0949
$	25	Toluene-d8	98	10.656	10.656	(0.969)	222217	5.00000	4.96782
	26	Toluene-CCC	92	10.728	10.728	(0.976)	1637989	50.0000	42.3928
*	27	2-Fluorotoluene	109	10.993	10.994	(1.000)	271755	5.00000	
	28	1,1,2-Trichloroethane	97	11.234	11.235	(1.022)	683954	50.0000	43.9736
	29	Tetrachloroethene	164	11.331	11.331	(1.031)	775722	50.0000	43.6401
	30	Chlorobenzene	112	12.325	12.325	(1.121)	1965762	50.0000	42.9526
	31	Ethylbenzene-CCC	106	12.377	12.377	(1.126)	1066991	50.0000	42.9456
	32	1,1,1,2-Tetrachloroethane	131	12.428	12.428	(1.131)	709881	50.0000	43.7358
	33	m,p-Xylene	106	12.506	12.506	(1.138)	2981703	100.000	85.7634
	34	o-Xylene	106	12.956	12.956	(1.178)	1278635	50.0000	46.2766
	35	Styrene	104	12.956	12.956	(1.178)	1957916	50.0000	42.1811
	36	a-Pinene	93	13.230	13.230	(1.203)	1434338	50.0000	44.2497
	37	1,1,2,2-Tetrachloroethane-SPC	83	13.614	13.615	(1.238)	1555264	50.0000	45.7027
	38	Propylbenzene	91	13.669	13.669	(1.243)	5943048	50.0000	44.8608
	39	1,2,3-Trichloropropane	110	13.697	13.697	(1.246)	612956	50.0000	46.0928
	40	1,3,5-Trimethylbenzene	105	13.834	13.834	(1.258)	3059204	50.0000	49.0461
	41	1,2,4-Trimethylbenzene	105	14.174	14.174	(1.289)	3877360	50.0000	49.2926
	42	R-(+)-Limonene	68	14.367	14.367	(1.307)	1594348	50.0000	48.4516
	43	1,3-Dichlorobenzene	146	14.488	14.488	(1.318)	1996474	50.0000	46.6457
	44	1,4-Dichlorobenzene	146	14.560	14.560	(1.324)	2600470	50.0000	46.8350
	45	1,2-Dichlorobenzene	146	14.922	14.898	(1.357)	1876458	50.0000	47.6733
	46	1,4-Dithiane	120	15.380	15.380	(1.399)	1507674	50.0000	47.6958
	47	1,2,4-Trichlorobenzene	180	16.465	16.465	(1.498)	2168231	50.0000	48.4576
	48	Naphthalene	128	16.778	16.778	(1.526)	5091883	50.0000	51.5707
	49	1,2,3-Trichlorobenzene	180	17.044	17.044	(1.550)	2173095	50.0000	48.9911

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c041511sim.d
Lab Smp Id: 2595-224-50
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

Calibration Date: 15-APR-2015
Calibration Time: 11:23
Client Smp ID: Level 9
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	318479	159240	636958	271755	-14.67

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	10.99	10.49	11.49	10.99	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdc.i/15Apr2015.b/c041511sim.d

Date : 15-APR-2015 12:11

Client ID: Level 9

Instrument: msdc.i

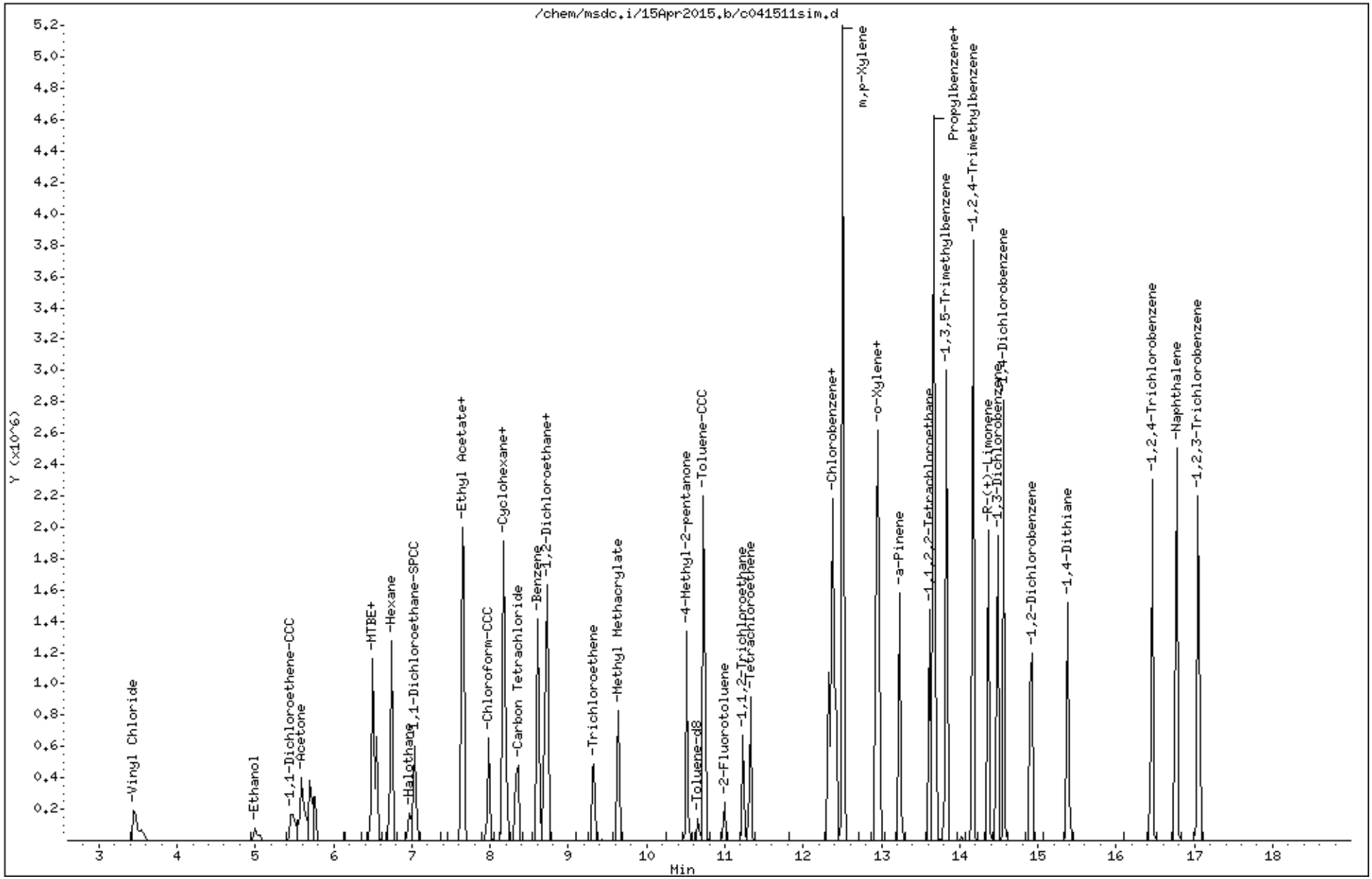
Sample Info: ;2595-224-50;Level 9

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msdc.i/15Apr2015.b/c041512sim.d
Lab Smp Id: 2595-218-500>100 Client Smp ID: Level 10
Inj Date : 15-APR-2015 12:37
Operator : gm Inst ID: msdc.i
Smp Info : ;2595-218-500>100;Level 10
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Meth Date : 15-Apr-2015 13:38 gmash Quant Type: ISTD
Cal Date : 15-APR-2015 12:37 Cal File: c041512sim.d
Als bottle: 12 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 100.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
2 Vinyl Chloride	62	3.444	3.444	(0.313)	1125007	100.000	73.5584
3 Ethanol	45	4.986	4.985	(0.453)	539385	100.000	79.9259
4 1,1-Dichloroethene-CCC	96	5.454	5.454	(0.496)	726812	100.000	77.3421
5 Acetone	58	5.588	5.588	(0.508)	857214	100.000	82.7920
7 MTBE	73	6.528	6.528	(0.594)	3474145	100.000	81.8222
8 trans-1,2-Dichloroethene	96	6.583	6.583	(0.599)	1204085	100.000	81.8404
9 Hexane	57	6.775	6.775	(0.616)	3097644	100.000	70.6788
10 Halothane	117	6.985	6.985	(0.635)	793309	100.000	82.4202
11 1,1-Dichloroethane-SPCC	63	7.057	7.057	(0.642)	2621435	100.000	81.4889
12 Ethyl Acetate	70	7.662	7.662	(0.697)	379616	100.000	85.2903
13 2-Butanone	72	7.662	7.662	(0.697)	813242	100.000	83.1780
14 cis-1,2-Dichloroethene	96	7.684	7.684	(0.699)	1294489	100.000	81.2206
15 Chloroform-CCC	83	7.987	7.987	(0.726)	2268369	100.000	83.6672
16 Cyclohexane	84	8.203	8.203	(0.746)	2155932	100.000	78.7609
17 1,1,1-Trichloroethane	97	8.203	8.203	(0.746)	2114955	100.000	84.0875
18 Carbon Tetrachloride	117	8.357	8.357	(0.760)	2167147	100.000	85.7399

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	19	Benzene	78	8.603	8.603	(0.783)	5063954	100.000	82.2547
	20	1,2-Dichloroethane	62	8.696	8.696	(0.791)	2305927	100.000	81.5127
	21	Heptane	71	8.727	8.727	(0.794)	1677629	100.000	72.7897
	22	Trichloroethene	130	9.331	9.331	(0.849)	1753216	100.000	86.2651
	23	Methyl Methacrylate	69	9.644	9.644	(0.877)	1771080	100.000	87.6957
	24	4-Methyl-2-pentanone	85	10.512	10.512	(0.956)	727347	100.000	91.4796
$	25	Toluene-d8	98	10.656	10.656	(0.969)	294024	5.00000	5.03904(A)
	26	Toluene-CCC	92	10.729	10.728	(0.976)	4122612	100.000	81.7955
*	27	2-Fluorotoluene	109	10.994	10.994	(1.000)	354488	5.00000	
	28	1,1,2-Trichloroethane	97	11.235	11.235	(1.022)	1722900	100.000	84.9182
	29	Tetrachloroethene	164	11.331	11.331	(1.031)	1963266	100.000	84.6711
	30	Chlorobenzene	112	12.325	12.325	(1.121)	5022005	100.000	84.1225
	31	Ethylbenzene-CCC	106	12.377	12.377	(1.126)	2630223	100.000	81.1570
	32	1,1,1,2-Tetrachloroethane	131	12.429	12.428	(1.131)	1827495	100.000	86.3145
	33	m,p-Xylene	106	12.506	12.506	(1.138)	6806702	200.000	150.089
	34	o-Xylene	106	12.956	12.956	(1.178)	3321515	100.000	92.1568
	35	Styrene	104	12.956	12.956	(1.178)	4564707	100.000	75.3899
	36	a-Pinene	93	13.230	13.230	(1.203)	3364971	100.000	79.5823
	37	1,1,2,2-Tetrachloroethane-SPC	83	13.615	13.615	(1.238)	3630281	100.000	81.7813
	38	Propylbenzene	91	13.670	13.669	(1.243)	12653761	100.000	73.2240
	39	1,2,3-Trichloropropane	110	13.697	13.697	(1.246)	1393097	100.000	80.3084
	40	1,3,5-Trimethylbenzene	105	13.834	13.834	(1.258)	7919692	100.000	97.3376
	41	1,2,4-Trimethylbenzene	105	14.175	14.174	(1.289)	9123381	100.000	88.9155
	42	R-(+)-Limonene	68	14.367	14.367	(1.307)	3207044	100.000	74.7147
	43	1,3-Dichlorobenzene	146	14.488	14.488	(1.318)	5089272	100.000	91.1548
	44	1,4-Dichlorobenzene	146	14.560	14.560	(1.324)	5745867	100.000	79.3323
	45	1,2-Dichlorobenzene	146	14.922	14.898	(1.357)	4354121	100.000	84.8033
	46	1,4-Dithiane	120	15.380	15.380	(1.399)	3387691	100.000	82.1585
	47	1,2,4-Trichlorobenzene	180	16.465	16.465	(1.498)	5137802	100.000	88.0257
	48	Naphthalene	128	16.779	16.778	(1.526)	11817429	100.000	91.7537(A)
	49	1,2,3-Trichlorobenzene	180	17.044	17.044	(1.550)	4940584	100.000	85.3872

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c041512sim.d
Lab Smp Id: 2595-218-500>100
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

Calibration Date: 15-APR-2015
Calibration Time: 11:23
Client Smp ID: Level 10
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	318479	159240	636958	354488	11.31

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	10.99	10.49	11.49	10.99	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdc.i/15Apr2015.b/c041512sim.d

Date : 15-APR-2015 12:37

Client ID: Level 10

Sample Info: ;2595-218-500>100;Level 10

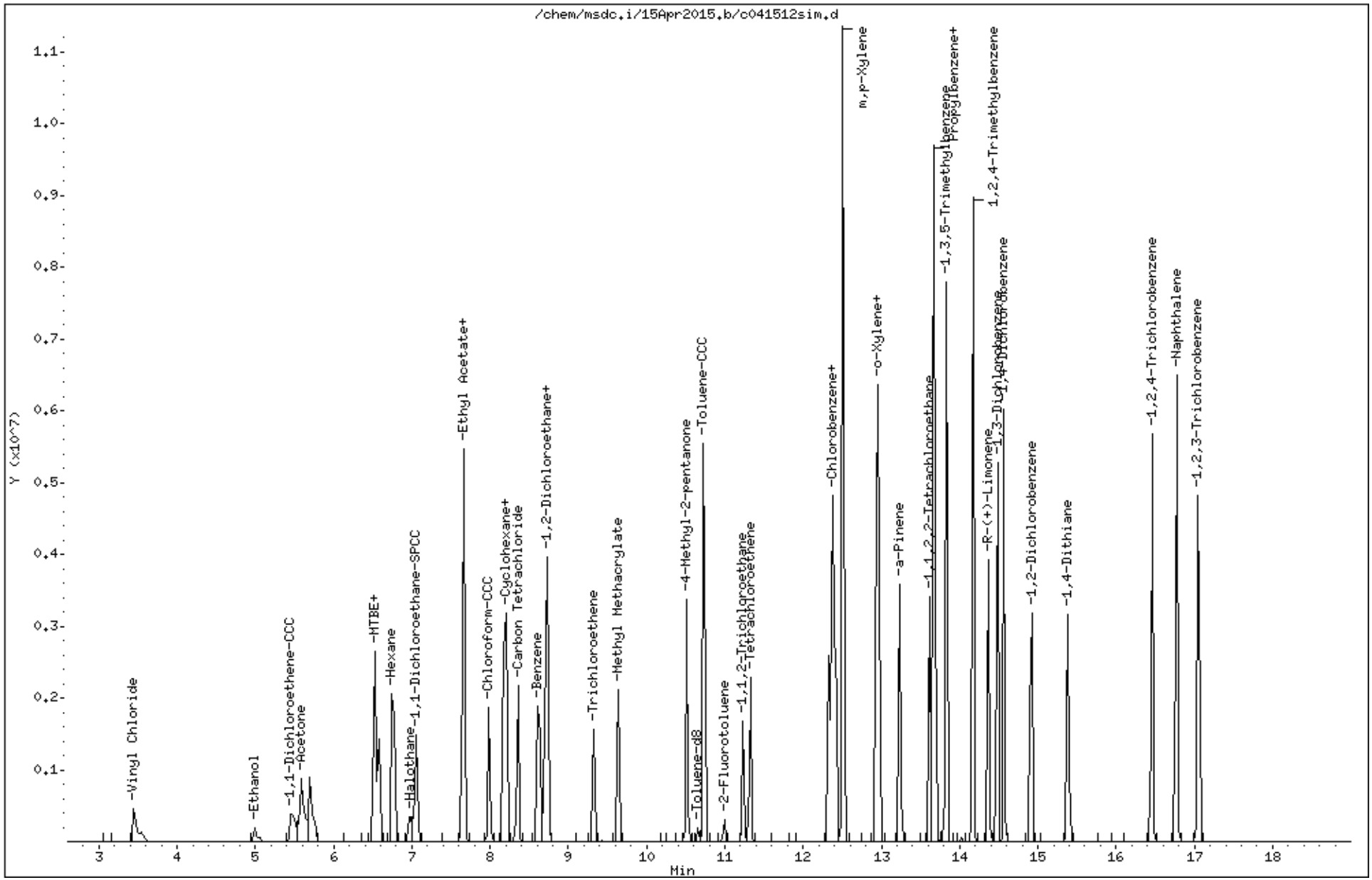
Volume Injected (uL): 1.0

Column phase: DB-5.625

Instrument: msdc.i

Operator: gm

Column diameter: 0.25



Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msdc.i/15Apr2015.b/c041513sim.d
Lab Smp Id: 2595-218-500>200 Client Smp ID: Level 11
Inj Date : 15-APR-2015 13:01
Operator : gm Inst ID: msdc.i
Smp Info : ;2595-218-500>200;Level 11
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Meth Date : 15-Apr-2015 13:38 gmash Quant Type: ISTD
Cal Date : 15-APR-2015 13:01 Cal File: c041513sim.d
Als bottle: 13 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 200.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
2 Vinyl Chloride	62	3.444	3.444	(0.313)	2668801	200.000	168.119
3 Ethanol	45	4.985	4.985	(0.453)	1026887	200.000	146.601(A)
4 1,1-Dichloroethene-CCC	96	5.454	5.454	(0.496)	1752962	200.000	179.718
5 Acetone	58	5.588	5.588	(0.508)	1609034	200.000	149.723
7 MTBE	73	6.528	6.528	(0.594)	6179874	200.000	140.226
8 trans-1,2-Dichloroethene	96	6.583	6.583	(0.599)	2109591	200.000	138.144
9 Hexane	57	6.775	6.775	(0.616)	6607759	200.000	145.257
10 Halothane	117	6.985	6.985	(0.635)	1458599	200.000	146.000
11 1,1-Dichloroethane-SPCC	63	7.057	7.057	(0.642)	4797031	200.000	143.667
12 Ethyl Acetate	70	7.662	7.662	(0.697)	716122	200.000	155.012
13 2-Butanone	72	7.662	7.662	(0.697)	1497323	200.000	147.546
14 cis-1,2-Dichloroethene	96	7.684	7.684	(0.699)	2411391	200.000	145.767
15 Chloroform-CCC	83	7.987	7.987	(0.726)	4193602	200.000	149.023
16 Cyclohexane	84	8.203	8.203	(0.746)	4190111	200.000	147.477
17 1,1,1-Trichloroethane	97	8.203	8.203	(0.746)	4131956	200.000	158.274
18 Carbon Tetrachloride	117	8.357	8.357	(0.760)	4272762	200.000	162.865

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
19	Benzene	78	8.634	8.603	(0.785)	9774985	200.000	152.972
20	1,2-Dichloroethane	62	8.696	8.696	(0.791)	4097026	200.000	139.532
21	Heptane	71	8.726	8.727	(0.794)	2853955	200.000	119.301
22	Trichloroethene	130	9.331	9.331	(0.849)	3457329	200.000	163.895
23	Methyl Methacrylate	69	9.644	9.644	(0.877)	3501828	200.000	167.055
24	4-Methyl-2-pentanone	85	10.512	10.512	(0.956)	1401867	200.000	169.869
$ 25	Toluene-d8	98	10.656	10.656	(0.969)	298487	5.00000	4.92850
26	Toluene-CCC	92	10.728	10.728	(0.976)	7915374	200.000	151.305
* 27	2-Fluorotoluene	109	10.993	10.994	(1.000)	367940	5.00000	
28	1,1,2-Trichloroethane	97	11.234	11.235	(1.022)	3358068	200.000	159.461
29	Tetrachloroethene	164	11.331	11.331	(1.031)	4001857	200.000	166.281
30	Chlorobenzene	112	12.325	12.325	(1.121)	9869722	200.000	159.281(A)
31	Ethylbenzene-CCC	106	12.403	12.377	(1.128)	5254225	200.000	156.195
32	1,1,1,2-Tetrachloroethane	131	12.428	12.428	(1.131)	3771854	200.000	171.636
33	m,p-Xylene	106	12.506	12.506	(1.138)	11987331	400.000	254.660
34	o-Xylene	106	12.956	12.956	(1.178)	7028747	200.000	187.886(A)
35	Styrene	104	12.983	12.956	(1.181)	9129731	200.000	145.272(A)
36	a-Pinene	93	13.230	13.230	(1.203)	6196284	200.000	141.186(A)
37	1,1,2,2-Tetrachloroethane-SPC	83	13.614	13.615	(1.238)	6342775	200.000	137.663
39	1,2,3-Trichloropropane	110	13.697	13.697	(1.246)	2348153	200.000	130.416
40	1,3,5-Trimethylbenzene	105	13.834	13.834	(1.258)	14561965	200.000	172.432(A)
41	1,2,4-Trimethylbenzene	105	14.174	14.174	(1.289)	12716414	200.000	119.402(A)
42	R-(+)-Limonene	68	14.367	14.367	(1.307)	5405370	200.000	121.325
43	1,3-Dichlorobenzene	146	14.488	14.488	(1.318)	10615424	200.000	183.183
44	1,4-Dichlorobenzene	146	14.560	14.560	(1.324)	10359143	200.000	137.798
45	1,2-Dichlorobenzene	146	14.922	14.898	(1.357)	9042064	200.000	169.670
46	1,4-Dithiane	120	15.380	15.380	(1.399)	6591889	200.000	154.022
47	1,2,4-Trichlorobenzene	180	16.465	16.465	(1.498)	10348661	200.000	170.821
48	Naphthalene	128	16.778	16.778	(1.526)	17648629	200.000	132.019(A)
49	1,2,3-Trichlorobenzene	180	17.044	17.044	(1.550)	9549450	200.000	159.007

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Report Date: 15-Apr-2015 13:38

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c041513sim.d
Lab Smp Id: 2595-218-500>200
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msdc.i/15Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

Calibration Date: 15-APR-2015
Calibration Time: 11:23
Client Smp ID: Level 11
Level: MED
Sample Type: AIR

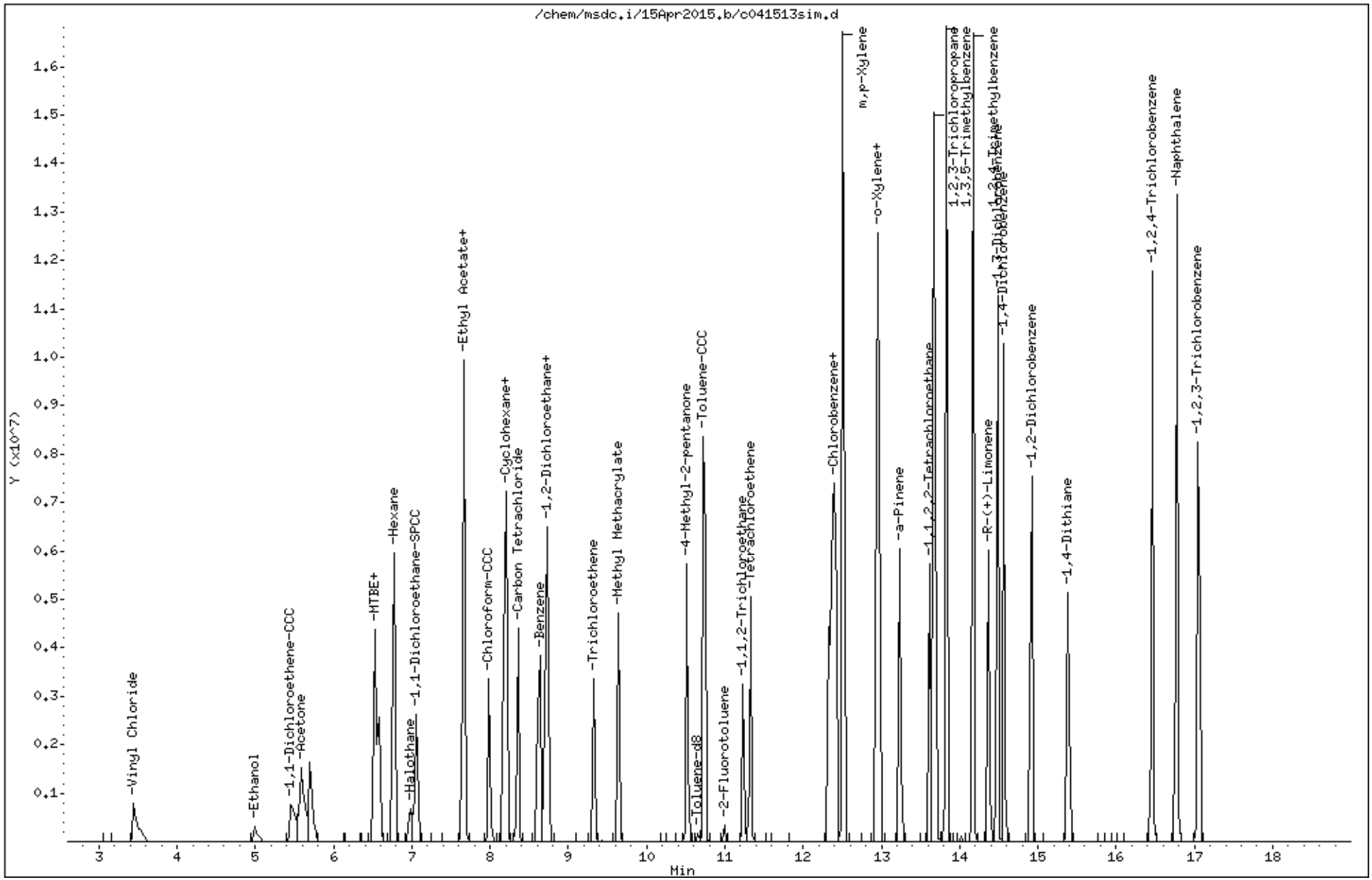
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	318479	159240	636958	367940	15.53

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	10.99	10.49	11.49	10.99	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdc.i/15Apr2015.b/c041513sim.d
Date : 15-APR-2015 13:01
Client ID: Level 11
Sample Info: ;2595-218-500>200;Level 11
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdc.i
Operator: gm
Column diameter: 0.25



Instrument: MSD-C
Analysis: Passive SE GC/MS (Rad 130)
Std ID 2595-199-10
(20 ul Spiked)
Sample Final Volume: 2.0 ml
Extraction date: 1/8/2015

Report Date : 09-Jan-2015 12:38

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdc.i/09Jan2015.b/C15r0107.m/C15r0107b.m
Batch File: /chem/msdc.i/09Jan2015.b
Inst ID: msdc.i

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08
FILENAME:	c010905sim	c010906sim	c010907sim	c010908sim	c010909sim	c010910sim	c010911sim	c010912sim
INJ.DATE:	09-JAN-2015	09-JAN-2015	09-JAN-2015	09-JAN-2015	09-JAN-2015	09-JAN-2015	09-JAN-2015	09-JAN-2015
INJ.TIME:	09:20	09:44	10:09	10:33	10:57	11:21	11:46	12:10

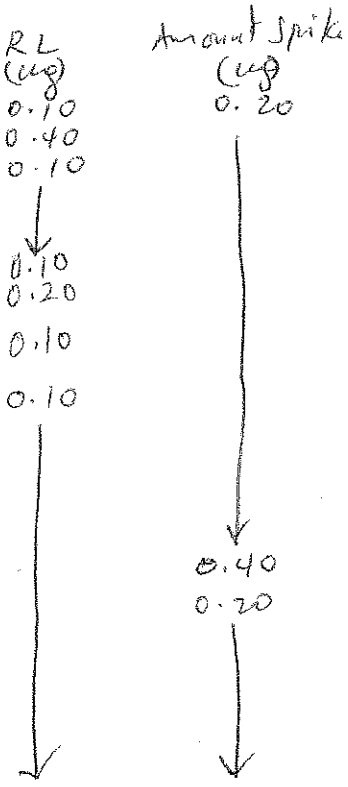
Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL ng	MDL ug	RL ug	Amount Spike ug
1 Chloromethane	186.04	181.57	138.64	149.37	206.79	160.33	178.83	159.87	170.18	22.13	66.34	0.06634	0.40	0.20
2 Vinyl Chloride	273.11	238.83	206.01	204.10	284.82	213.14	242.01	226.59	236.08	30.08	90.17	0.09017	0.40	
3 Ethanol	214.98	194.77	229.47	170.73	235.68	164.11	210.14	207.38	203.41	25.64	76.88	0.07688	1.0	
4 1,1-Dichloroethene-CCC	248.41	252.30	276.55	233.02	264.00	266.11	267.37	224.61	254.05	18.02	54.01	0.05401	5.40	
5 Acetone	259.17	239.23	274.57	217.59	289.11	235.36	249.87	252.00	252.11	22.57	67.67	0.06767	0.20	
6 2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
7 MTBE	239.03	239.48	266.75	243.89	274.33	235.65	240.48	256.86	249.56	14.55	43.63	0.04363	0.10	
8 trans-1,2-Dichloroethe	314.16	306.87	343.29	229.70	323.81	287.68	295.91	289.75	298.90	33.58	100.69	0.10069	0.20	
9 Hexane	235.28	301.20	331.04	297.50	262.18	231.06	224.62	281.53	270.55	38.60	115.72	0.11572	0.10	
10 Halothane	270.94	254.31	276.91	248.39	300.90	250.12	266.19	268.28	267.01	17.14	51.40	0.05140		
11 1,1-Dichloroethane-SPC	246.41	230.65	248.23	224.20	272.88	236.95	242.97	241.59	242.98	14.52	43.54	0.04354		
12 Ethyl Acetate	251.62	204.66	255.11	214.53	257.55	224.78	235.48	234.81	234.82	19.39	58.14	0.05814		
13 2-Butanone	237.01	222.86	251.39	218.34	261.02	225.73	241.99	234.87	236.65	14.58	43.70	0.04370		
14 cis-1,2-Dichloroethene	242.04	220.87	258.42	230.28	264.63	238.45	247.96	246.99	243.71	14.22	42.63	0.04263		
15 Chloroform-CCC	228.17	246.82	267.85	236.82	251.62	252.27	232.20	251.09	245.85	12.92	38.72	0.03872		
16 Cyclohexane	246.71	226.19	250.47	241.56	266.12	209.61	236.42	237.45	239.31	16.77	50.29	0.05029		
17 1,1,1-Trichloroethane	208.21	182.74	203.26	190.80	227.02	190.88	230.13	197.37	203.80	17.21	51.59	0.05159		

Reviewer 1 Lyd Lhan Date: 1/9/15
Reviewer 2 gmontana Date: 1/9/15

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdc.i/09Jan2015.b/C15r0107.m/C15r0107b.m
Batch File: /chem/msdc.i/09Jan2015.b
Inst ID: msdc.i

	Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL	MDL (ug)	RL (ug)	Amount Spike (ug)
	18 Carbon Tetrachloride	202.52	183.73	199.24	192.60	221.51	182.80	203.83	200.70	198.37	12.41	37.22	0.03722	0.10	0.20
	19 Benzene	329.17	332.05	354.34	333.51	354.83	334.45	329.58	358.93	340.86	12.76	38.26	0.03826	0.40	
	20 1,2-Dichloroethane	201.11	198.19	213.02	192.33	211.66	210.70	197.38	200.10	203.06	7.70	23.09	0.02309	0.10	
	21 Heptane	241.55	230.46	243.95	229.65	232.31	248.15	219.60	243.56	236.15	9.65	28.94	0.02894		
	22 Trichloroethene	226.07	225.58	242.58	229.08	246.40	221.91	237.54	241.16	233.79	9.22	27.64	0.02764	0.10	0.40
	23 Methyl Methacrylate	187.35	182.52	203.16	192.12	209.22	186.01	195.64	200.90	194.61	9.31	27.90	0.02790	0.20	
	24 4-Methyl-2-pentanone	206.59	202.04	217.86	211.78	230.37	204.63	226.53	227.07	215.86	11.17	33.50	0.03350		
$	25 Toluene-d8	9.74	9.81	9.90	10.15	10.04	10.11	9.83	9.76	9.92	0.16	0.48	SUR		
	26 Toluene-CCC	296.21	285.34	299.25	291.87	310.80	285.77	301.13	296.86	295.90	8.38	25.13	0.02513	0.10	
*	27 2-Fluorotoluene	10000.00	10000.00	10000.00	10000.00	10000.00	10000.00	10000.00	10000.00	10000.00	0.00	0.00	IS		
	28 1,1,2-Trichloroethane	209.16	207.10	227.60	214.02	230.63	214.24	216.45	221.62	217.60	8.39	25.16	0.02516	0.10	
	29 Tetrachloroethene	236.92	235.36	241.08	250.48	250.62	234.69	247.58	242.47	242.40	6.55	19.64	0.01964		
	30 Chlorobenzene	191.25	196.12	210.29	197.41	207.34	191.98	205.45	203.51	200.42	7.20	21.59	0.02159		
	31 Ethylbenzene-CCC	224.44	239.38	245.57	241.07	246.97	225.25	239.36	243.96	238.25	8.72	26.15	0.02615		
	32 1,1,1,2-Tetrachloroeth	208.21	242.68	212.22	205.85	217.74	240.32	213.76	255.71	224.56	18.82	56.43	0.05643		
	33 m,p-Xylene	454.17	457.03	470.34	468.20	491.42	443.23	466.88	469.32	465.07	14.21	42.60	0.04260		
	34 o-Xylene	212.52	211.05	214.70	203.30	214.26	196.31	215.17	208.68	209.50	6.61	19.83	0.01983		
	35 Styrene	54.54	61.02	68.25	61.78	66.61	59.36	66.71	63.02	62.66	4.53	13.58	0.01358		
	36 a-Pinene	222.20	228.33	239.77	230.42	246.92	228.58	230.18	235.15	232.69	7.71	23.12	0.02312		
	37 1,1,2,2-Tetrachloroeth	196.80	201.17	215.92	196.33	224.97	196.15	215.96	217.95	208.16	11.72	35.14	0.03514		
	38 Propylbenzene	181.40	194.56	192.88	191.33	202.13	178.15	194.40	191.53	190.80	7.64	22.91	0.02291		
	39 1,2,3-Trichloropropane	189.11	201.43	201.59	200.11	211.14	185.07	208.13	200.35	199.62	8.74	26.22	0.02622		



Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msdc.i/09Jan2015.b/C15r0107.m/C15r0107b.m
Batch File: /chem/msdc.i/09Jan2015.b
Inst ID: msdc.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL ng	MDL (ug)
40 1,3,5-Trimethylbenzene	218.98	225.52	220.11	219.00	231.49	202.12	220.49	223.60	220.16	8.43	25.27	0.02527
41 1,2,4-Trimethylbenzene	210.34	218.20	211.53	222.25	227.83	194.91	219.85	221.16	215.76	10.15	30.44	0.03044
42 R-(+)-Limonene	225.34	225.98	218.35	220.64	240.99	222.43	226.83	229.03	226.20	6.92	20.73	0.02073
43 1,3-Dichlorobenzene	175.44	183.81	185.43	171.75	181.07	164.14	179.92	178.48	177.51	6.95	20.83	0.02083
44 1,4-Dichlorobenzene	172.50	185.01	201.09	177.85	186.31	169.51	184.68	189.06	183.25	10.00	29.98	0.02998
45 1,2-Dichlorobenzene	158.54	168.37	178.93	154.03	163.29	151.16	163.27	161.78	162.42	8.64	25.89	0.02589
46 1,4-Dithiane	146.87	162.59	165.06	155.83	172.78	154.54	165.38	165.26	161.04	8.13	24.38	0.02438
47 1,2,4-Trichlorobenzene	142.77	160.58	163.75	135.51	145.21	135.29	153.66	151.59	148.54	10.70	32.08	0.03208
48 Naphthalene	63.02	35.76	33.07	21.10	21.01	18.94	25.09	19.67	29.71	14.86	44.54	0.04454
49 1,2,3-Trichlorobenzene	119.79	131.21	146.88	110.68	117.80	109.21	128.13	122.71	123.30	12.20	36.59	0.03659

MDL (ug)

RL (ug) 0.10

Amount Spiked (ug) 0.25

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdc.i Injection Date: 23-APR-2015 09:09
Lab File ID: c042303sim.d Init. Cal. Date(s): 15-APR-2015 15-APR-2015
Analysis Type: AIR Init. Cal. Times: 08:54 13:01
Lab Sample ID: 2595-224-5.0 Quant Type: ISTD
Method: /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m

	COMPOUND	RRF / AMOUNT	RF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	1 Chloromethane	0.10696	0.10432	0.020	2.47404	40.00000	Averaged
	2 Vinyl Chloride	0.21572	0.20830	0.050	3.43926	40.00000	Averaged
	3 Ethanol	0.09519	0.07315	0.030	23.15546	30.00000	Averaged
	4 1,1-Dichloroethene-CCC	0.13255	0.12566	0.050	5.19794	30.00000	Averaged
	5 Acetone	0.14604	0.13269	0.040	9.14181	30.00000	Averaged
	7 MTBE	0.59889	0.57712	0.050	3.63393	30.00000	Averaged
	8 trans-1,2-Dichloroethene	0.20752	0.19701	0.050	5.06315	30.00000	Averaged
	9 Hexane	0.61817	0.59788	0.020	3.28349	30.00000	Averaged
	10 Halothane	0.13576	0.12284	0.050	9.51846	30.00000	Averaged
	11 1,1-Dichloroethane-SPCC	0.45374	0.45274	0.050	0.22130	20.00000	Averaged
	12 Ethyl Acetate	0.06278	0.06573	0.050	-4.70121	30.00000	Averaged
	13 2-Butanone	0.13790	0.13990	0.050	-1.44651	30.00000	Averaged
	14 cis-1,2-Dichloroethene	0.22480	0.22575	0.050	-0.42284	20.00000	Averaged
	15 Chloroform-CCC	0.38241	0.39117	0.050	-2.29067	20.00000	Averaged
	16 Cyclohexane	0.38609	0.38002	0.050	1.57319	30.00000	Averaged
	17 1,1,1-Trichloroethane	0.35476	0.37082	0.050	-4.52608	20.00000	Averaged
	18 Carbon Tetrachloride	0.35651	0.34976	0.050	1.89388	20.00000	Averaged
	19 Benzene	0.86836	0.88199	0.050	-1.57035	30.00000	Averaged
	20 1,2-Dichloroethane	0.39901	0.40000	0.050	-0.24650	20.00000	Averaged
	21 Heptane	0.32508	0.32544	0.050	-0.10991	20.00000	Averaged
	22 Trichloroethene	0.28666	0.27027	0.050	5.71812	20.00000	Averaged
	23 Methyl Methacrylate	0.28486	0.28388	0.050	0.34488	30.00000	Averaged
	24 4-Methyl-2-pentanone	0.11215	0.11939	0.050	-6.45459	30.00000	Averaged
$	25 Toluene-d8	0.82301	0.90585	0.050	-10.06534	30.00000	Averaged
	26 Toluene-CCC	0.71090	0.71740	0.050	-0.91365	20.00000	Averaged
	28 1,1,2-Trichloroethane	0.28617	0.27754	0.050	3.01726	20.00000	Averaged
	29 Tetrachloroethene	0.32705	0.29534	0.050	9.69430	20.00000	Averaged
	30 Chlorobenzene	0.84204	0.81827	0.050	2.82266	20.00000	Averaged
	31 Ethylbenzene-CCC	0.45713	0.45048	0.050	1.45306	20.00000	Averaged
	32 1,1,1,2-Tetrachloroethane	0.29863	0.26585	0.050	10.97794	30.00000	Averaged
	33 m,p-Xylene	0.63967	0.63444	0.050	0.81811	20.00000	Averaged
	34 o-Xylene	0.50837	0.46194	0.050	9.13342	30.00000	Averaged
	35 Styrene	0.85402	0.85274	0.050	0.14996	30.00000	Averaged
	36 a-Pinene	0.59639	0.63811	0.050	-6.99408	30.00000	Averaged
	37 1,1,2,2-Tetrachloroethane-S	0.62612	0.66167	0.050	-5.67825	30.00000	Averaged
	38 Propylbenzene	2.43744	2.47947	0.050	-1.72419	20.00000	Averaged

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdc.i Injection Date: 23-APR-2015 09:09
Lab File ID: c042303sim.d Init. Cal. Date(s): 15-APR-2015 15-APR-2015
Analysis Type: AIR Init. Cal. Times: 08:54 13:01
Lab Sample ID: 2595-224-5.0 Quant Type: ISTD
Method: /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m

COMPOUND	RRF / AMOUNT	RF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
39 1,2,3-Trichloropropane	0.24467	0.23988	0.050	1.96089	30.00000	Averaged
40 1,3,5-Trimethylbenzene	1.14761	1.01892	0.050	11.21371	20.00000	Averaged
41 1,2,4-Trimethylbenzene	1.44726	1.37770	0.050	4.80631	20.00000	Averaged
42 R-(+)-Limonene	0.60543	0.64327	0.050	-6.24935	30.00000	Averaged
43 1,3-Dichlorobenzene	0.78749	0.67206	0.050	14.65778	30.00000	Averaged
44 1,4-Dichlorobenzene	1.02158	0.92121	0.050	9.82510	30.00000	Averaged
45 1,2-Dichlorobenzene	0.72420	0.64711	0.050	10.64483	30.00000	Averaged
46 1,4-Dithiane	0.58159	0.55100	0.050	5.25997	30.00000	Averaged
47 1,2,4-Trichlorobenzene	0.82326	0.74526	0.050	9.47406	30.00000	Averaged
48 Naphthalene	1.81664	1.68721	0.050	7.12443	30.00000	Averaged
49 1,2,3-Trichlorobenzene	0.81612	0.75153	0.050	7.91435	30.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 5.29788
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msdc.i/23Apr2015.b/c042303sim.d
Lab Smp Id: 2595-224-5.0 Client Smp ID: CCV
Inj Date : 23-APR-2015 09:09
Operator : gm Inst ID: msdc.i
Smp Info : ;2595-224-5.0;CCV
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Meth Date : 23-Apr-2015 09:36 gmash Quant Type: ISTD
Cal Date : 15-APR-2015 11:23 Cal File: c041509sim.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all-2Pr.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
1	Chloromethane	50	3.227	3.227	(0.294)	33856	5.00000	4.87630
2	Vinyl Chloride	62	3.444	3.444	(0.313)	67605	5.00000	4.82804
3	Ethanol	45	4.985	4.985	(0.453)	23740	5.00000	3.84223
4	1,1-Dichloroethene-CCC	96	5.454	5.454	(0.496)	40783	5.00000	4.74010
5	Acetone	58	5.588	5.588	(0.508)	43066	5.00000	4.54291
7	MTBE	73	6.528	6.528	(0.594)	187308	5.00000	4.81830
8	trans-1,2-Dichloroethene	96	6.583	6.583	(0.599)	63941	5.00000	4.74684
9	Hexane	57	6.775	6.775	(0.616)	194043	5.00000	4.83582
10	Halothane	117	6.985	6.985	(0.635)	39868	5.00000	4.52408
11	1,1-Dichloroethane-SPCC	63	7.057	7.057	(0.642)	146938	5.00000	4.98893
12	Ethyl Acetate	70	7.662	7.662	(0.697)	21333	5.00000	5.23506
13	2-Butanone	72	7.662	7.662	(0.697)	45405	5.00000	5.07232
14	cis-1,2-Dichloroethene	96	7.684	7.684	(0.699)	73269	5.00000	5.02114
15	Chloroform-CCC	83	7.987	7.987	(0.726)	126955	5.00000	5.11453
16	Cyclohexane	84	8.203	8.203	(0.746)	123337	5.00000	4.92134
17	1,1,1-Trichloroethane	97	8.203	8.203	(0.746)	120351	5.00000	5.22630

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	18	Carbon Tetrachloride	117	8.357	8.357	(0.760)	113516	5.00000	4.90530
	19	Benzene	78	8.603	8.603	(0.783)	286254	5.00000	5.07852
	20	1,2-Dichloroethane	62	8.696	8.696	(0.791)	129821	5.00000	5.01232
	21	Heptane	71	8.726	8.726	(0.794)	105623	5.00000	5.00550
	22	Trichloroethene	130	9.331	9.331	(0.849)	87717	5.00000	4.71409
	23	Methyl Methacrylate	69	9.644	9.644	(0.877)	92133	5.00000	4.98276
	24	4-Methyl-2-pentanone	85	10.511	10.511	(0.956)	38747	5.00000	5.32273
$	25	Toluene-d8	98	10.656	10.656	(0.969)	293996	5.00000	5.50327(A)
	26	Toluene-CCC	92	10.728	10.728	(0.976)	232835	5.00000	5.04568
*	27	2-Fluorotoluene	109	10.993	10.993	(1.000)	324554	5.00000	
	28	1,1,2-Trichloroethane	97	11.234	11.234	(1.022)	90076	5.00000	4.84914
	29	Tetrachloroethene	164	11.331	11.331	(1.031)	95855	5.00000	4.51528
	30	Chlorobenzene	112	12.325	12.325	(1.121)	265574	5.00000	4.85887
	31	Ethylbenzene-CCC	106	12.377	12.377	(1.126)	146206	5.00000	4.92735
	32	1,1,1,2-Tetrachloroethane	131	12.402	12.402	(1.128)	86283	5.00000	4.45110
	33	m,p-Xylene	106	12.506	12.506	(1.138)	411817	10.0000	9.91819
	34	o-Xylene	106	12.956	12.956	(1.178)	149923	5.00000	4.54333
	35	Styrene	104	12.956	12.956	(1.178)	276760	5.00000	4.99250
	36	a-Pinene	93	13.230	13.230	(1.203)	207100	5.00000	5.34970
	37	1,1,2,2-Tetrachloroethane-SPC	83	13.614	13.614	(1.238)	214747	5.00000	5.28391
	38	Propylbenzene	91	13.669	13.669	(1.243)	804722	5.00000	5.08621
	39	1,2,3-Trichloropropane	110	13.697	13.697	(1.246)	77853	5.00000	4.90196
	40	1,3,5-Trimethylbenzene	105	13.834	13.834	(1.258)	330696	5.00000	4.43931
	41	1,2,4-Trimethylbenzene	105	14.174	14.174	(1.289)	447138	5.00000	4.75968
	42	R-(+)-Limonene	68	14.367	14.367	(1.307)	208776	5.00000	5.31247
	43	1,3-Dichlorobenzene	146	14.488	14.488	(1.318)	218120	5.00000	4.26711
	44	1,4-Dichlorobenzene	146	14.560	14.560	(1.324)	298983	5.00000	4.50874
	45	1,2-Dichlorobenzene	146	14.897	14.897	(1.355)	210021	5.00000	4.46776
	46	1,4-Dithiane	120	15.380	15.380	(1.399)	178830	5.00000	4.73700
	47	1,2,4-Trichlorobenzene	180	16.465	16.465	(1.498)	241878	5.00000	4.52630
	48	Naphthalene	128	16.778	16.778	(1.526)	547591	5.00000	4.64378
	49	1,2,3-Trichlorobenzene	180	17.044	17.044	(1.550)	243912	5.00000	4.60428

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042303sim.d
Lab Smp Id: 2595-224-5.0
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

Calibration Date: 23-APR-2015
Calibration Time: 09:09
Client Smp ID: CCV
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	324554	162277	649108	324554	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	10.99	10.49	11.49	10.99	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdc.i/23Apr2015.b/c042303sim.d

Date : 23-APR-2015 09:09

Client ID: CCV

Instrument: msdc.i

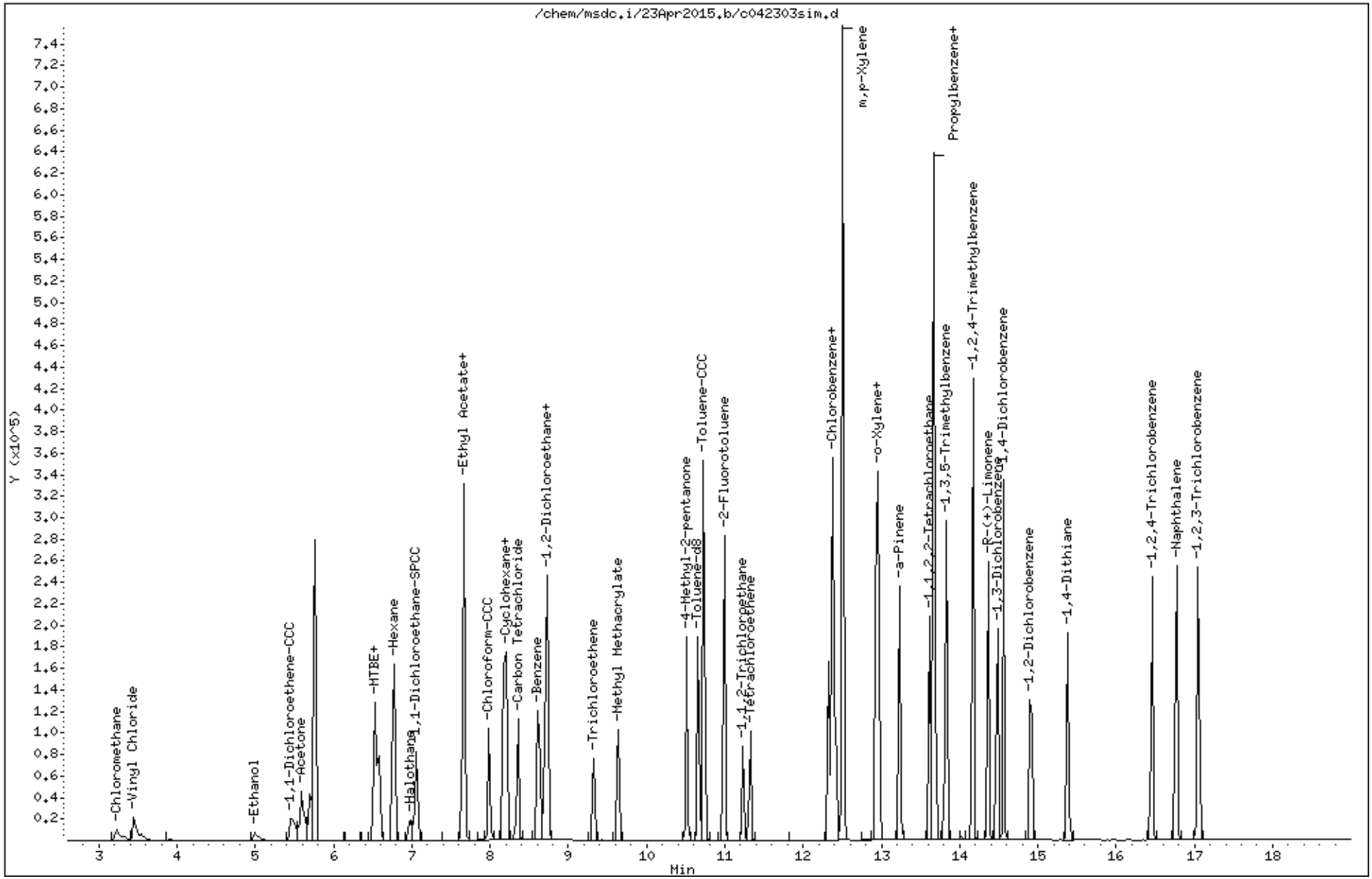
Sample Info: ;2595-224-5.0;CCV

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



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Client Sample ID: LCS

Lab ID#: 1504309R2-11A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**c042304sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/15 09:57 AM**	
		Date of Extraction: 4/23/15	

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	102	70-130
Benzene	87	70-130
1,2-Dichloroethane	88	70-130
Trichloroethene	87	70-130
Toluene	90	70-130
Tetrachloroethene	82	70-130
Ethyl Benzene	90	70-130
m,p-Xylene	85	70-130
o-Xylene	71	70-130
Naphthalene	8.3	5-80
1,1-Dichloroethane	92	70-130
1,1-Dichloroethene	89	70-130
cis-1,2-Dichloroethene	92	70-130
trans-1,2-Dichloroethene	85	70-130
1,1,2-Trichloroethane	88	70-130
1,2,4-Trimethylbenzene	78	70-130
1,3,5-Trimethylbenzene	78	70-130
Vinyl Chloride	85	50-140

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	114	70-130

Report Date: 23-Apr-2015 10:22

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 23Apr2015
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 1504275/309/364/379 Client Smp ID: LCS
Level: MED Operator: gm
Data Type: MS DATA SampleType: LCS
SpikeList File: RadLCS-CM.spk Quant Type: ISTD
Sublist File: all-cm.sub
Method File: /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

	SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2	Vinyl Chloride	10.0000	8.49726	84.97	50-140
3	Ethanol	10.0000	5.04430	50.44	50-130
4	1,1-Dichloroethene	10.0000	8.90217	89.02	70-130
5	Acetone	10.0000	7.96498	79.65	70-130
7	MTBE	10.0000	9.60200	96.02	70-130
8	trans-1,2-Dichloro	10.0000	8.54932	85.49	70-130
9	Hexane	10.0000	11.8397	118.40	70-130
10	Halothane	10.0000	8.85217	88.52	70-130
11	1,1-Dichloroethane	10.0000	9.23792	92.38	70-130
12	Ethyl Acetate	10.0000	9.58831	95.88	70-130
13	2-Butanone	10.0000	9.06466	90.65	70-130
14	cis-1,2-Dichloroet	10.0000	9.24573	92.46	70-130
15	Chloroform-CCC	10.0000	9.01035	90.10	70-130
16	Cyclohexane	10.0000	9.71129	97.11	70-130
17	1,1,1-Trichloroeth	10.0000	10.1980	101.98	70-130
18	Carbon Tetrachlori	10.0000	9.50018	95.00	70-130
19	Benzene	10.0000	8.72455	87.25	70-130
20	1,2-Dichloroethane	10.0000	8.81647	88.16	70-130
21	Heptane	10.0000	9.23254	92.33	70-130
22	Trichloroethene	10.0000	8.73052	87.31	70-130
23	Methyl Methacrylat	10.0000	9.03686	90.37	70-130
24	4-Methyl-2-pentano	10.0000	9.93014	99.30	70-130
26	Toluene-CCC	10.0000	9.01514	90.15	70-130
28	1,1,2-Trichloroeth	10.0000	8.78588	87.86	70-130
29	Tetrachloroethene	10.0000	8.18532	81.85	70-130
30	Chlorobenzene	10.0000	7.82615	78.26	70-130
31	Ethylbenzene-CCC	10.0000	9.02900	90.29	70-130
32	1,1,1,2-Tetrachlor	10.0000	8.09804	80.98	70-130
33	m,p-Xylene	20.0000	17.0642	85.32	70-130
34	o-Xylene	10.0000	7.10558	71.06	70-130
35	Styrene	10.0000	5.22508	52.25	20-100
36	a-Pinene	10.0000	11.5502	115.50	70-130
37	1,1,2,2-Tetrachlor	10.0000	8.57836	85.78	70-130

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
38 Propylbenzene	10.0000	8.31506	83.15	70-130
39 1,2,3-Trichloropro	10.0000	8.25945	82.59	70-130
40 1,3,5-Trimethylben	10.0000	7.85247	78.52	70-130
41 1,2,4-Trimethylben	10.0000	7.82015	78.20	70-130
42 R-(+)-Limonene	10.0000	9.69708	96.97	70-130
43 1,3-Dichlorobenzen	10.0000	6.13372	61.34	50-110
44 1,4-Dichlorobenzen	10.0000	6.18585	61.86	50-110
45 1,2-Dichlorobenzen	10.0000	5.68329	56.83	50-110
46 1,4-Dithiane	10.0000	7.41653	74.17	50-110
47 1,2,4-Trichloroben	10.0000	5.00176	50.02	20-110
48 Naphthalene	10.0000	0.832735	8.33	5-80
49 1,2,3-Trichloroben	10.0000	4.10012	41.00	20-110

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 25 Toluene-d8	10.0000	11.4361	114.36	70-130

Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msdc.i/23Apr2015.b/c042304sim.d
Lab Smp Id: 1504275/309/364/379 Client Smp ID: LCS
Inj Date : 23-APR-2015 09:57
Operator : gm Inst ID: msdc.i
Smp Info : ;1504275/309/364/379;LCS
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Meth Date : 23-Apr-2015 09:36 gmash Quant Type: ISTD
Cal Date : 15-APR-2015 11:23 Cal File: c041509sim.d
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all-cm.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
2 Vinyl Chloride	62	3.444	3.444	(0.313)	68235	4.24863	8.49726
3 Ethanol	45	4.985	4.985	(0.453)	17874	2.52215	5.04430
4 1,1-Dichloroethene-CCC	96	5.454	5.454	(0.496)	43924	4.45108	8.90217
5 Acetone	58	5.588	5.588	(0.508)	43302	3.98249	7.96498
7 MTBE	73	6.555	6.528	(0.596)	214065	4.80100	9.60200
8 trans-1,2-Dichloroethene	96	6.583	6.583	(0.599)	66043	4.27466	8.54932
9 Hexane	57	6.775	6.775	(0.616)	272452	5.91983	11.8397
10 Halothane	117	6.985	6.985	(0.635)	44737	4.42608	8.85217
11 1,1-Dichloroethane-SPCC	63	7.057	7.057	(0.642)	156035	4.61896	9.23792
12 Ethyl Acetate	70	7.662	7.662	(0.697)	22407	4.79416	9.58831
13 2-Butanone	72	7.684	7.662	(0.699)	46534	4.53233	9.06466
14 cis-1,2-Dichloroethene	96	7.684	7.684	(0.699)	77371	4.62286	9.24573
15 Chloroform-CCC	83	7.987	7.987	(0.726)	128265	4.50517	9.01035
16 Cyclohexane	84	8.203	8.203	(0.746)	139575	4.85564	9.71129
17 1,1,1-Trichloroethane	97	8.203	8.203	(0.746)	134677	5.09901	10.1980
18 Carbon Tetrachloride	117	8.357	8.357	(0.760)	126080	4.75009	9.50018

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
19	Benzene	78	8.634	8.603	(0.785)	282020	4.36227	8.72455
20	1,2-Dichloroethane	62	8.696	8.696	(0.791)	130955	4.40824	8.81647
21	Heptane	71	8.726	8.726	(0.794)	111726	4.61627	9.23254
22	Trichloroethene	130	9.331	9.331	(0.849)	93164	4.36526	8.73052
23	Methyl Methacrylate	69	9.644	9.644	(0.877)	95826	4.51843	9.03686
24	4-Methyl-2-pentanone	85	10.512	10.511	(0.956)	41455	4.96507	9.93014
$ 25	Toluene-d8	98	10.656	10.656	(0.969)	350365	5.71804	11.4361
26	Toluene-CCC	92	10.728	10.728	(0.976)	238574	4.50757	9.01514
* 27	2-Fluorotoluene	109	10.993	10.993	(1.000)	372254	5.00000	
28	1,1,2-Trichloroethane	97	11.234	11.234	(1.022)	93595	4.39294	8.78588
29	Tetrachloroethene	164	11.331	11.331	(1.031)	99652	4.09266	8.18532
30	Chlorobenzene	112	12.325	12.325	(1.121)	245313	3.91308	7.82615
31	Ethylbenzene-CCC	106	12.377	12.377	(1.126)	153643	4.51450	9.02900
32	1,1,1,2-Tetrachloroethane	131	12.403	12.402	(1.128)	90024	4.04902	8.09804
33	m,p-Xylene	106	12.506	12.506	(1.138)	406332	8.53211	17.0642
34	o-Xylene	106	12.956	12.956	(1.178)	134467	3.55279	7.10558
35	Styrene	104	12.956	12.956	(1.178)	166112	2.61254	5.22508
36	a-Pinene	93	13.230	13.230	(1.203)	256425	5.77508	11.5502
37	1,1,2,2-Tetrachloroethane-SPC	83	13.614	13.614	(1.238)	199939	4.28918	8.57836
38	Propylbenzene	91	13.669	13.669	(1.243)	754467	4.15753	8.31506
39	1,2,3-Trichloropropane	110	13.697	13.697	(1.246)	75228	4.12972	8.25945
40	1,3,5-Trimethylbenzene	105	13.834	13.834	(1.258)	335461	3.92624	7.85247
41	1,2,4-Trimethylbenzene	105	14.174	14.174	(1.289)	421309	3.91007	7.82015
42	R-(+)-Limonene	68	14.367	14.367	(1.307)	218548	4.84854	9.69708
43	1,3-Dichlorobenzene	146	14.488	14.488	(1.318)	179807	3.06686	6.13372
44	1,4-Dichlorobenzene	146	14.560	14.560	(1.324)	235241	3.09292	6.18585
45	1,2-Dichlorobenzene	146	14.897	14.897	(1.355)	153213	2.84165	5.68329
46	1,4-Dithiane	120	15.380	15.380	(1.399)	160568	3.70827	7.41653
47	1,2,4-Trichlorobenzene	180	16.465	16.465	(1.498)	153285	2.50088	5.00176
48	Naphthalene	128	16.778	16.778	(1.526)	56313	0.41637	0.832735
49	1,2,3-Trichlorobenzene	180	17.044	17.044	(1.550)	124563	2.05006	4.10012

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042304sim.d
Lab Smp Id: 1504275/309/364/379
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

Calibration Date: 23-APR-2015
Calibration Time: 09:09
Client Smp ID: LCS
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	324554	162277	649108	372254	14.70

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	10.99	10.49	11.49	10.99	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

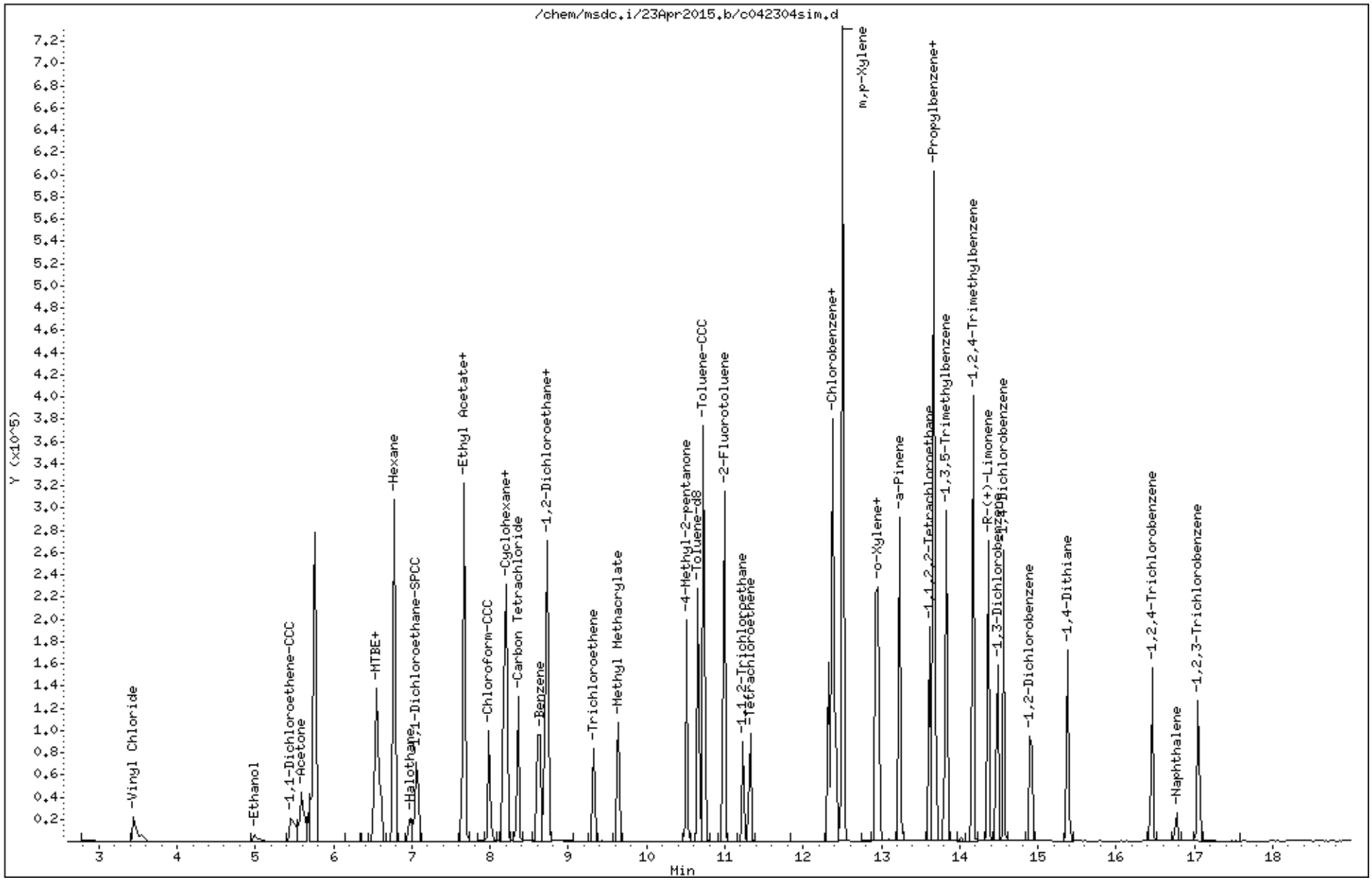
Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

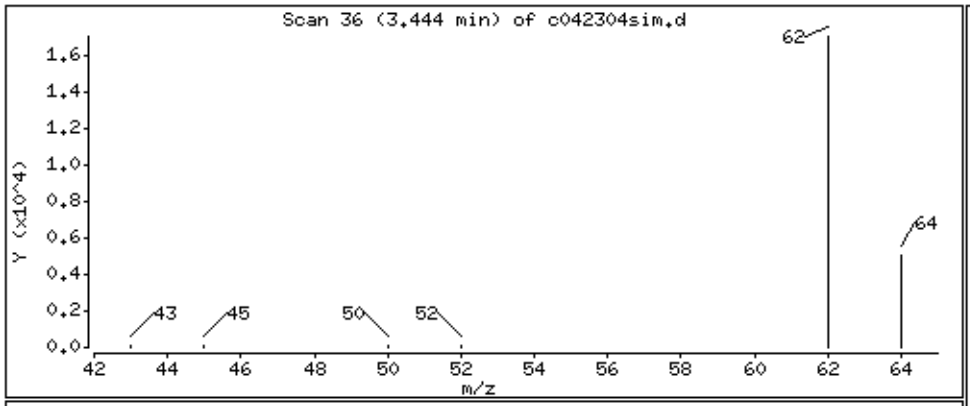
Operator: gm

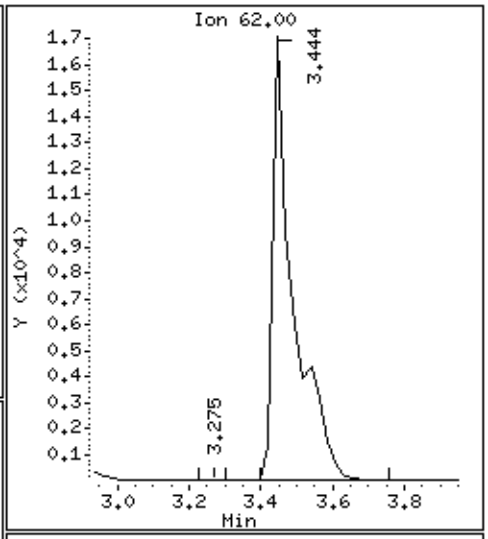
Column phase: DB-5.625

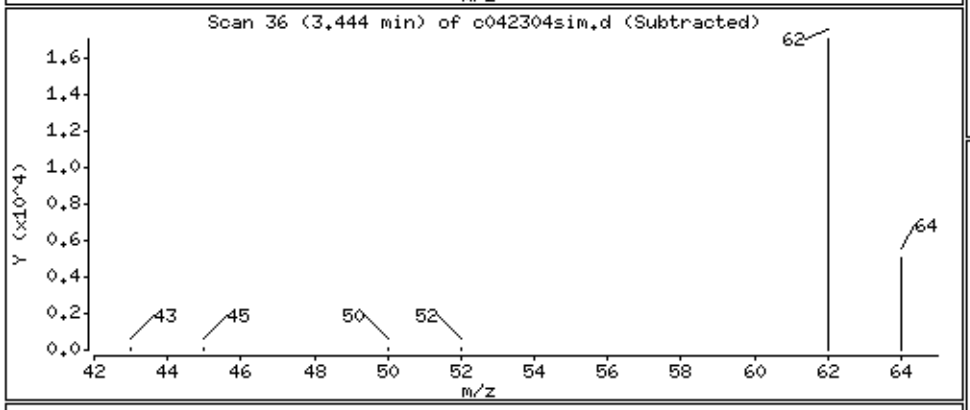
Column diameter: 0.25

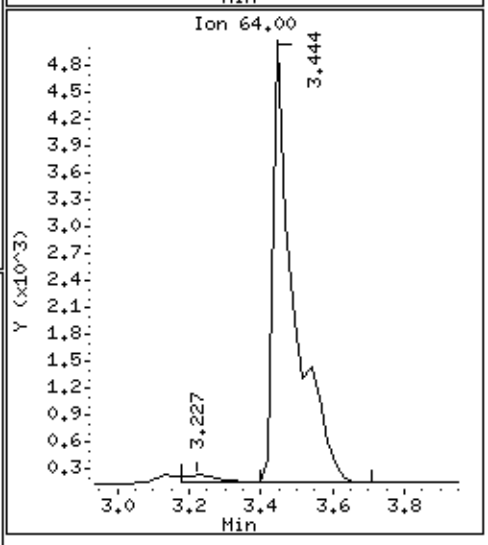
2 Vinyl Chloride

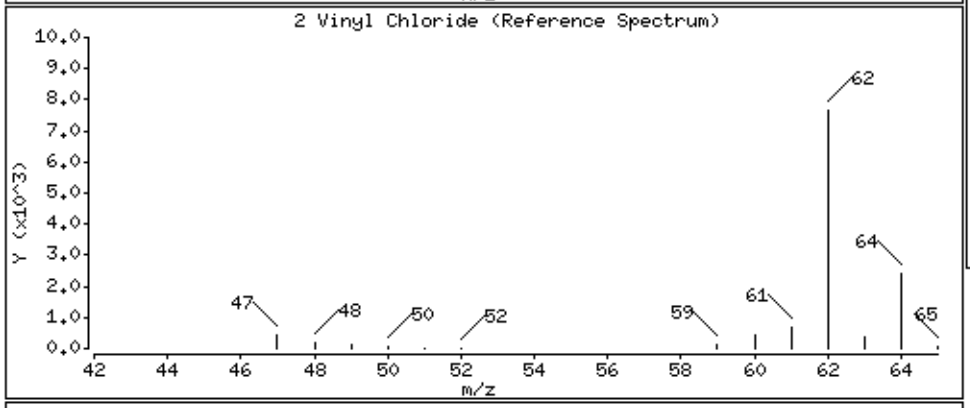
Concentration: 8.49726 ug

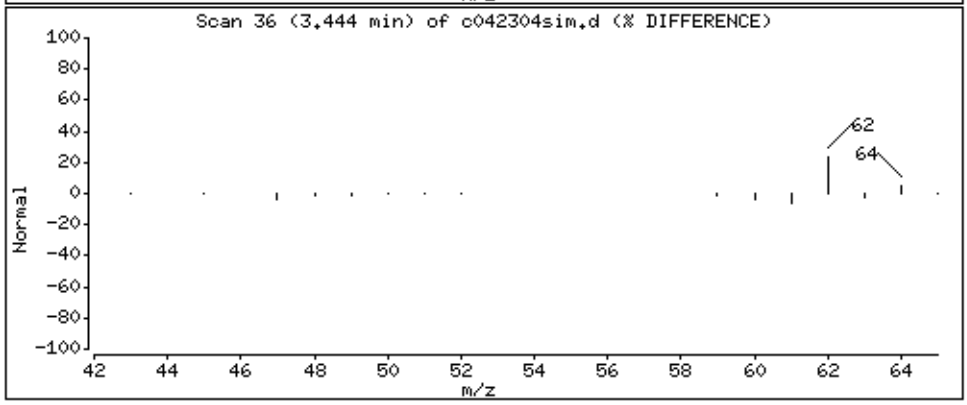












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

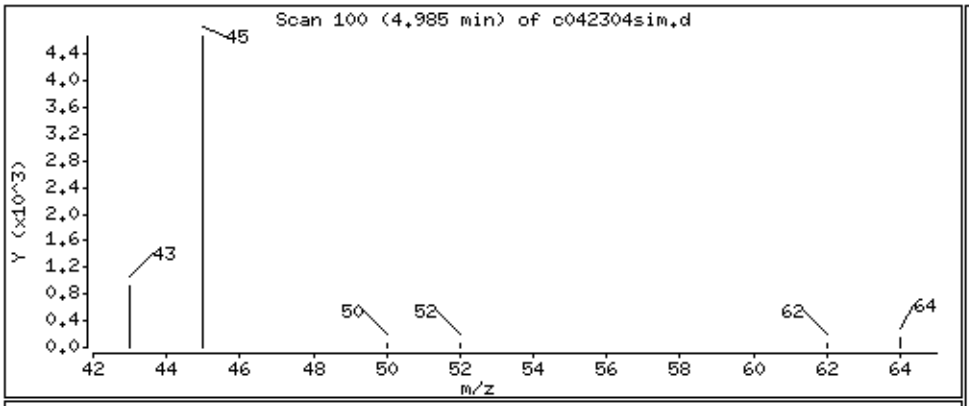
Operator: gm

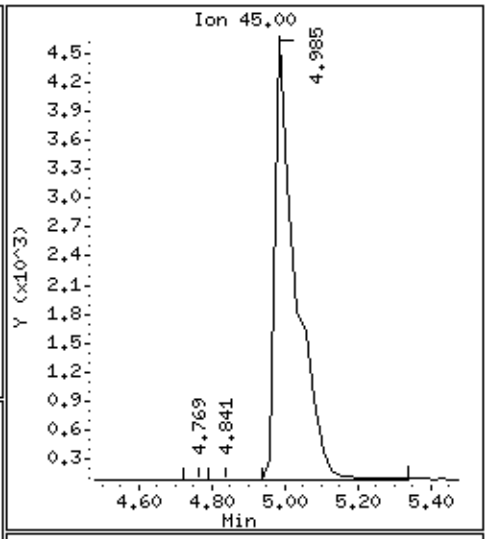
Column phase: DB-5.625

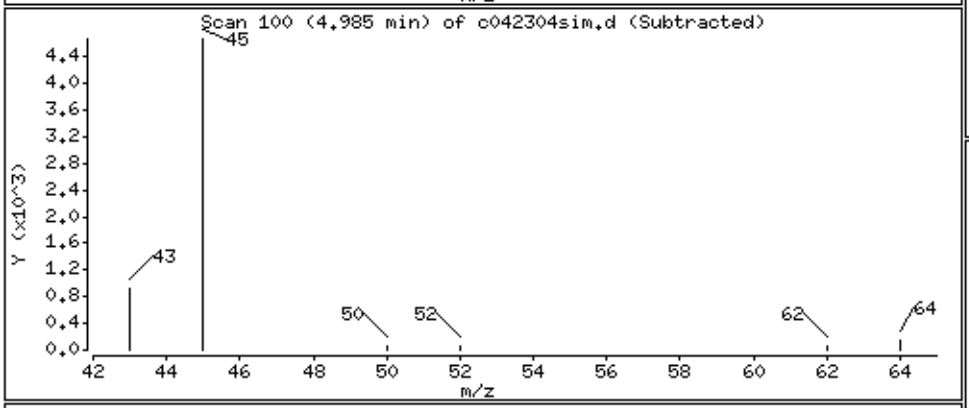
Column diameter: 0.25

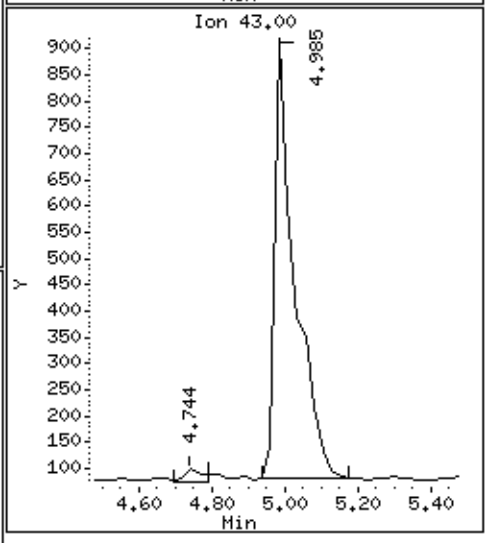
3 Ethanol

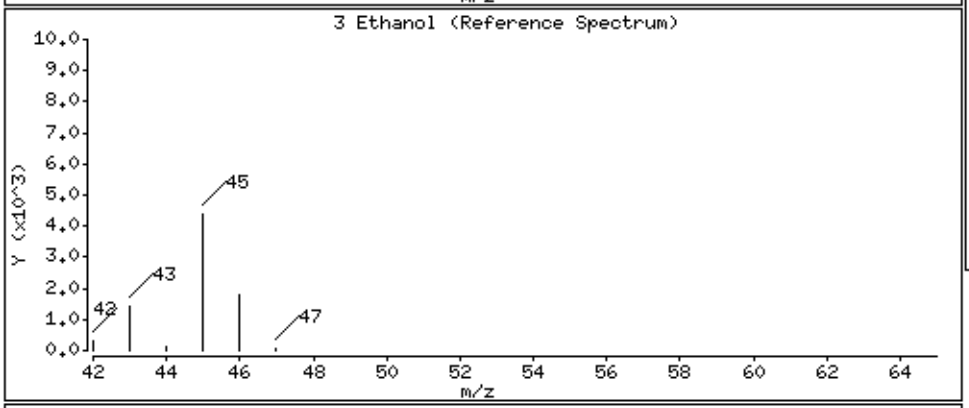
Concentration: 5.04430 ug

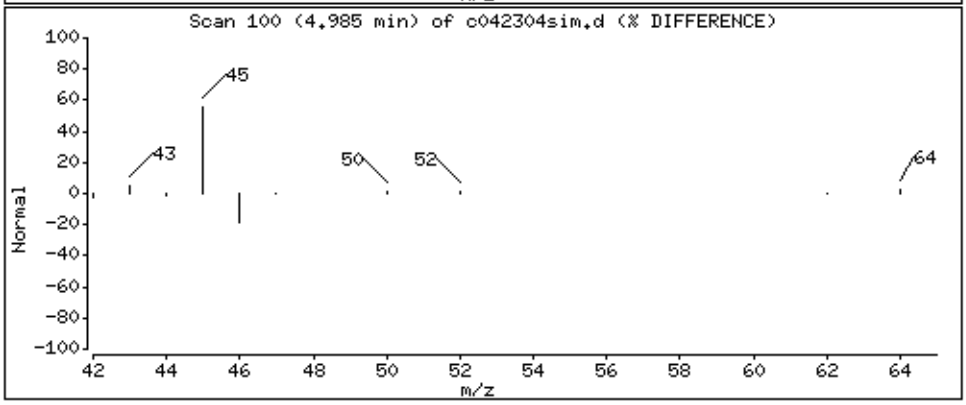












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

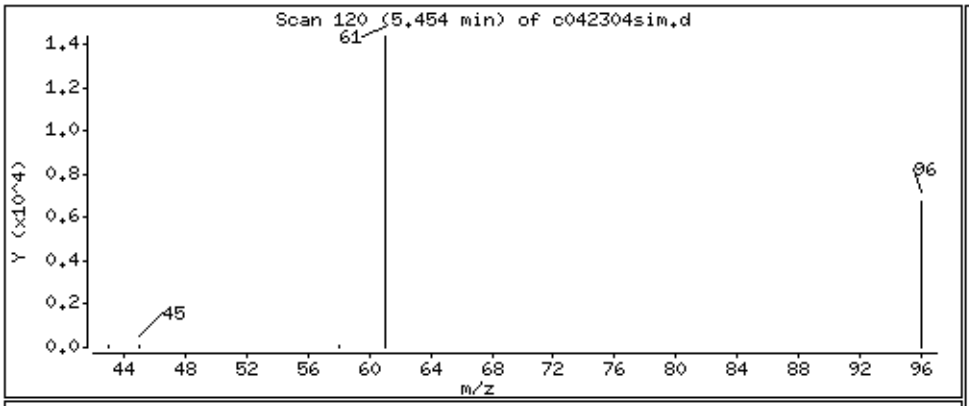
Operator: gm

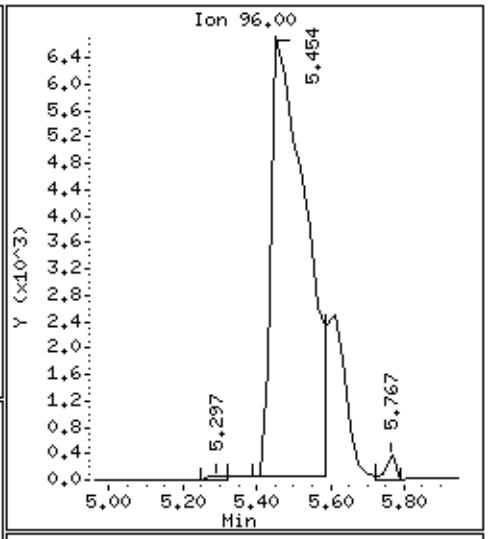
Column phase: DB-5.625

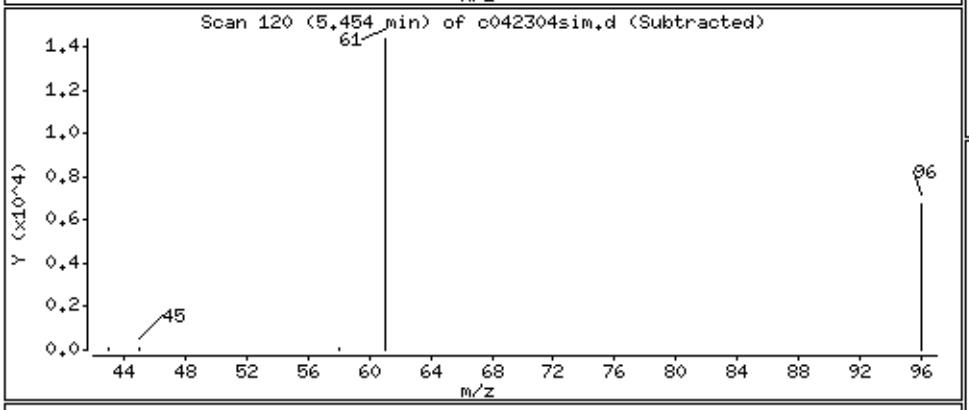
Column diameter: 0.25

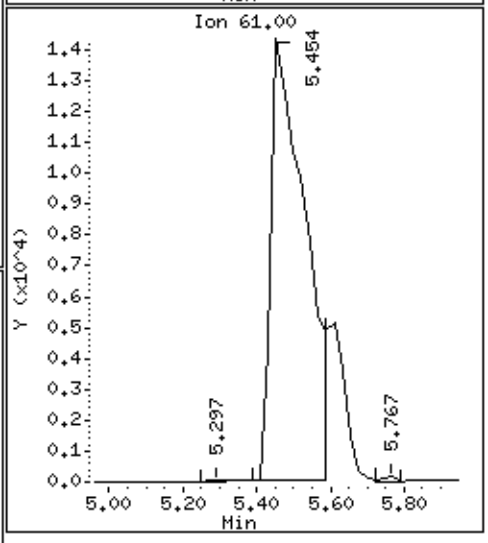
4 1,1-Dichloroethene-CCC

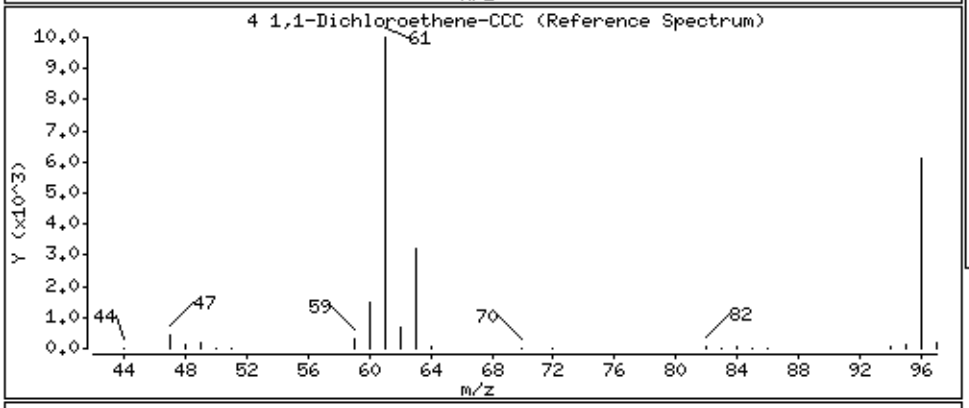
Concentration: 8.90217 ug

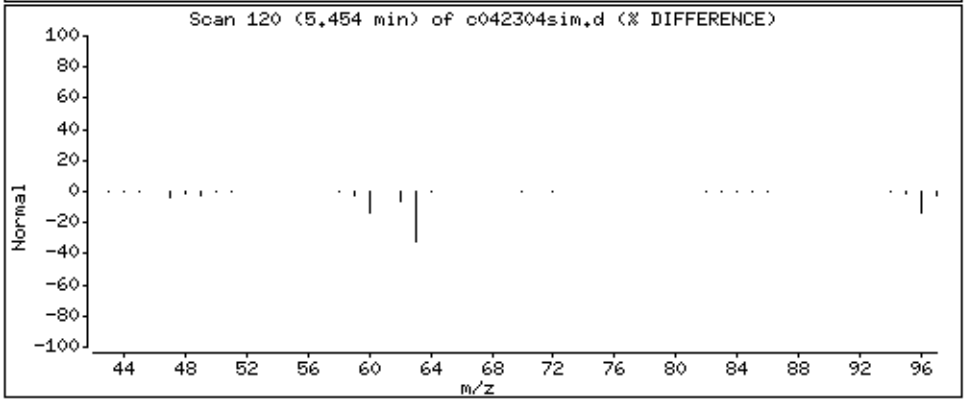












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

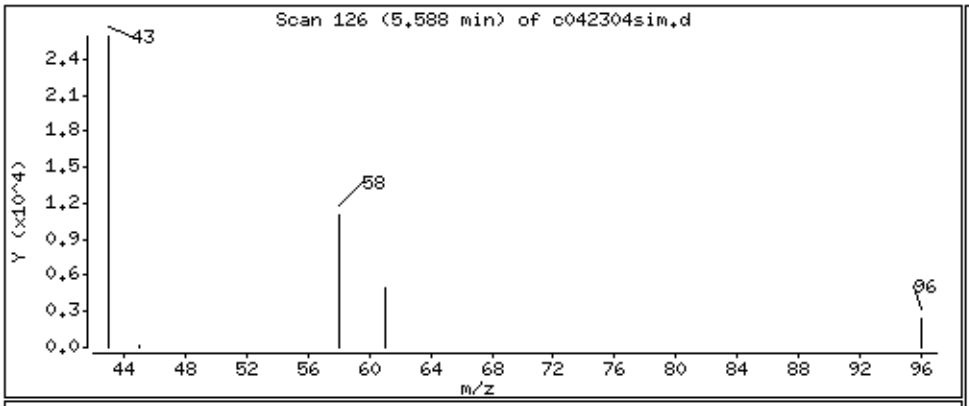
Operator: gm

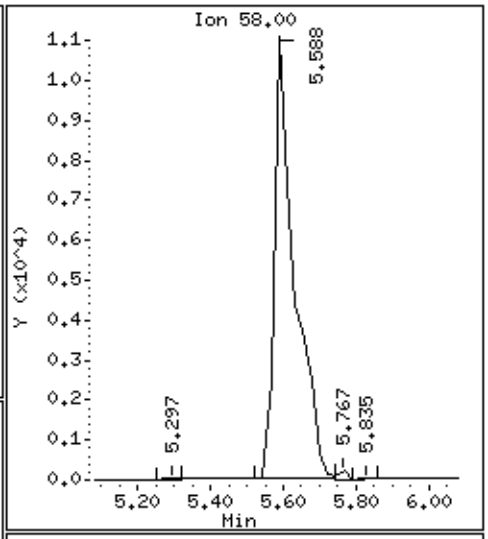
Column phase: DB-5.625

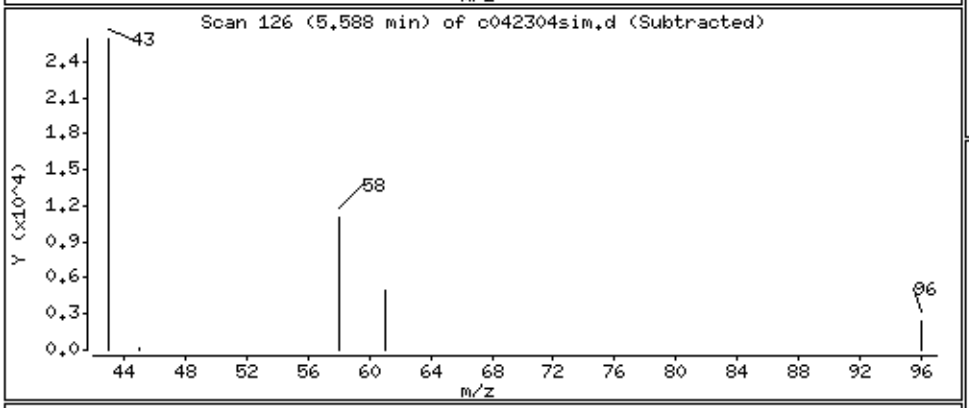
Column diameter: 0.25

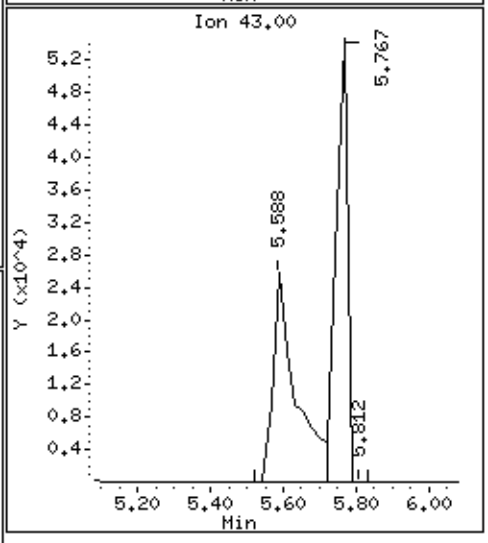
5 Acetone

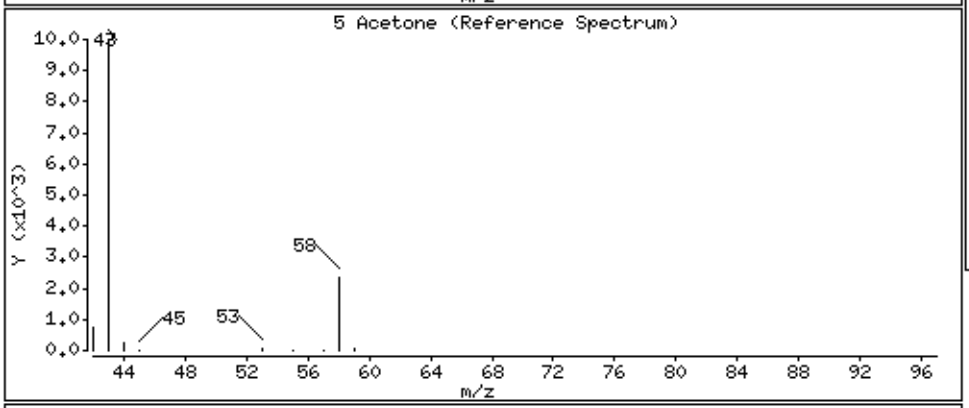
Concentration: 7.96498 ug

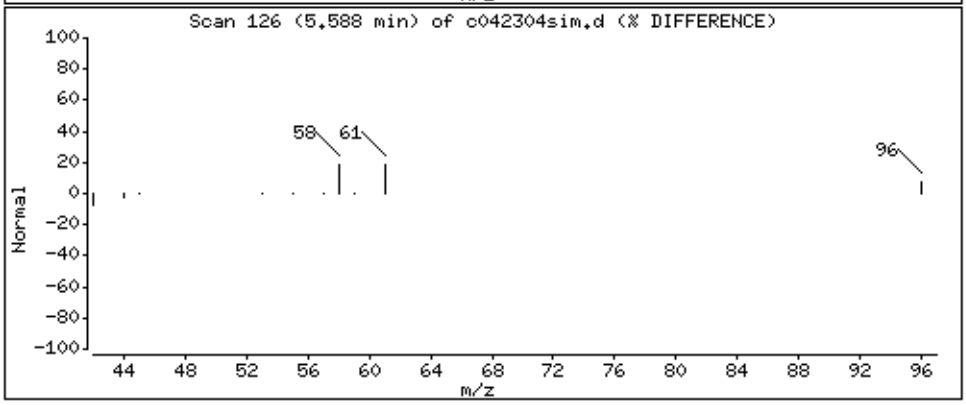












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

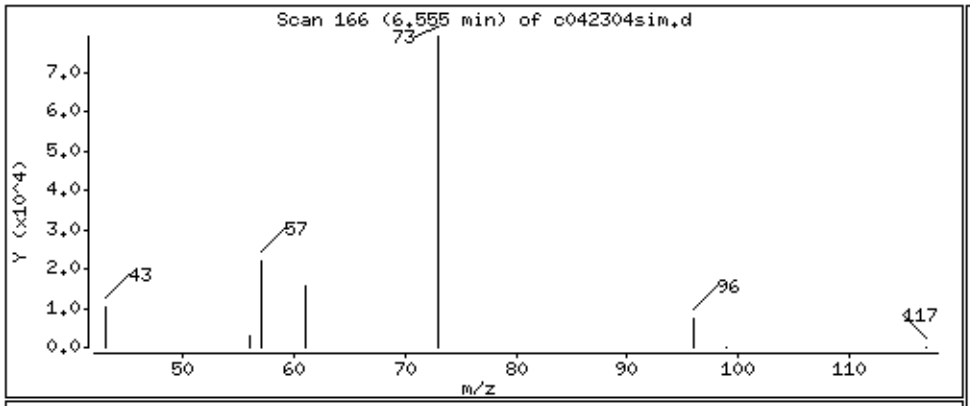
Operator: gm

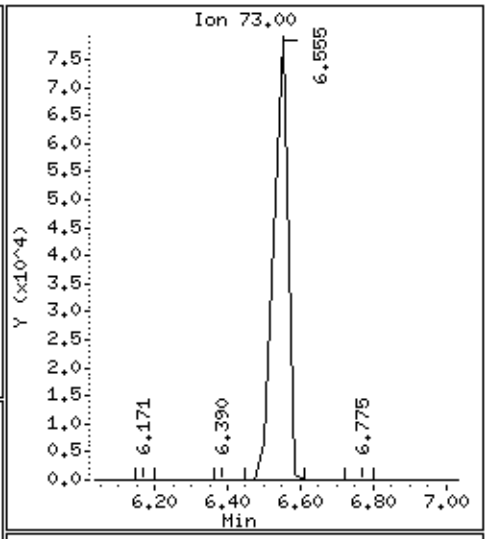
Column phase: DB-5.625

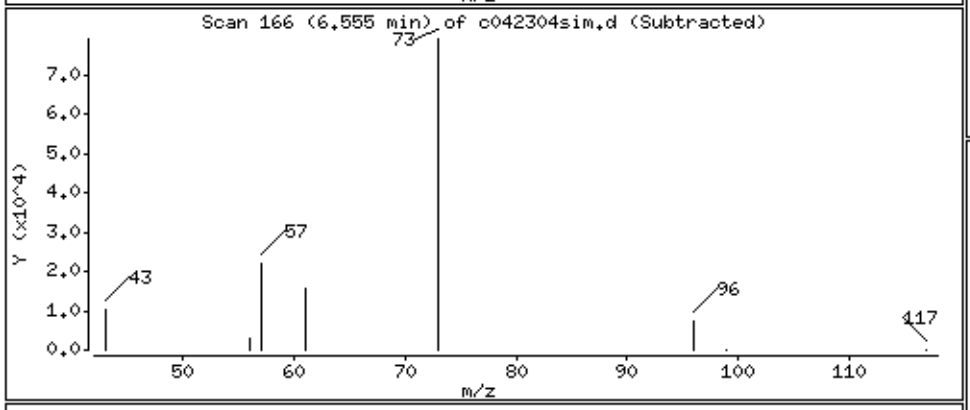
Column diameter: 0.25

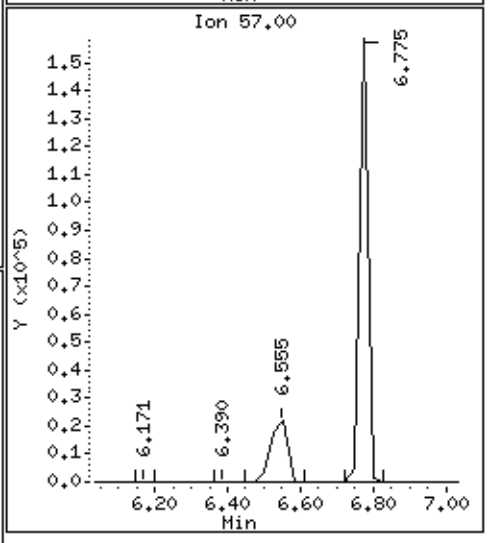
7 MTBE

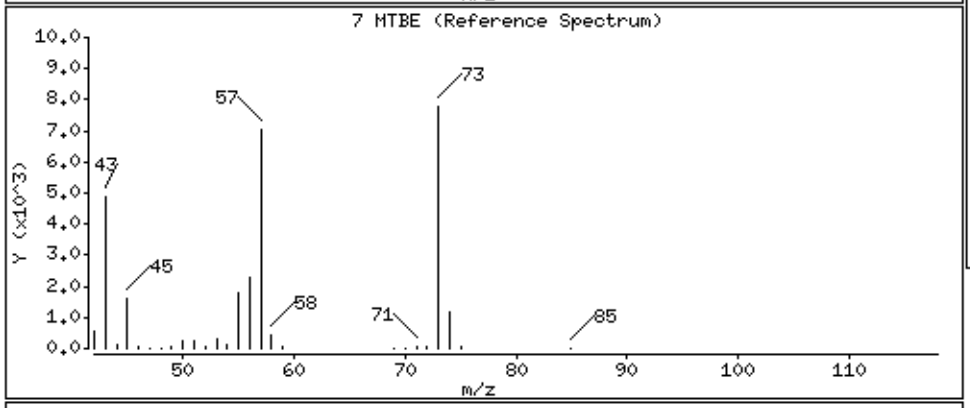
Concentration: 9.60200 ug

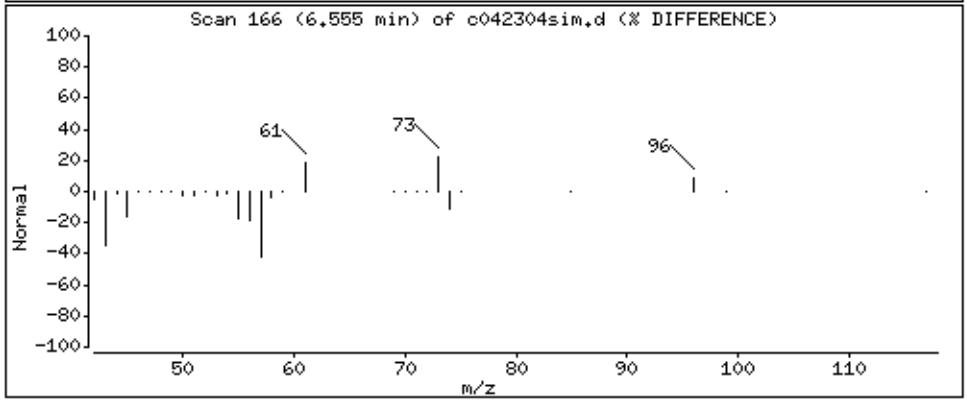












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

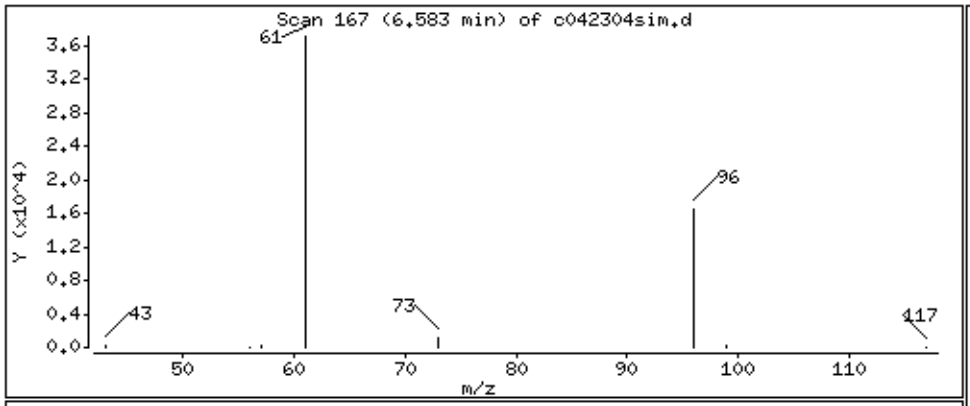
Operator: gm

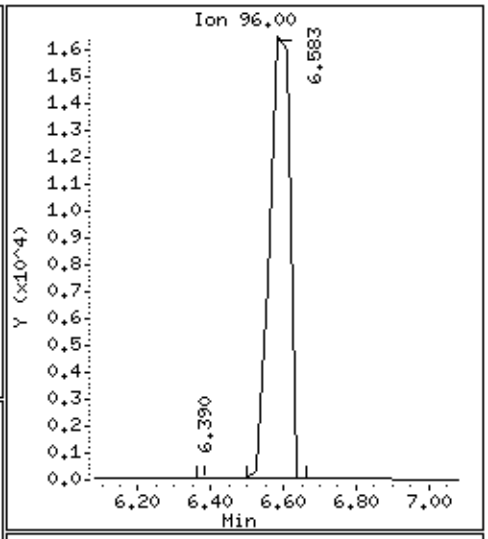
Column phase: DB-5.625

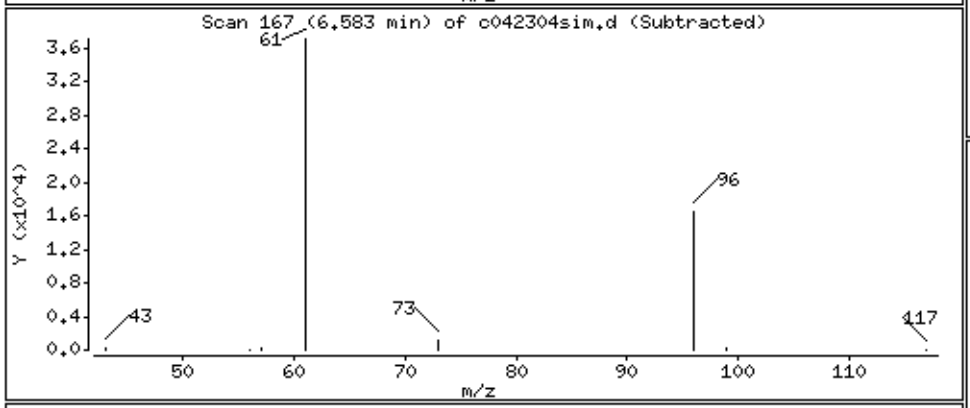
Column diameter: 0.25

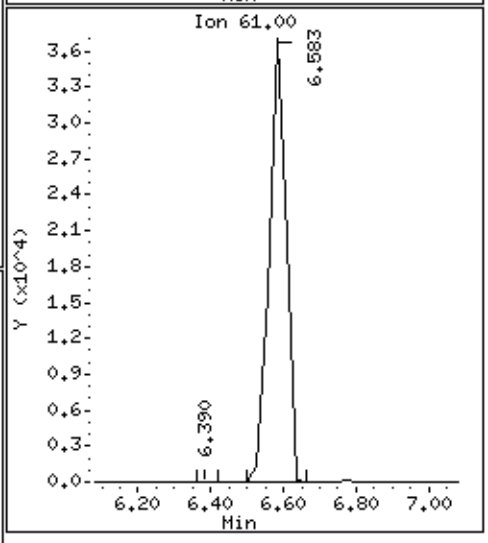
8 trans-1,2-Dichloroethene

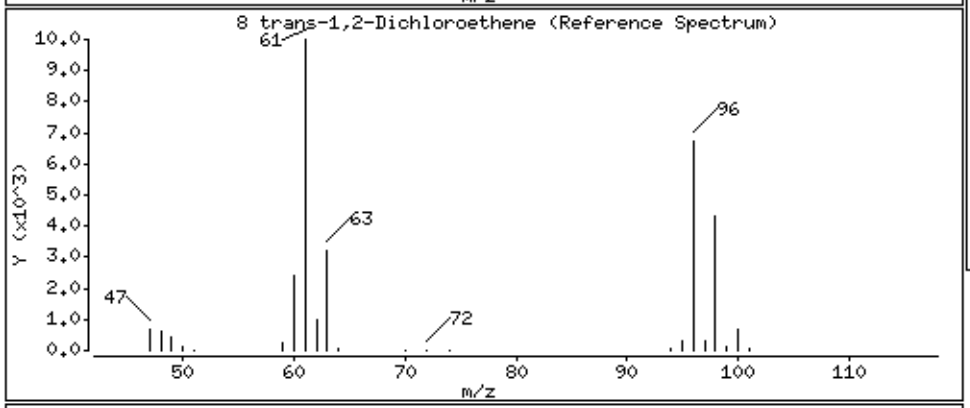
Concentration: 8.54932 ug

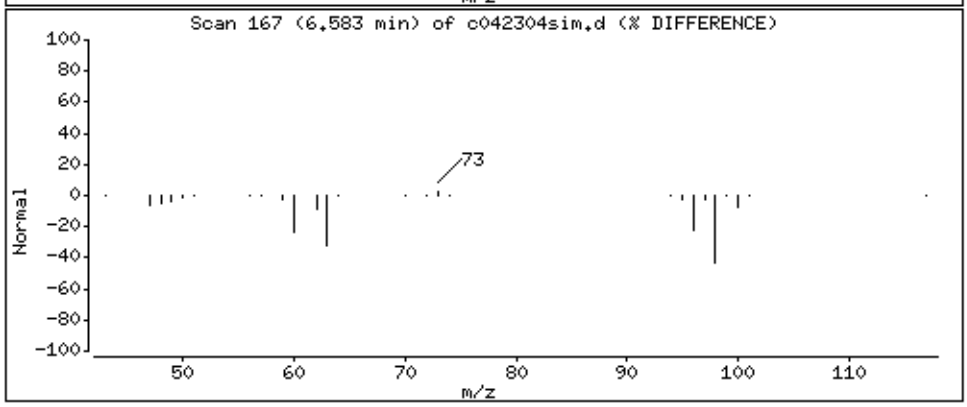












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

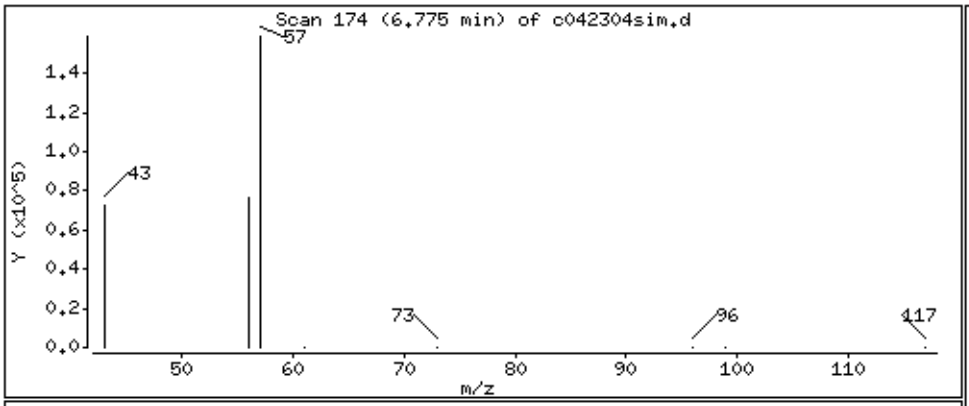
Operator: gm

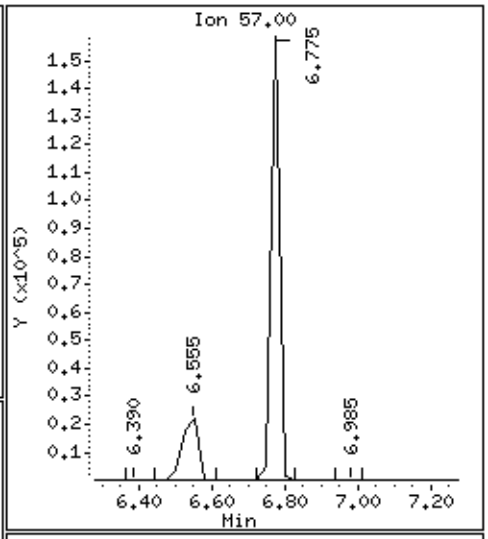
Column phase: DB-5.625

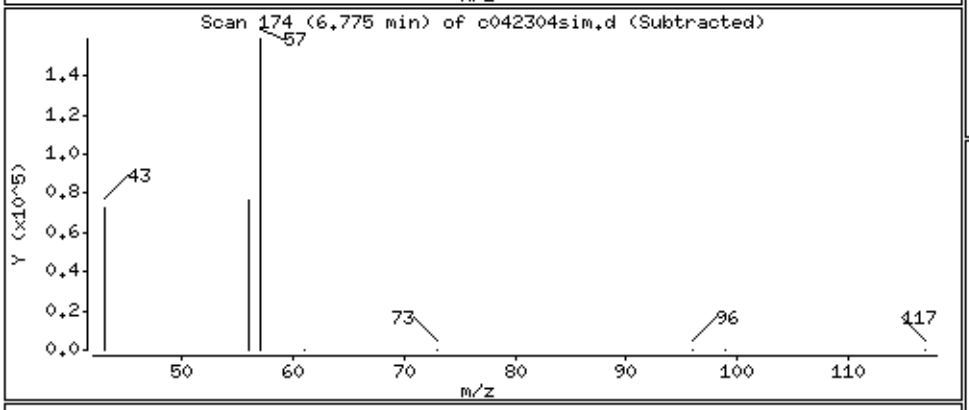
Column diameter: 0.25

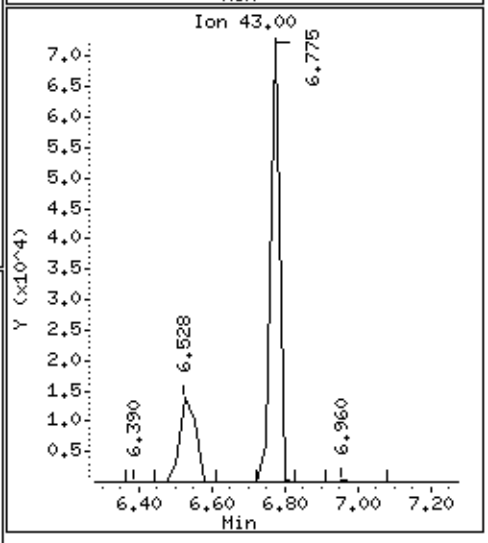
9 Hexane

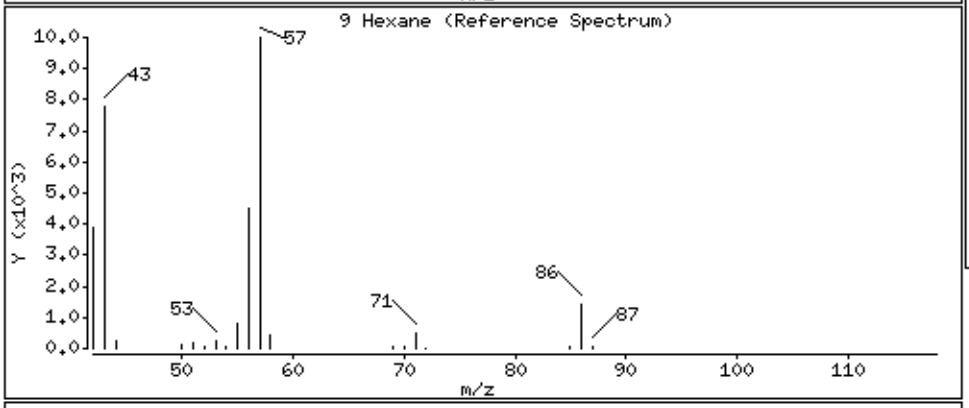
Concentration: 11.8397 ug

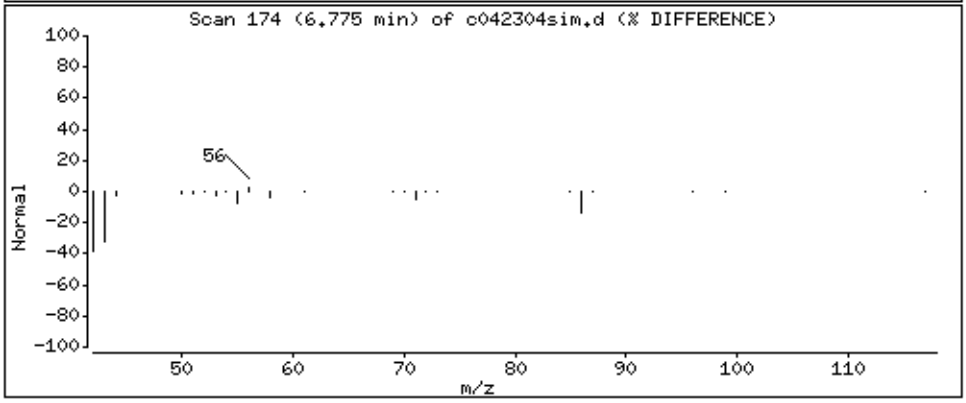












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

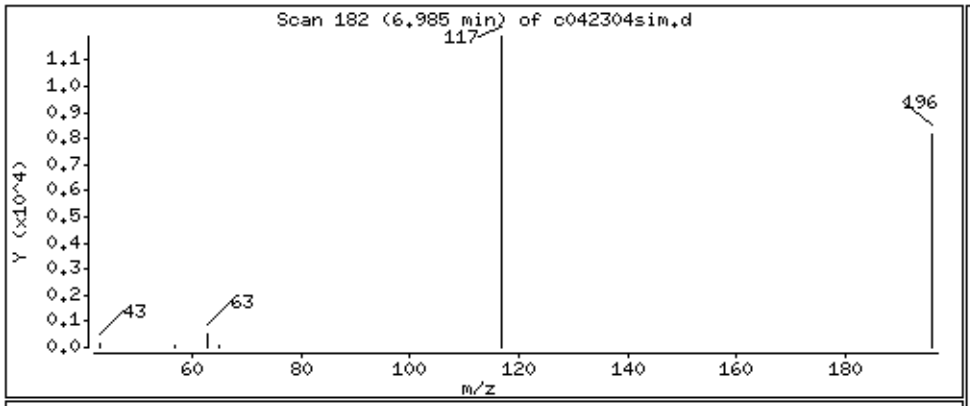
Operator: gm

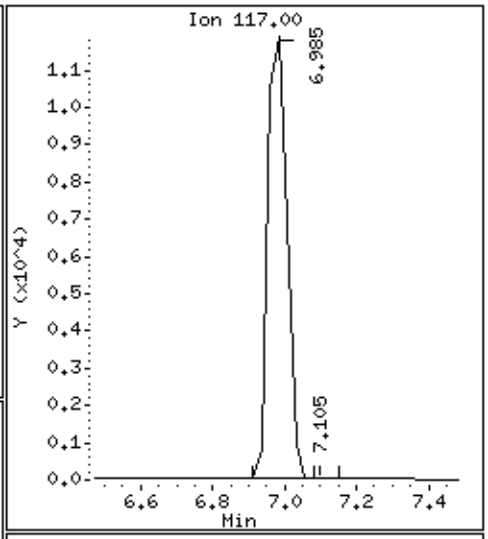
Column phase: DB-5.625

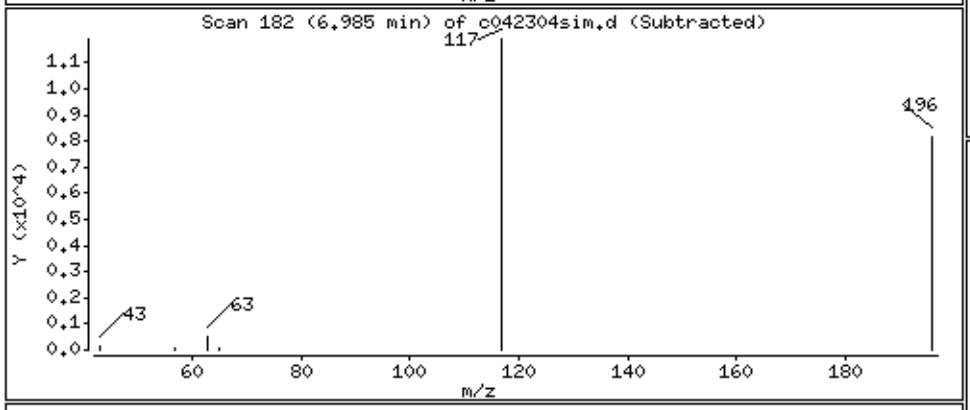
Column diameter: 0.25

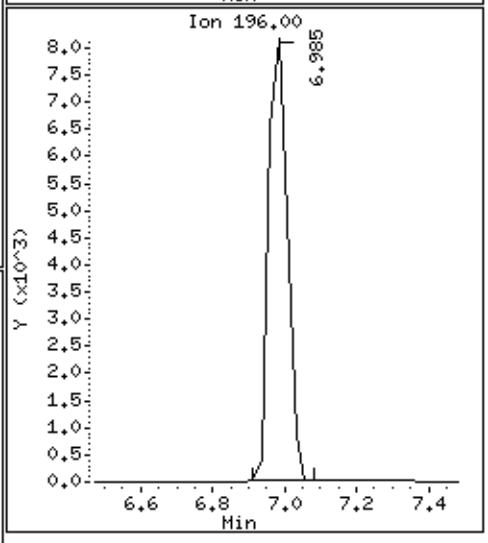
10 Halothane

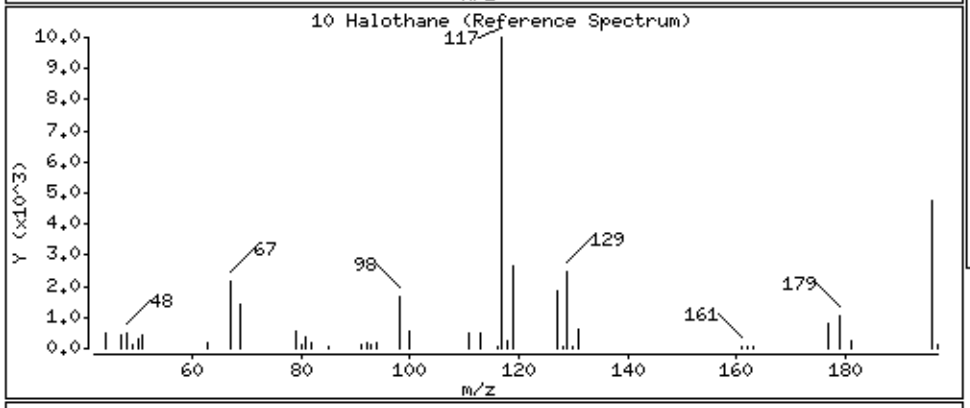
Concentration: 8.85217 ug

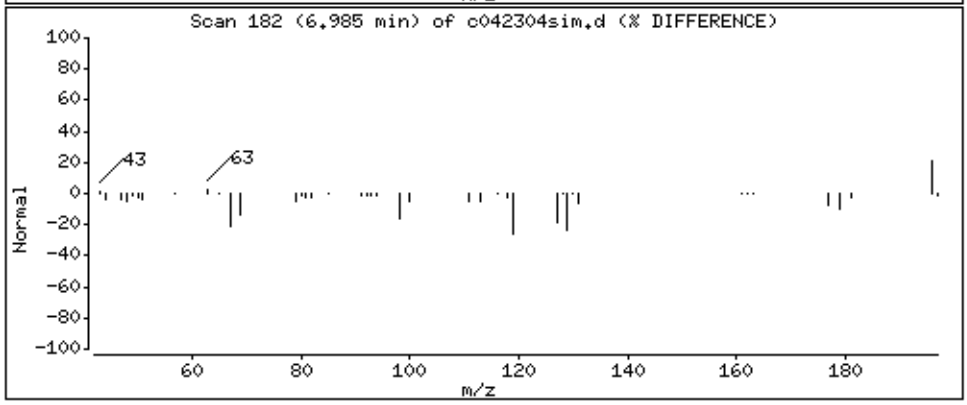












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

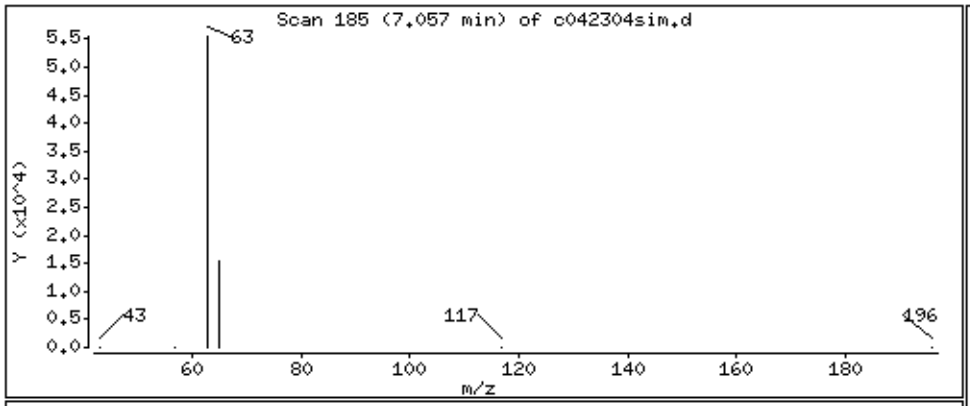
Operator: gm

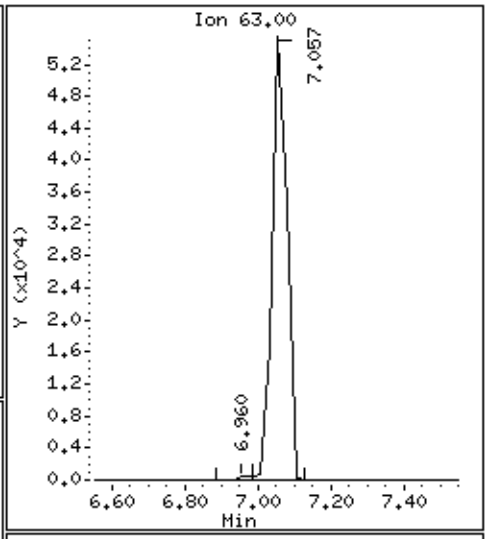
Column phase: DB-5.625

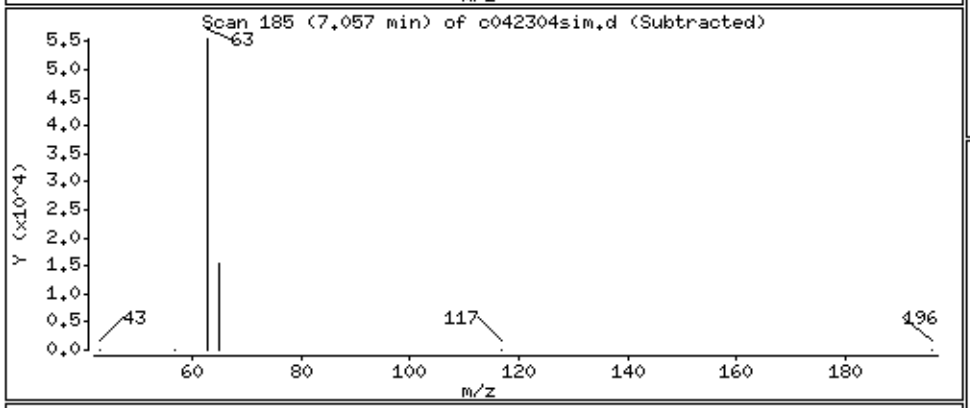
Column diameter: 0.25

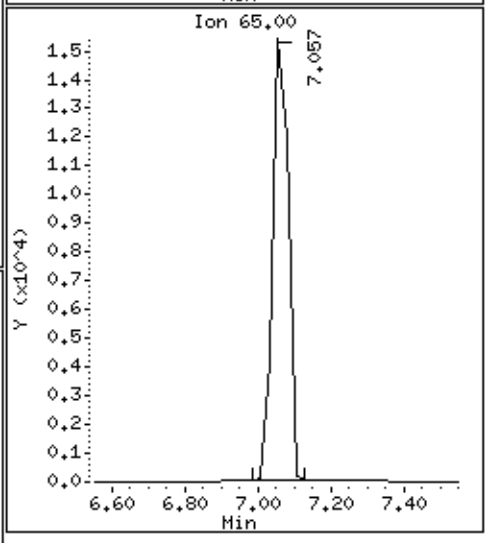
11 1,1-Dichloroethane-SPCC

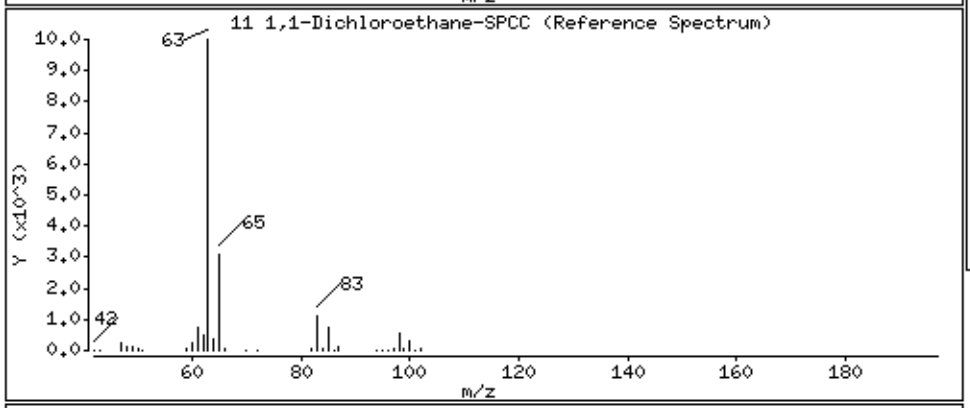
Concentration: 9.23792 ug

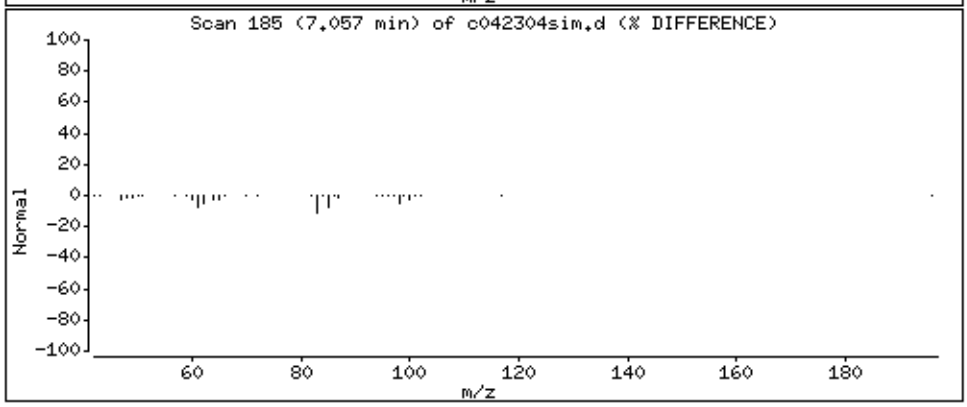












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

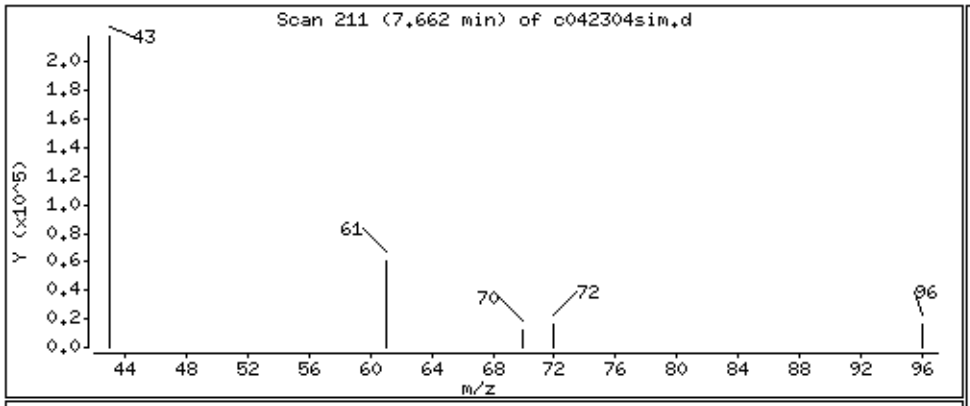
Operator: gm

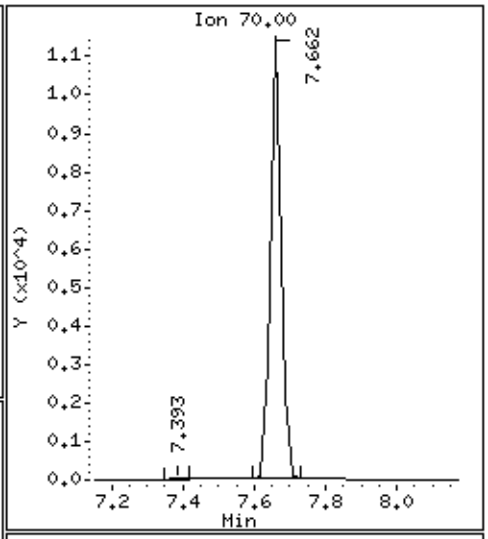
Column phase: DB-5.625

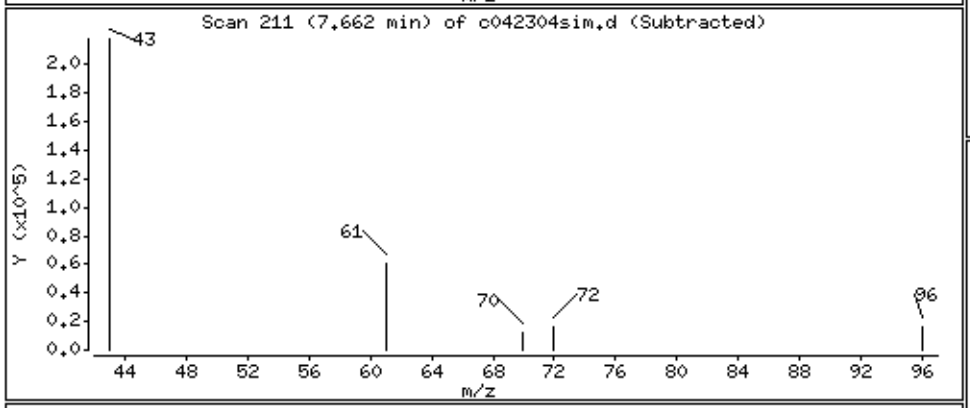
Column diameter: 0.25

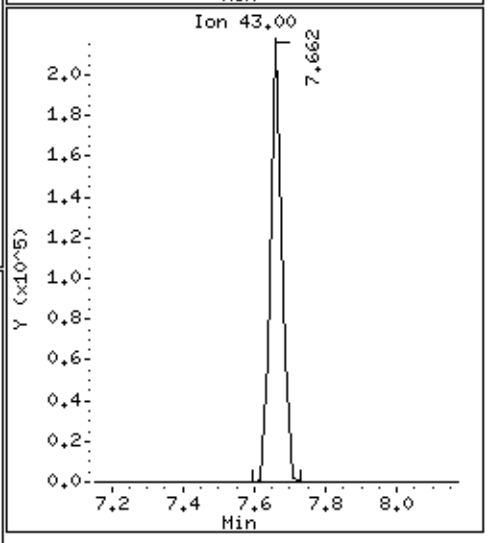
12 Ethyl Acetate

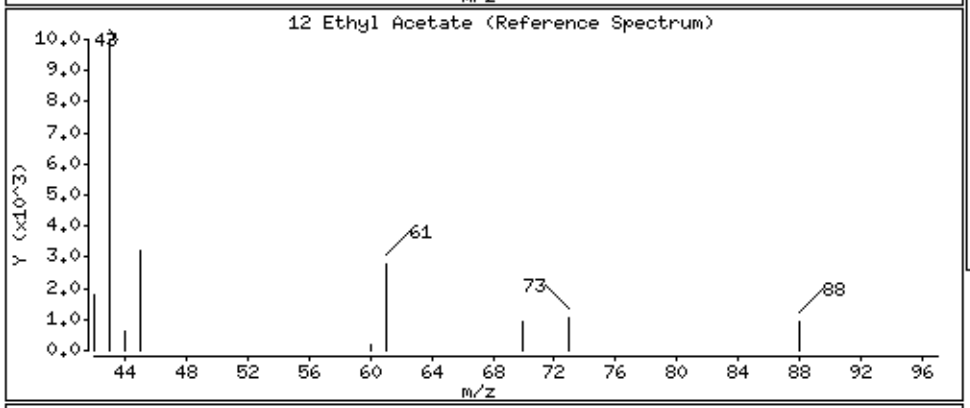
Concentration: 9.58831 ug

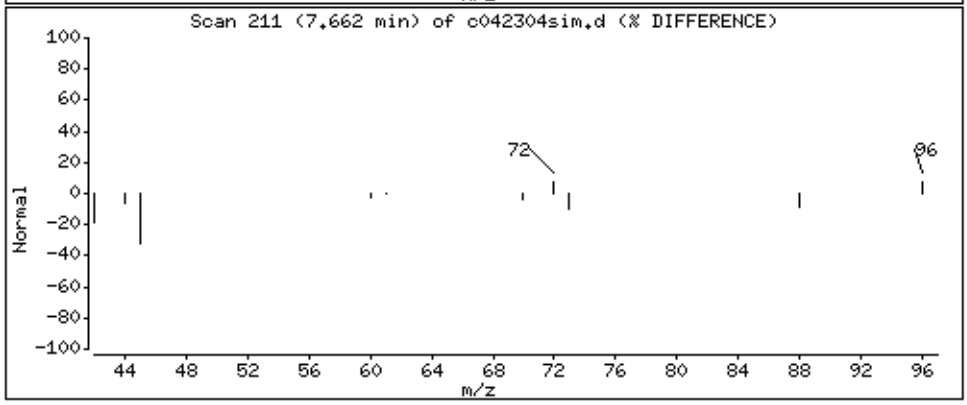












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

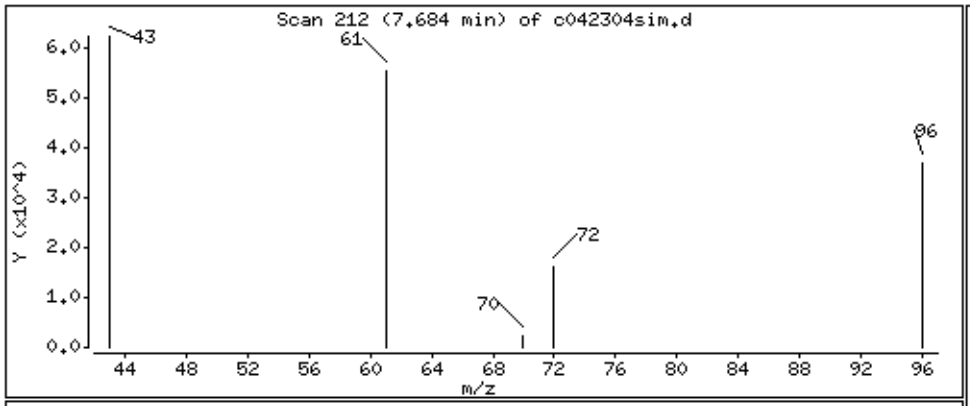
Operator: gm

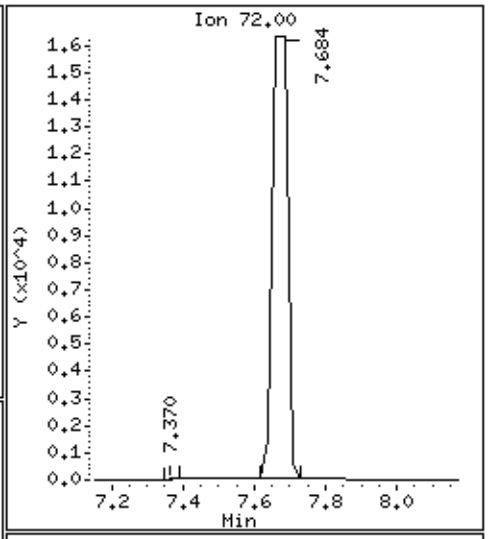
Column phase: DB-5.625

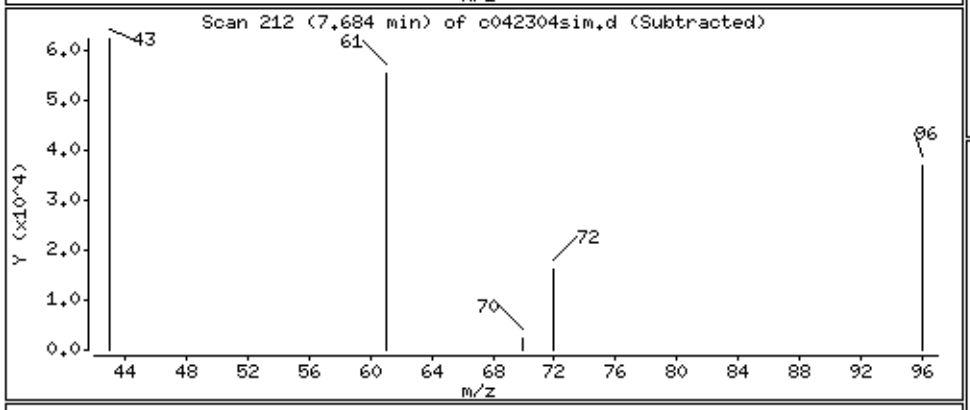
Column diameter: 0.25

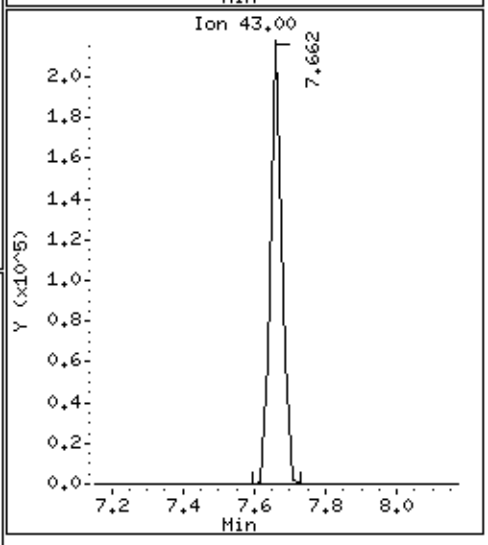
13 2-Butanone

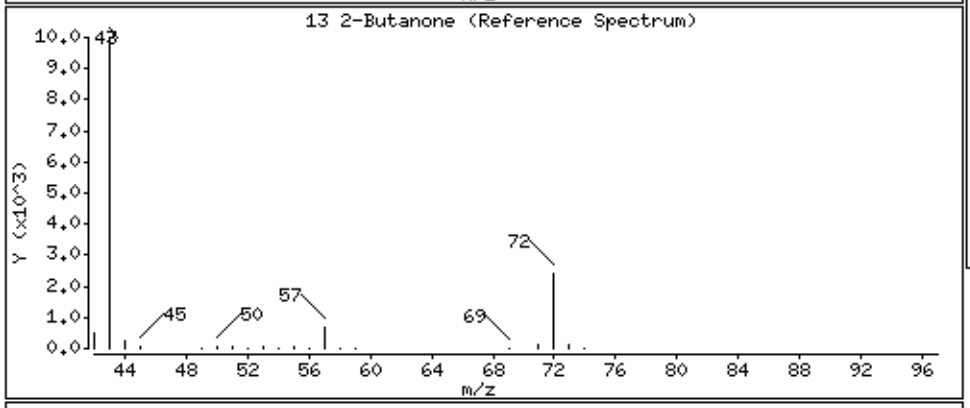
Concentration: 9.06466 ug

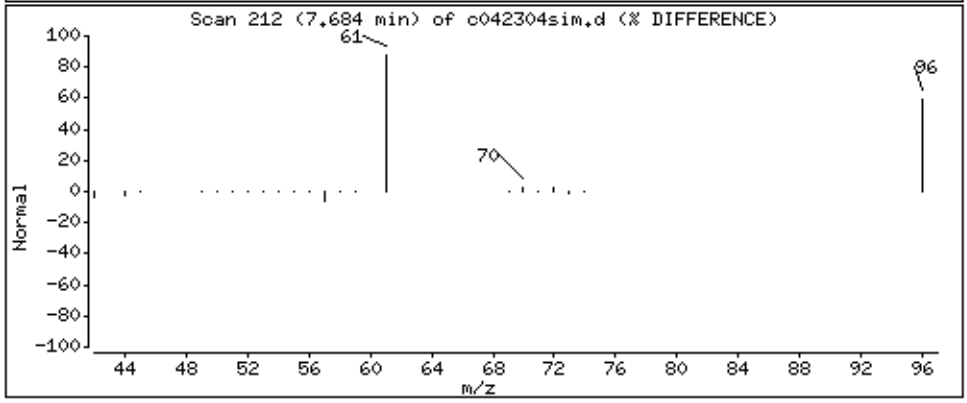












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

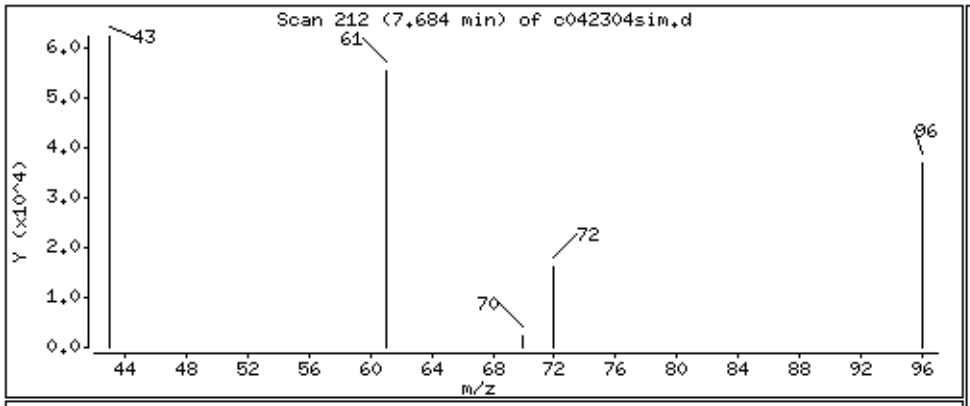
Operator: gm

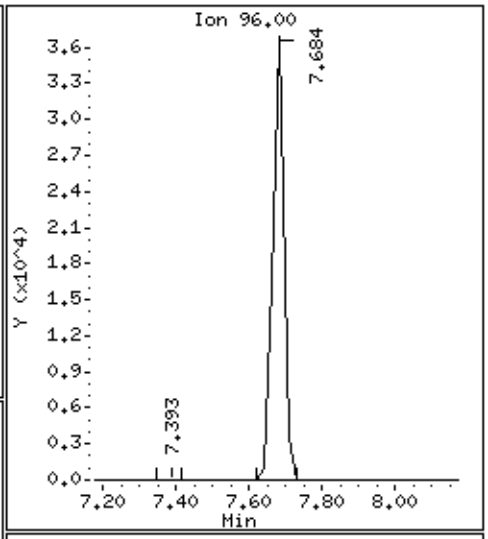
Column phase: DB-5.625

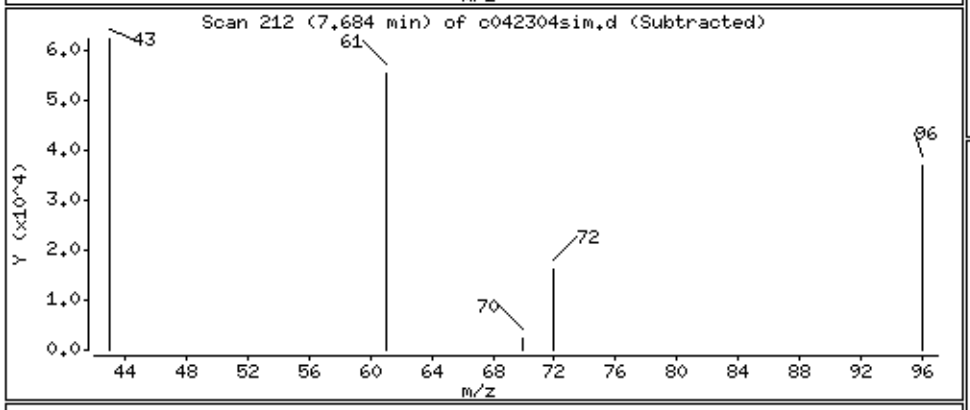
Column diameter: 0.25

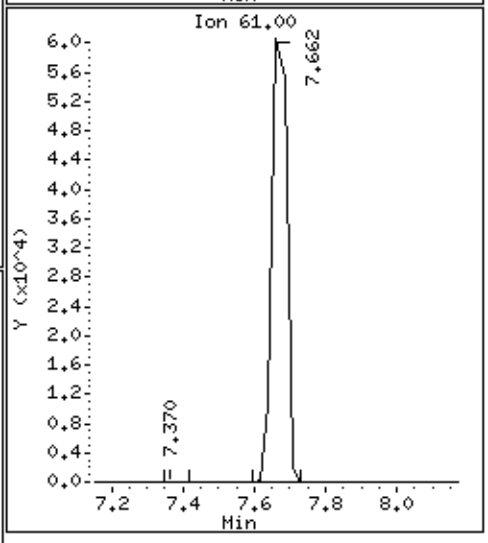
14 cis-1,2-Dichloroethene

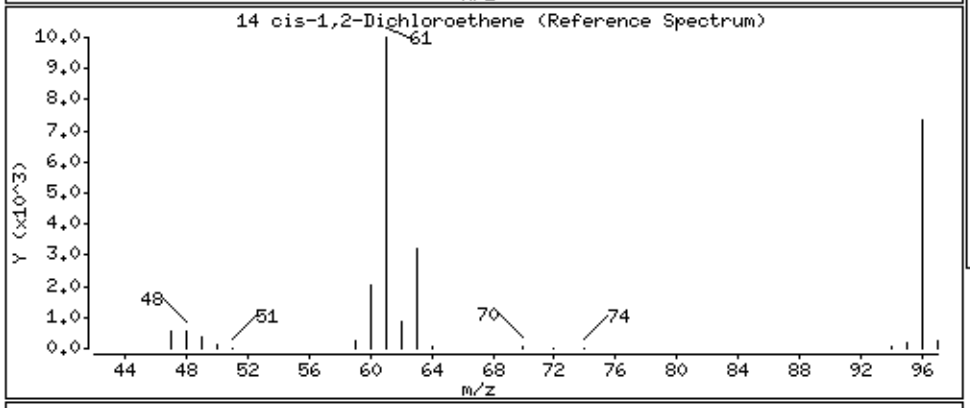
Concentration: 9.24573 ug

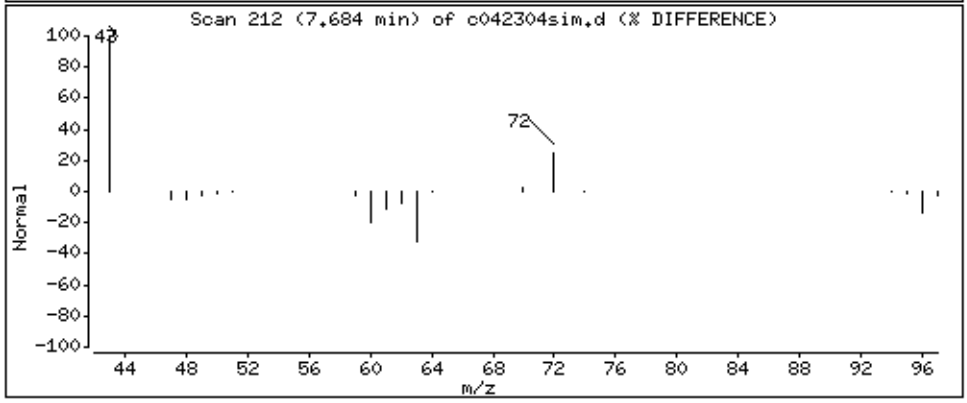












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

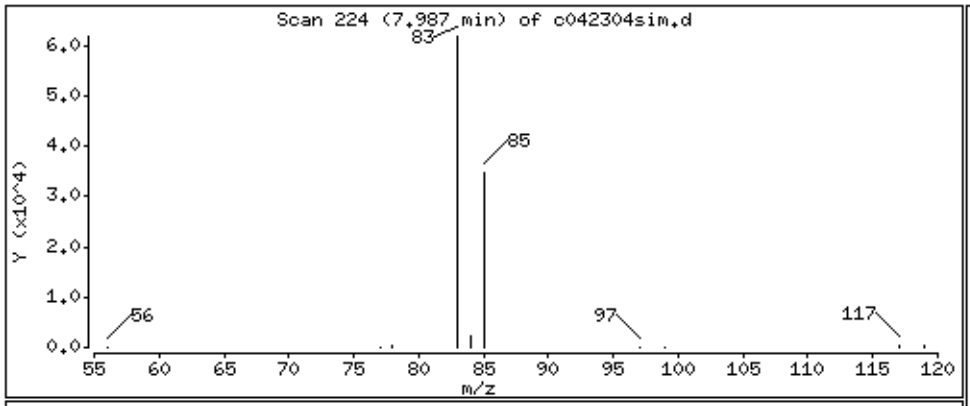
Operator: gm

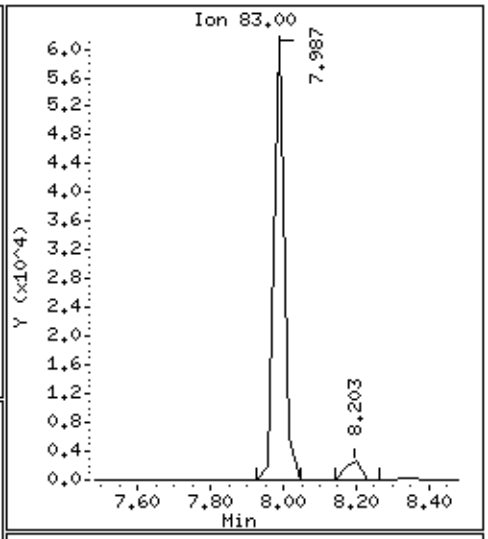
Column phase: DB-5.625

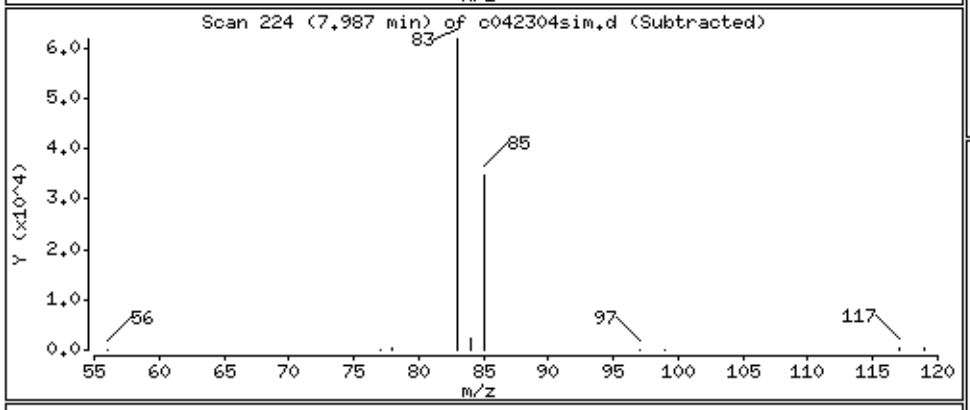
Column diameter: 0.25

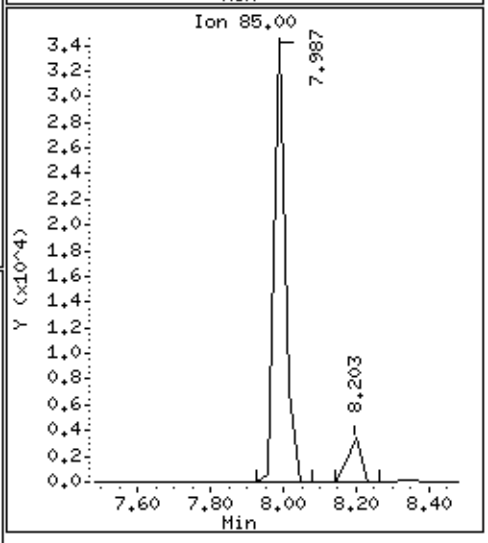
15 Chloroform-CCC

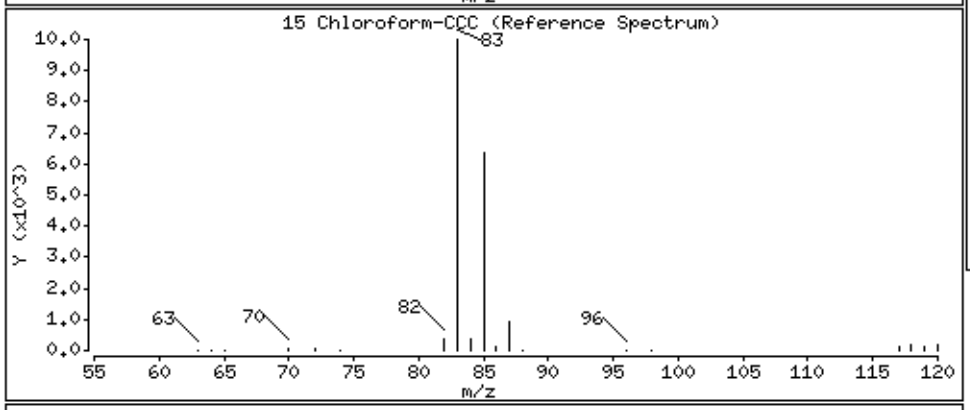
Concentration: 9.01035 ug

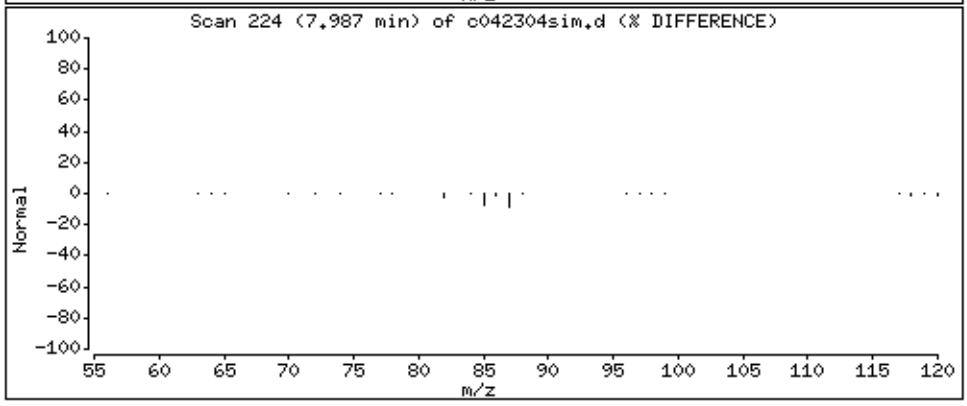












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

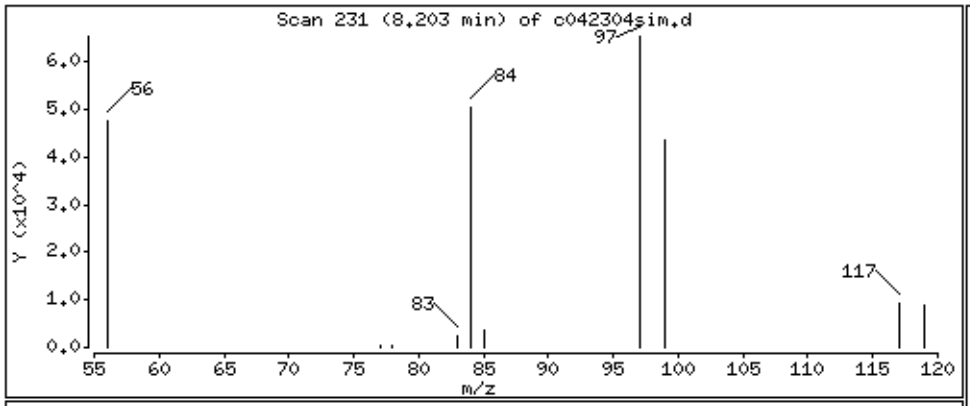
Operator: gm

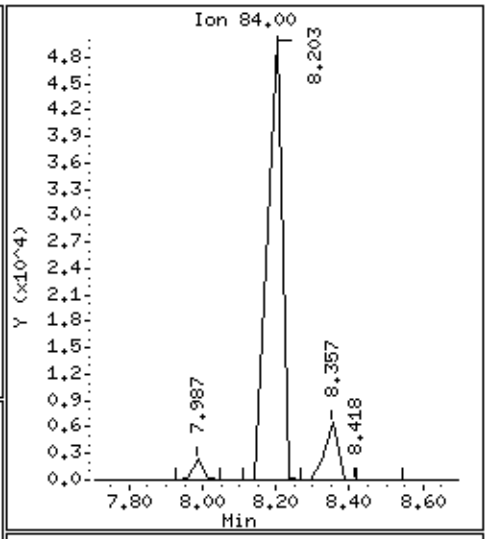
Column phase: DB-5.625

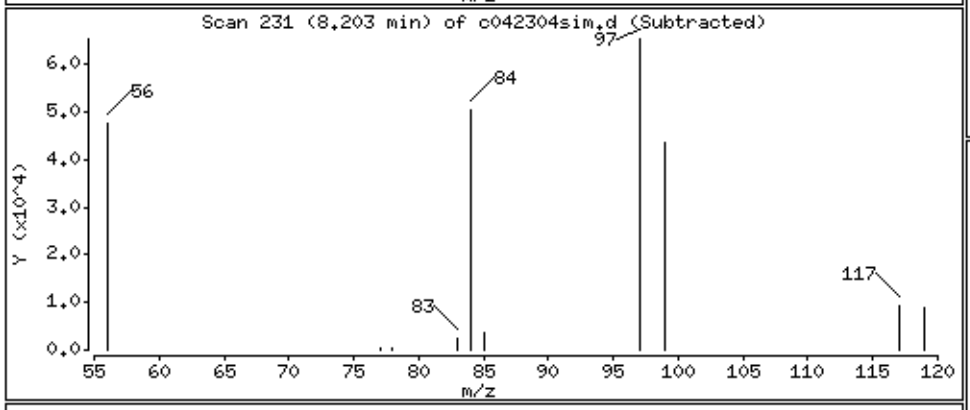
Column diameter: 0.25

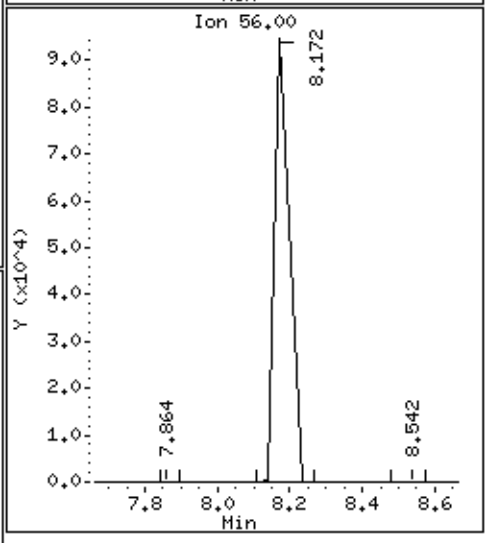
16 Cyclohexane

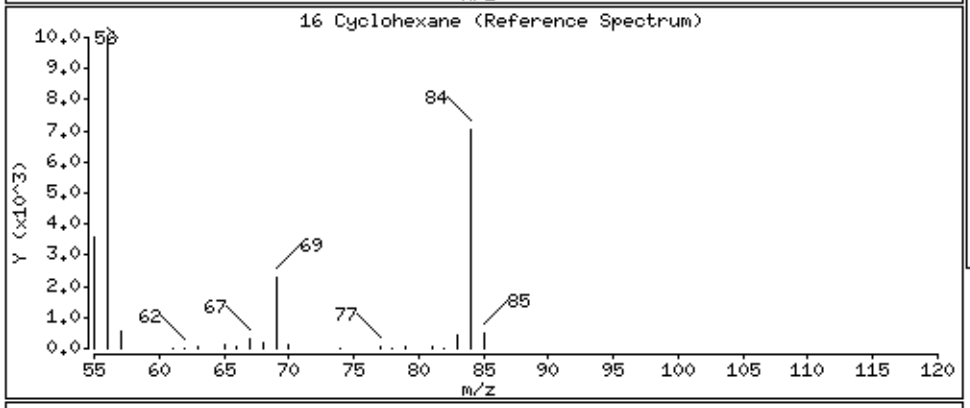
Concentration: 9.71129 ug

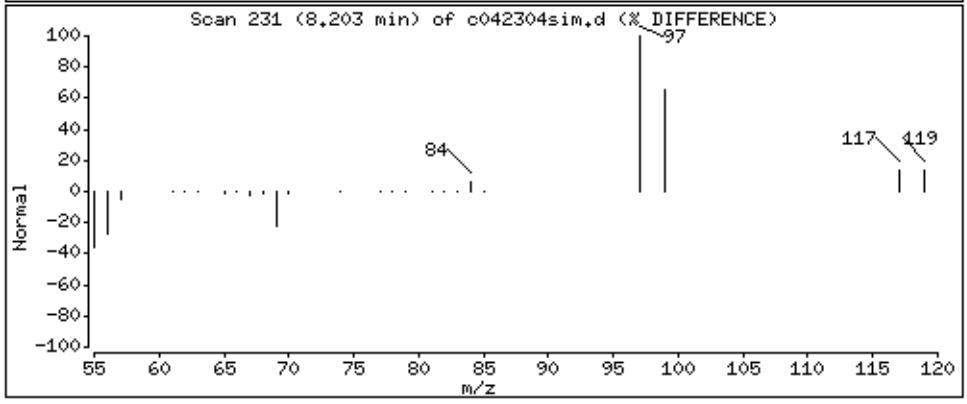












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

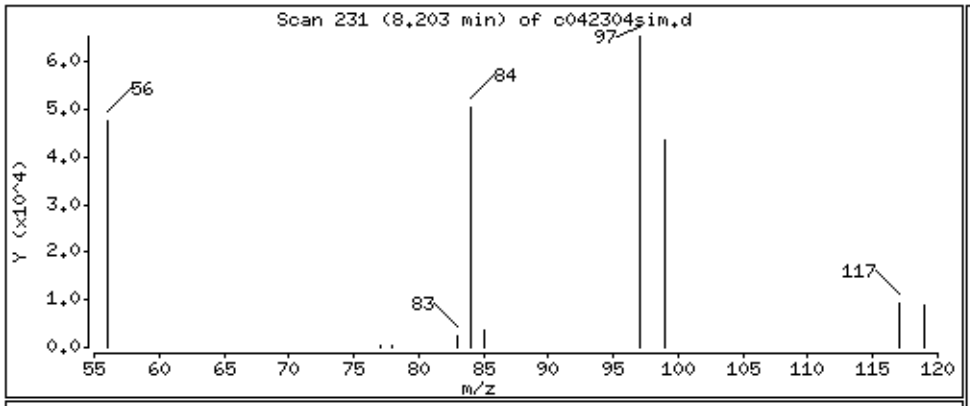
Operator: gm

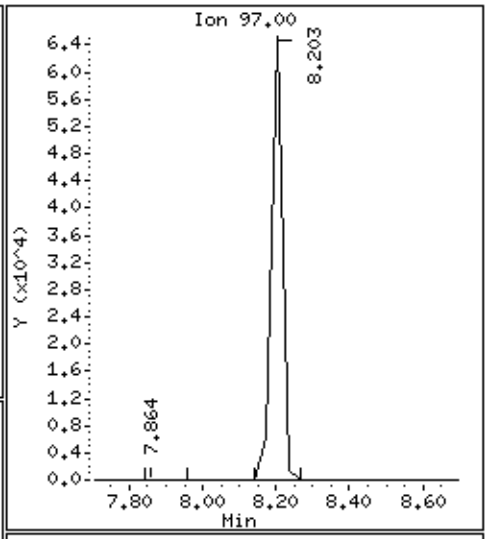
Column phase: DB-5.625

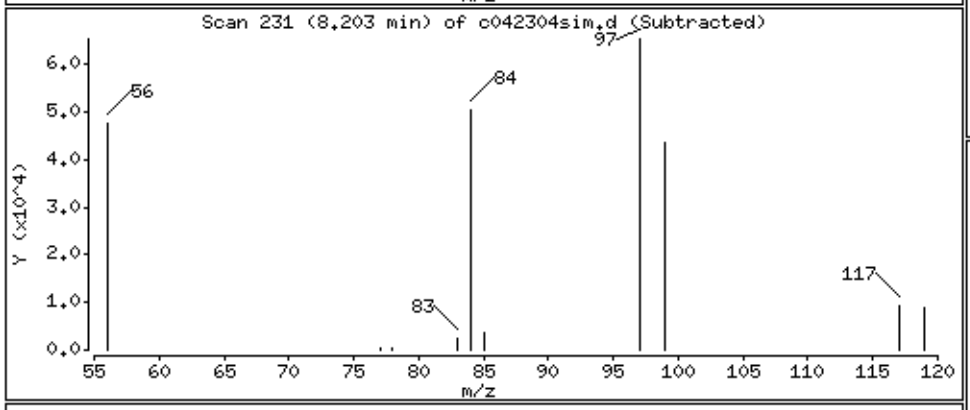
Column diameter: 0.25

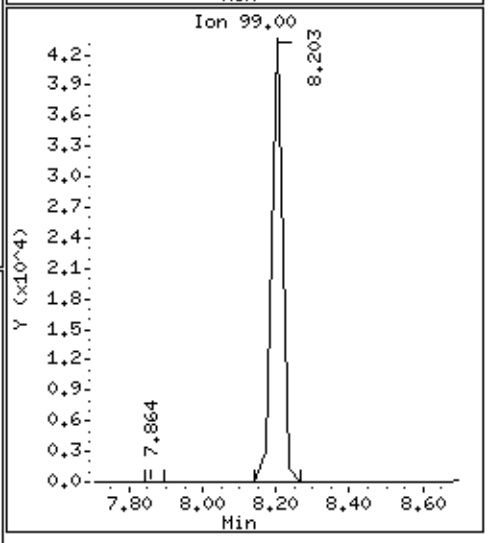
17 1,1,1-Trichloroethane

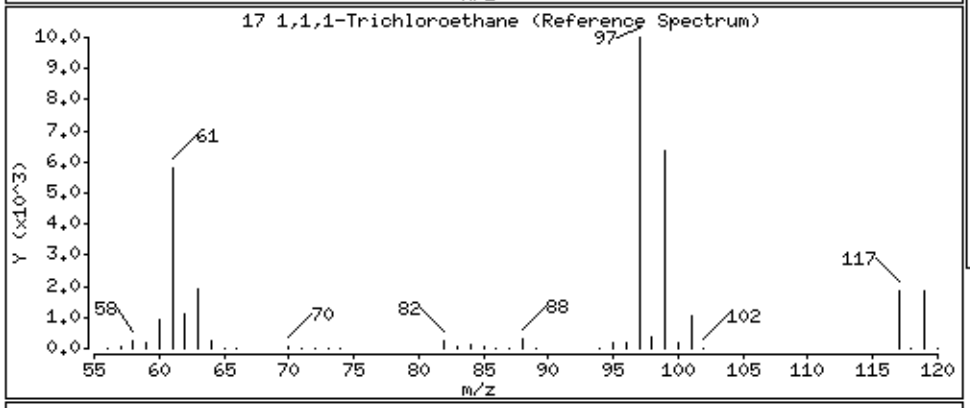
Concentration: 10.1980 ug

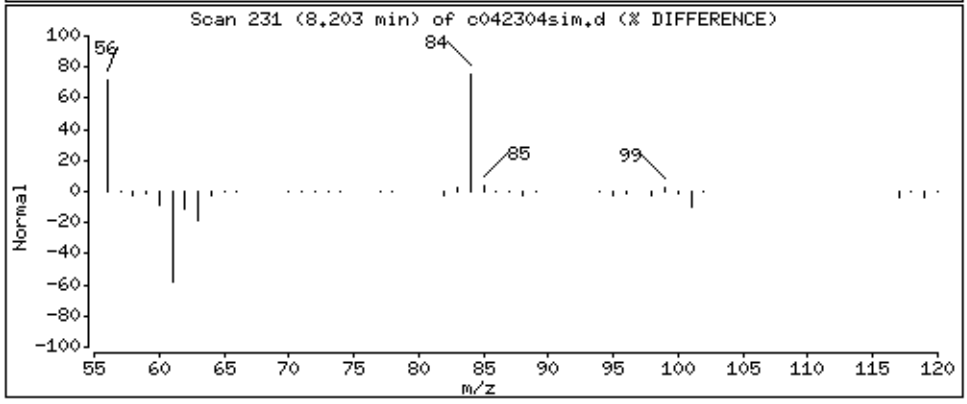












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

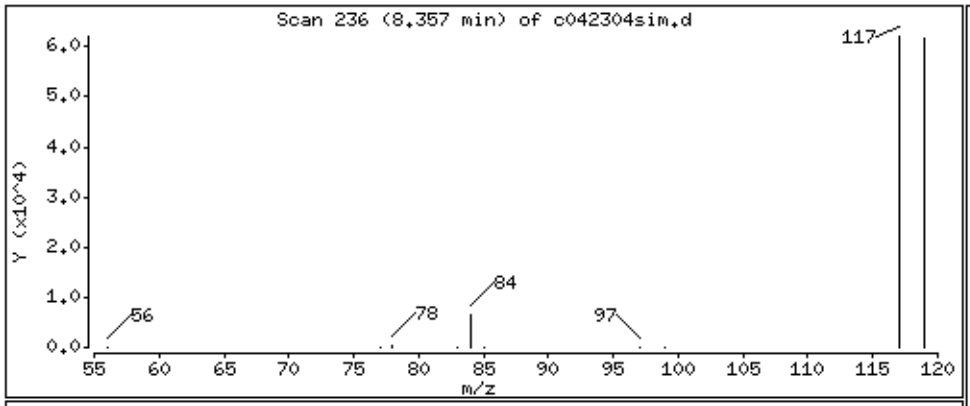
Operator: gm

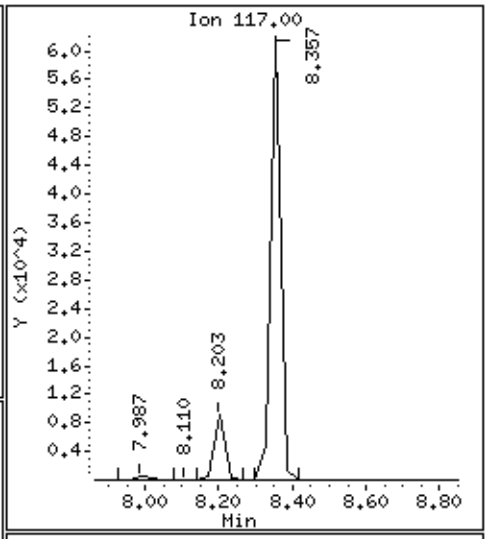
Column phase: DB-5.625

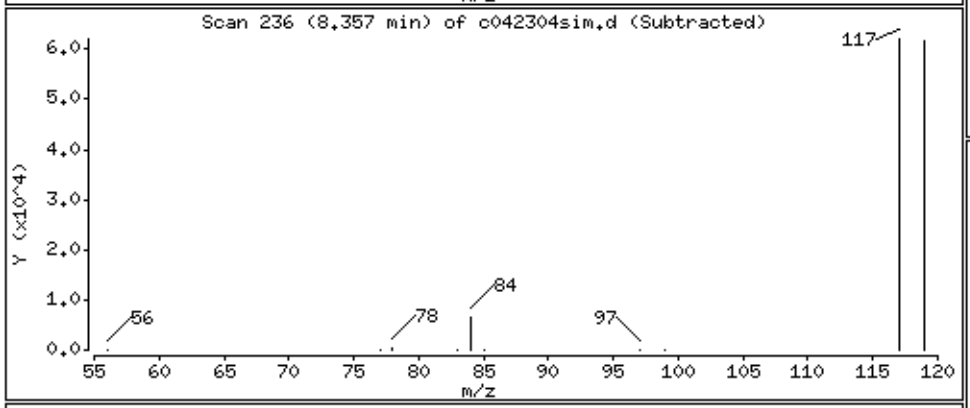
Column diameter: 0.25

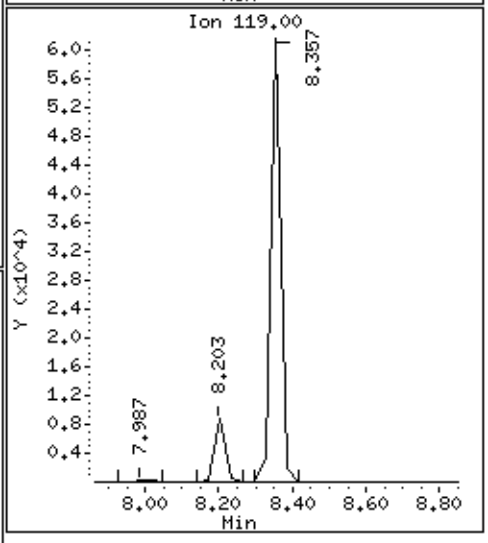
18 Carbon Tetrachloride

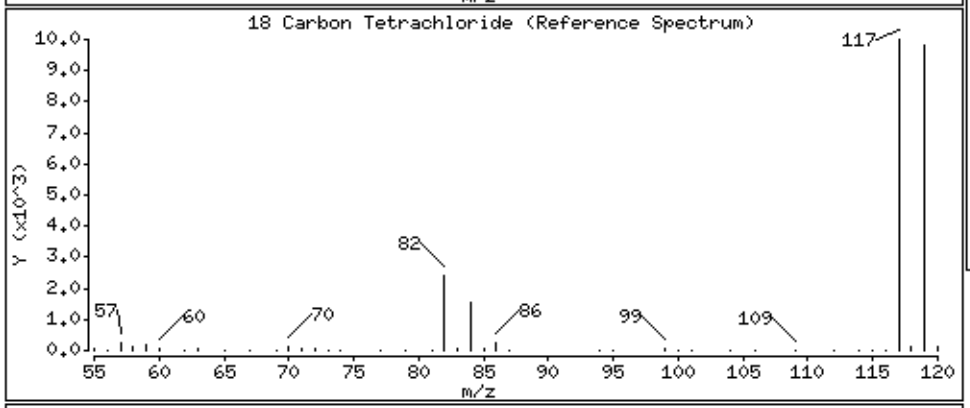
Concentration: 9.50018 ug

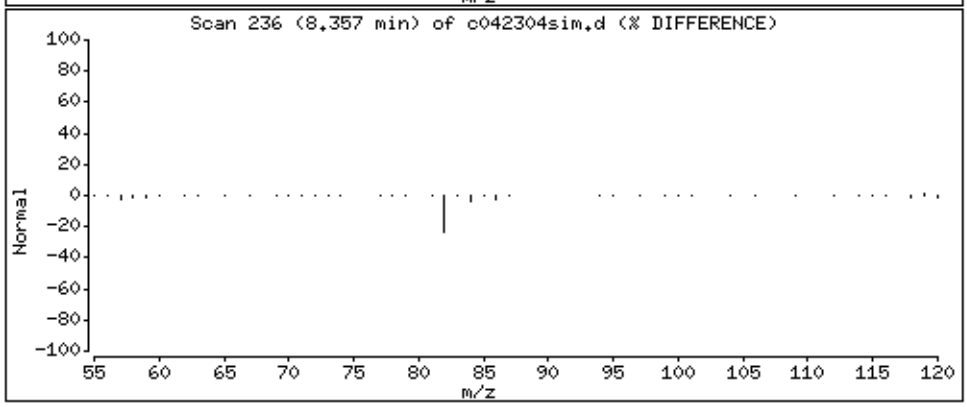












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

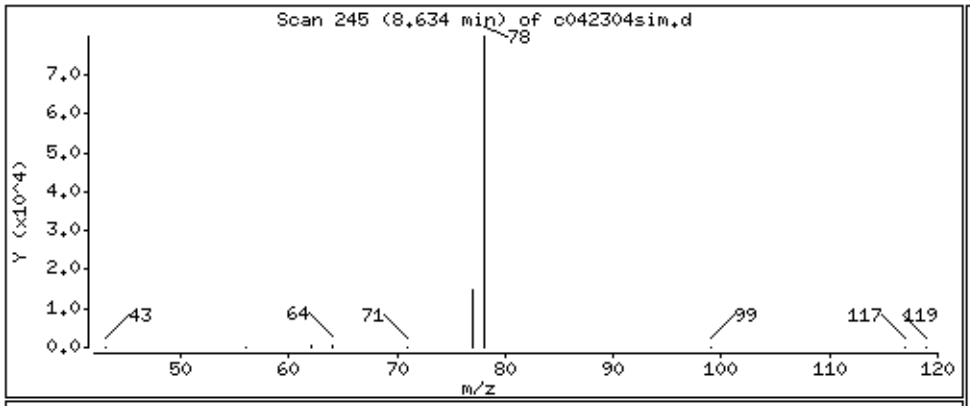
Operator: gm

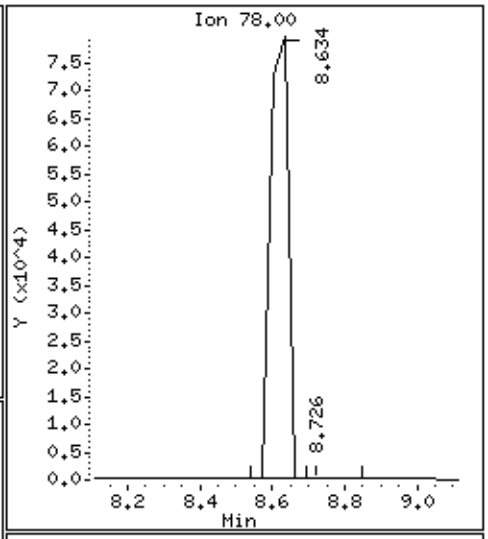
Column phase: DB-5.625

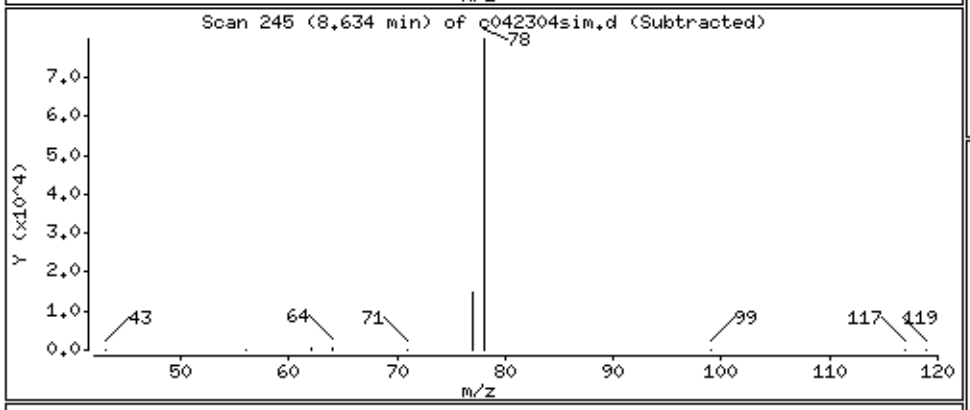
Column diameter: 0.25

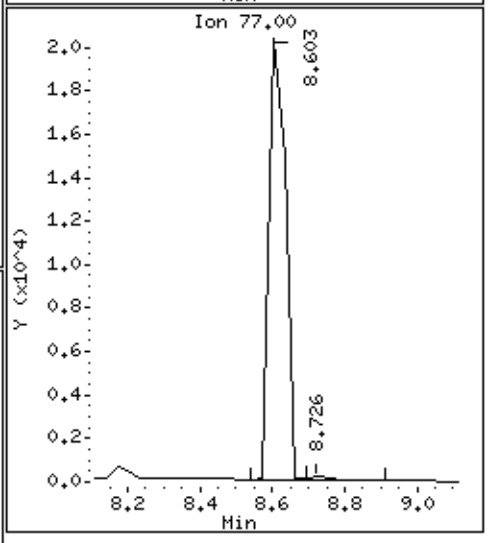
19 Benzene

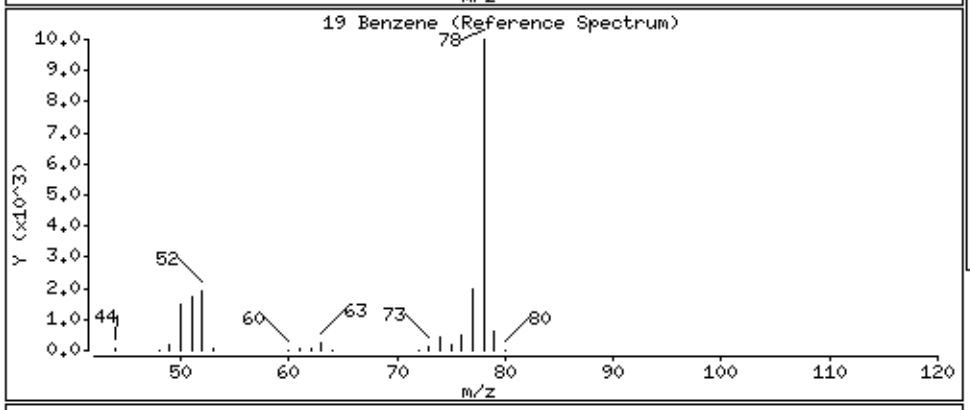
Concentration: 8.72455 ug

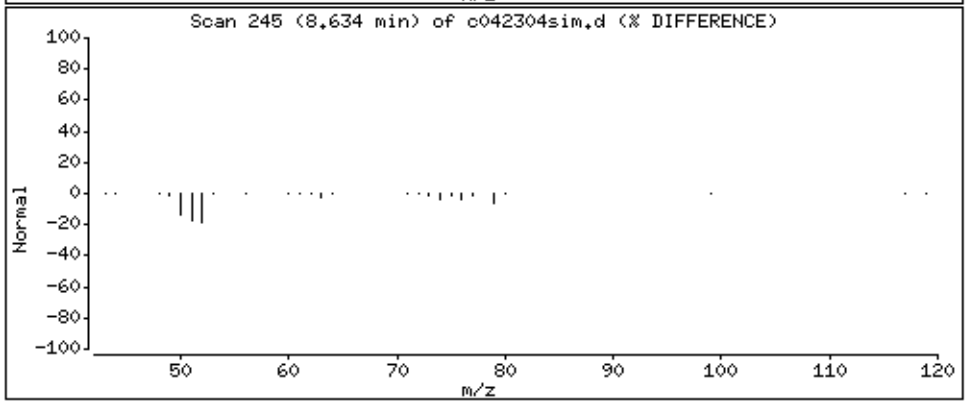












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

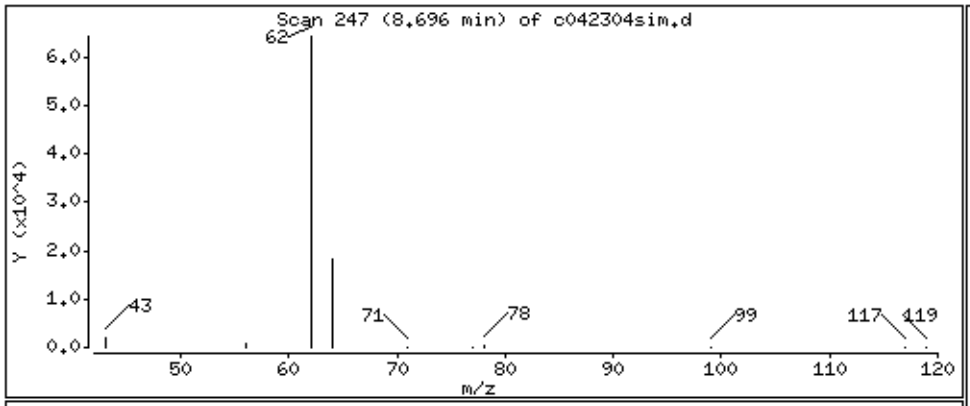
Operator: gm

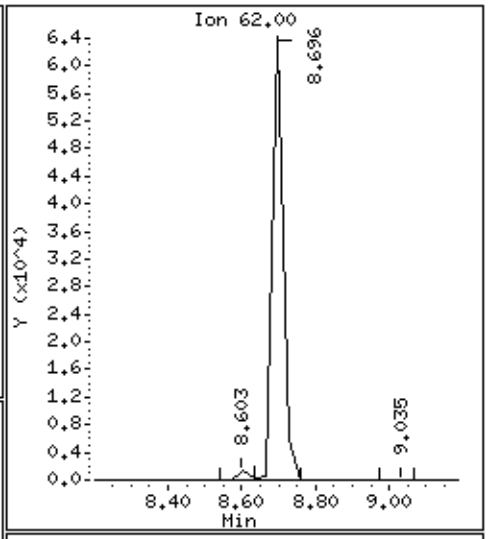
Column phase: DB-5.625

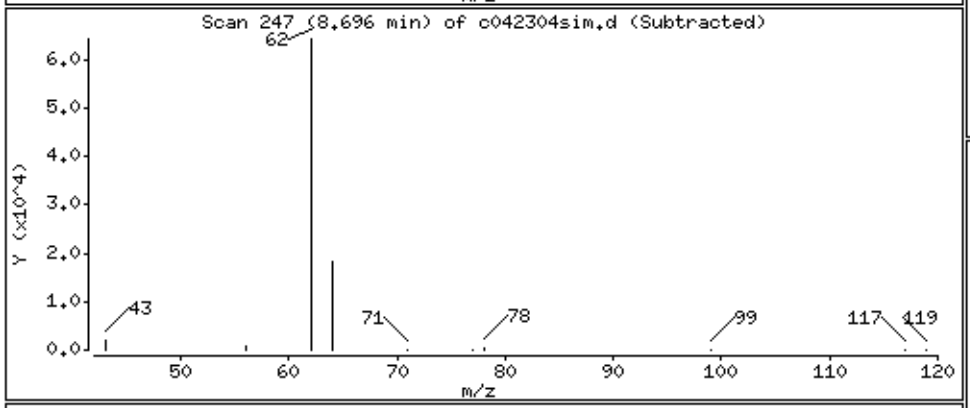
Column diameter: 0.25

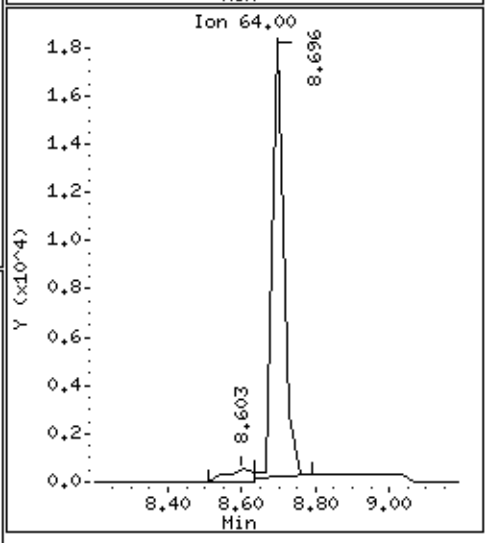
20 1,2-Dichloroethane

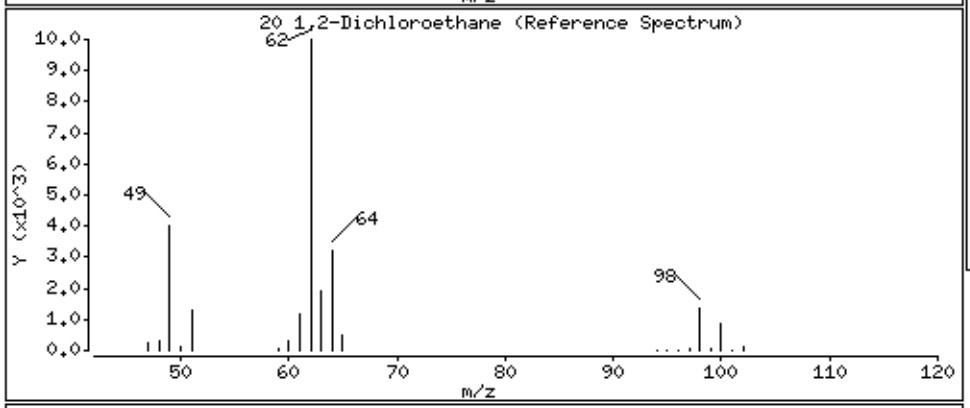
Concentration: 8.81647 ug

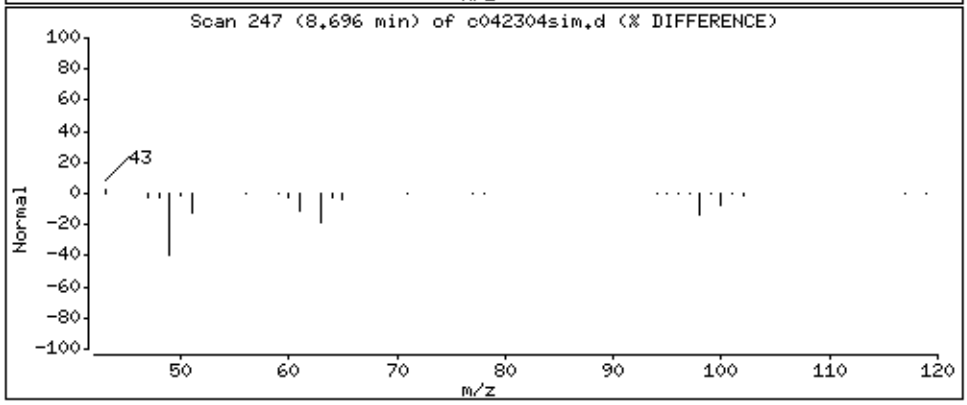












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

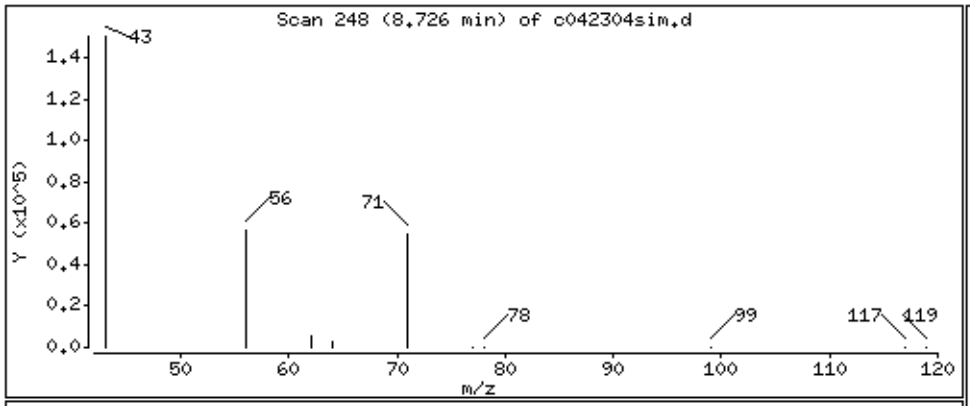
Operator: gm

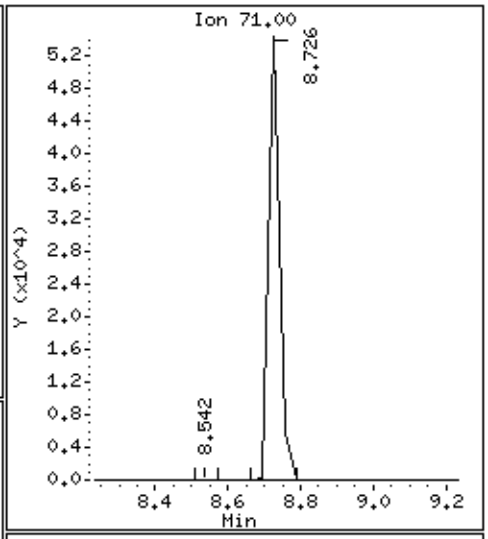
Column phase: DB-5.625

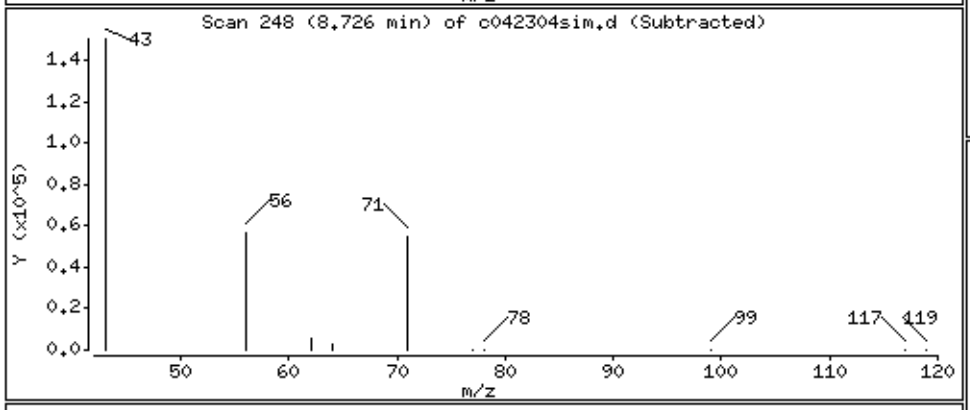
Column diameter: 0.25

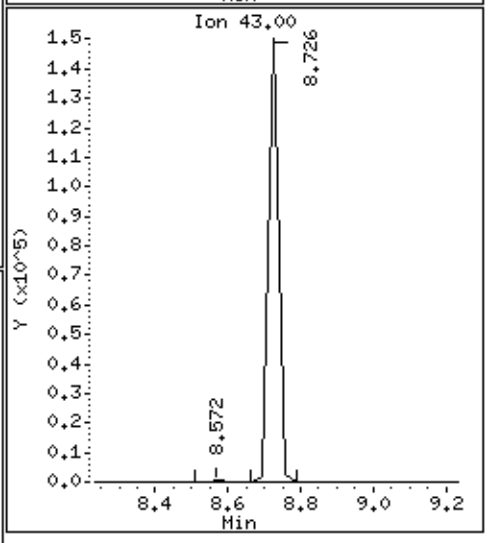
21 Heptane

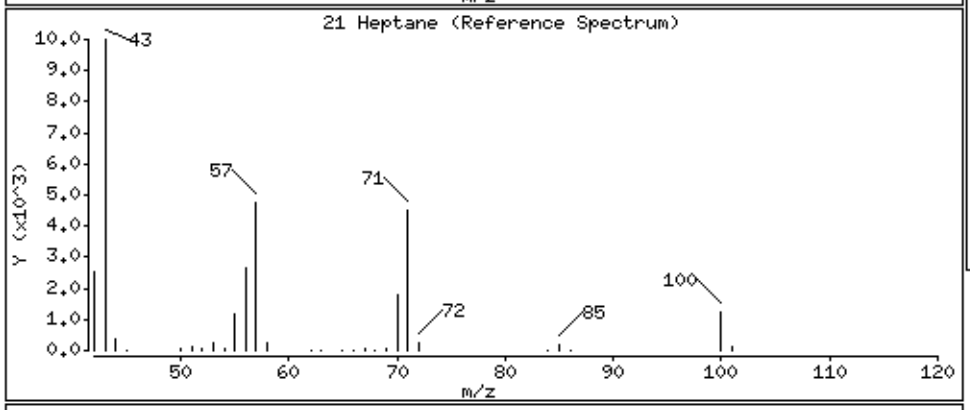
Concentration: 9.23254 ug

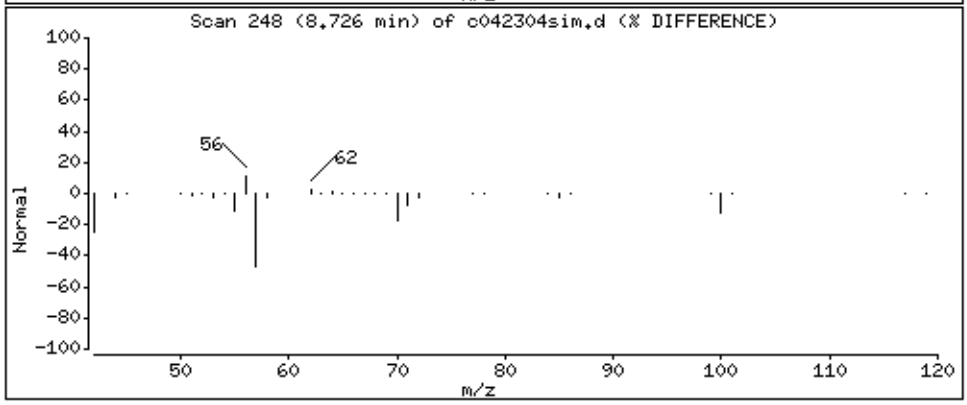












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

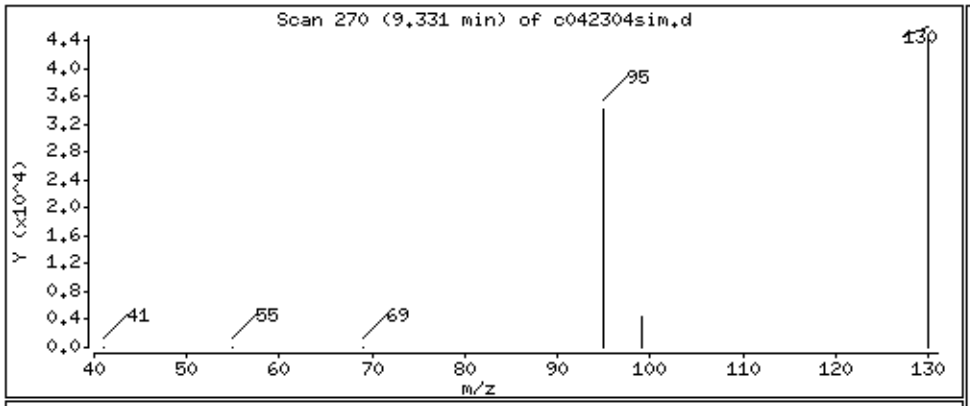
Operator: gm

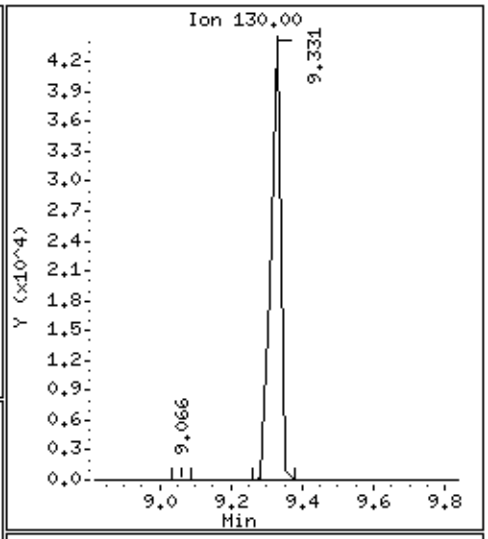
Column phase: DB-5.625

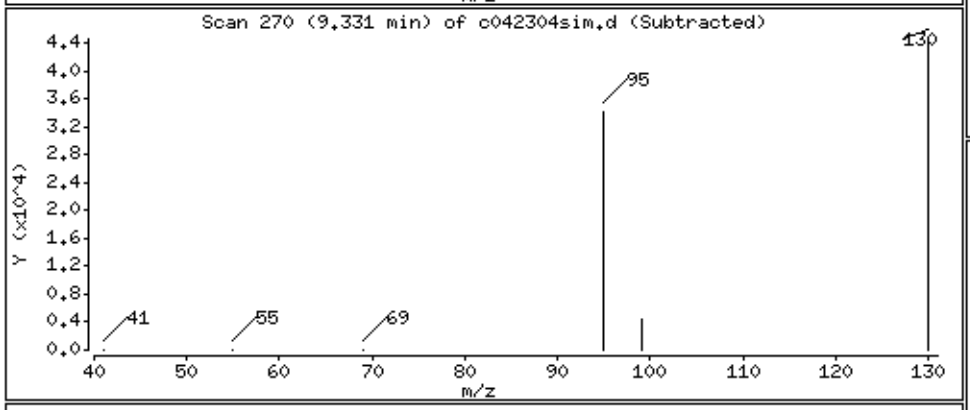
Column diameter: 0.25

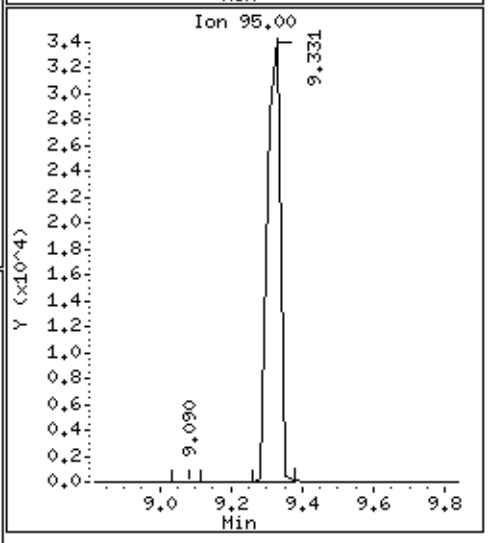
22 Trichloroethene

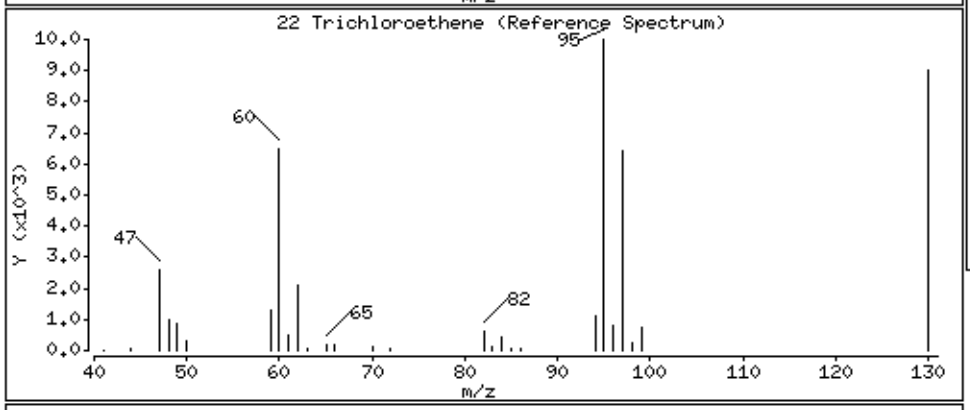
Concentration: 8.73052 ug

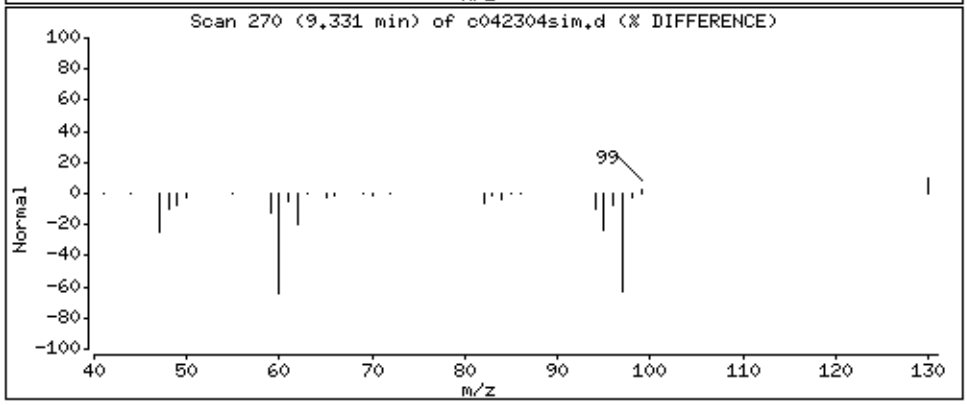












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

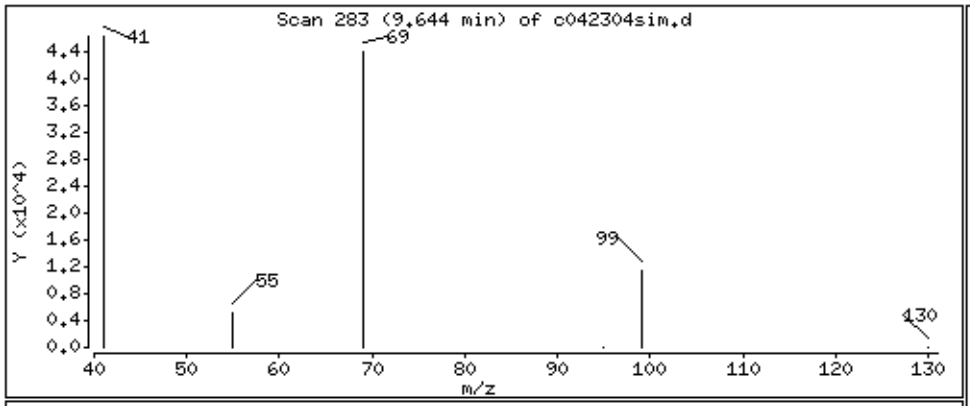
Operator: gm

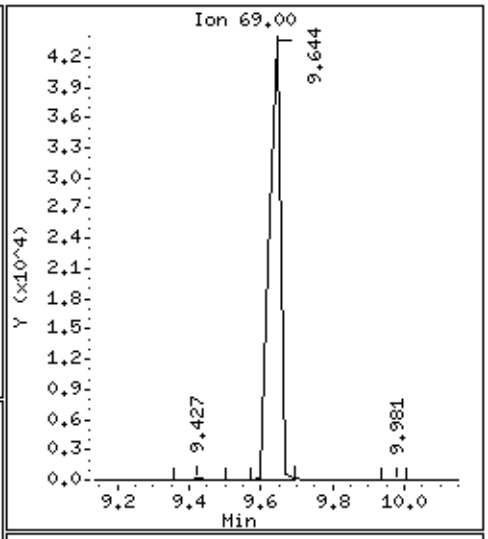
Column phase: DB-5.625

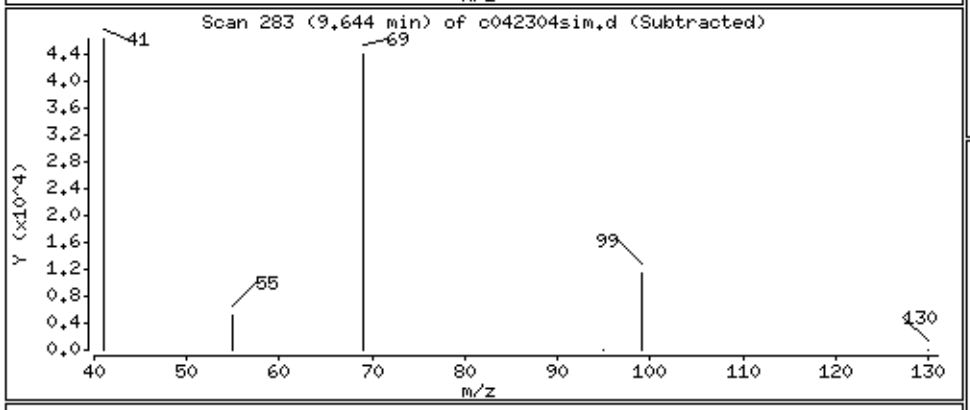
Column diameter: 0.25

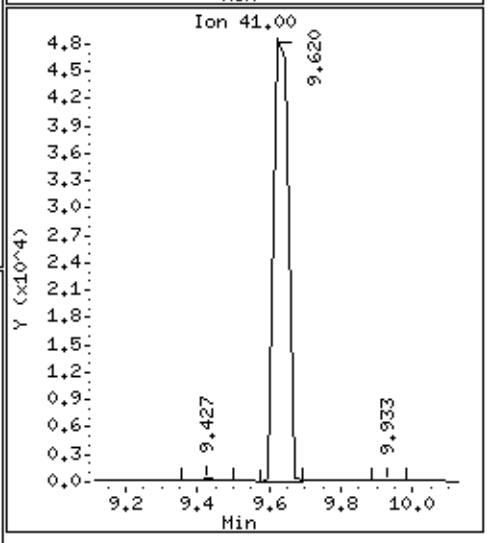
23 Methyl Methacrylate

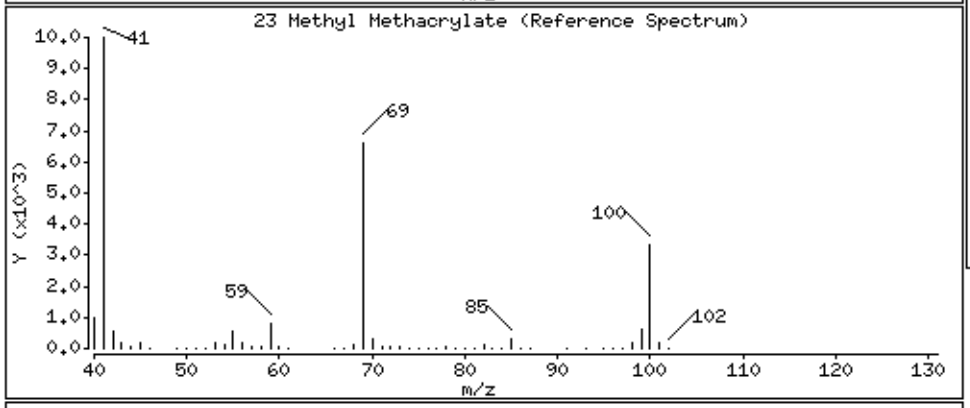
Concentration: 9.03686 ug

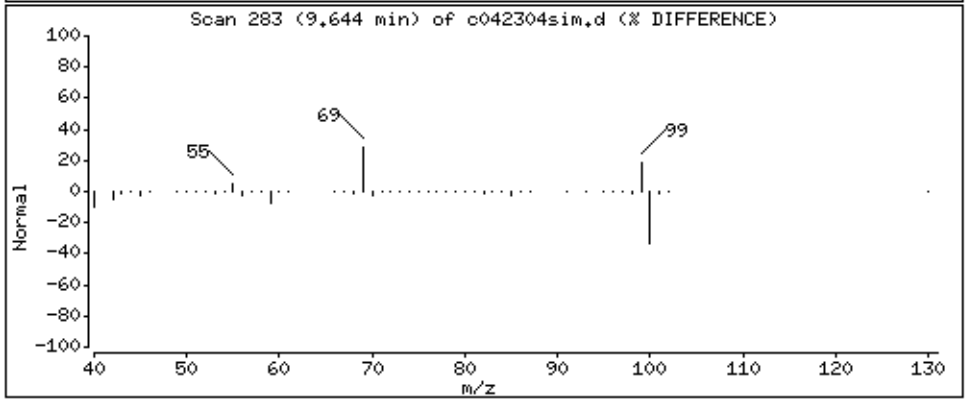












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

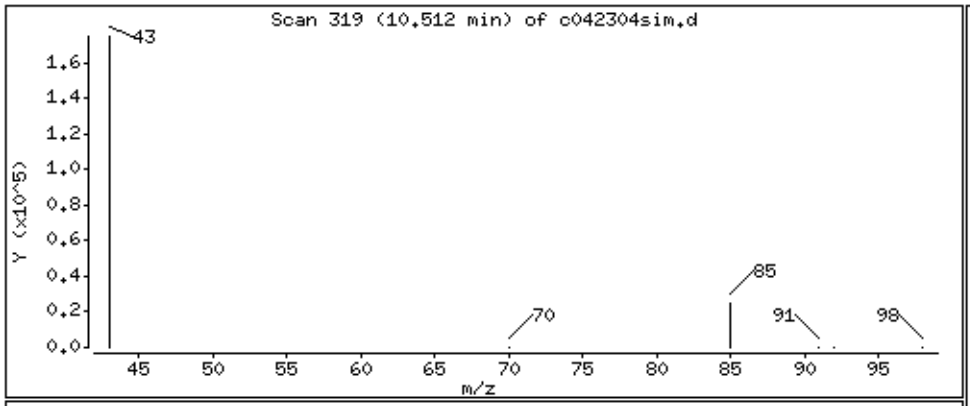
Operator: gm

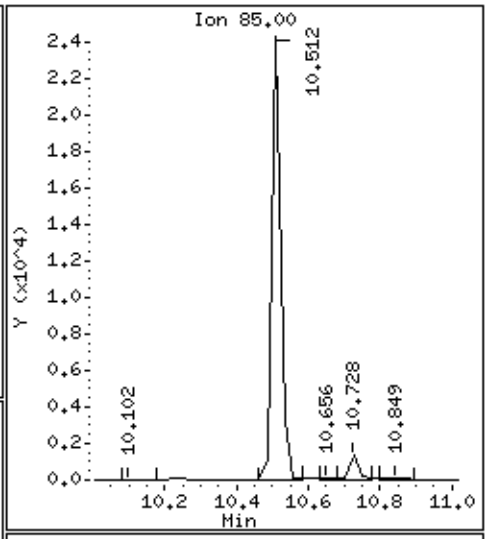
Column phase: DB-5.625

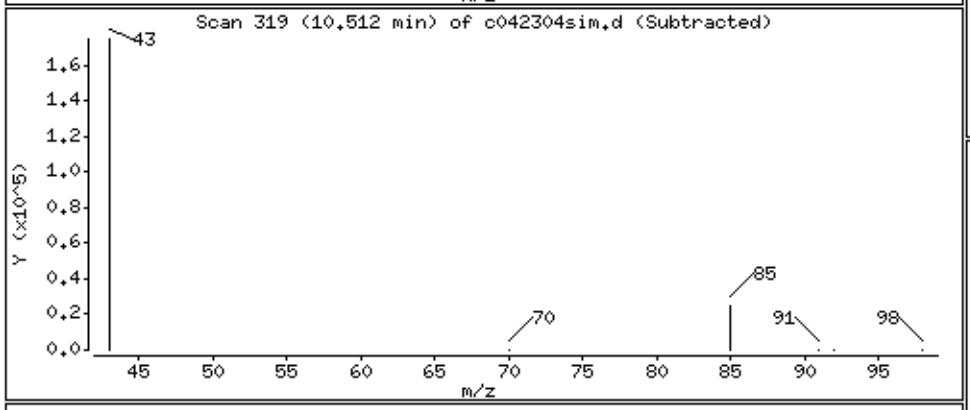
Column diameter: 0.25

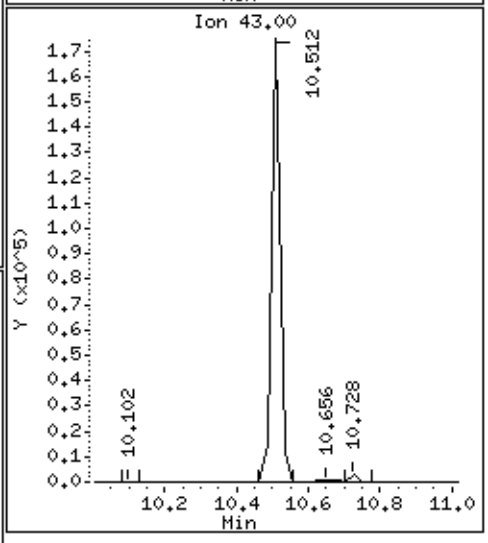
24 4-Methyl-2-pentanone

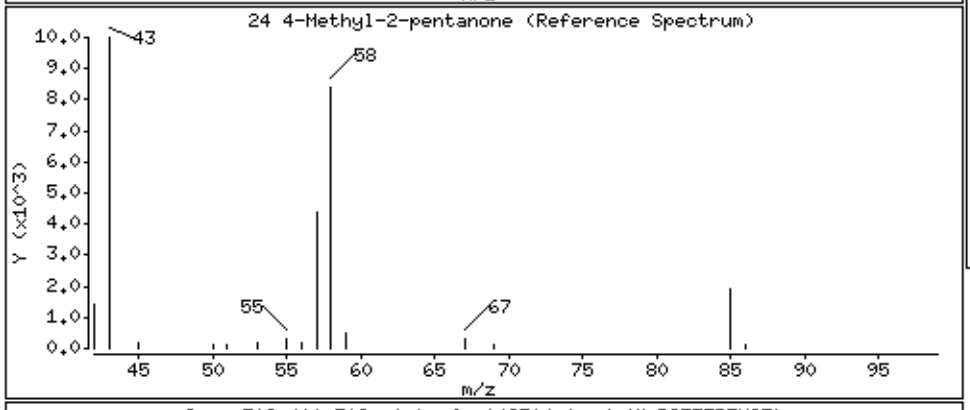
Concentration: 9.93014 ug

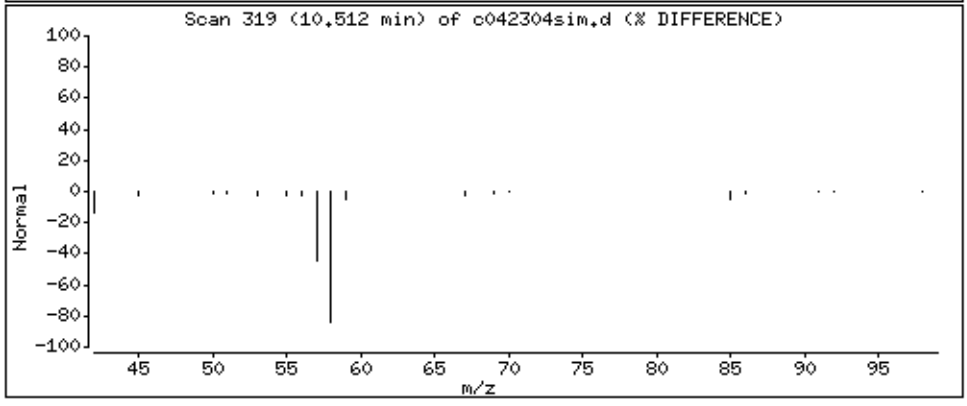












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

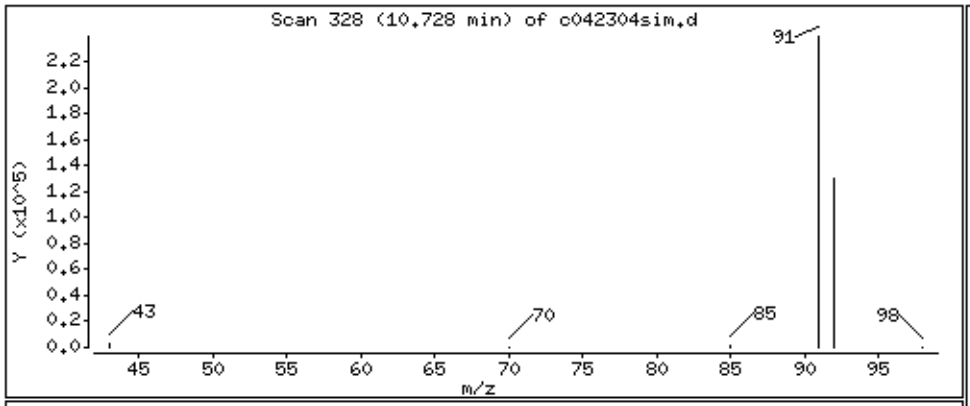
Operator: gm

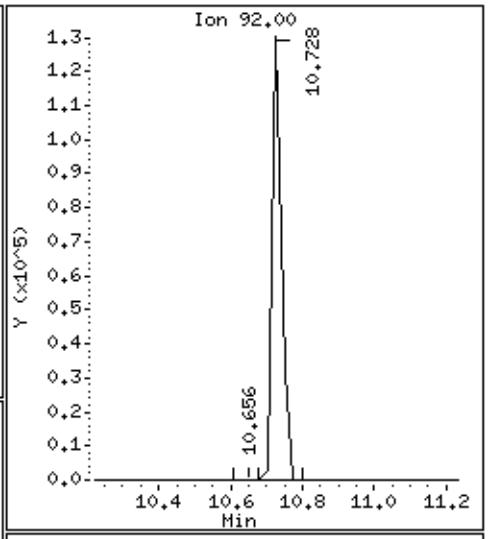
Column phase: DB-5.625

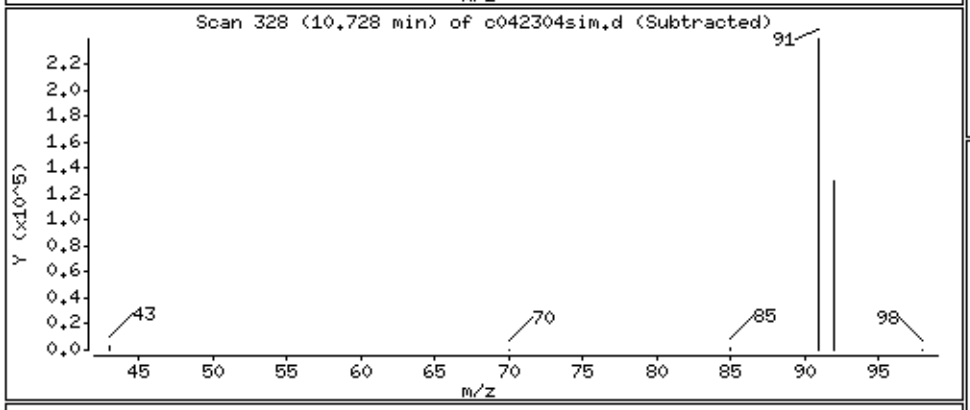
Column diameter: 0.25

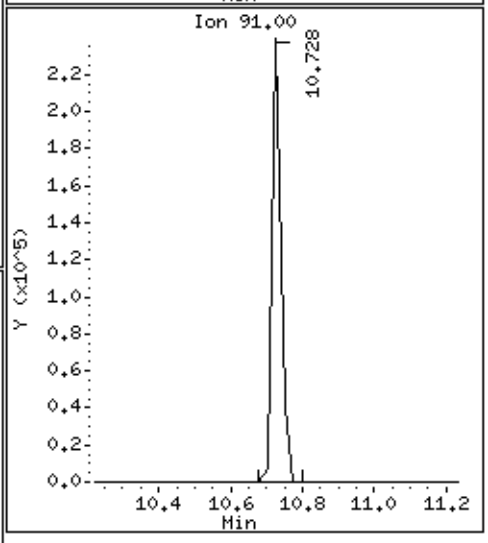
26 Toluene-CCC

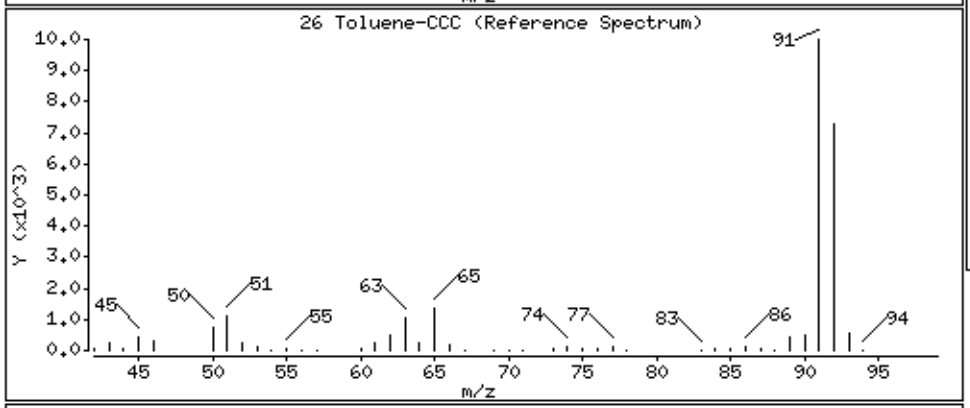
Concentration: 9.01514 ug

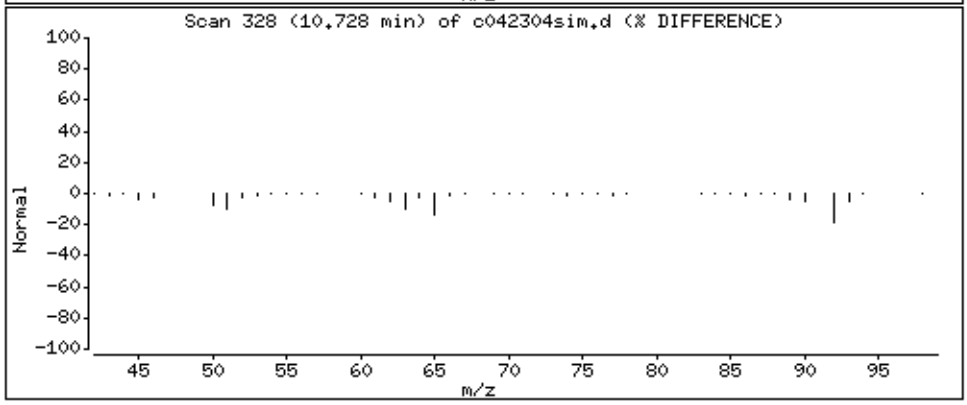












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

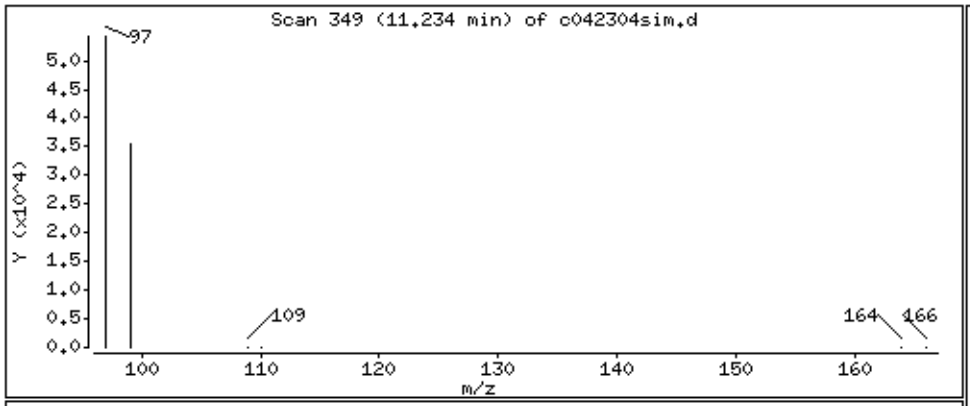
Operator: gm

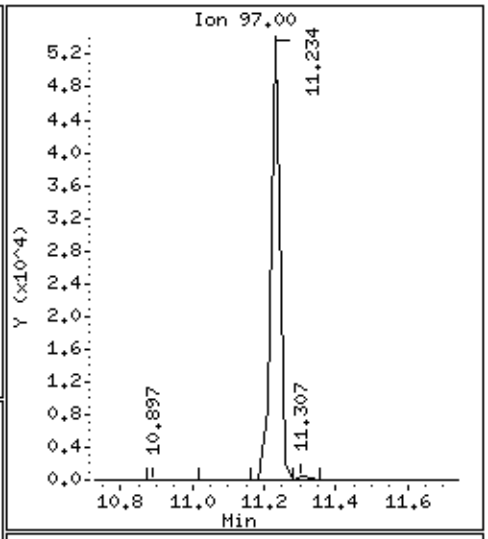
Column phase: DB-5.625

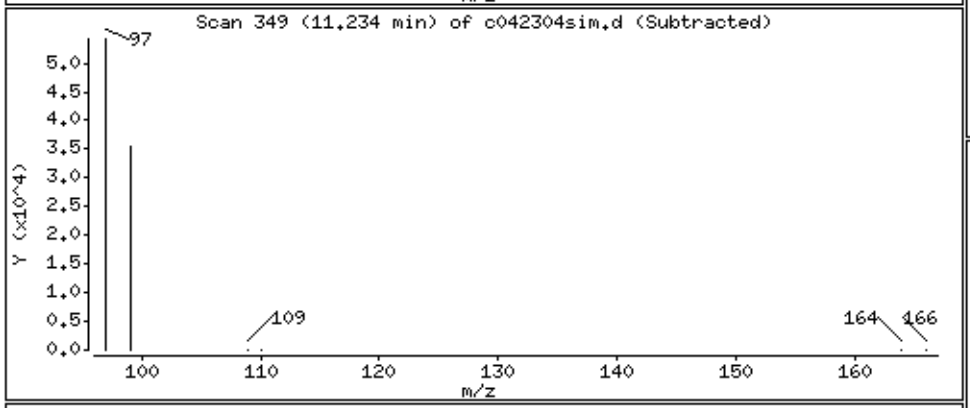
Column diameter: 0.25

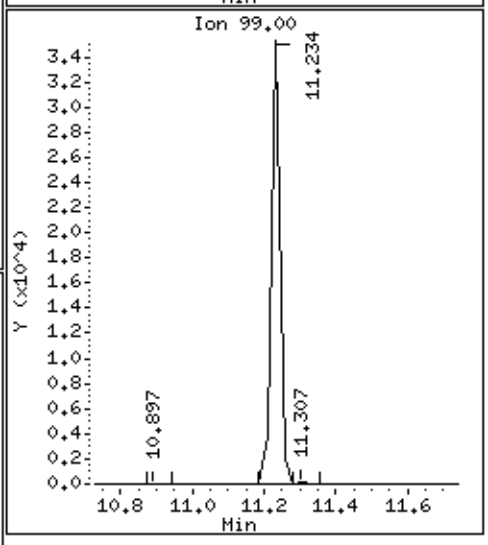
28 1,1,2-Trichloroethane

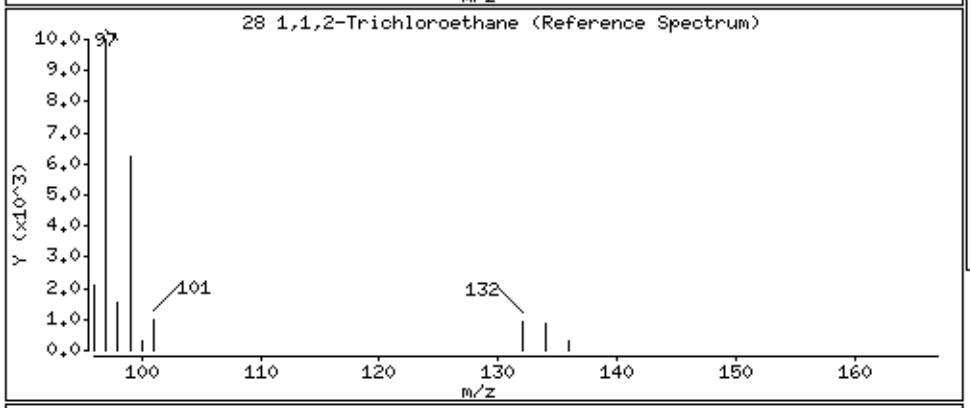
Concentration: 8.78588 ug

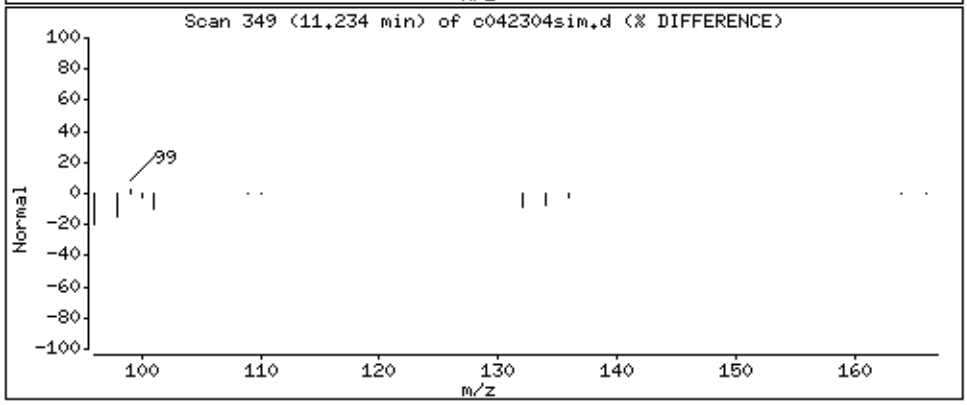












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

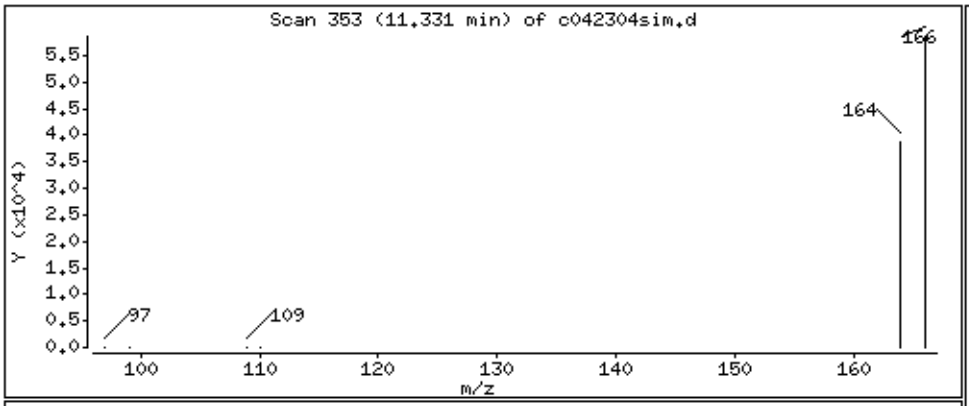
Operator: gm

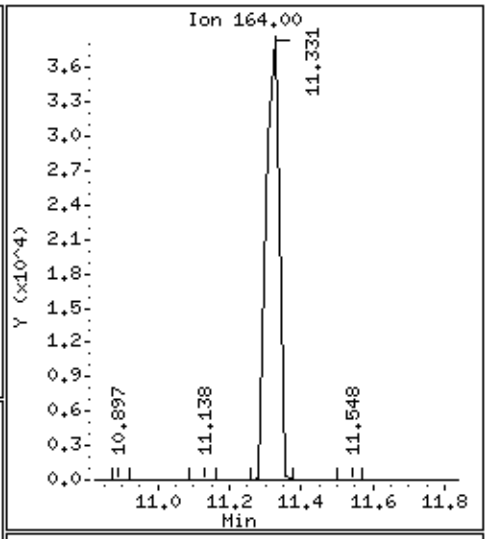
Column phase: DB-5.625

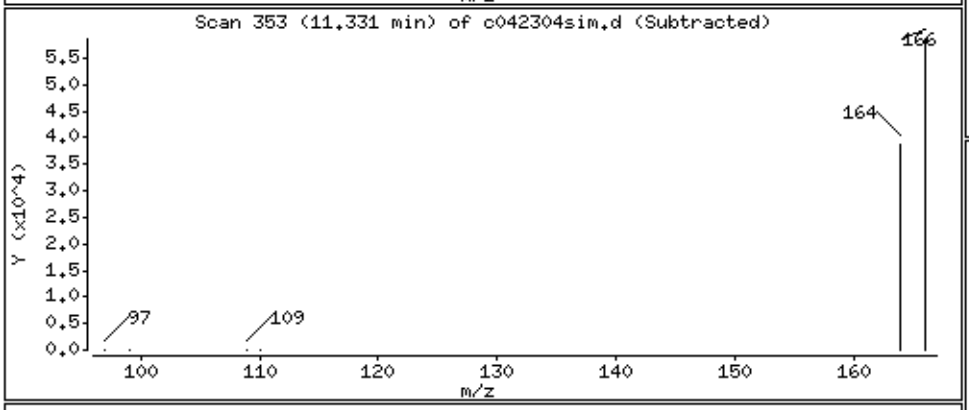
Column diameter: 0.25

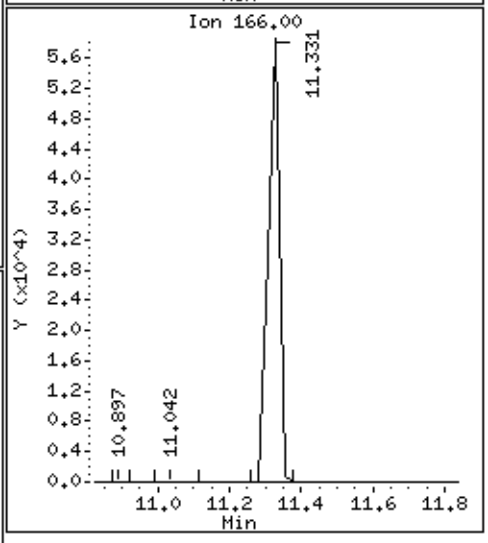
29 Tetrachloroethene

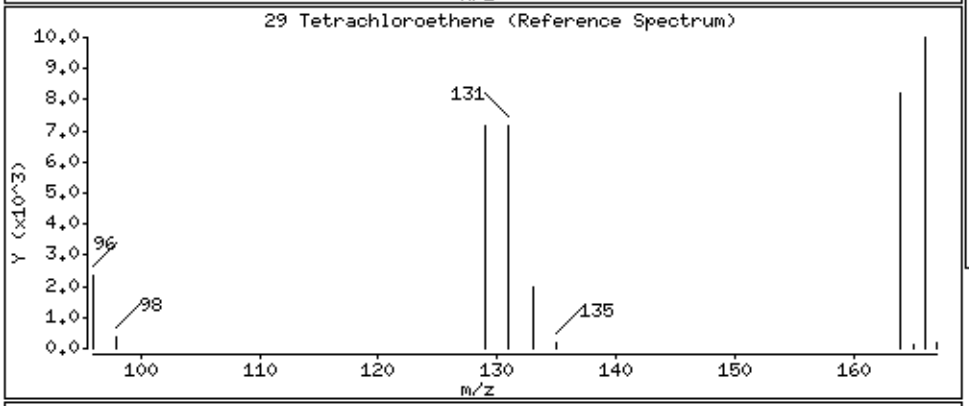
Concentration: 8.18532 ug

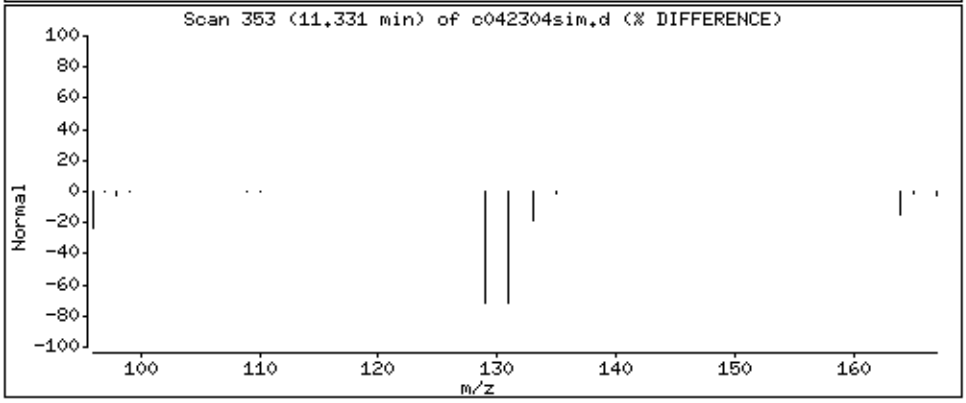












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

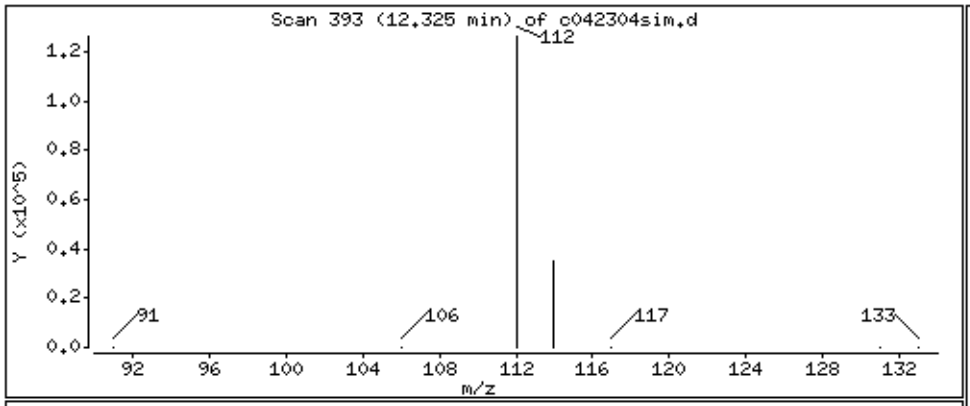
Operator: gm

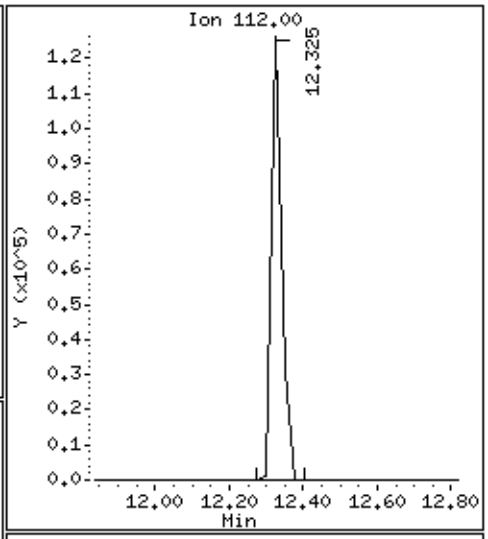
Column phase: DB-5.625

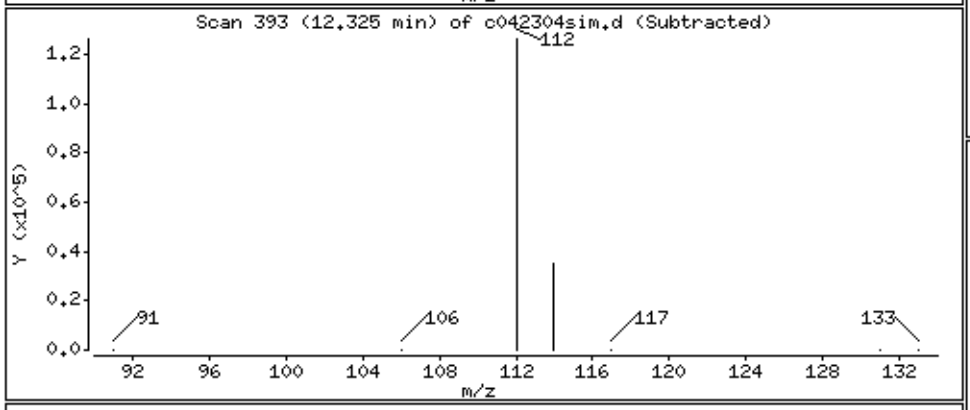
Column diameter: 0.25

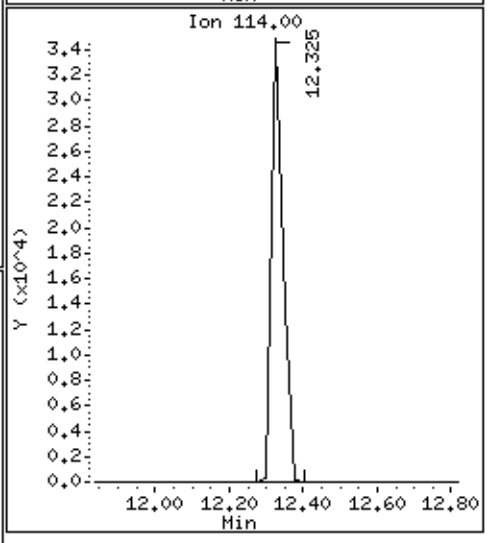
30 Chlorobenzene

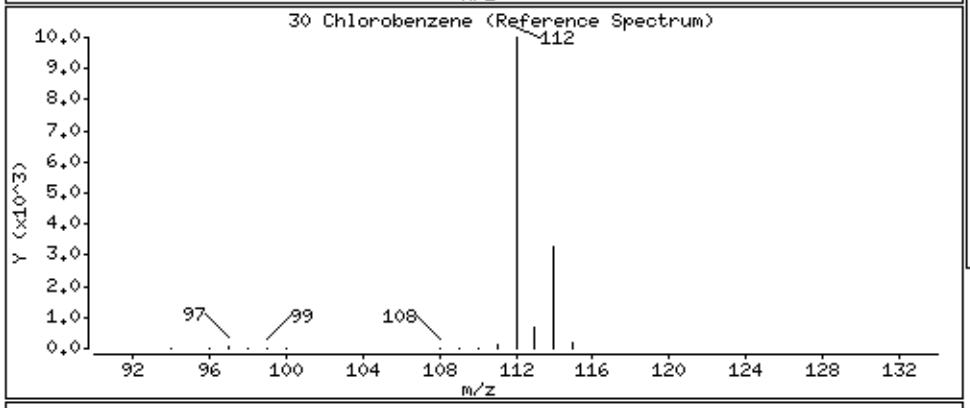
Concentration: 7.82615 ug

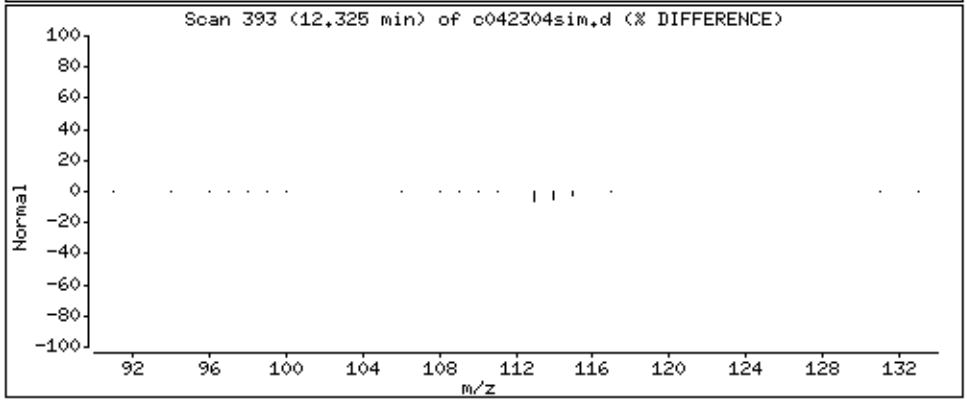












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

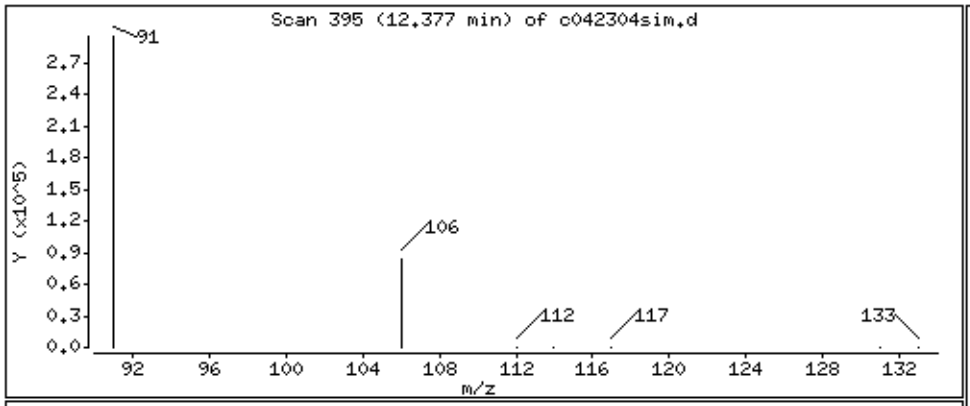
Operator: gm

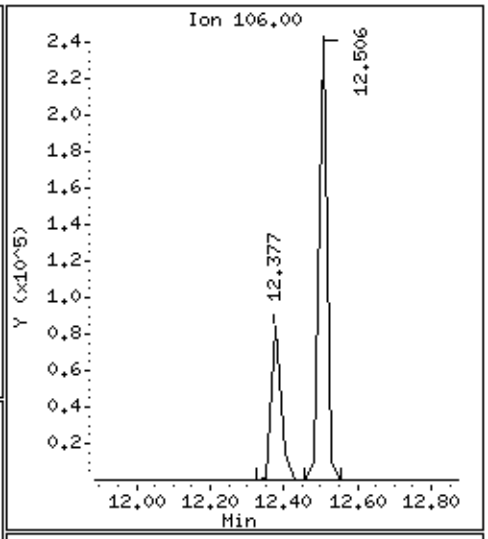
Column phase: DB-5.625

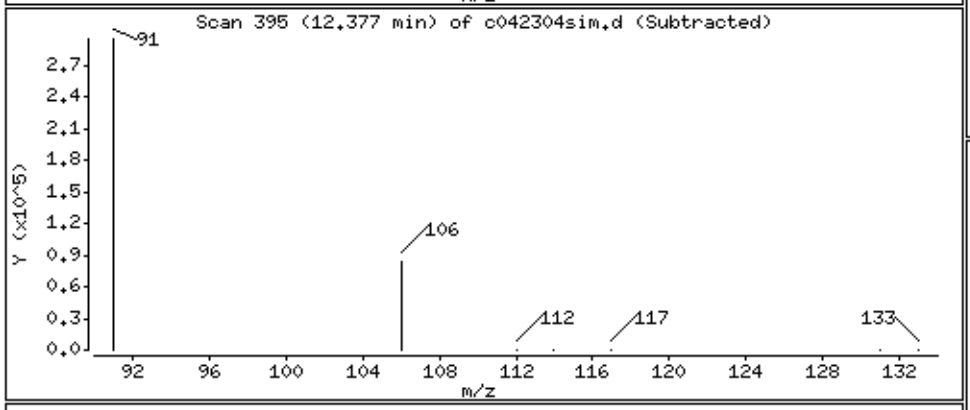
Column diameter: 0.25

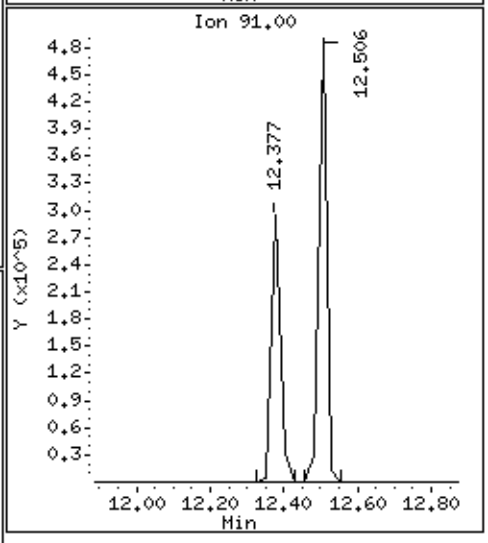
31 Ethylbenzene-CCC

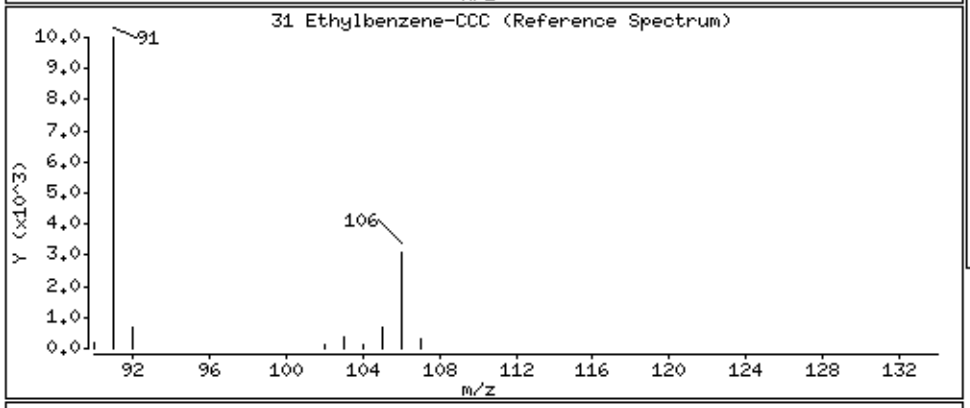
Concentration: 9.02900 ug

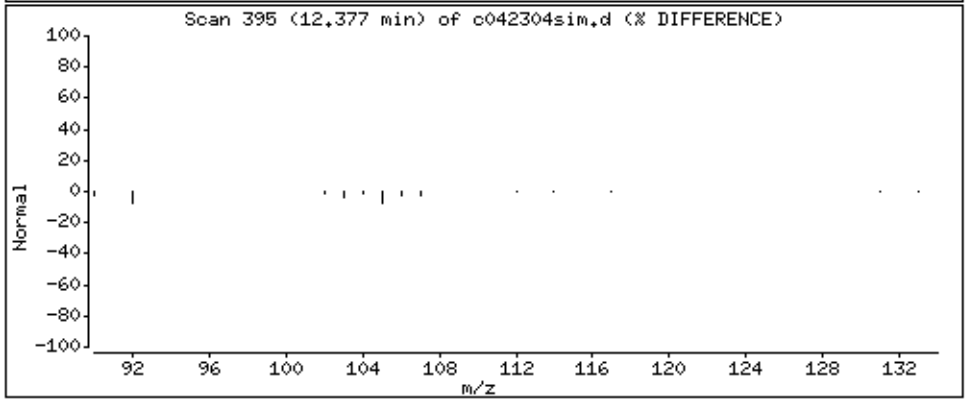












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

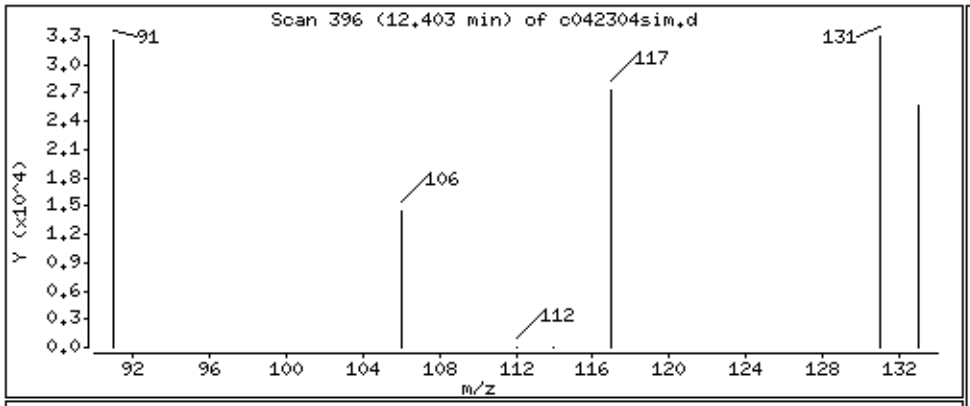
Operator: gm

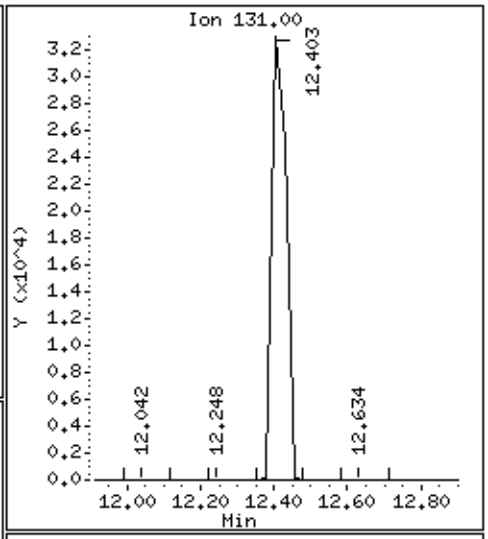
Column phase: DB-5.625

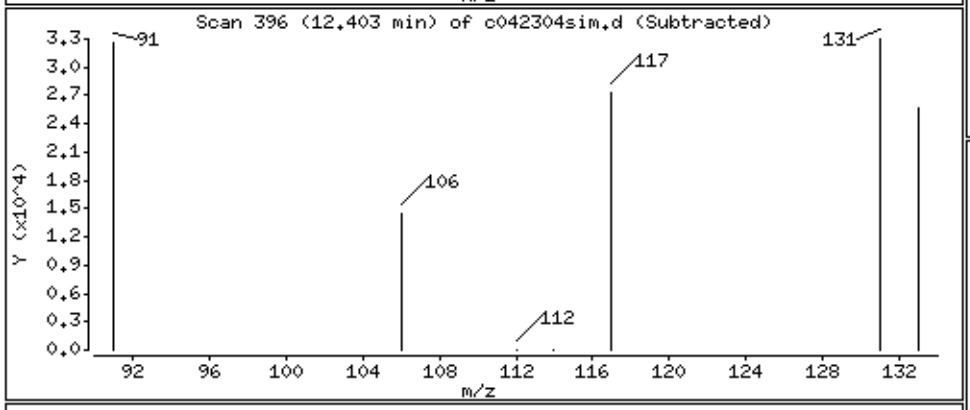
Column diameter: 0.25

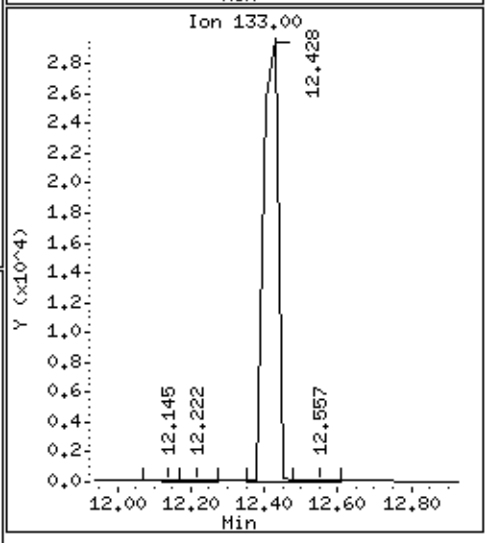
32 1,1,1,2-Tetrachloroethane

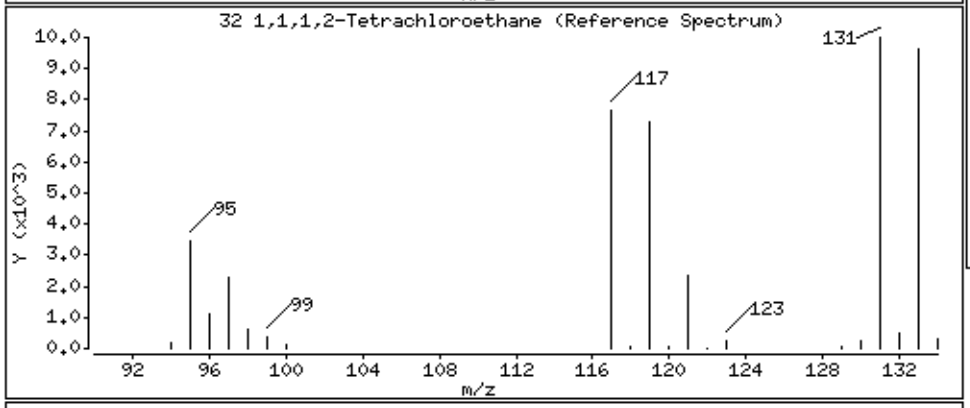
Concentration: 8.09804 ug

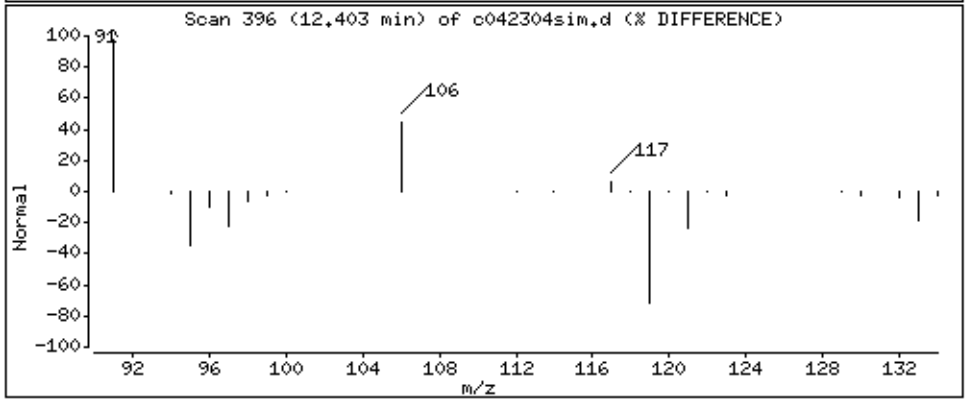












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

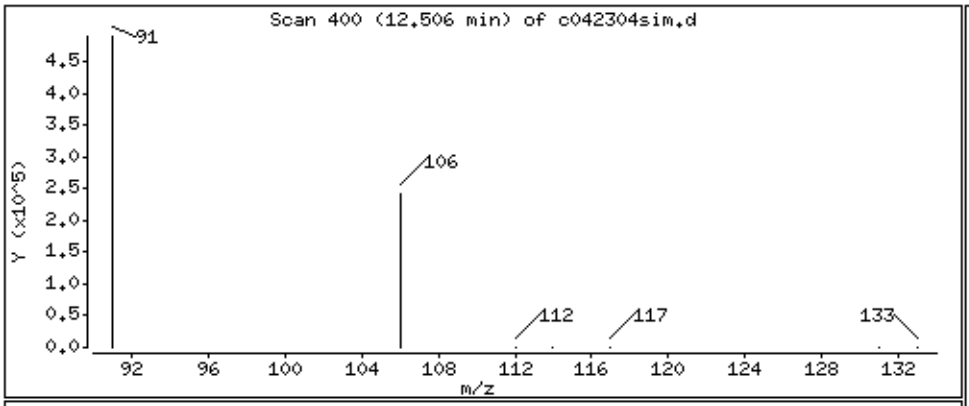
Operator: gm

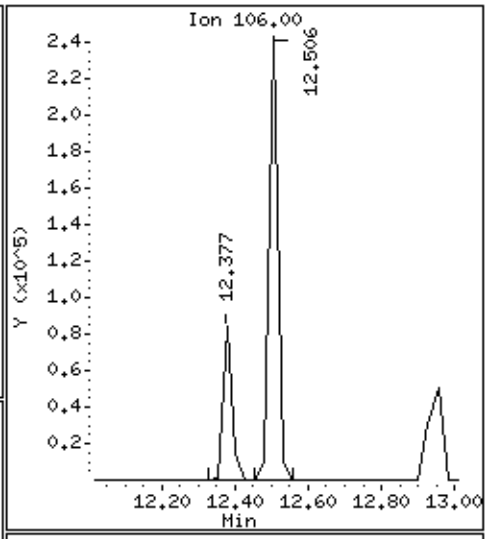
Column phase: DB-5.625

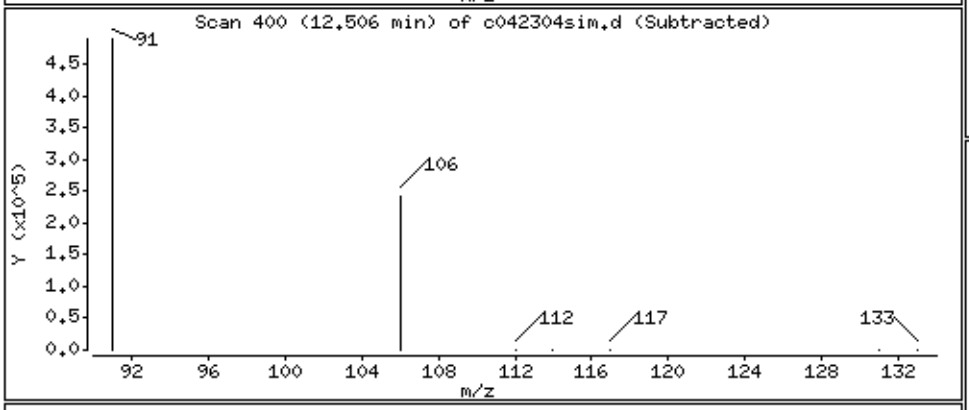
Column diameter: 0.25

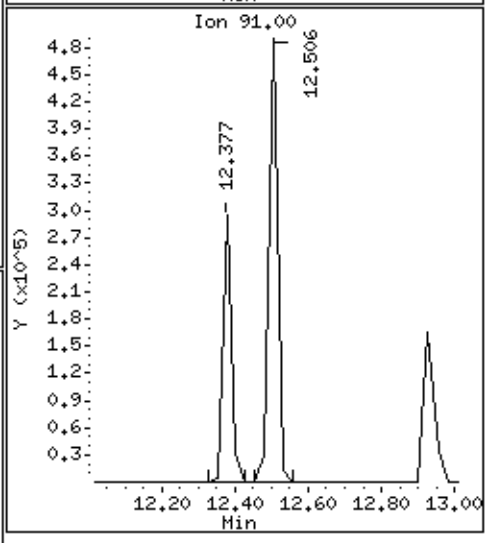
33 m,p-Xylene

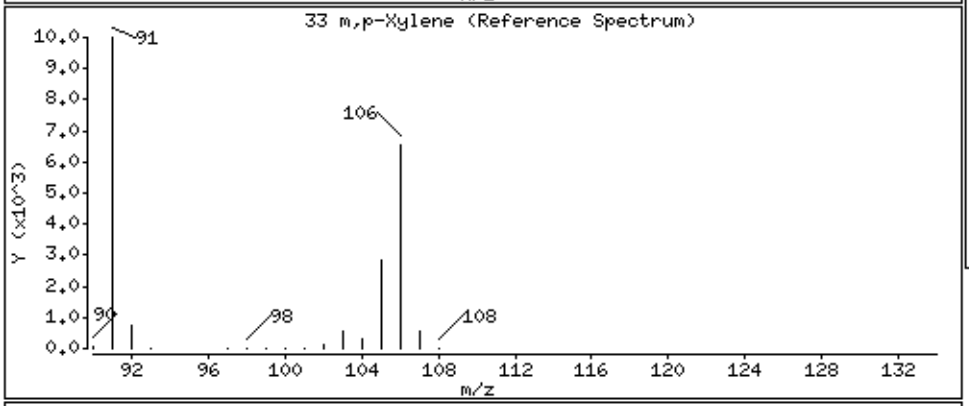
Concentration: 17.0642 ug

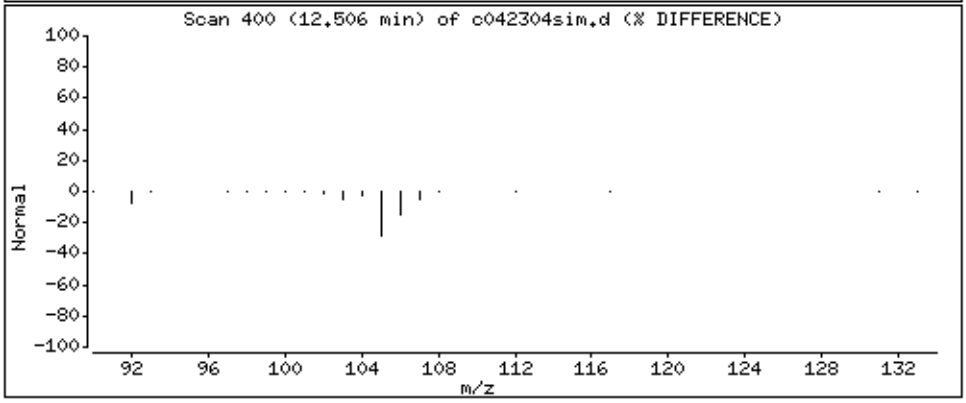












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

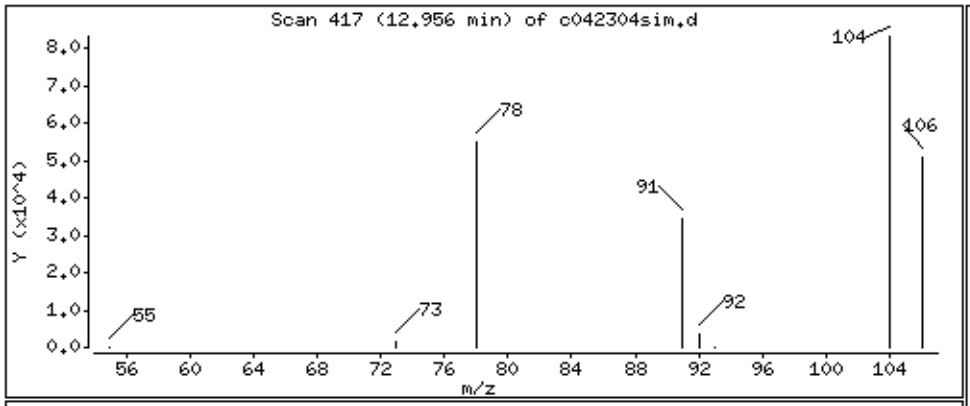
Operator: gm

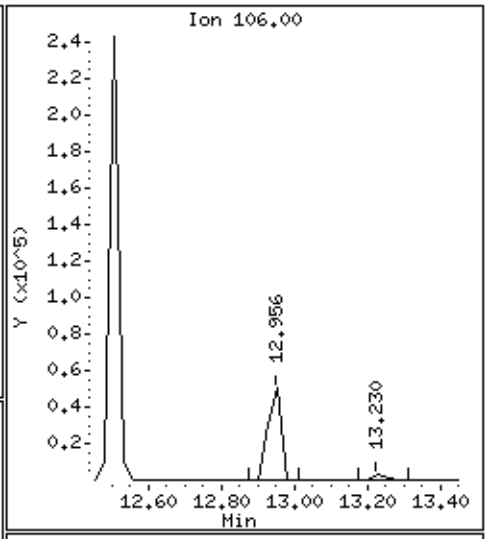
Column phase: DB-5.625

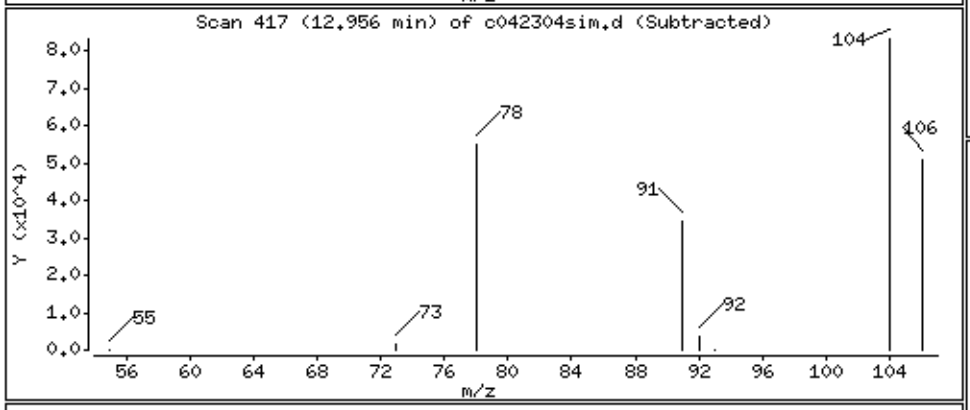
Column diameter: 0.25

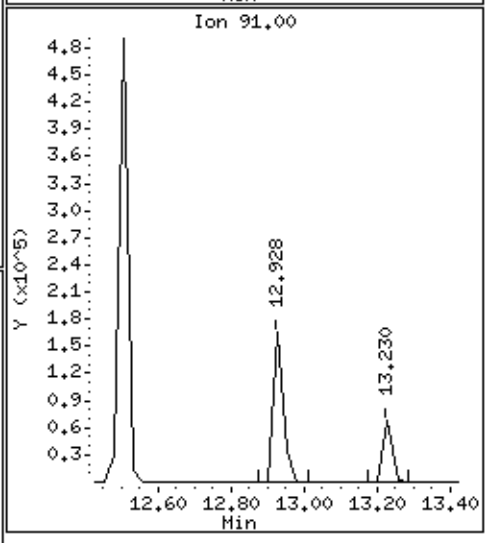
34 o-Xylene

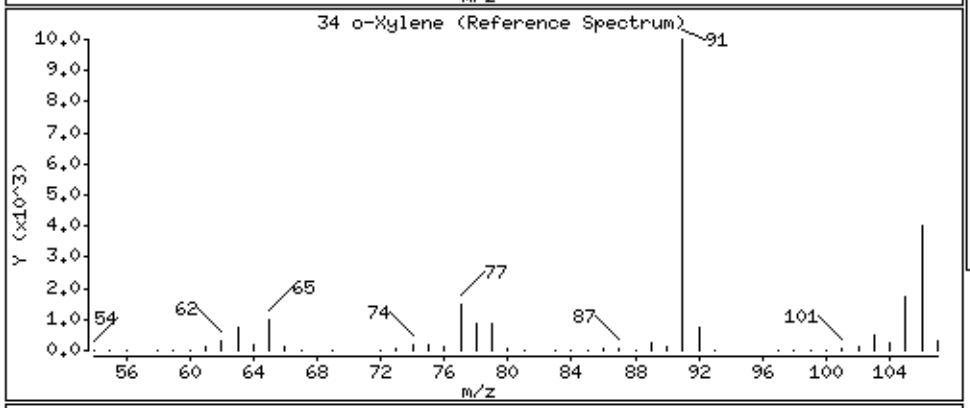
Concentration: 7.10558 ug

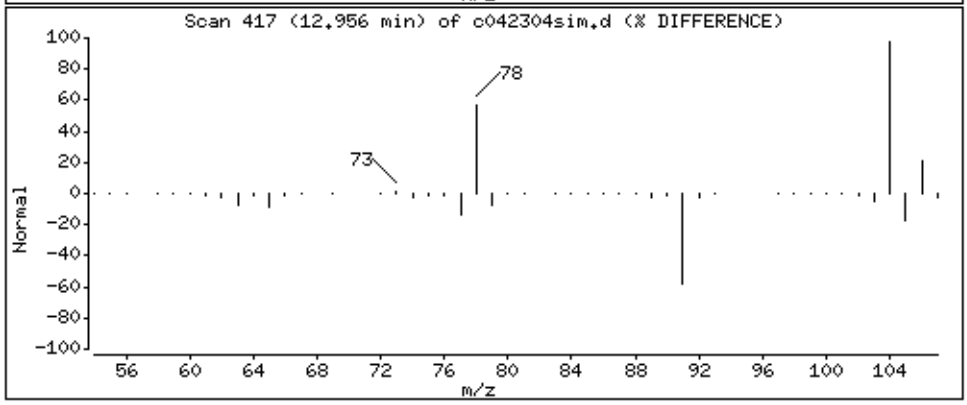












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

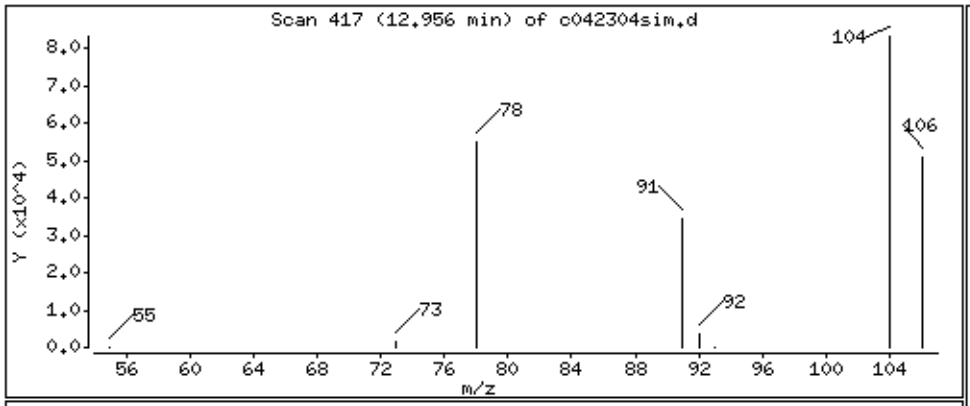
Operator: gm

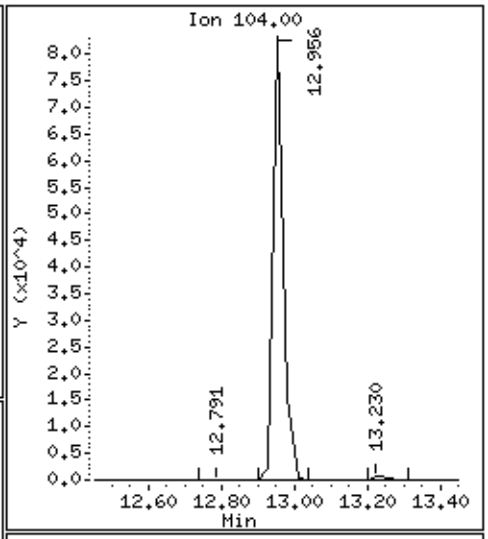
Column phase: DB-5.625

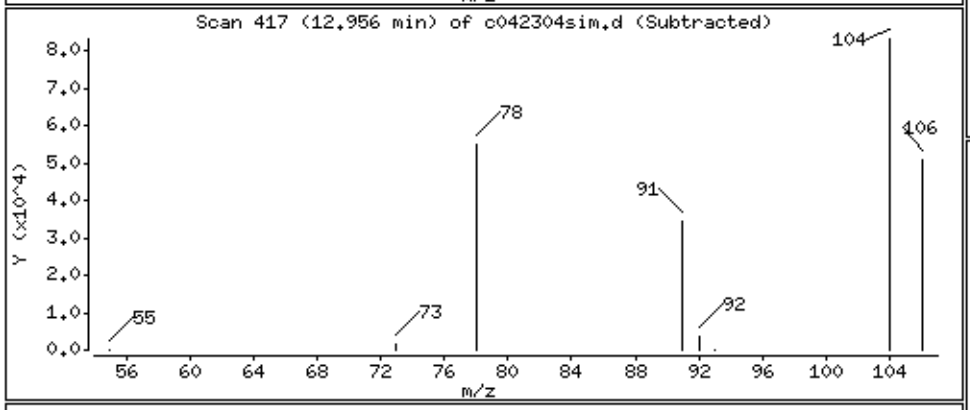
Column diameter: 0.25

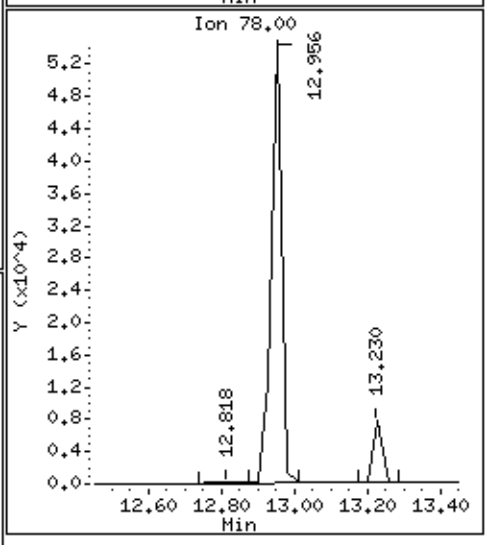
35 Styrene

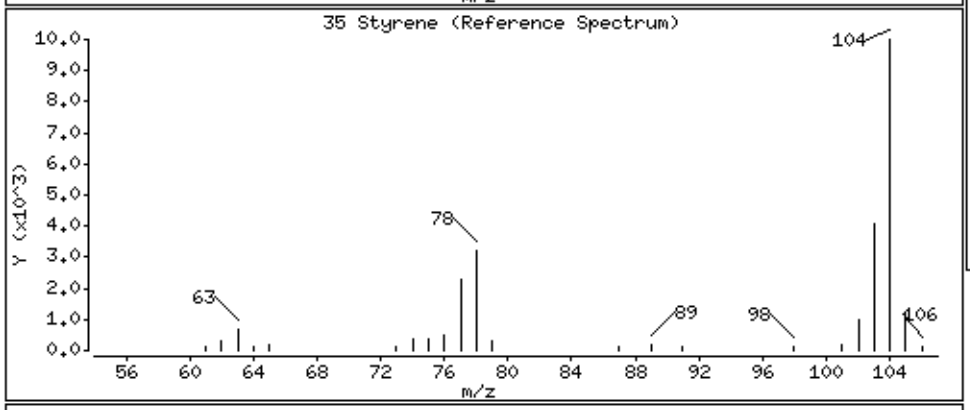
Concentration: 5.22508 ug

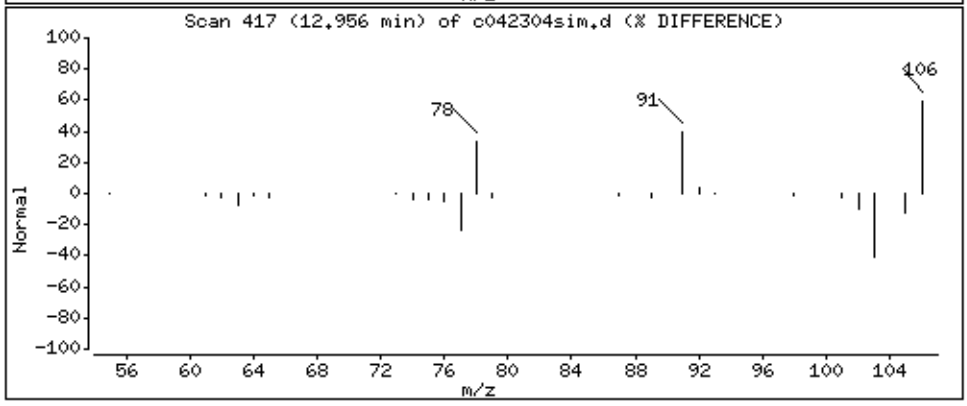












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

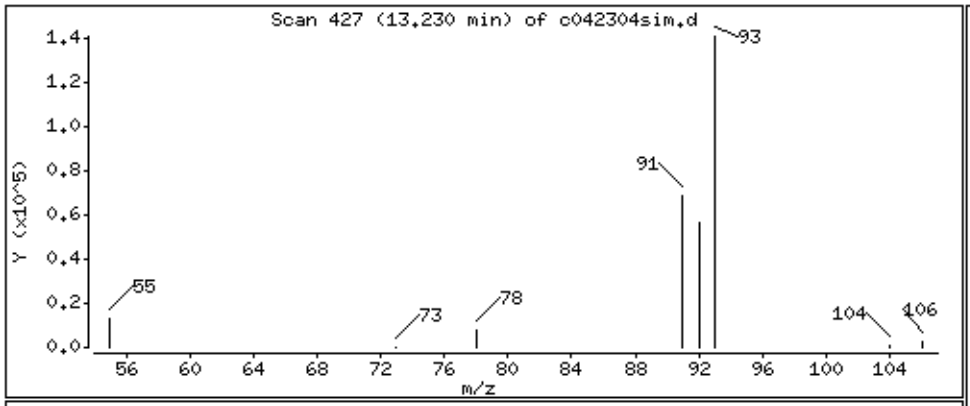
Operator: gm

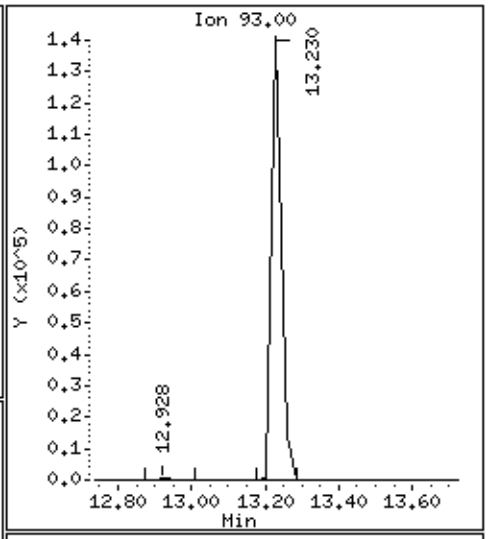
Column phase: DB-5.625

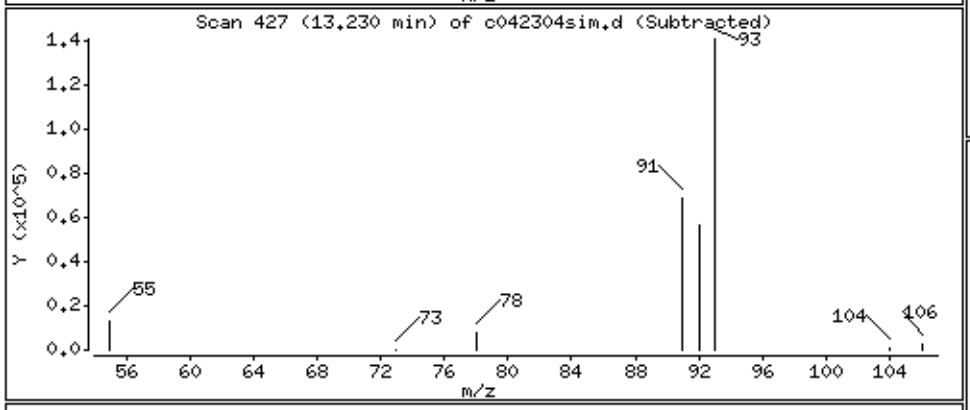
Column diameter: 0.25

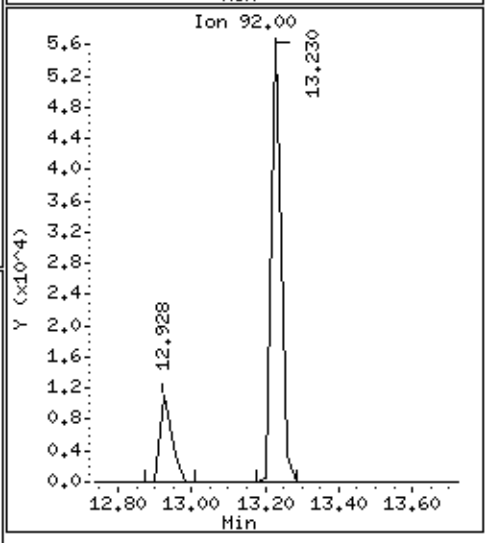
36 a-Pinene

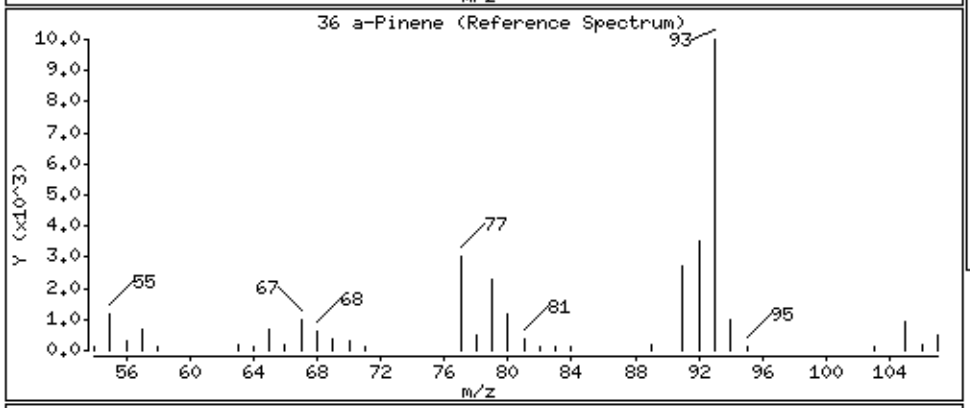
Concentration: 11.5502 ug

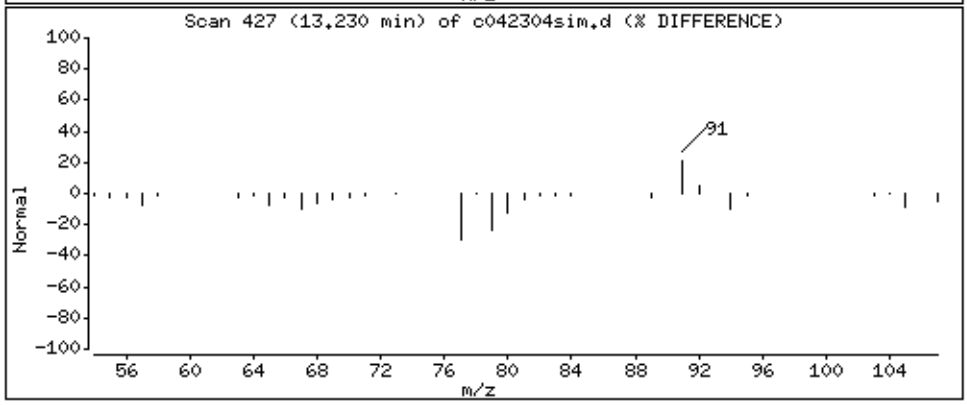












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

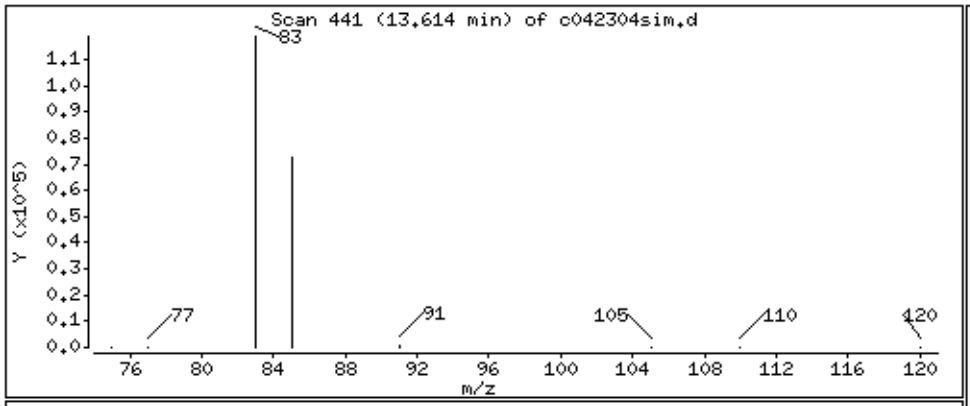
Operator: gm

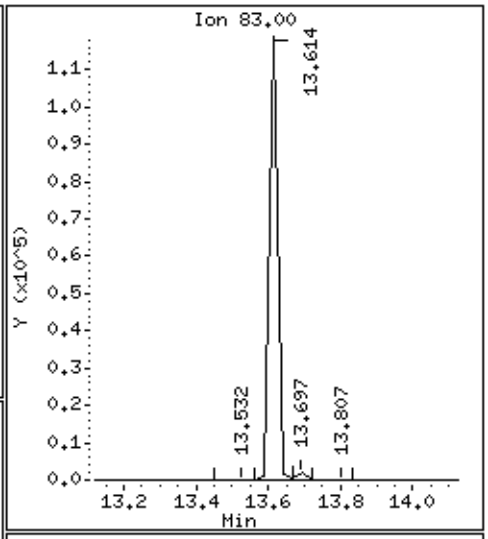
Column phase: DB-5.625

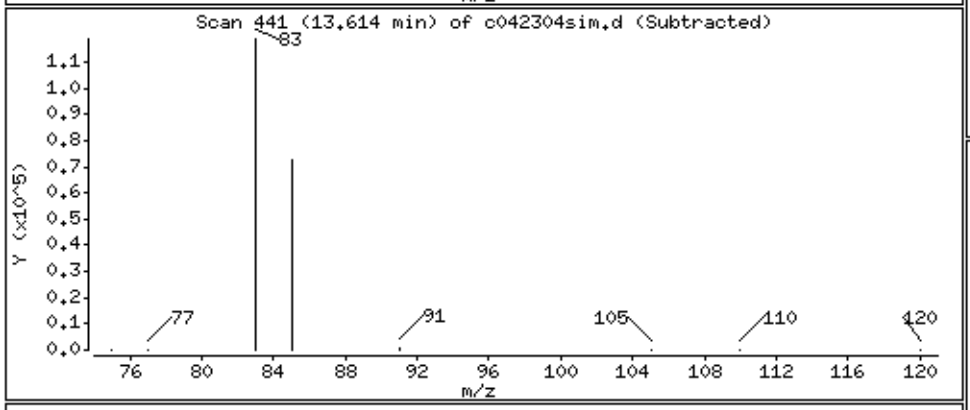
Column diameter: 0.25

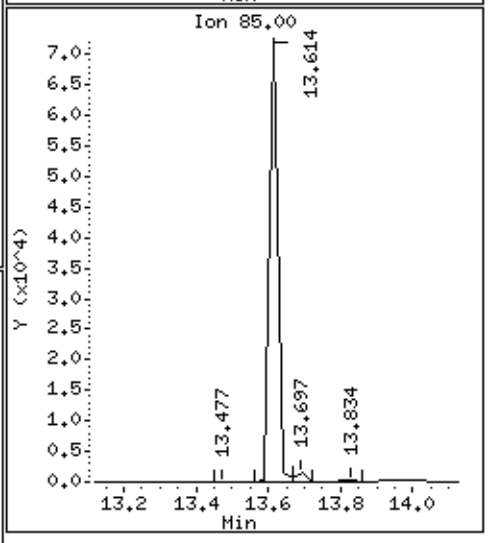
37 1,1,2,2-Tetrachloroethane-SPC

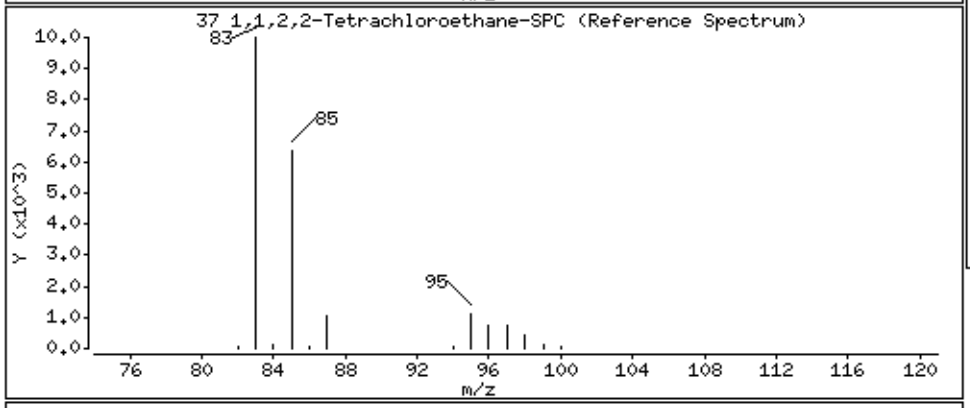
Concentration: 8.57836 ug

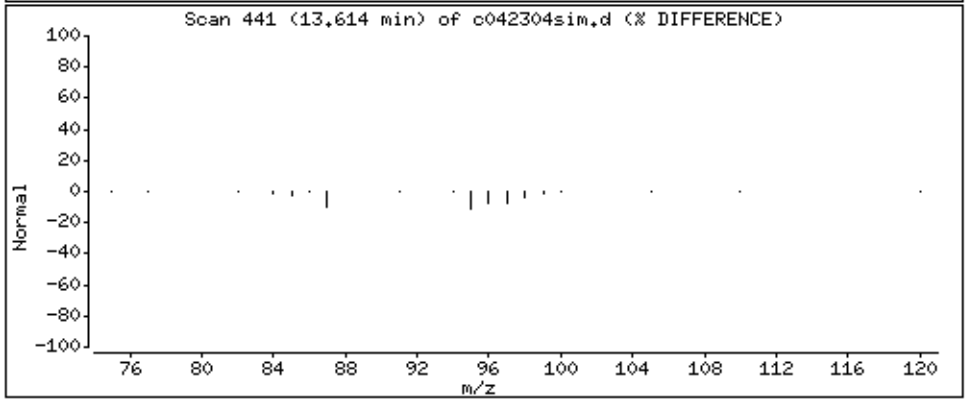












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

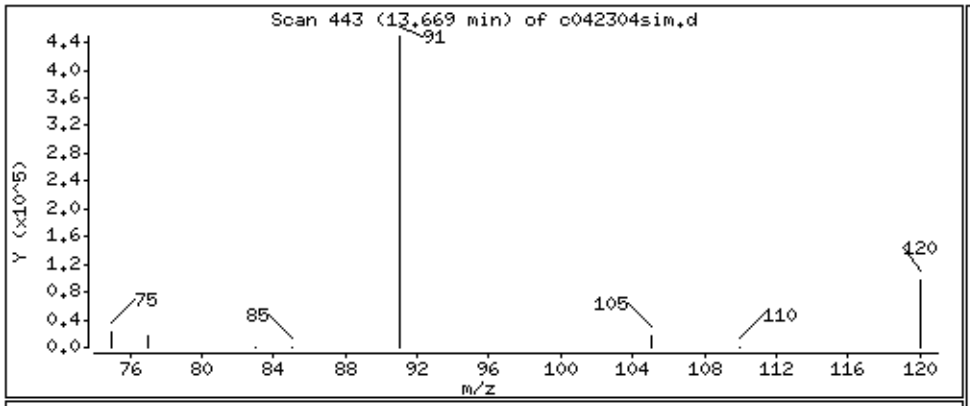
Operator: gm

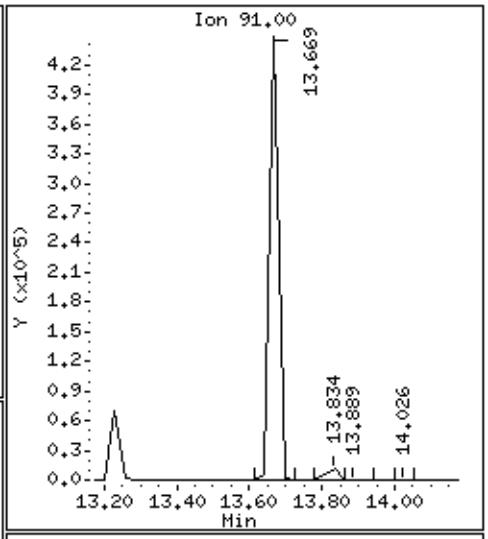
Column phase: DB-5.625

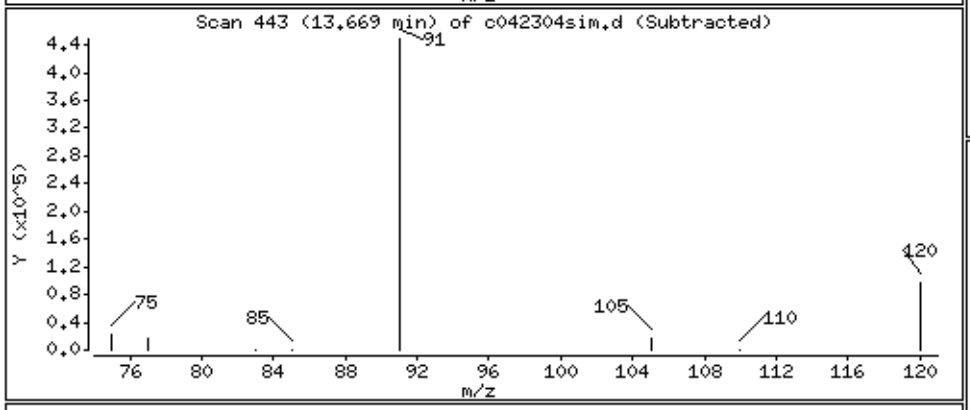
Column diameter: 0.25

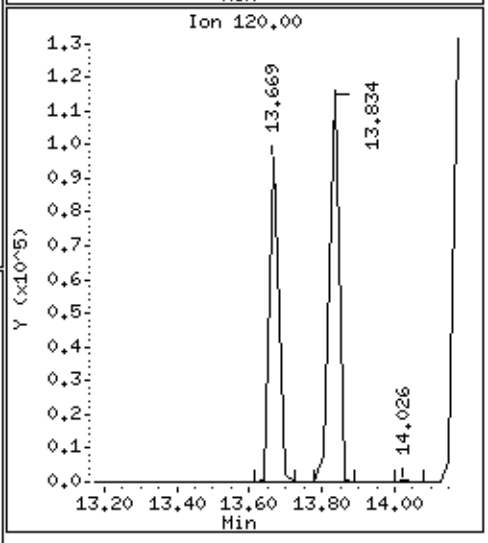
38 Propylbenzene

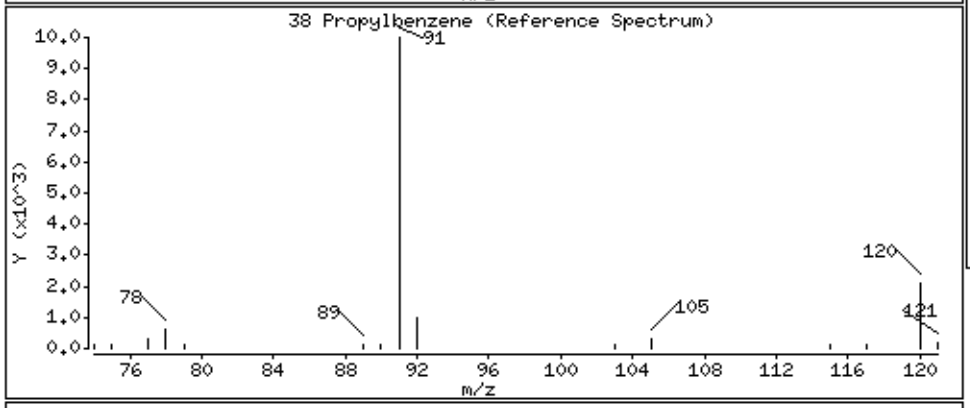
Concentration: 8.31506 ug

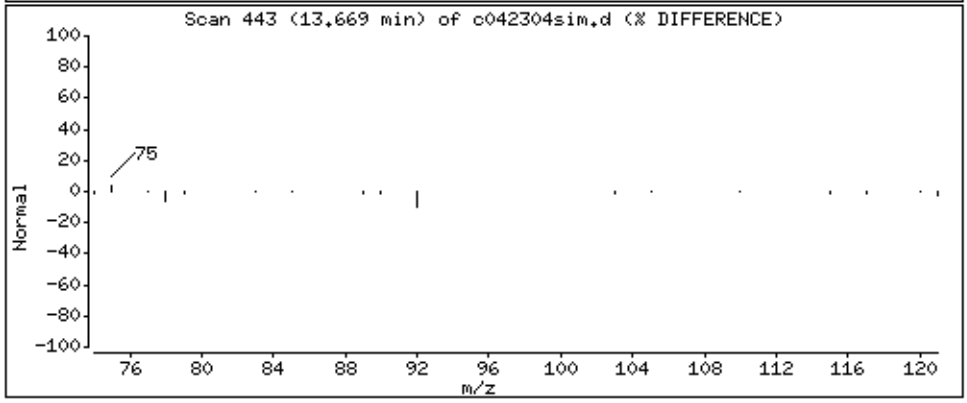












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

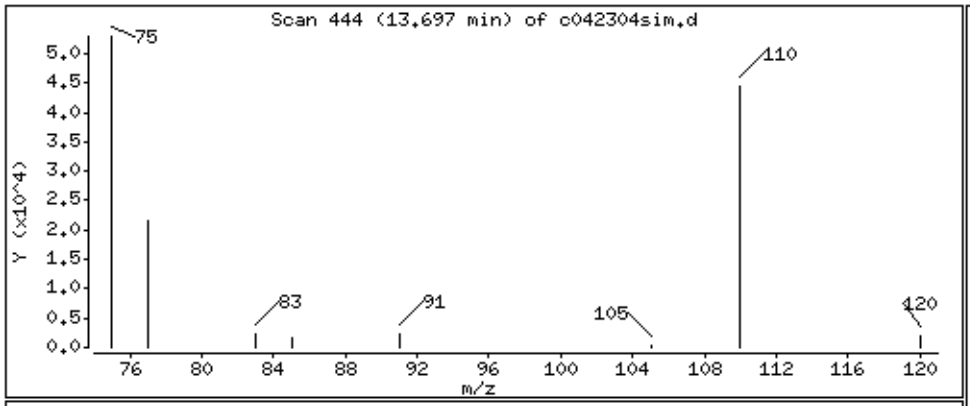
Operator: gm

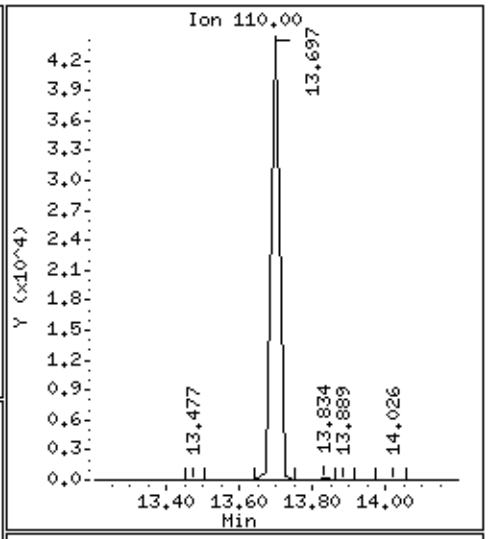
Column phase: DB-5.625

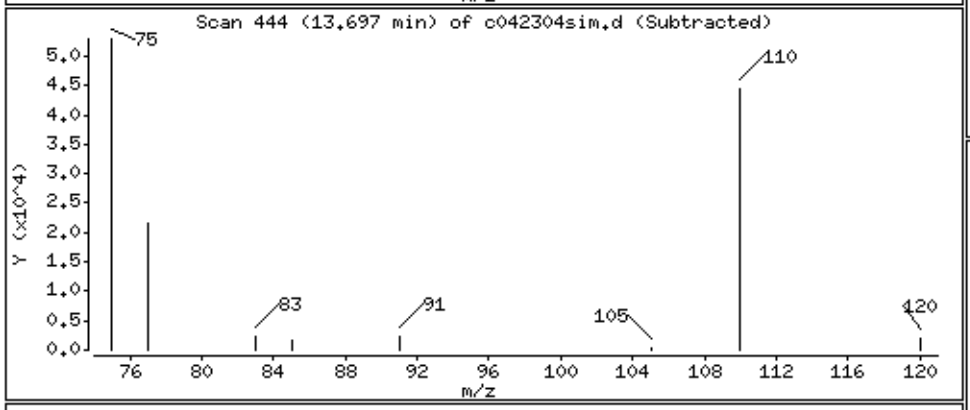
Column diameter: 0.25

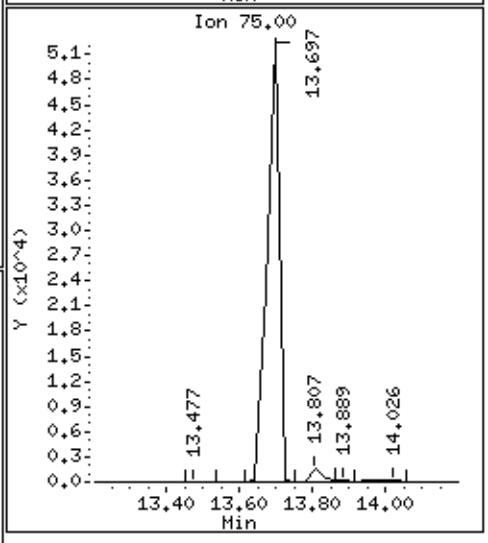
39 1,2,3-Trichloropropane

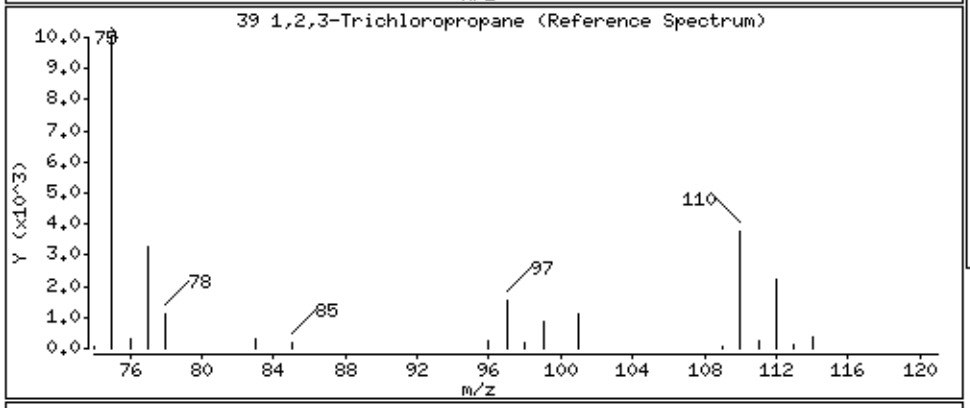
Concentration: 8.25945 ug

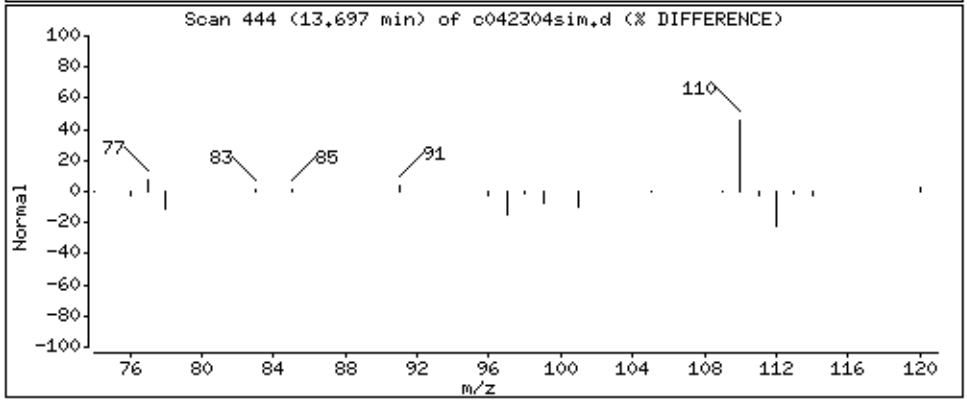












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

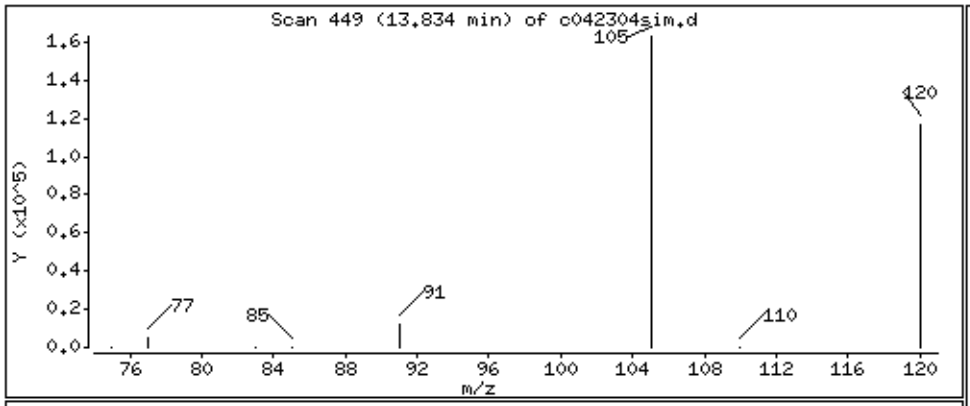
Operator: gm

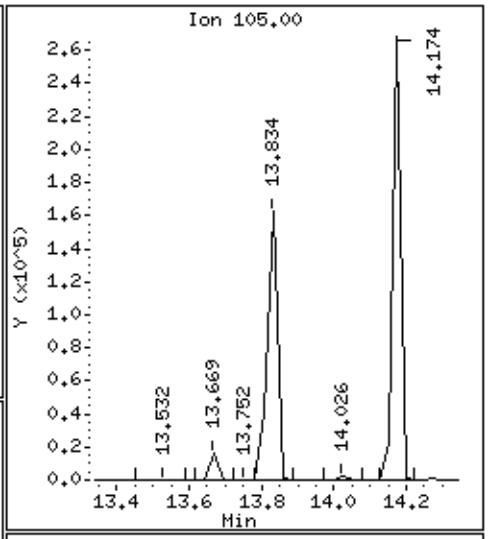
Column phase: DB-5.625

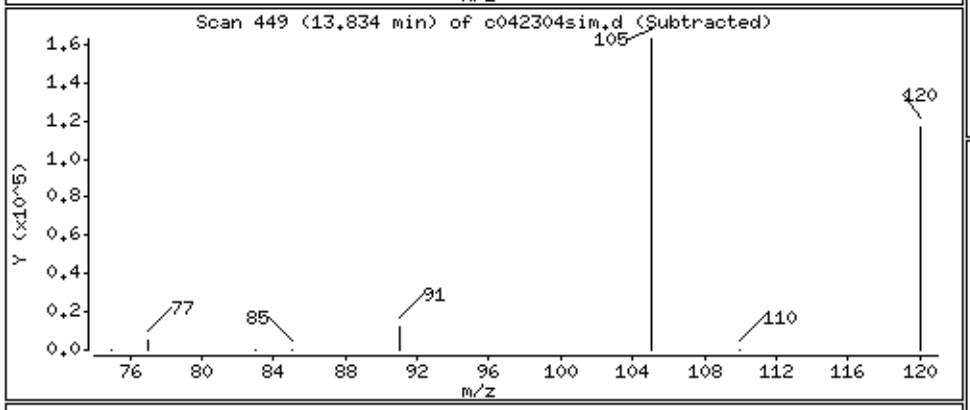
Column diameter: 0.25

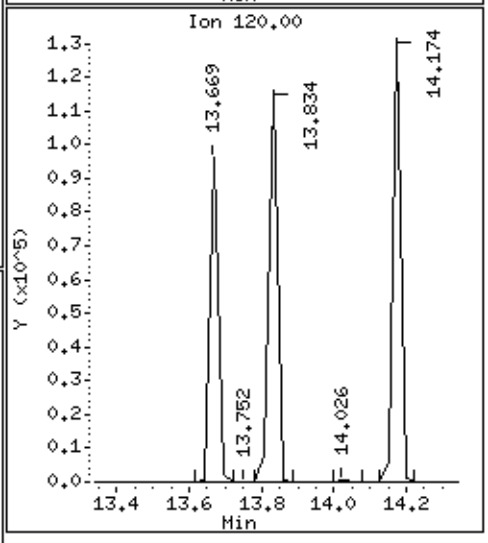
40 1,3,5-Trimethylbenzene

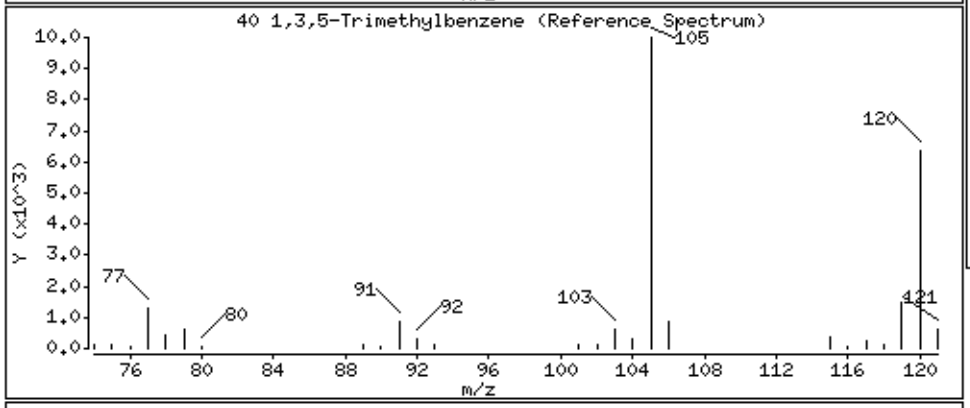
Concentration: 7.85247 ug

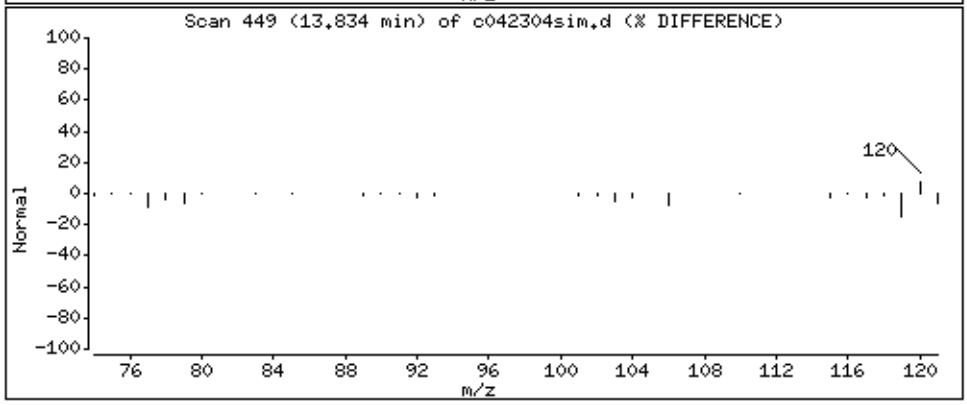












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

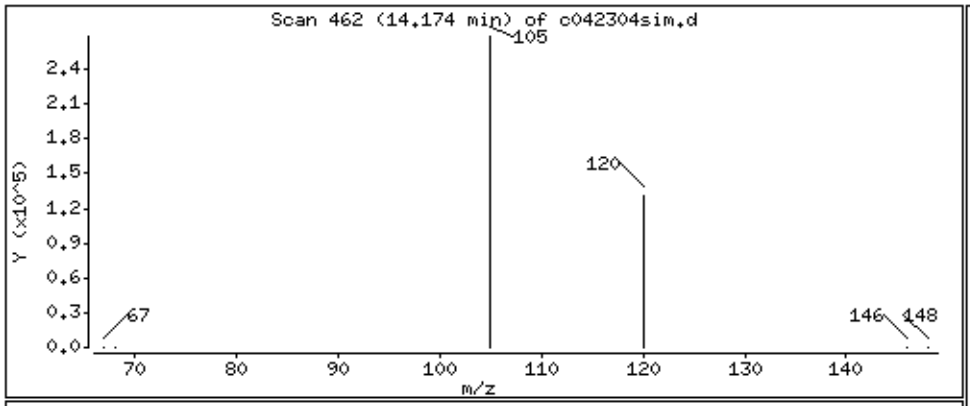
Operator: gm

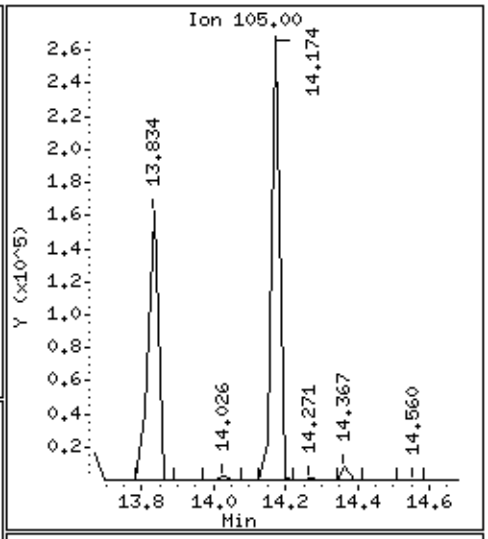
Column phase: DB-5.625

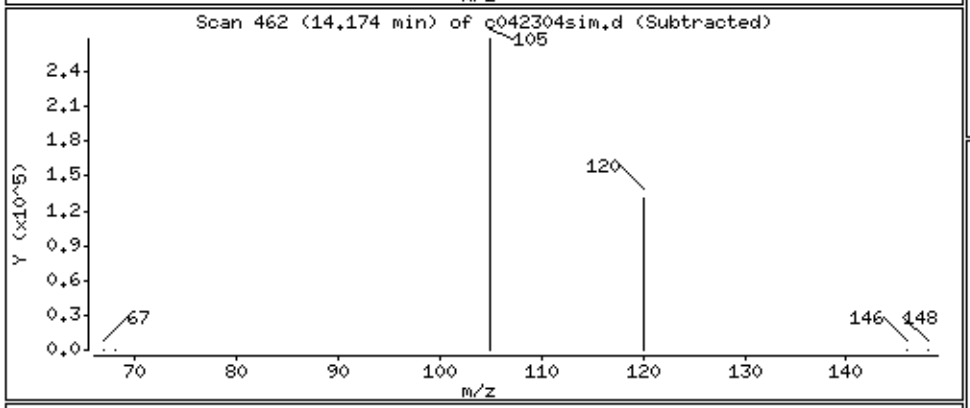
Column diameter: 0.25

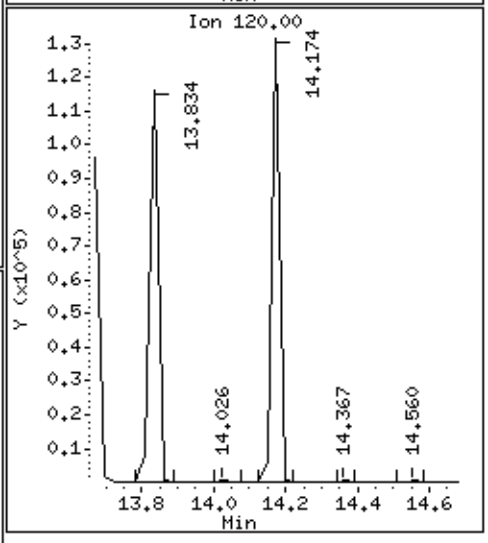
41 1,2,4-Trimethylbenzene

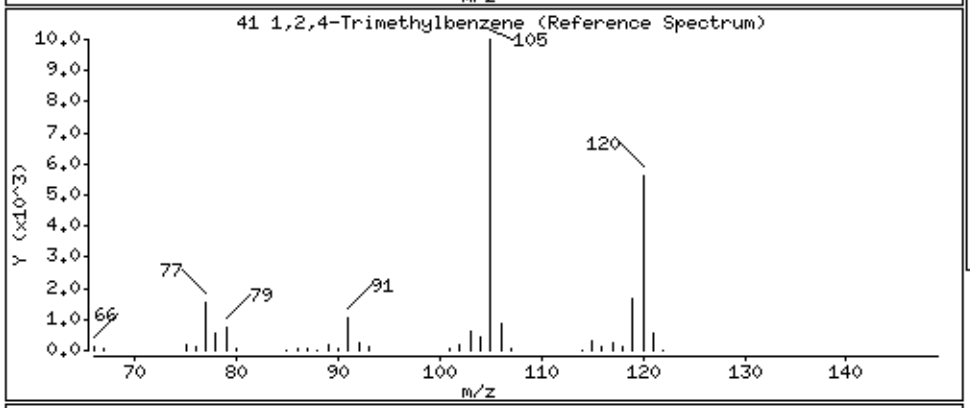
Concentration: 7.82015 ug

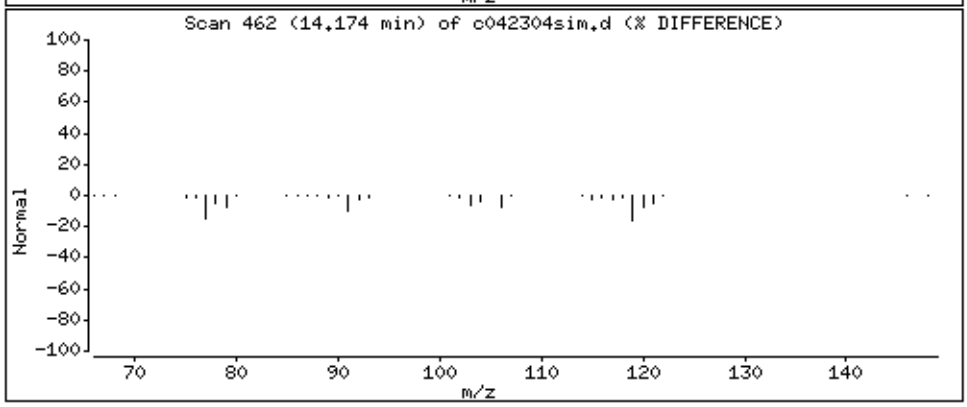












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

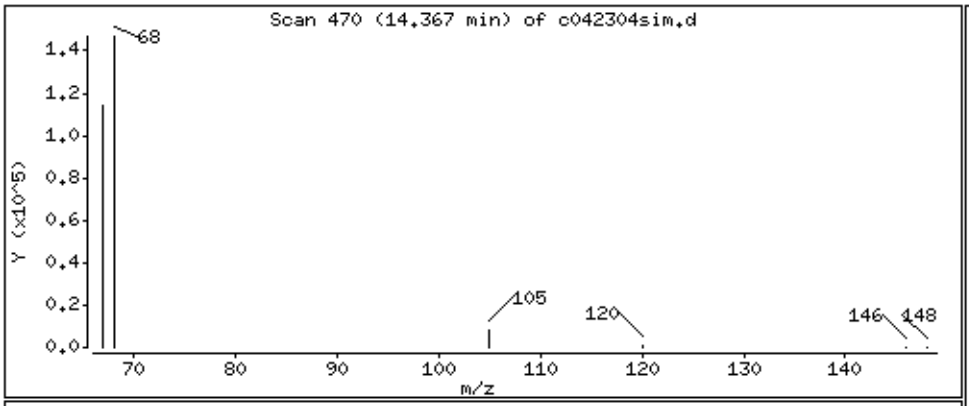
Operator: gm

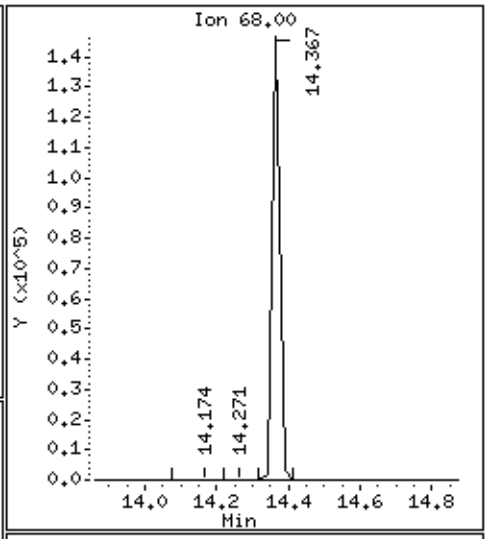
Column phase: DB-5.625

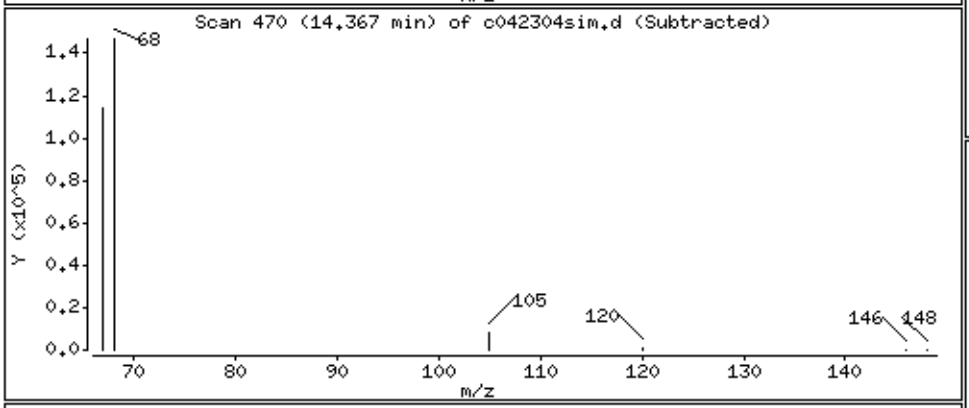
Column diameter: 0.25

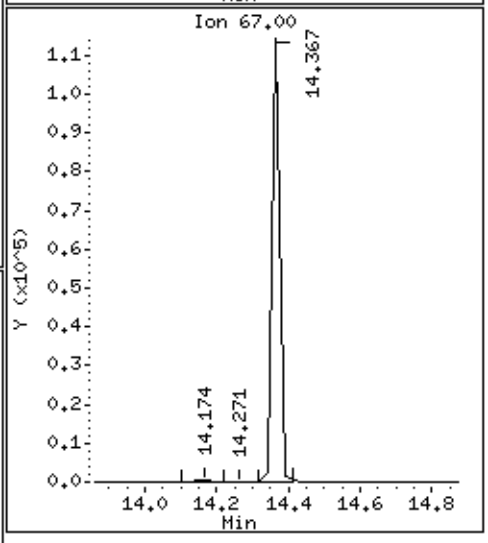
42 R-(+)-Limonene

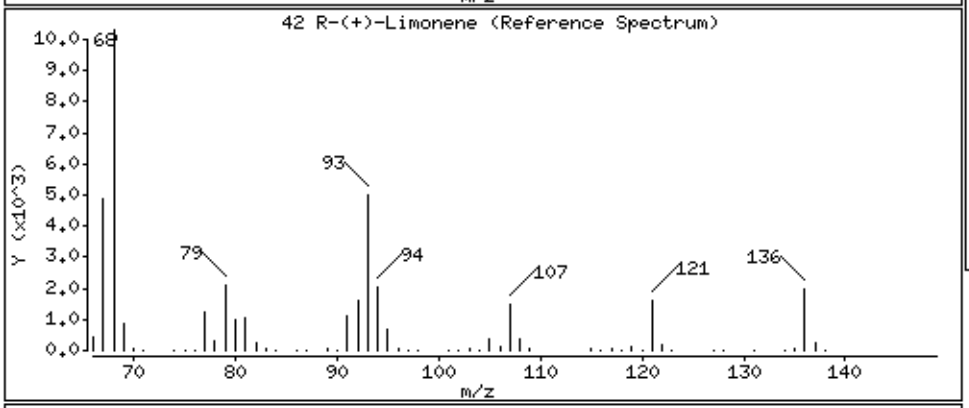
Concentration: 9.69708 ug

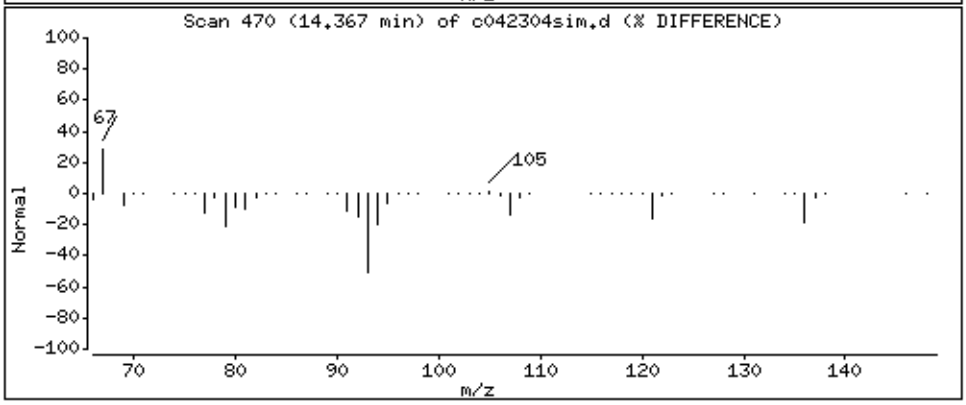












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

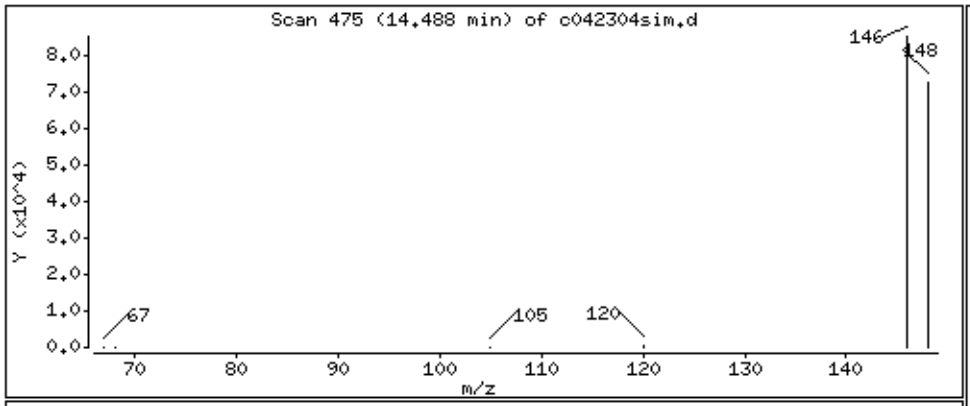
Operator: gm

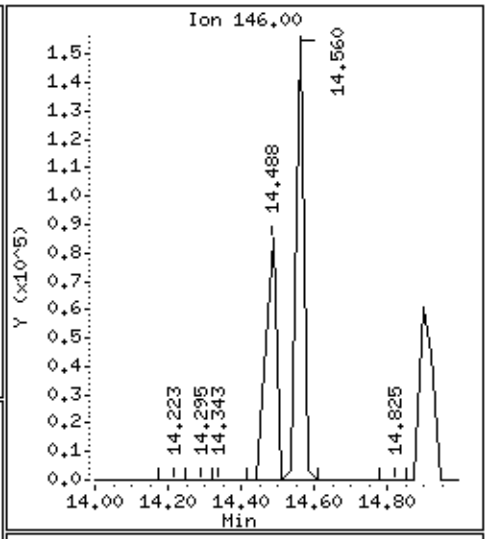
Column phase: DB-5.625

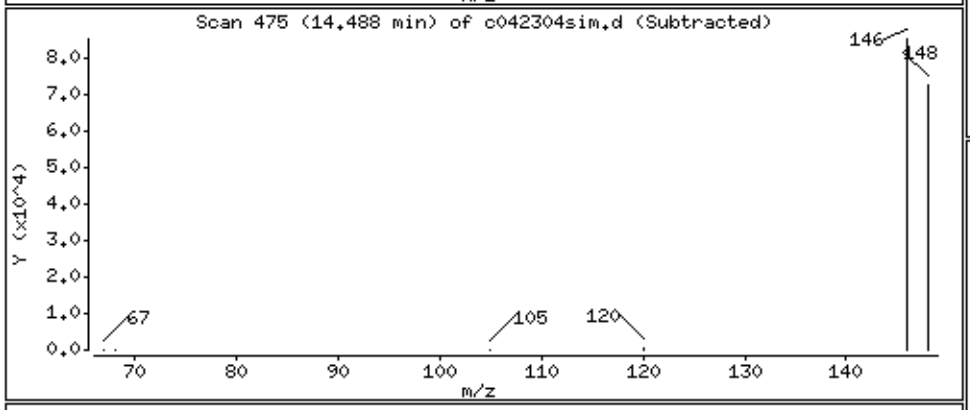
Column diameter: 0.25

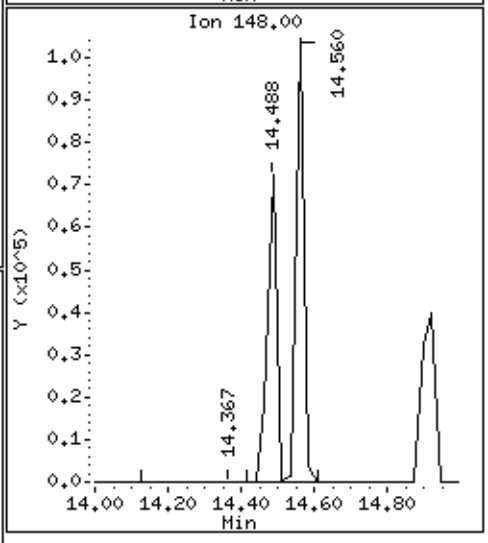
43 1,3-Dichlorobenzene

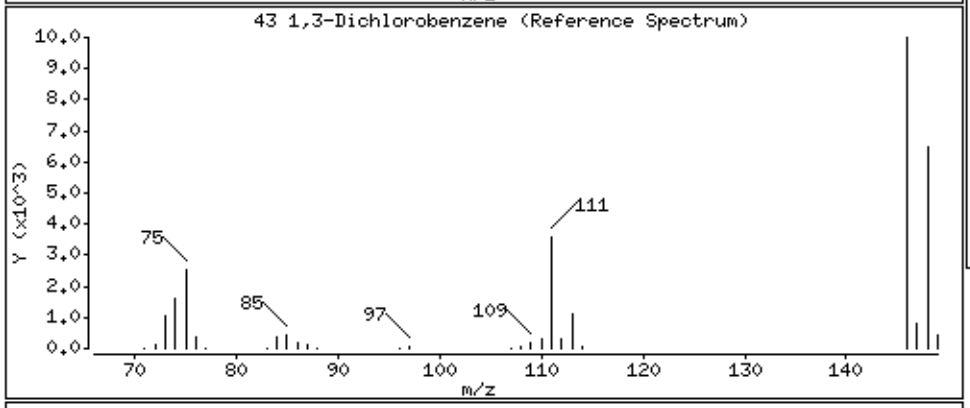
Concentration: 6.13372 ug

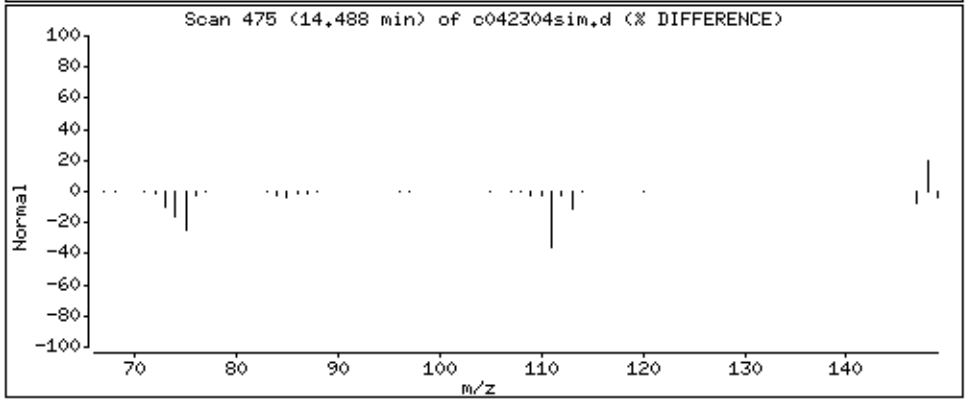












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

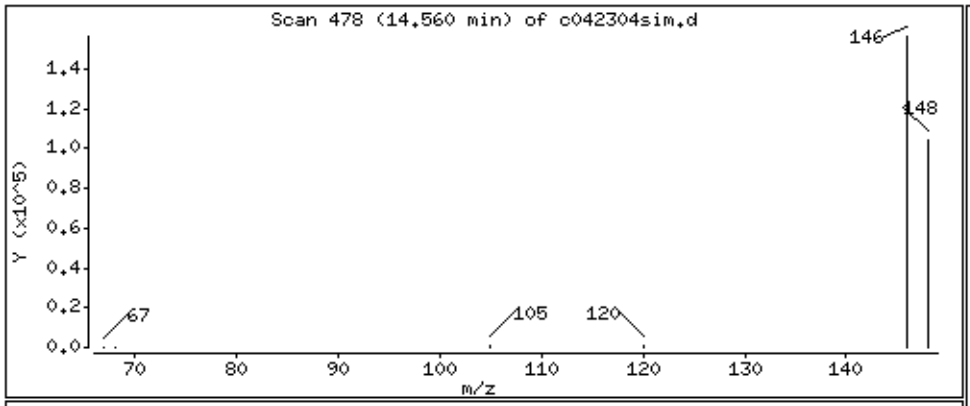
Operator: gm

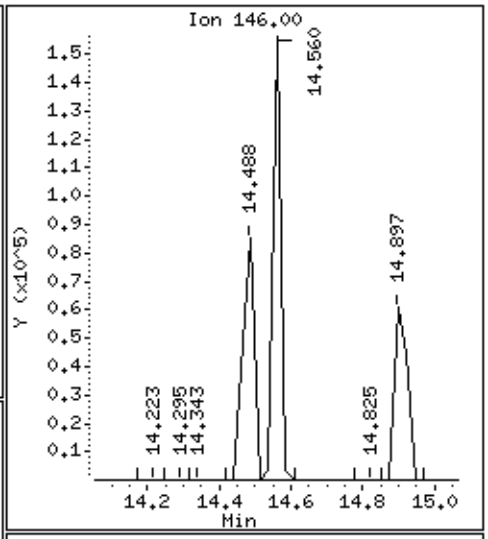
Column phase: DB-5.625

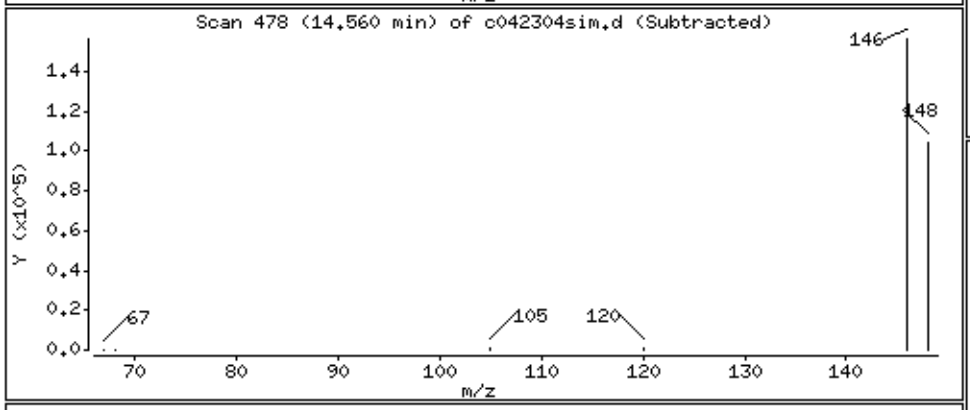
Column diameter: 0.25

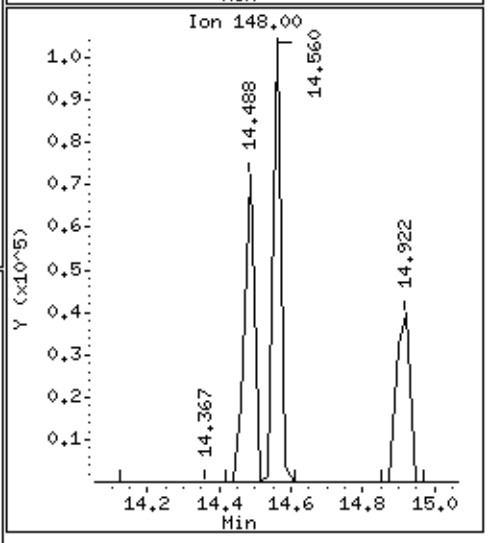
44 1,4-Dichlorobenzene

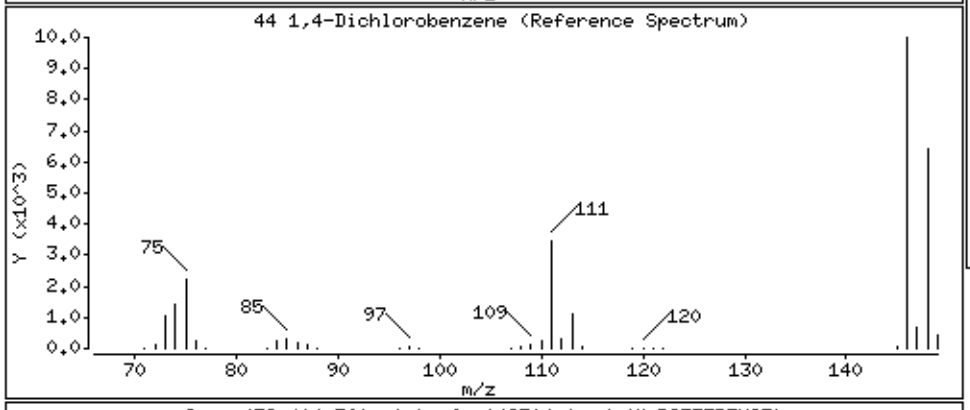
Concentration: 6.18585 ug

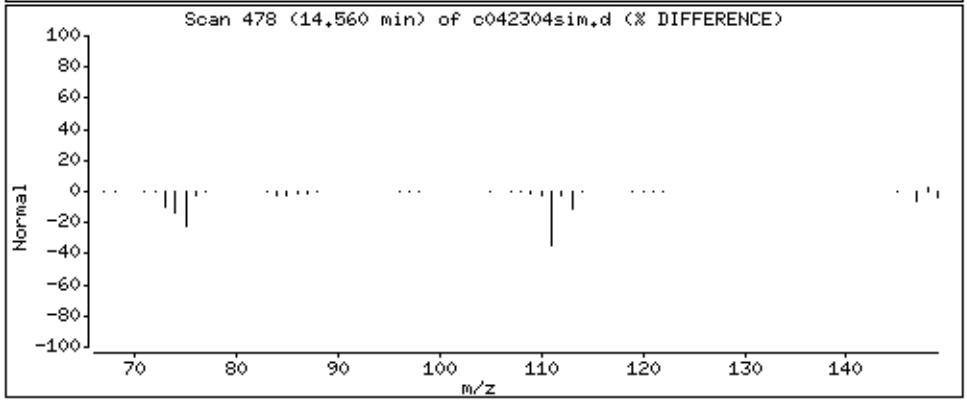












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

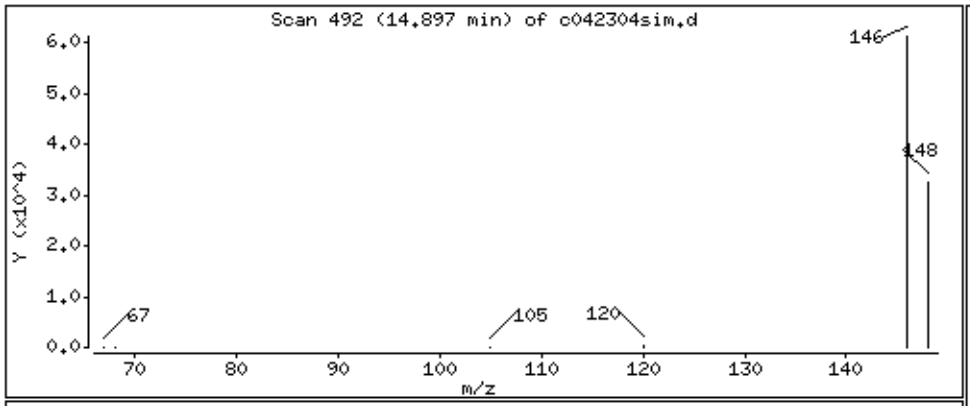
Operator: gm

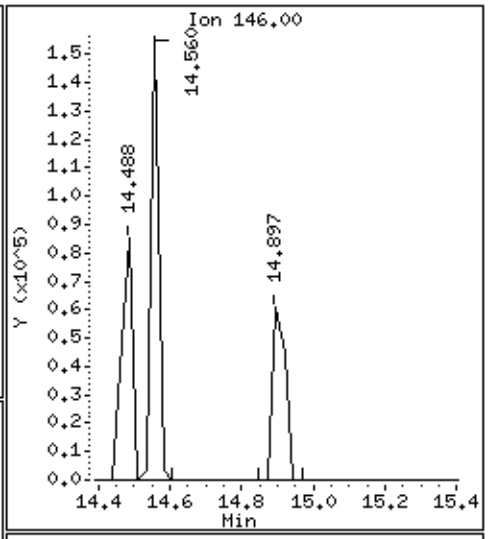
Column phase: DB-5.625

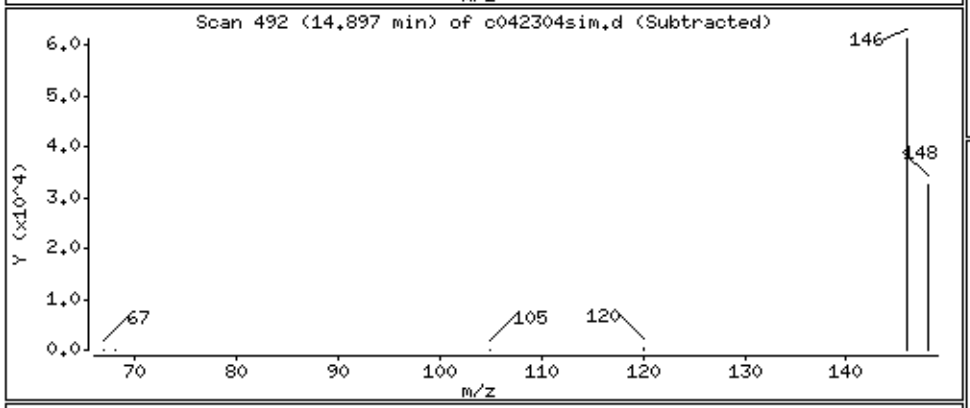
Column diameter: 0.25

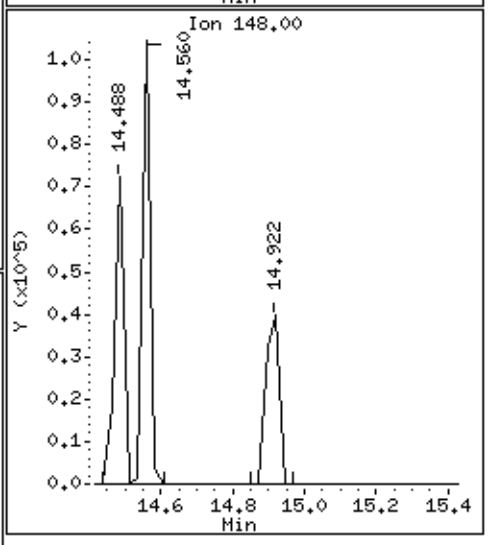
45 1,2-Dichlorobenzene

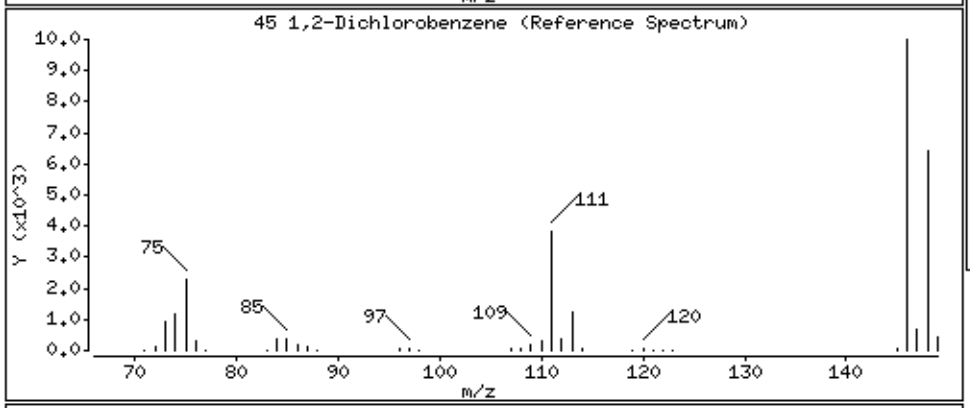
Concentration: 5.68329 ug

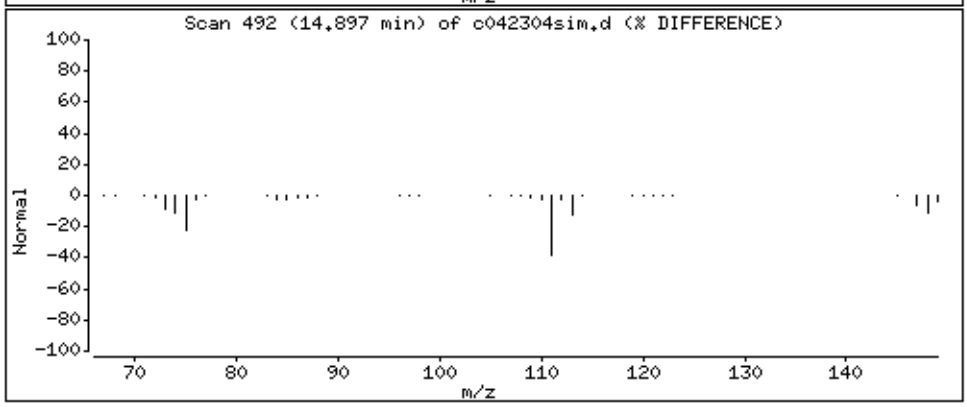












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

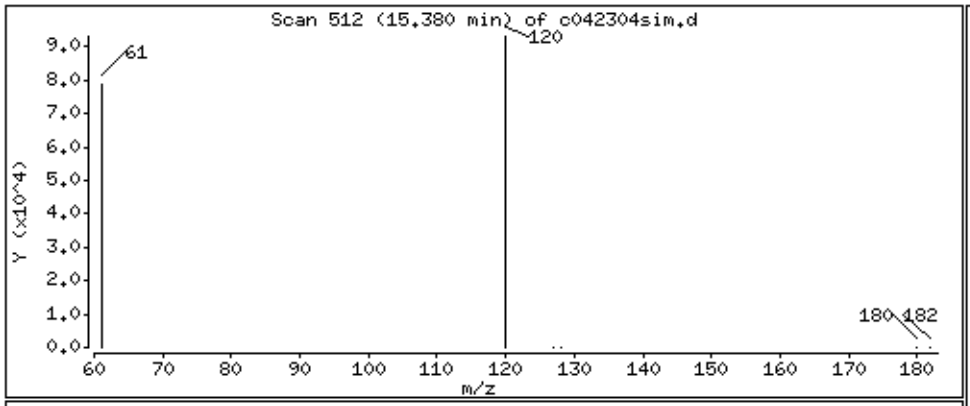
Operator: gm

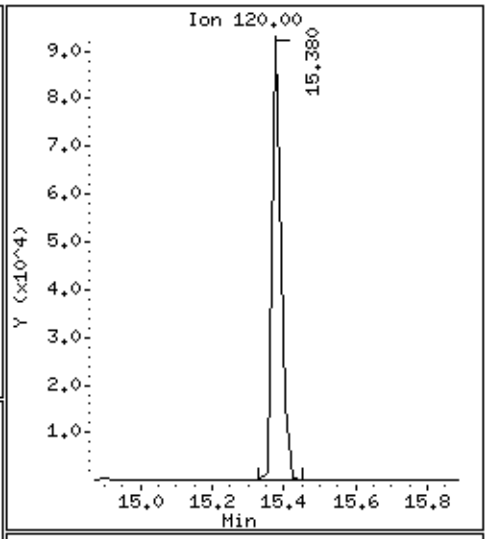
Column phase: DB-5.625

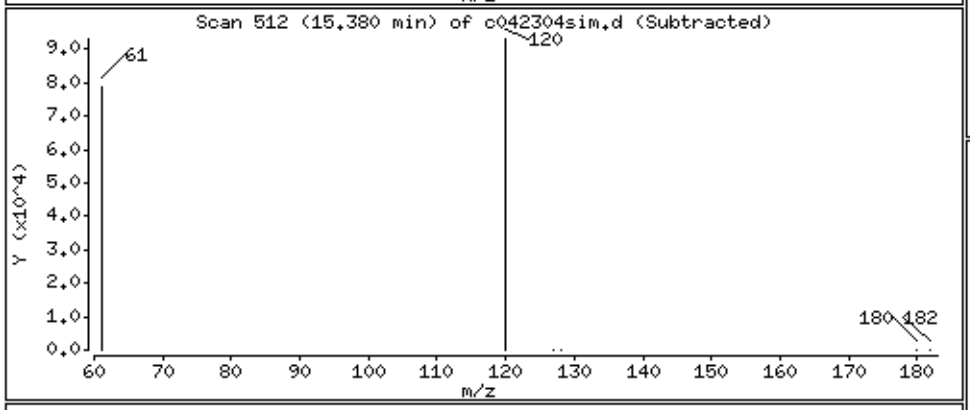
Column diameter: 0.25

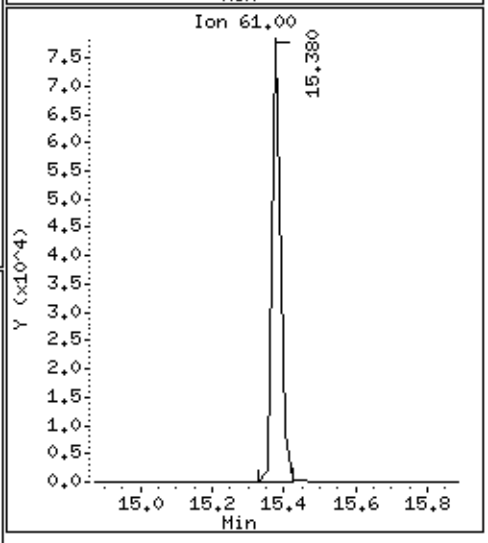
46 1,4-Dithiane

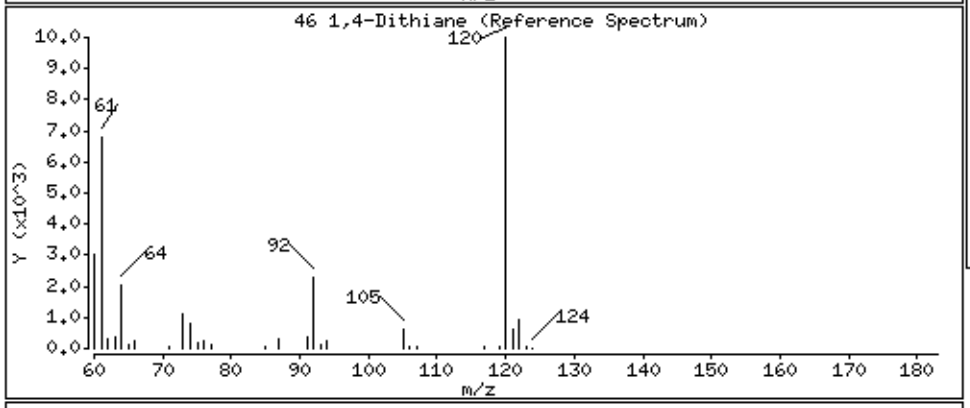
Concentration: 7.41653 ug

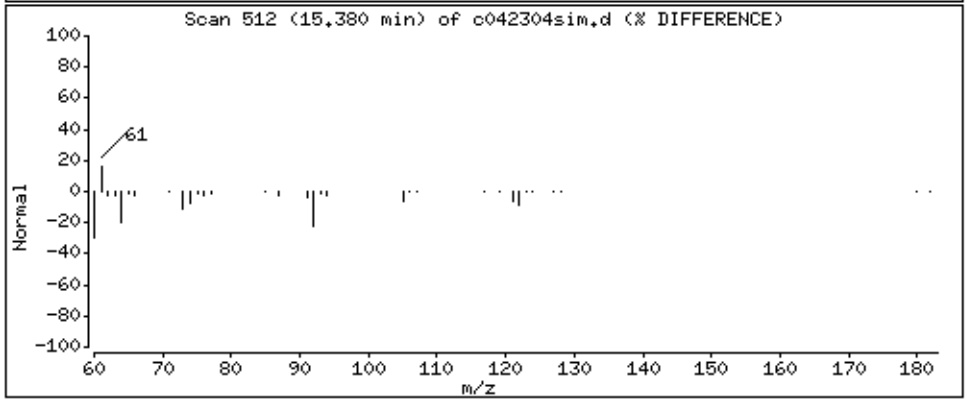












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

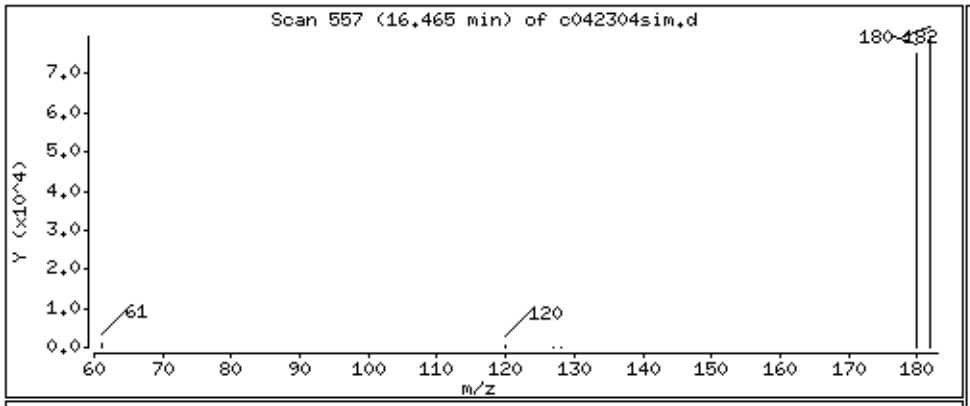
Operator: gm

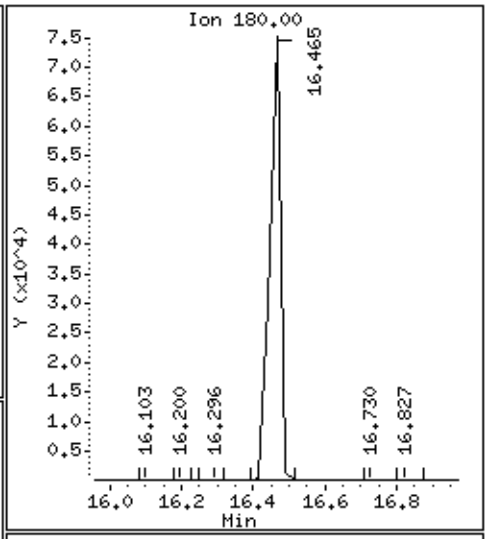
Column phase: DB-5.625

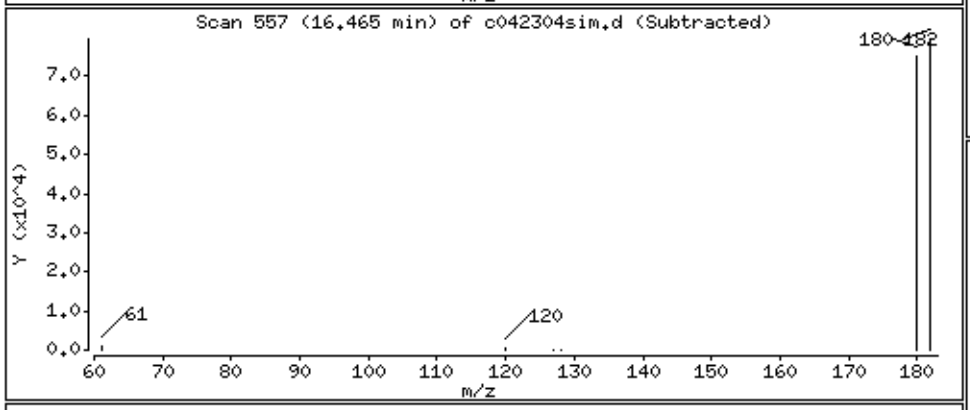
Column diameter: 0.25

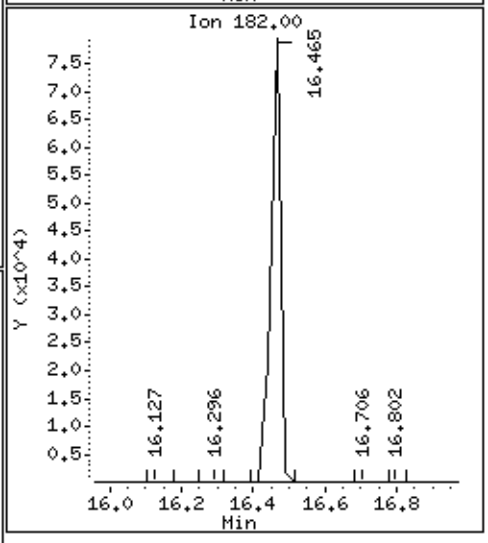
47 1,2,4-Trichlorobenzene

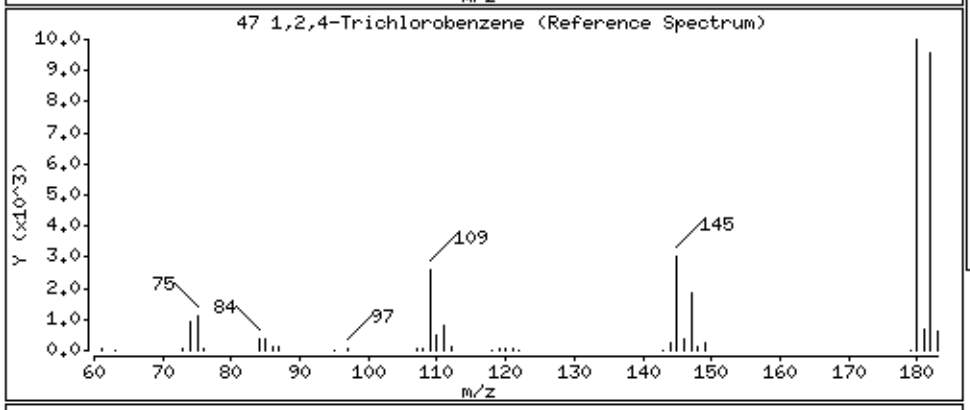
Concentration: 5.00176 ug

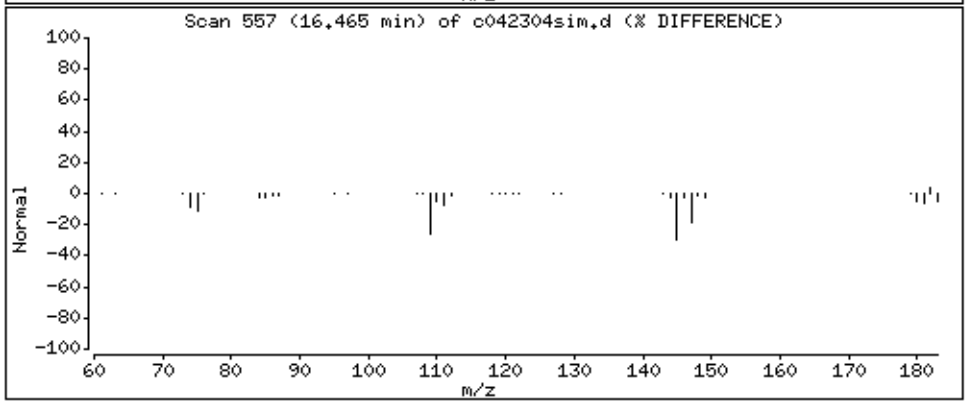












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

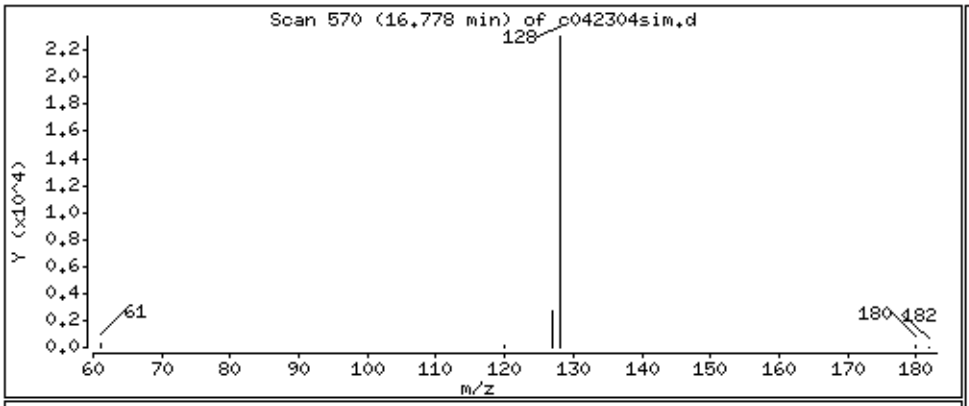
Operator: gm

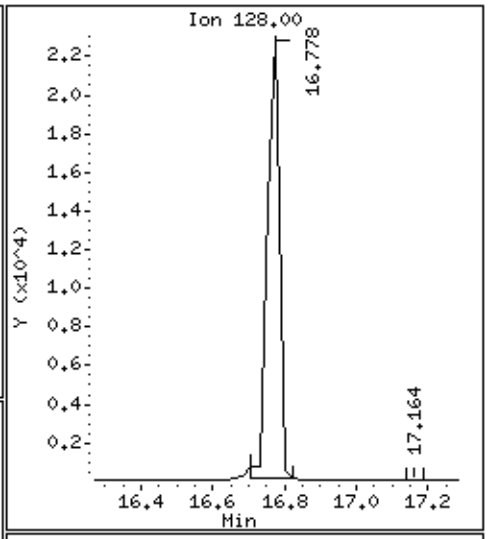
Column phase: DB-5.625

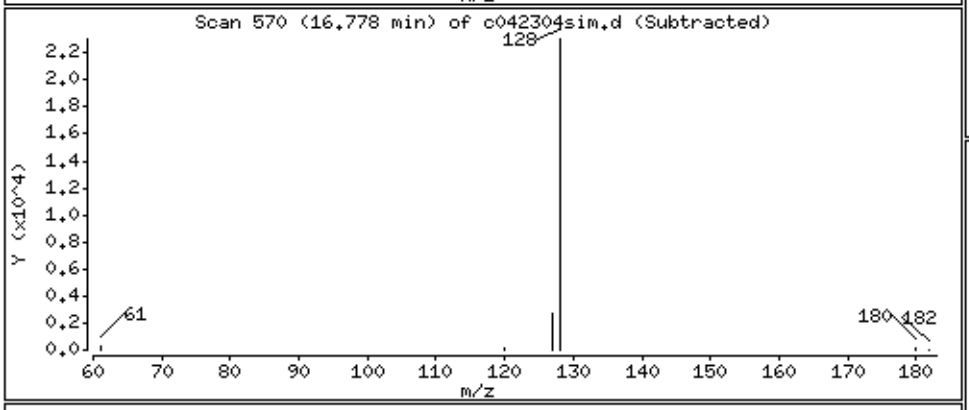
Column diameter: 0.25

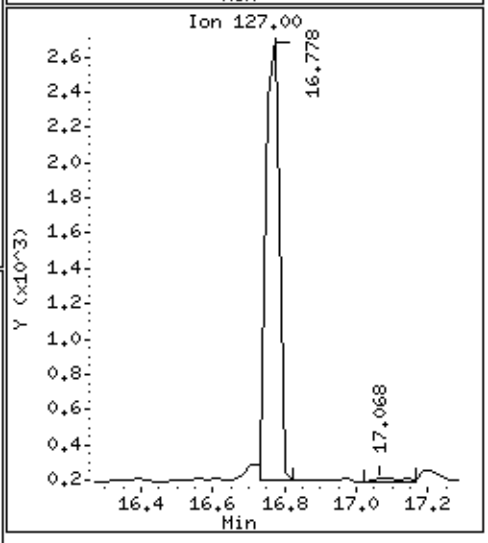
48 Naphthalene

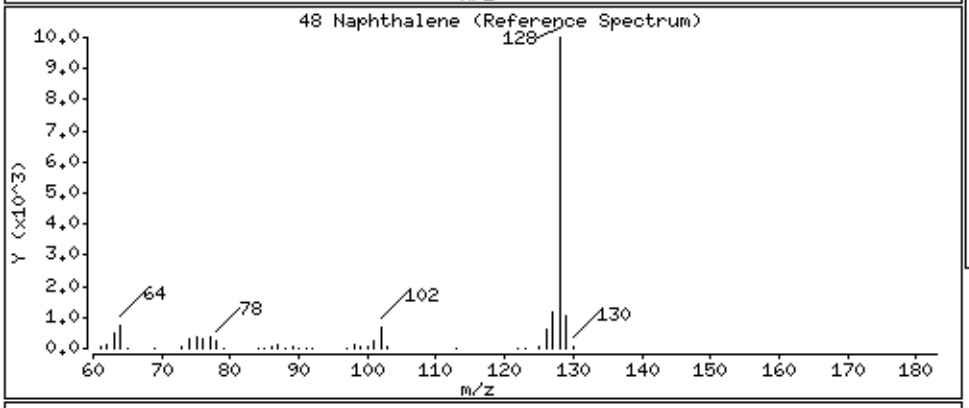
Concentration: 0.832735 ug

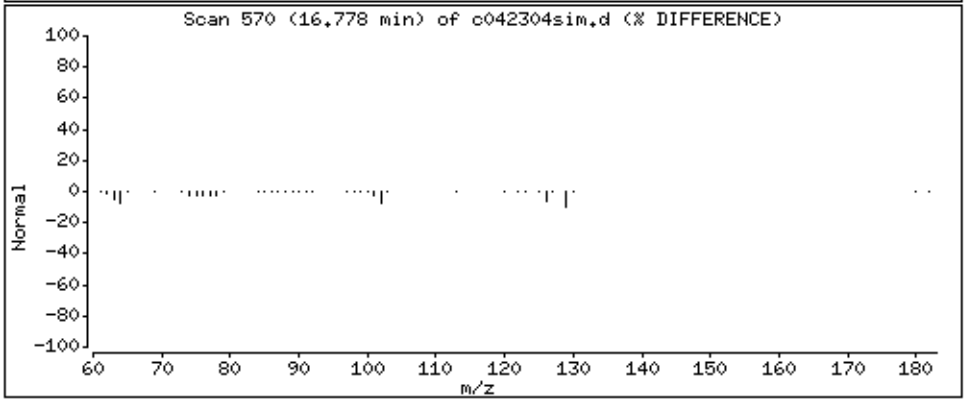












Data File: /chem/msdc.i/23Apr2015.b/c042304sim.d

Date : 23-APR-2015 09:57

Client ID: LCS

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCS

Volume Injected (uL): 1.0

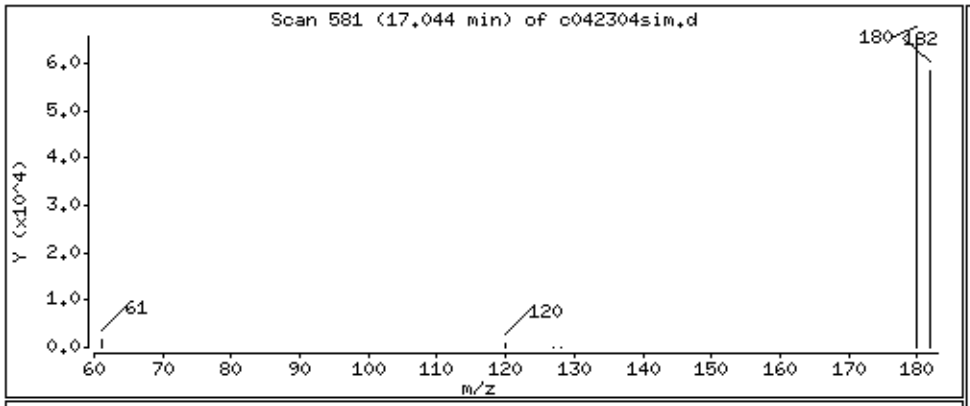
Operator: gm

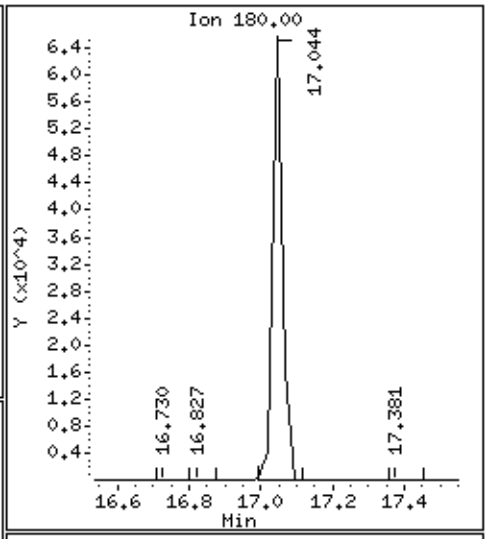
Column phase: DB-5.625

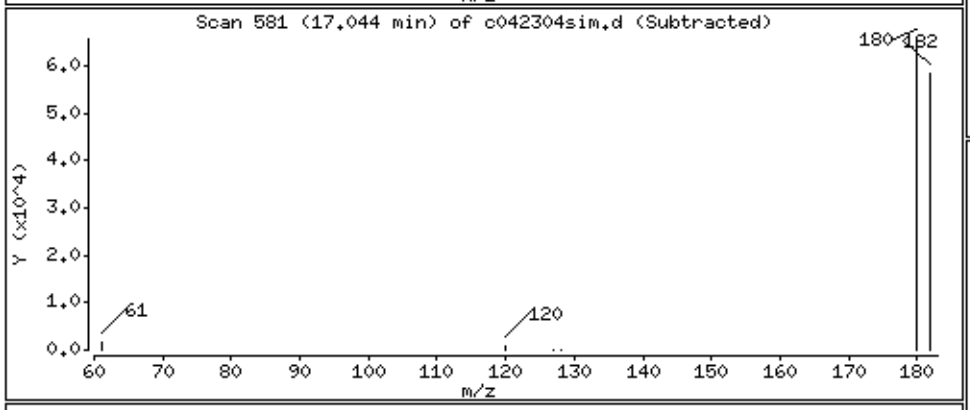
Column diameter: 0.25

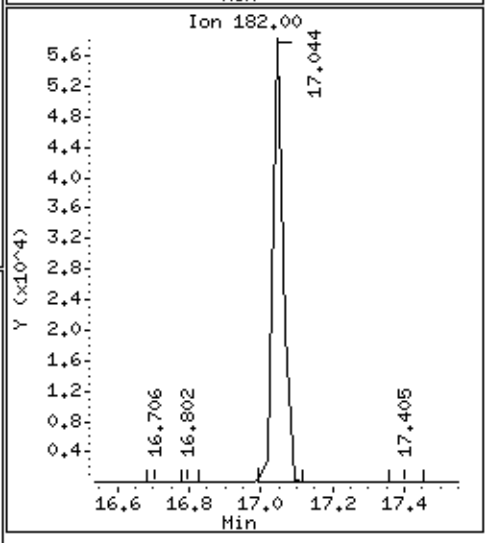
49 1,2,3-Trichlorobenzene

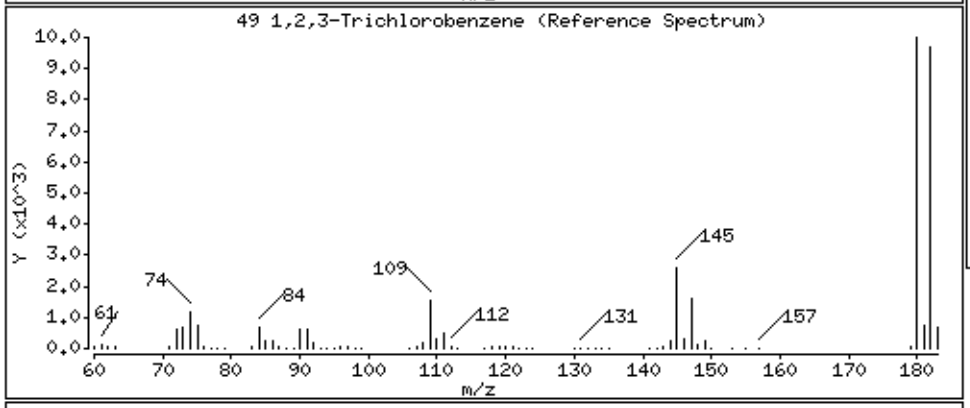
Concentration: 4.10012 ug

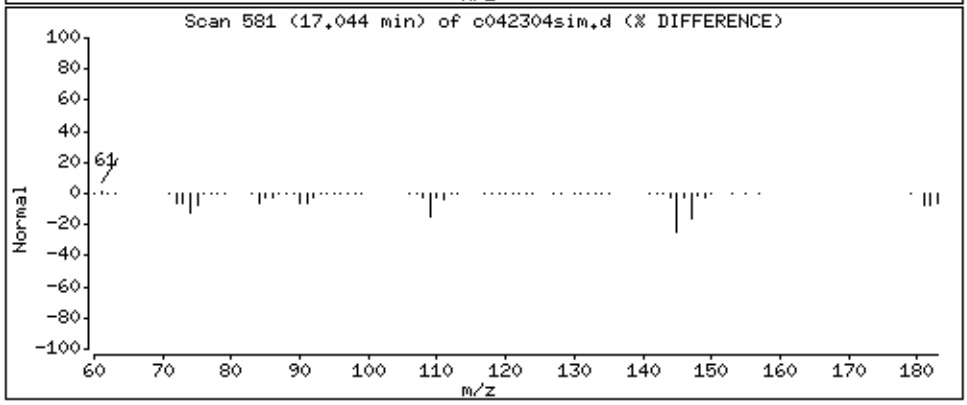












eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1504309R2-11AA

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**c042305sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/15 10:21 AM**	
		Date of Extraction: 4/23/15	

Compound	%Recovery	Method Limits
1,1,1-Trichloroethane	88	70-130
Benzene	100	70-130
1,2-Dichloroethane	93	70-130
Trichloroethene	85	70-130
Toluene	92	70-130
Tetrachloroethene	84	70-130
Ethyl Benzene	93	70-130
m,p-Xylene	89	70-130
o-Xylene	74	70-130
Naphthalene	8.3	5-80
1,1-Dichloroethane	95	70-130
1,1-Dichloroethene	109	70-130
cis-1,2-Dichloroethene	91	70-130
trans-1,2-Dichloroethene	84	70-130
1,1,2-Trichloroethane	89	70-130
1,2,4-Trimethylbenzene	82	70-130
1,3,5-Trimethylbenzene	82	70-130
Vinyl Chloride	91	50-140

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	115	70-130

Report Date: 23-Apr-2015 10:57

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 23Apr2015
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 1504275/309/364/379 Client Smp ID: LCSD
Level: MED Operator: gm
Data Type: MS DATA SampleType: LCSD
SpikeList File: RadLCS-CM.spk Quant Type: ISTD
Sublist File: all-cm.sub
Method File: /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 Vinyl Chloride	10.0000	9.10019	91.00	50-140
3 Ethanol	10.0000	5.30173	53.02	50-130
4 1,1-Dichloroethene	10.0000	10.9021	109.02	70-130
5 Acetone	10.0000	8.25865	82.59	70-130
7 MTBE	10.0000	9.35295	93.53	70-130
8 trans-1,2-Dichloro	10.0000	8.41284	84.13	70-130
9 Hexane	10.0000	11.9560	119.56	70-130
10 Halothane	10.0000	9.11521	91.15	70-130
11 1,1-Dichloroethane	10.0000	9.53236	95.32	70-130
12 Ethyl Acetate	10.0000	9.35525	93.55	70-130
13 2-Butanone	10.0000	9.11369	91.14	70-130
14 cis-1,2-Dichloroet	10.0000	9.06208	90.62	70-130
15 Chloroform-CCC	10.0000	9.22360	92.24	70-130
16 Cyclohexane	10.0000	10.2030	102.03	70-130
17 1,1,1-Trichloroeth	10.0000	8.77372	87.74	70-130
18 Carbon Tetrachlori	10.0000	8.11343	81.13	70-130
19 Benzene	10.0000	9.97927	99.79	70-130
20 1,2-Dichloroethane	10.0000	9.26261	92.63	70-130
21 Heptane	10.0000	10.4751	104.75	70-130
22 Trichloroethene	10.0000	8.52756	85.28	70-130
23 Methyl Methacrylat	10.0000	8.80609	88.06	70-130
24 4-Methyl-2-pentano	10.0000	9.88092	98.81	70-130
26 Toluene-CCC	10.0000	9.15603	91.56	70-130
28 1,1,2-Trichloroeth	10.0000	8.86053	88.61	70-130
29 Tetrachloroethene	10.0000	8.35074	83.51	70-130
30 Chlorobenzene	10.0000	8.00754	80.08	70-130
31 Ethylbenzene-CCC	10.0000	9.28306	92.83	70-130
32 1,1,1,2-Tetrachlor	10.0000	8.28973	82.90	70-130
33 m,p-Xylene	20.0000	17.8621	89.31	70-130
34 o-Xylene	10.0000	7.37432	73.74	70-130
35 Styrene	10.0000	5.32708	53.27	20-100
36 a-Pinene	10.0000	11.7322	117.32	70-130
37 1,1,2,2-Tetrachlor	10.0000	8.89187	88.92	70-130

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
38 Propylbenzene	10.0000	8.98959	89.90	70-130
39 1,2,3-Trichloropro	10.0000	8.72105	87.21	70-130
40 1,3,5-Trimethylben	10.0000	8.23459	82.35	70-130
41 1,2,4-Trimethylben	10.0000	8.22414	82.24	70-130
42 R-(+)-Limonene	10.0000	10.2050	102.05	70-130
43 1,3-Dichlorobenzen	10.0000	6.51056	65.11	50-110
44 1,4-Dichlorobenzen	10.0000	6.67738	66.77	50-110
45 1,2-Dichlorobenzen	10.0000	5.97327	59.73	50-110
46 1,4-Dithiane	10.0000	8.10989	81.10	50-110
47 1,2,4-Trichloroben	10.0000	5.42602	54.26	20-110
48 Naphthalene	10.0000	0.834298	8.34	5-80
49 1,2,3-Trichloroben	10.0000	4.52485	45.25	20-110

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 25 Toluene-d8	10.0000	11.5229	115.23	70-130

Eurofins Air Toxics Inc.

Passive SE GC/MS

Data file : /chem/msdc.i/23Apr2015.b/c042305sim.d
Lab Smp Id: 1504275/309/364/379 Client Smp ID: LCSD
Inj Date : 23-APR-2015 10:21
Operator : gm Inst ID: msdc.i
Smp Info : ;1504275/309/364/379;LCSD
Misc Info : ,NOTICS
Comment : GC/MS
Method : /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Meth Date : 23-Apr-2015 09:36 gmash Quant Type: ISTD
Cal Date : 15-APR-2015 11:23 Cal File: c041509sim.d
Als bottle: 3 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all-cm.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vt * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
2 Vinyl Chloride	62	3.444	3.444	(0.313)	54515	4.55010	9.10019
3 Ethanol	45	5.009	4.985	(0.456)	14014	2.65087	5.30173
4 1,1-Dichloroethene-CCC	96	5.454	5.454	(0.496)	40129	5.45106	10.9021
5 Acetone	58	5.588	5.588	(0.508)	33494	4.12933	8.25865
7 MTBE	73	6.528	6.528	(0.594)	155550	4.67648	9.35295
8 trans-1,2-Dichloroethene	96	6.555	6.583	(0.596)	48481	4.20642	8.41284
9 Hexane	57	6.747	6.775	(0.614)	205245	5.97799	11.9560
10 Halothane	117	6.960	6.985	(0.633)	34365	4.55760	9.11521
11 1,1-Dichloroethane-SPCC	63	7.057	7.057	(0.642)	120112	4.76618	9.53236
12 Ethyl Acetate	70	7.662	7.662	(0.697)	16309	4.67762	9.35525
13 2-Butanone	72	7.662	7.662	(0.697)	34902	4.55685	9.11369
14 cis-1,2-Dichloroethene	96	7.662	7.684	(0.697)	56572	4.53104	9.06208
15 Chloroform-CCC	83	7.987	7.987	(0.726)	97950	4.61180	9.22360
16 Cyclohexane	84	8.172	8.203	(0.743)	109394	5.10148	10.2030
17 1,1,1-Trichloroethane	97	8.203	8.203	(0.746)	86437	4.38686	8.77372
18 Carbon Tetrachloride	117	8.357	8.357	(0.760)	80326	4.05671	8.11343

			QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug)
	19	Benzene	78	8.603	8.603	(0.783)	240643	4.98963	9.97927
	20	1,2-Dichloroethane	62	8.696	8.696	(0.791)	102636	4.63130	9.26261
	21	Heptane	71	8.726	8.726	(0.794)	94565	5.23755	10.4751
	22	Trichloroethene	130	9.331	9.331	(0.849)	67884	4.26378	8.52756
	23	Methyl Methacrylate	69	9.644	9.644	(0.877)	69661	4.40304	8.80609
	24	4-Methyl-2-pentanone	85	10.512	10.511	(0.956)	30772	4.94046	9.88092
$	25	Toluene-d8	98	10.656	10.656	(0.969)	263356	5.76144	11.5229
	26	Toluene-CCC	92	10.728	10.728	(0.976)	180757	4.57802	9.15603
*	27	2-Fluorotoluene	109	10.993	10.993	(1.000)	277701	5.00000	
	28	1,1,2-Trichloroethane	97	11.234	11.234	(1.022)	70415	4.43027	8.86053
	29	Tetrachloroethene	164	11.331	11.331	(1.031)	75843	4.17537	8.35074
	30	Chlorobenzene	112	12.325	12.325	(1.121)	187245	4.00377	8.00754
	31	Ethylbenzene-CCC	106	12.377	12.377	(1.126)	117843	4.64153	9.28306
	32	1,1,1,2-Tetrachloroethane	131	12.403	12.402	(1.128)	68747	4.14487	8.28973
	33	m,p-Xylene	106	12.506	12.506	(1.138)	317296	8.93105	17.8621
	34	o-Xylene	106	12.956	12.956	(1.178)	104106	3.68716	7.37432
	35	Styrene	104	12.956	12.956	(1.178)	126338	2.66354	5.32708
	36	a-Pinene	93	13.230	13.230	(1.203)	194307	5.86609	11.7322
	37	1,1,2,2-Tetrachloroethane-SPC	83	13.614	13.614	(1.238)	154605	4.44594	8.89187
	38	Propylbenzene	91	13.669	13.669	(1.243)	608489	4.49480	8.98959
	39	1,2,3-Trichloropropane	110	13.697	13.697	(1.246)	59256	4.36053	8.72105
	40	1,3,5-Trimethylbenzene	105	13.834	13.834	(1.258)	262431	4.11729	8.23459
	41	1,2,4-Trimethylbenzene	105	14.174	14.174	(1.289)	330533	4.11207	8.22414
	42	R-(+)-Limonene	68	14.367	14.367	(1.307)	171577	5.10251	10.2050
	43	1,3-Dichlorobenzene	146	14.488	14.488	(1.318)	142377	3.25528	6.51056
	44	1,4-Dichlorobenzene	146	14.560	14.560	(1.324)	189434	3.33869	6.67738
	45	1,2-Dichlorobenzene	146	14.897	14.897	(1.355)	120128	2.98663	5.97327
	46	1,4-Dithiane	120	15.380	15.380	(1.399)	130982	4.05494	8.10989
	47	1,2,4-Trichlorobenzene	180	16.465	16.465	(1.498)	124049	2.71301	5.42602
	48	Naphthalene	128	16.778	16.778	(1.526)	42088	0.41715	0.834298
	49	1,2,3-Trichlorobenzene	180	17.044	17.044	(1.550)	102550	2.26243	4.52485

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdc.i
Lab File ID: c042305sim.d
Lab Smp Id: 1504275/309/364/379
Analysis Type: SV
Quant Type: ISTD
Operator: gm
Method File: /chem/msdc.i/23Apr2015.b/C15r0415.m/C15r0415b.m
Misc Info: ,NOTICS

Calibration Date: 23-APR-2015
Calibration Time: 09:09
Client Smp ID: LCSD
Level: MED
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	324554	162277	649108	277701	-14.44

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
27 2-Fluorotoluene	10.99	10.49	11.49	10.99	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

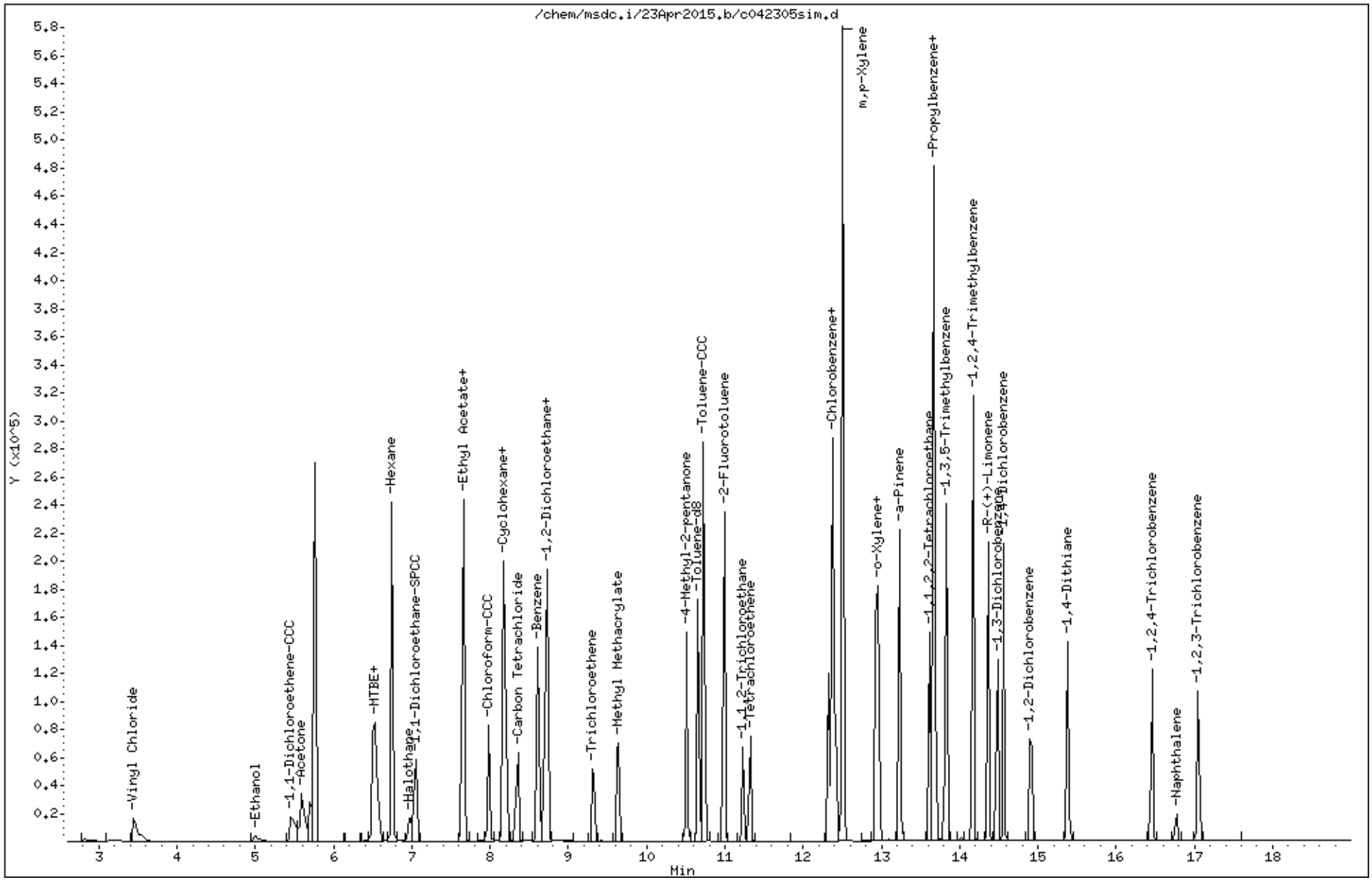
Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

Operator: gm

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

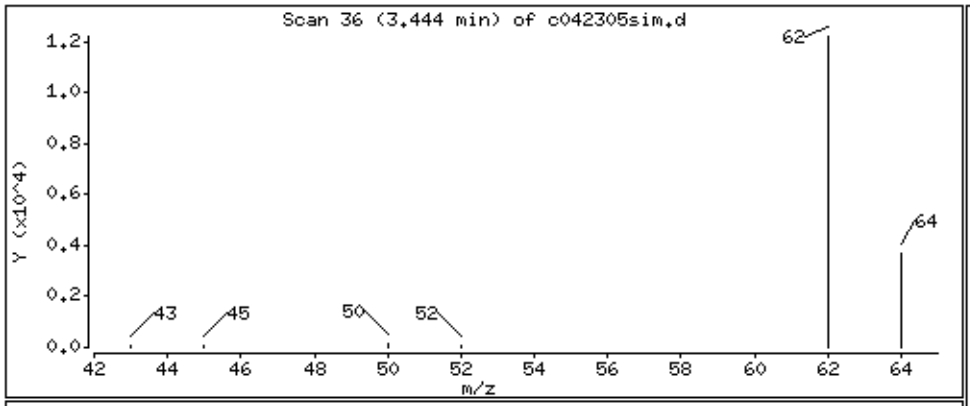
Operator: gm

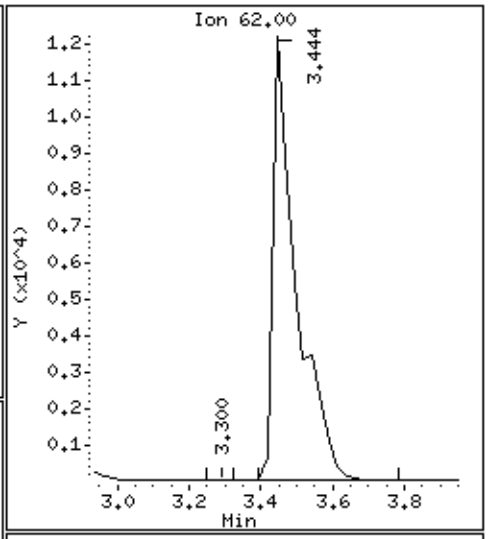
Column phase: DB-5.625

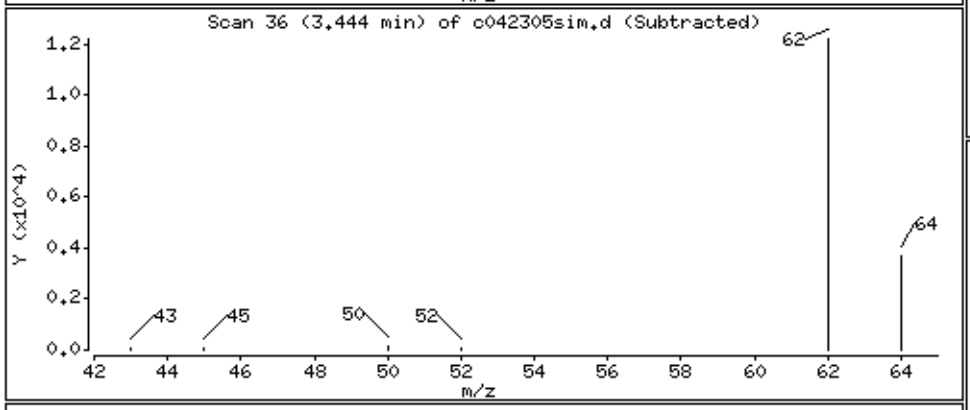
Column diameter: 0.25

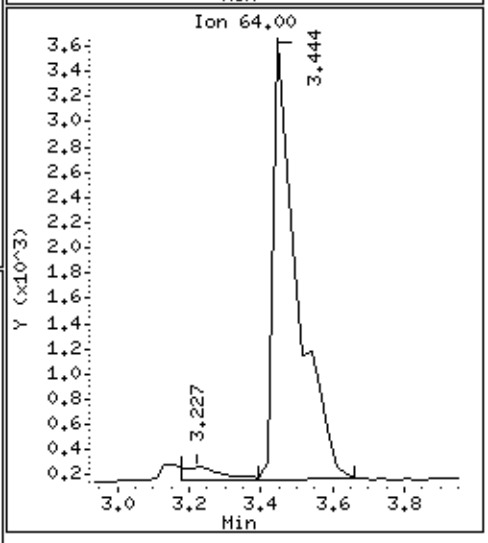
2 Vinyl Chloride

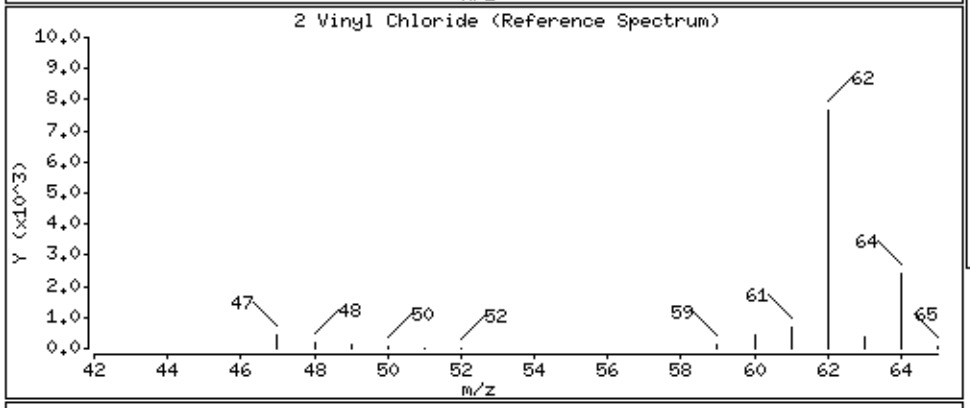
Concentration: 9.10019 ug

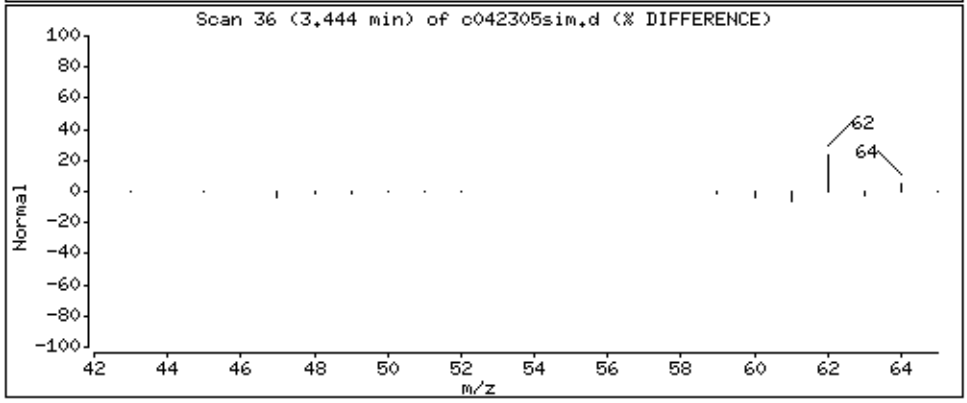












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

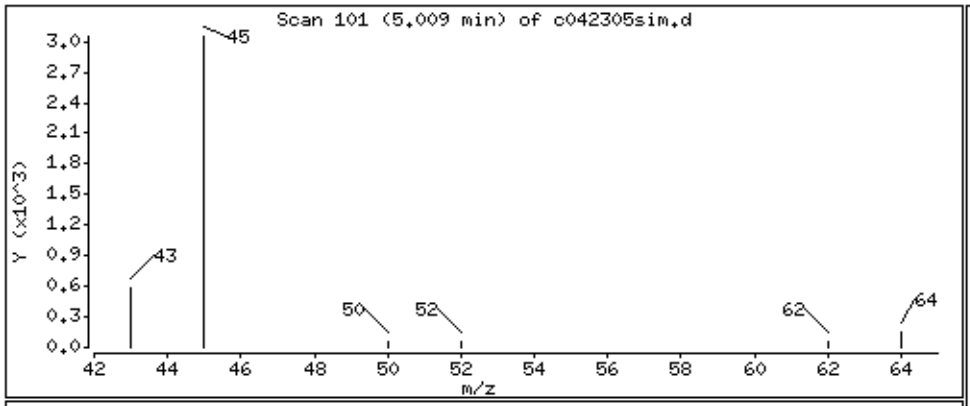
Operator: gm

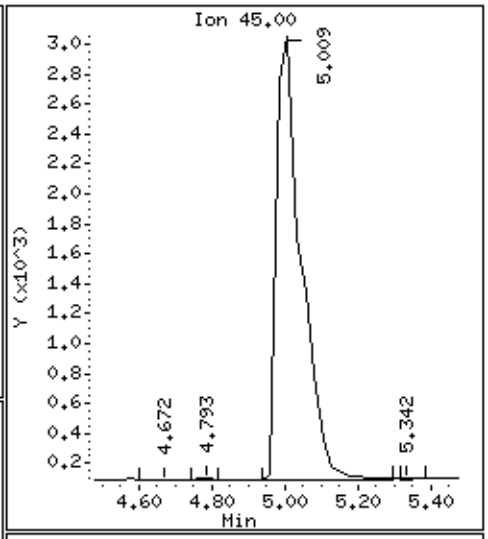
Column phase: DB-5.625

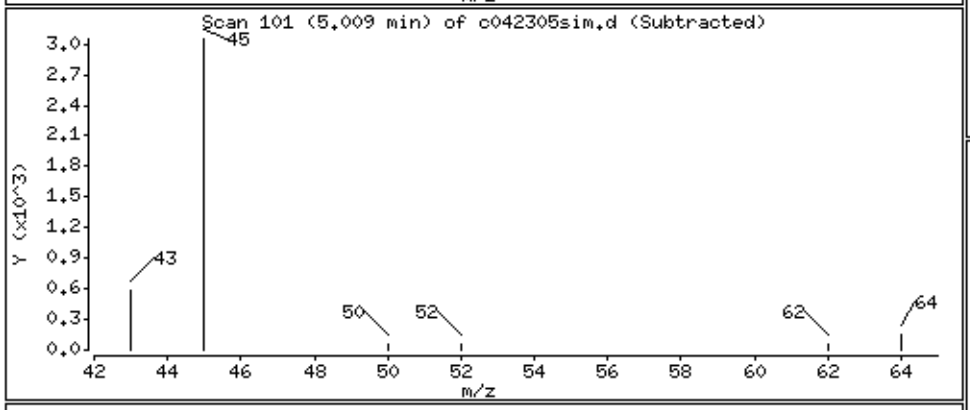
Column diameter: 0.25

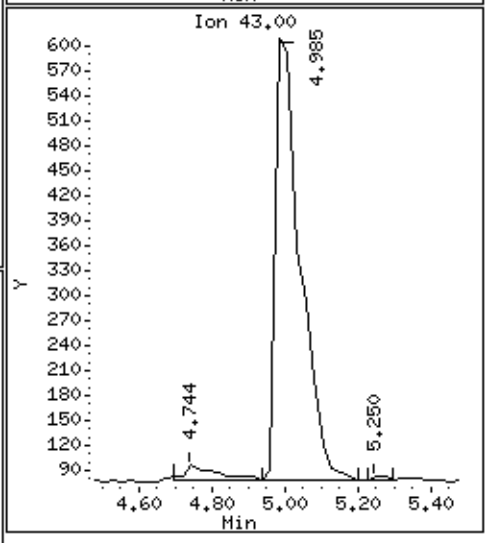
3 Ethanol

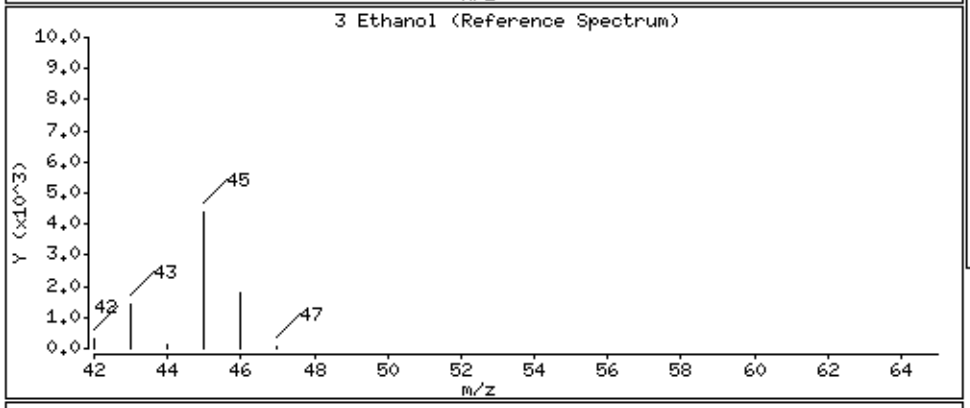
Concentration: 5.30173 ug

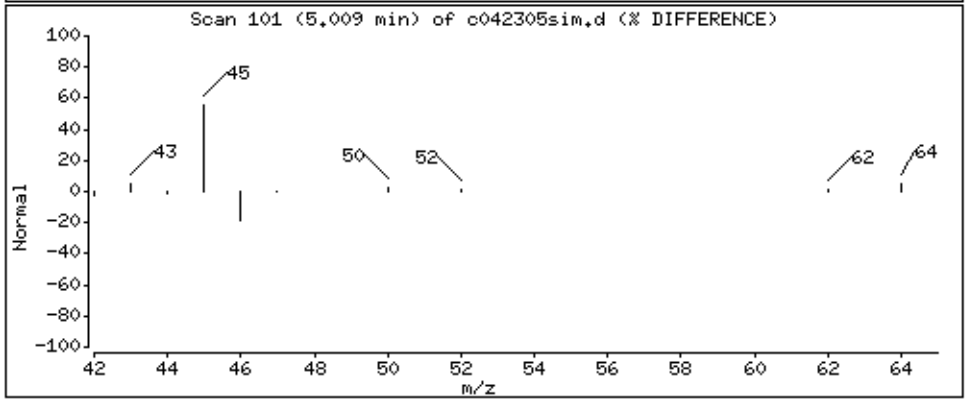












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

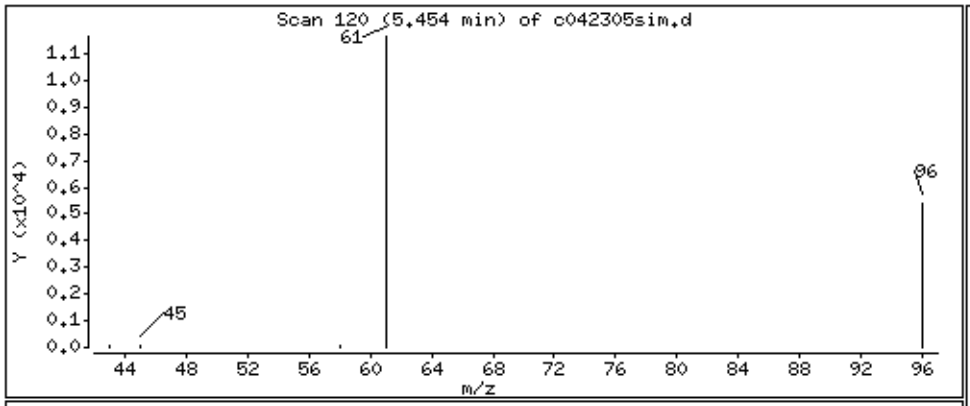
Operator: gm

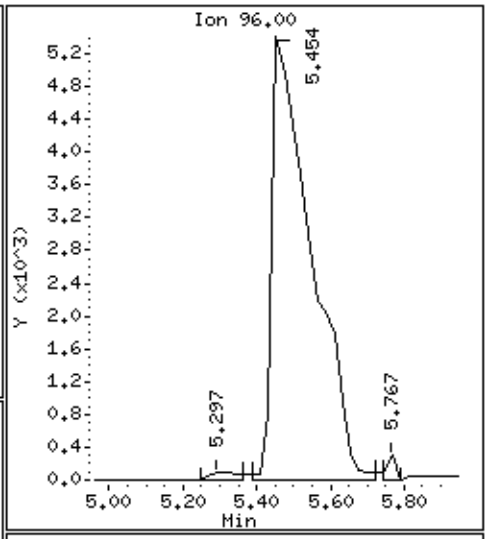
Column phase: DB-5.625

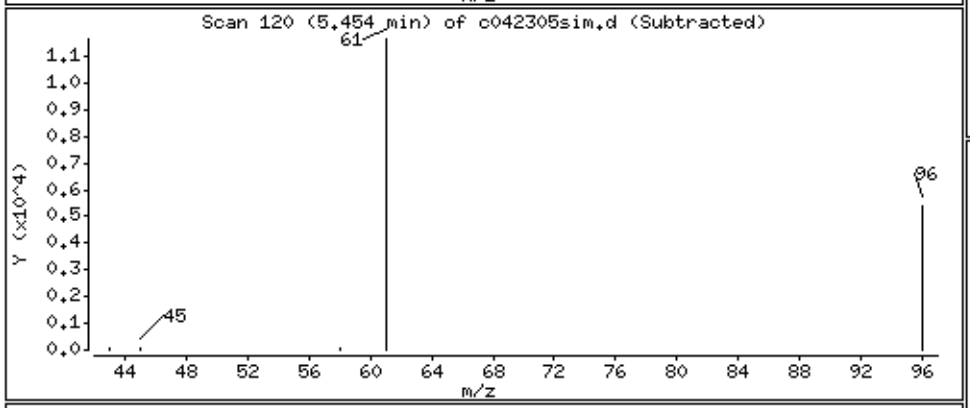
Column diameter: 0.25

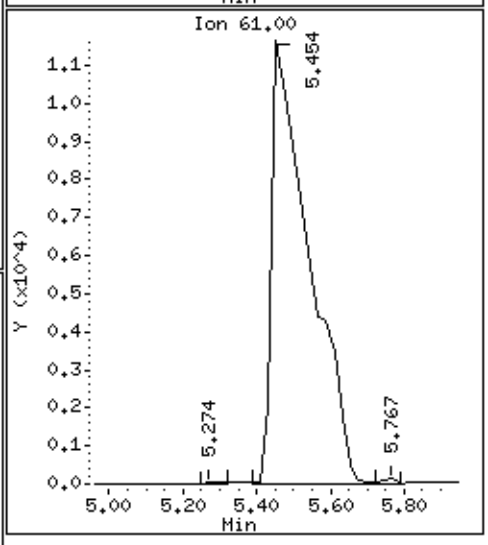
4 1,1-Dichloroethene-CCC

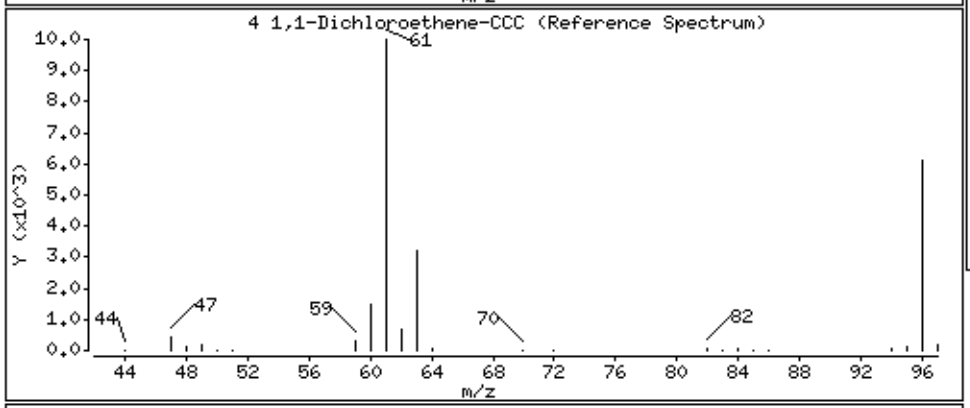
Concentration: 10.9021 ug

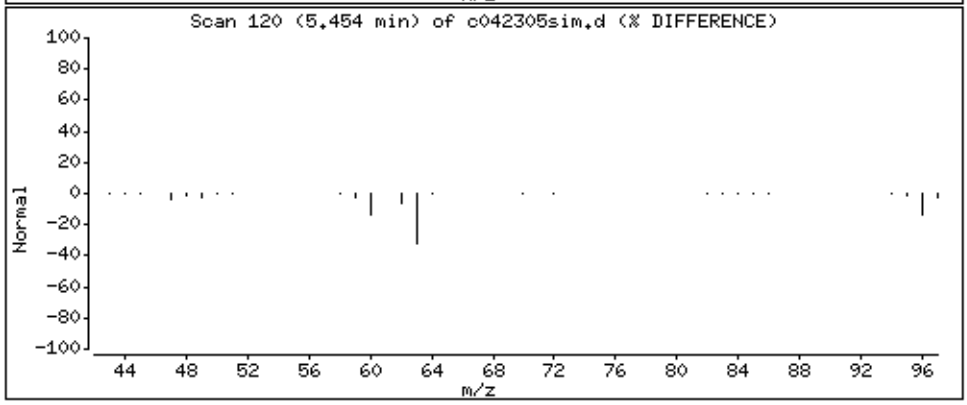












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

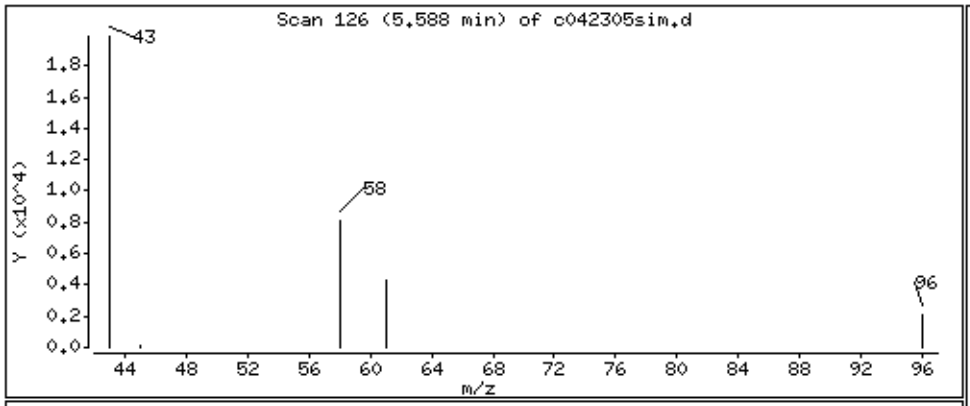
Operator: gm

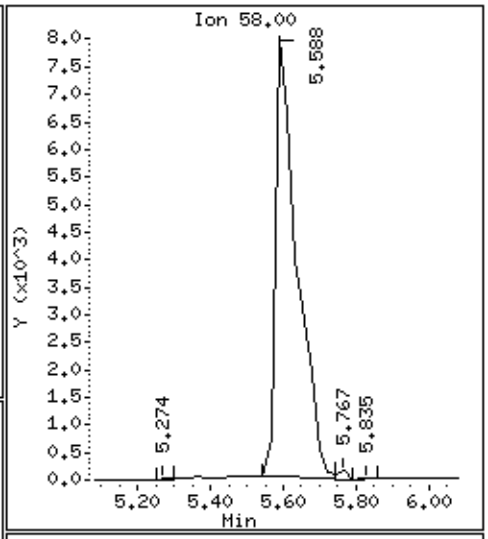
Column phase: DB-5.625

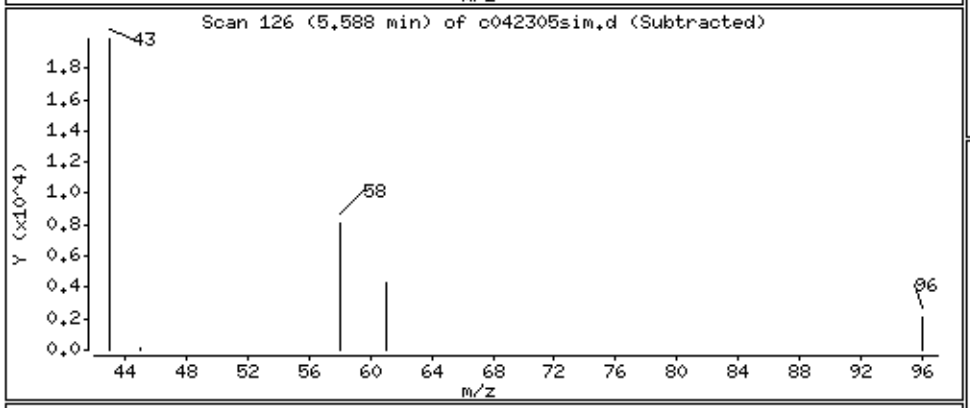
Column diameter: 0.25

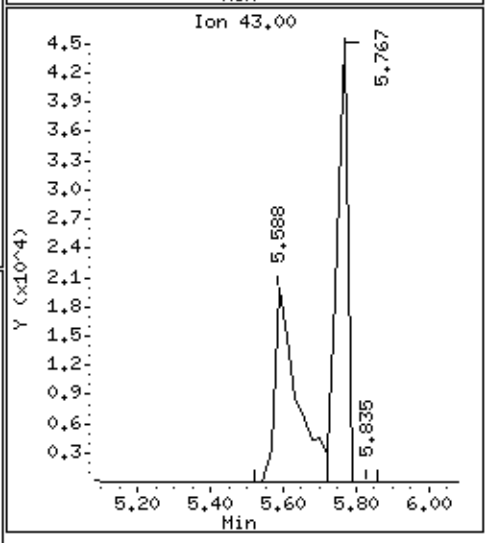
5 Acetone

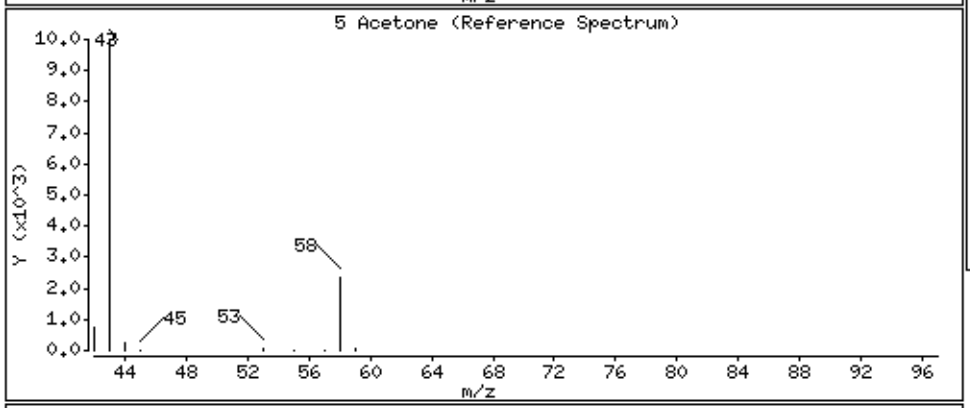
Concentration: 8.25865 ug

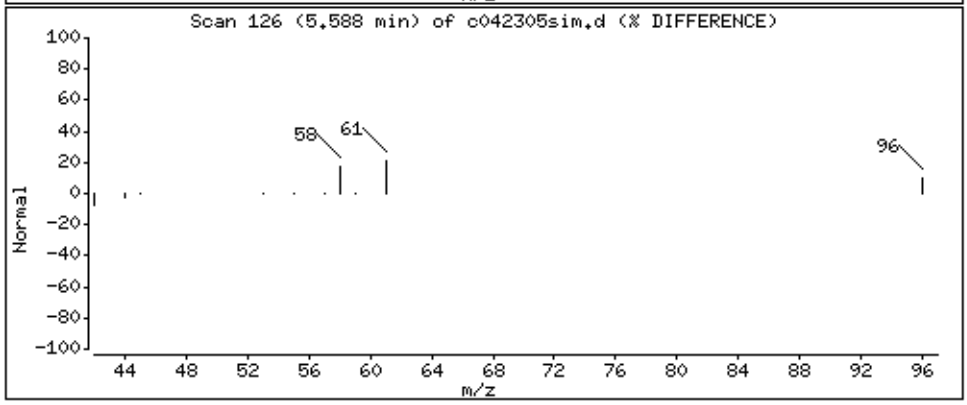












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

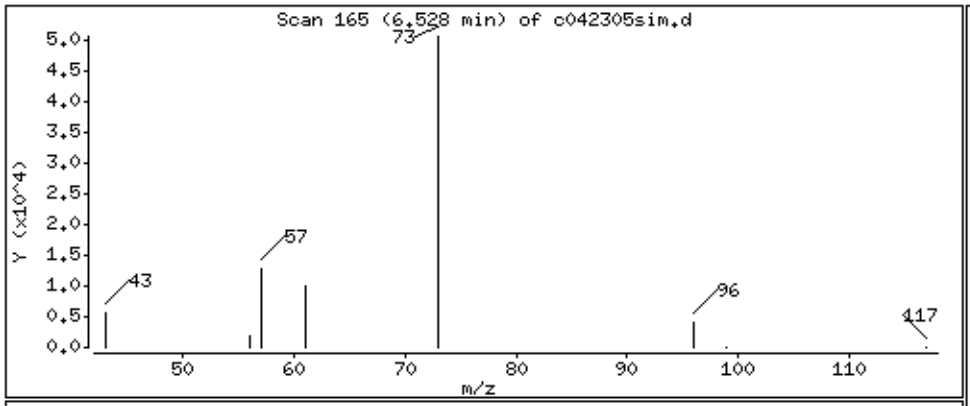
Operator: gm

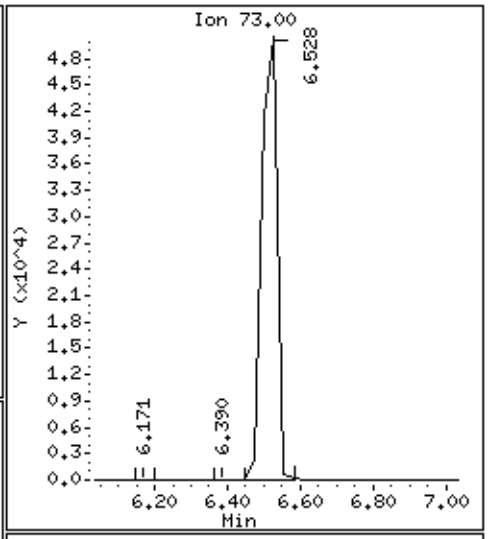
Column phase: DB-5.625

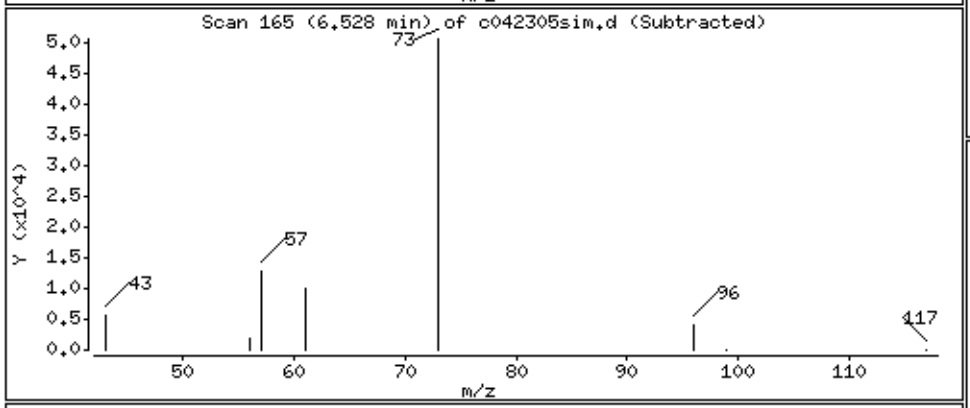
Column diameter: 0.25

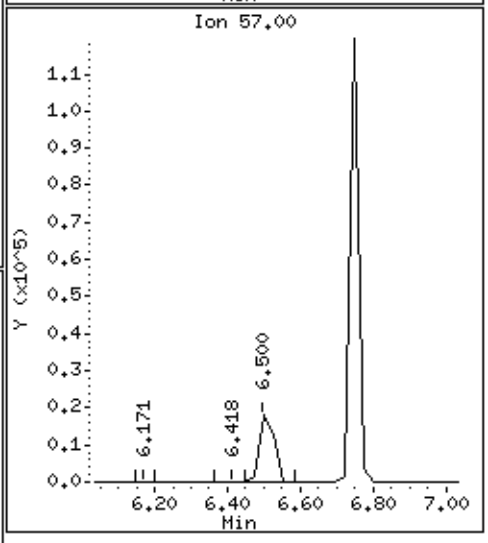
7 MTBE

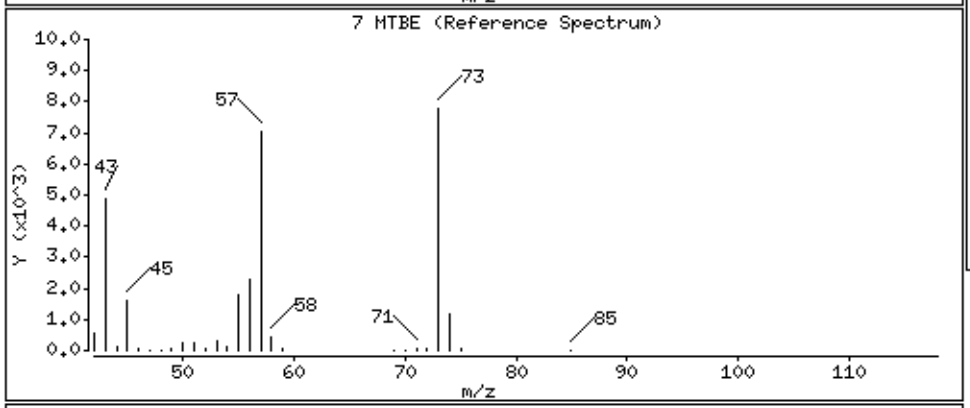
Concentration: 9.35295 ug

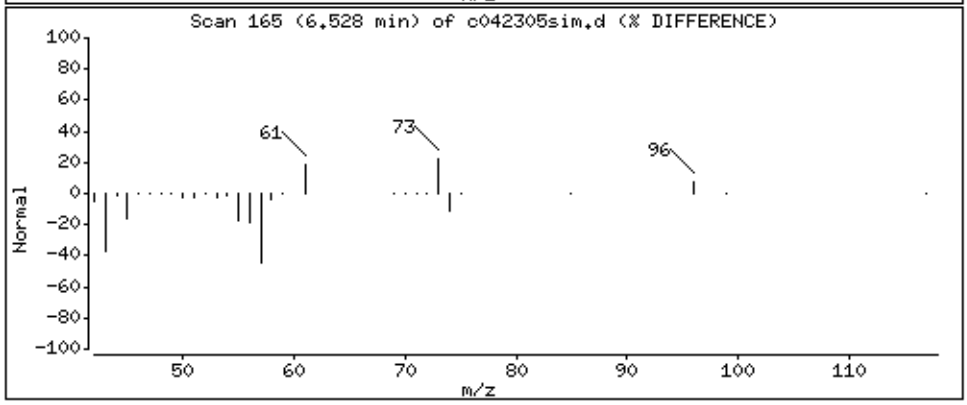












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

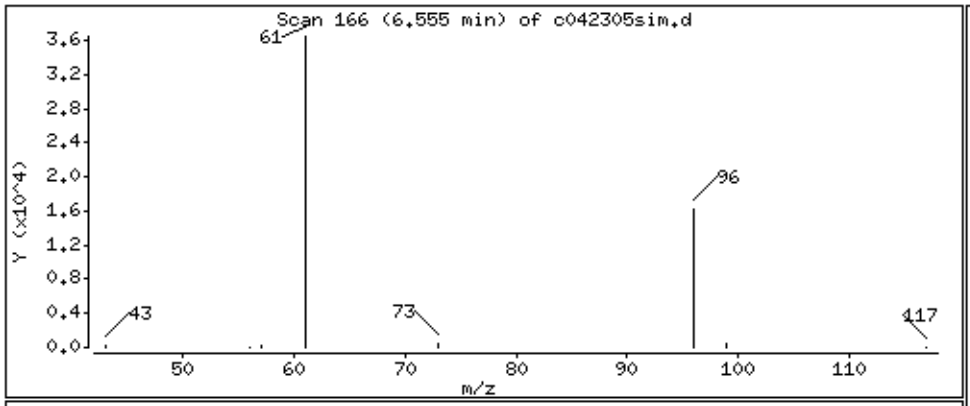
Operator: gm

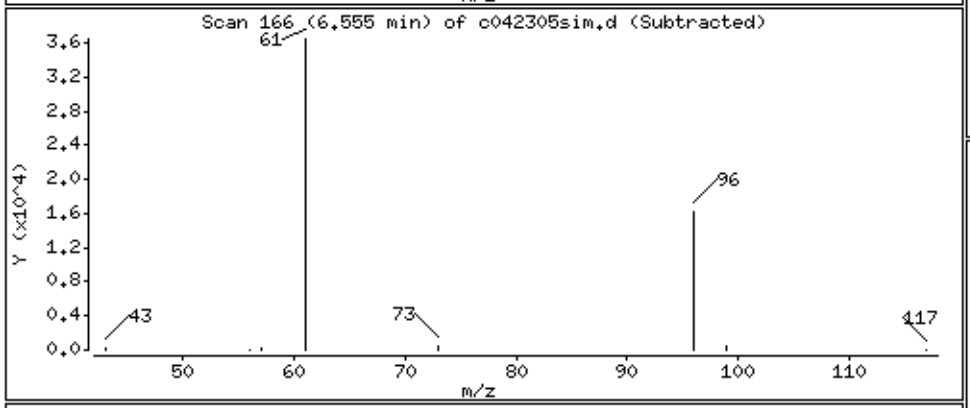
Column phase: DB-5.625

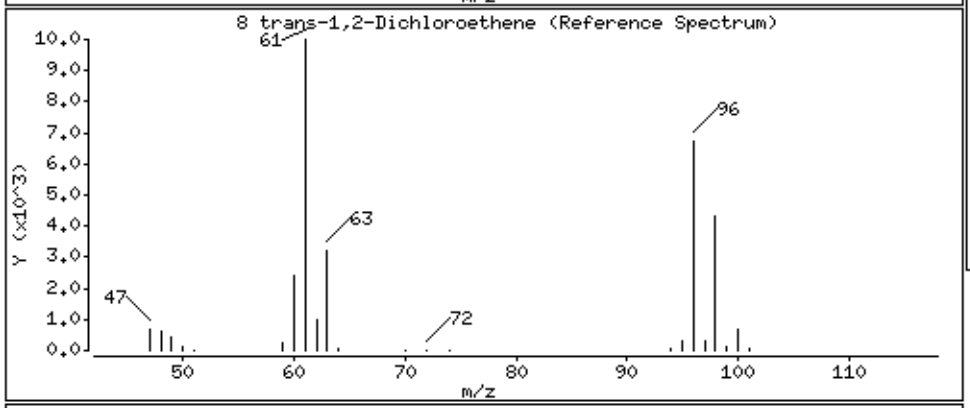
Column diameter: 0.25

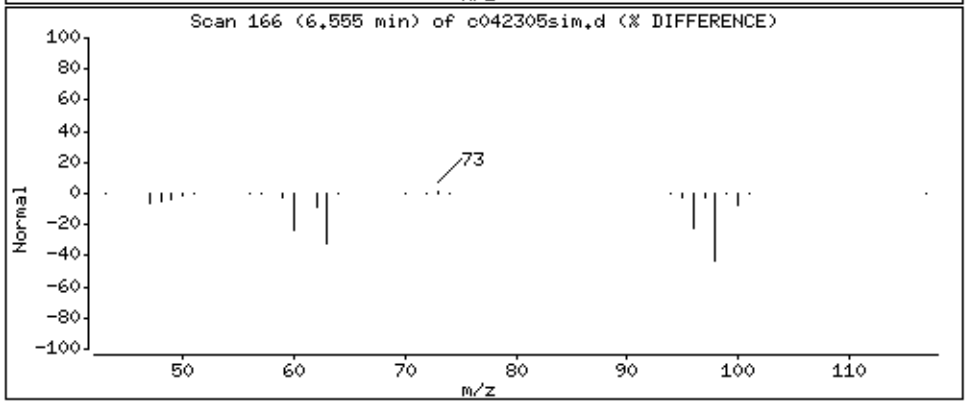
8 trans-1,2-Dichloroethene

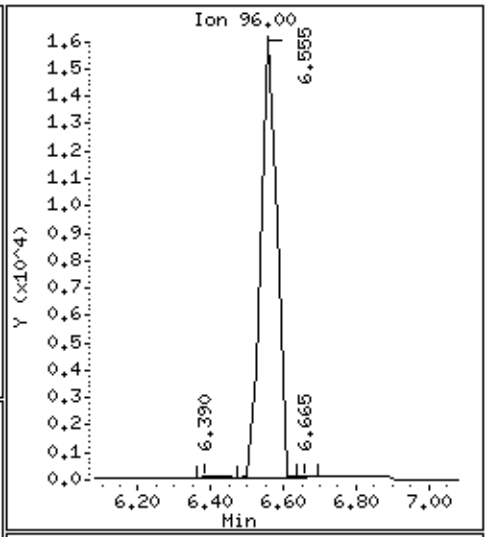
Concentration: 8.41284 ug

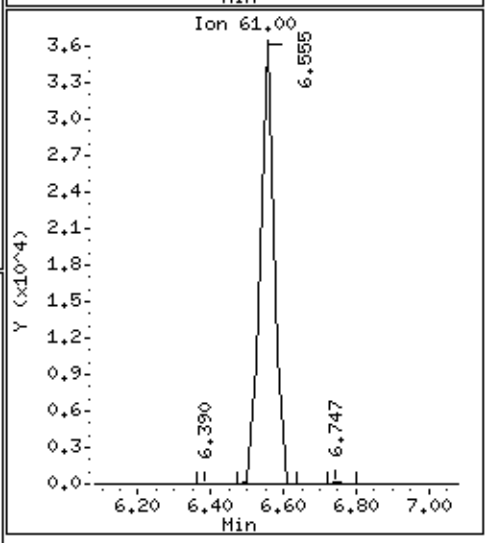












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

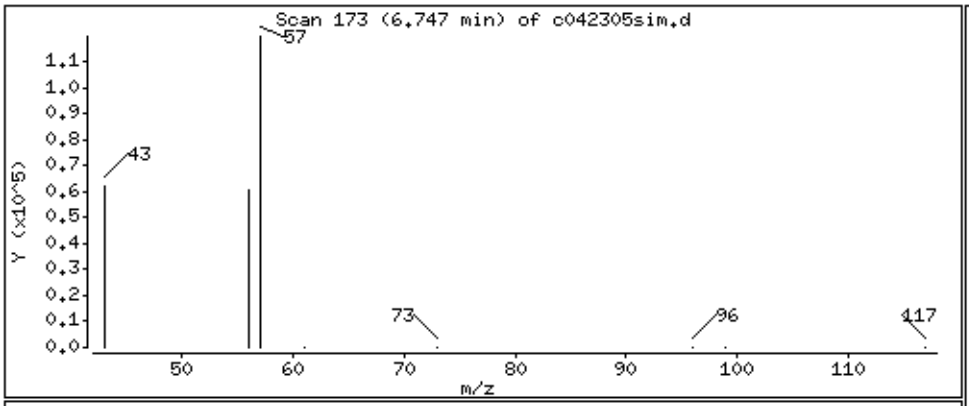
Operator: gm

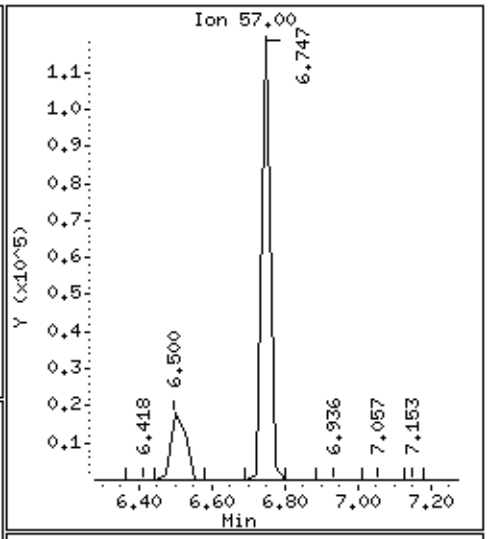
Column phase: DB-5.625

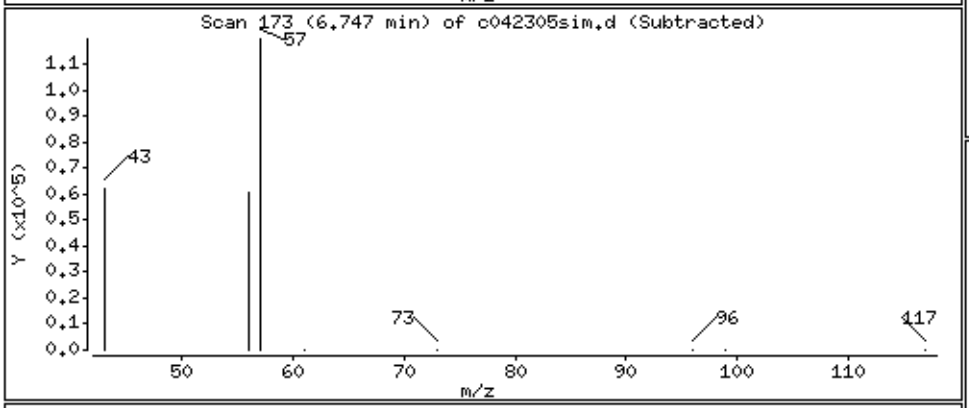
Column diameter: 0.25

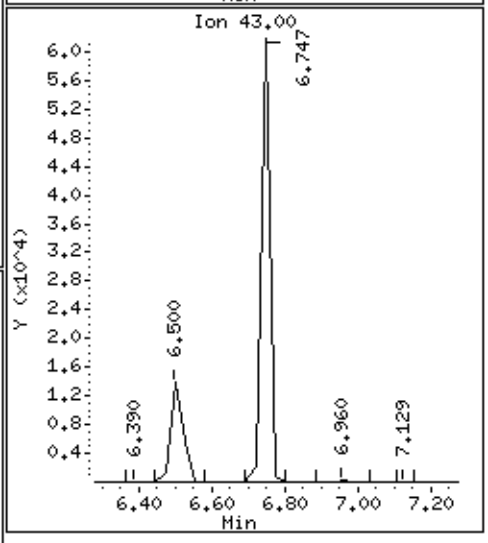
9 Hexane

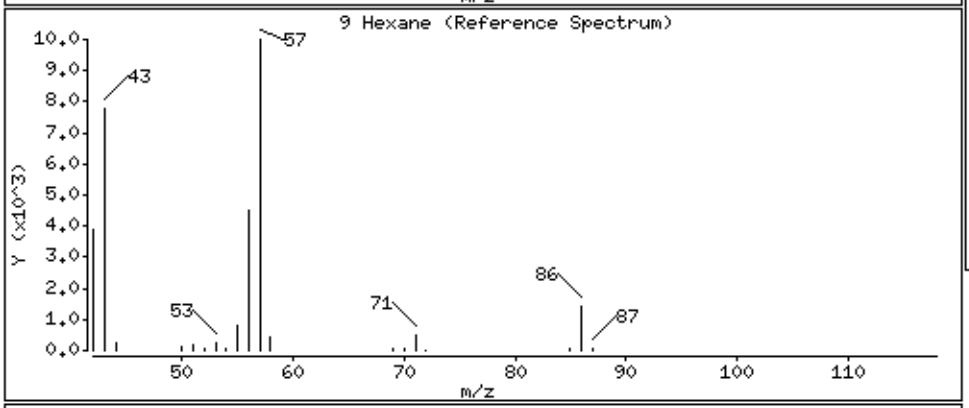
Concentration: 11.9560 ug

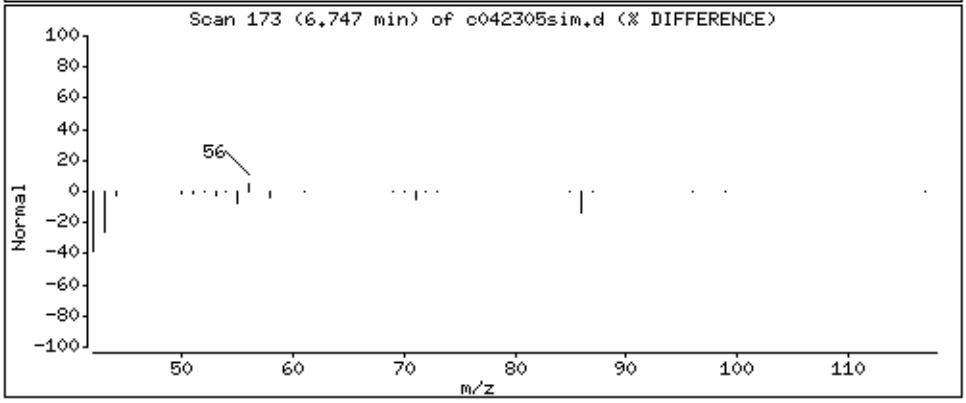












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

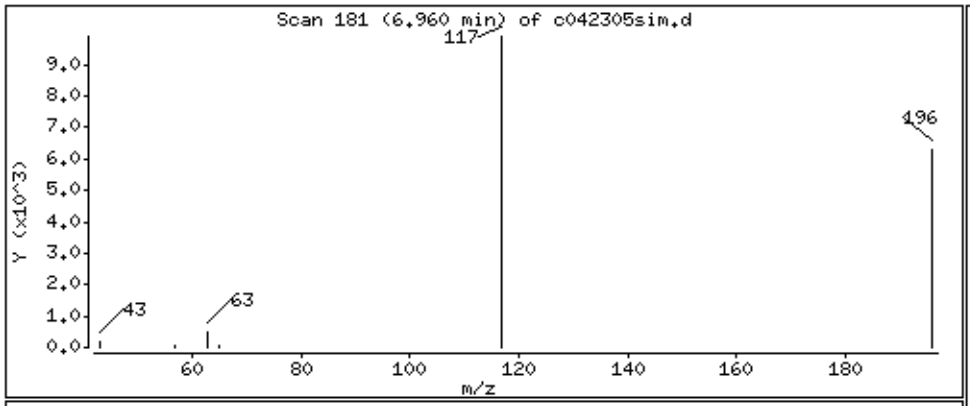
Operator: gm

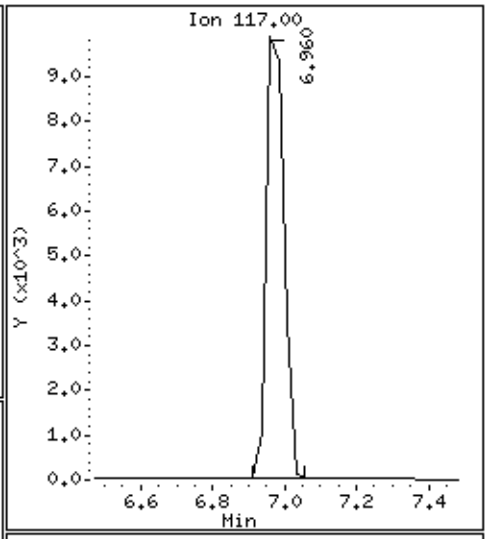
Column phase: DB-5.625

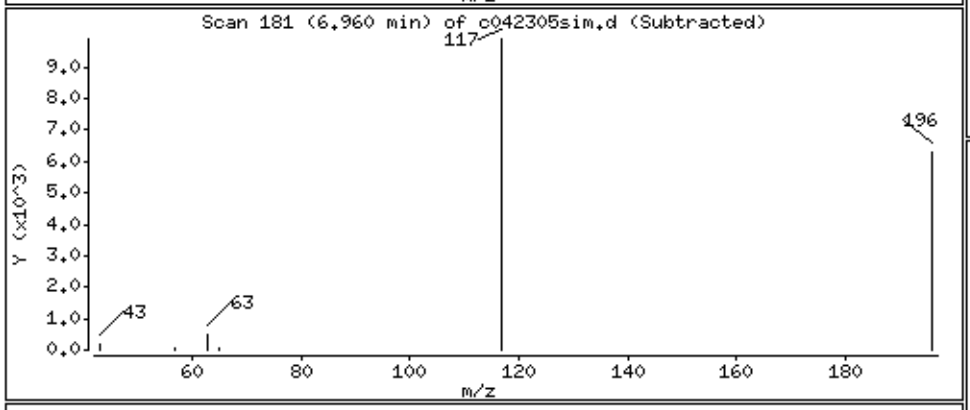
Column diameter: 0.25

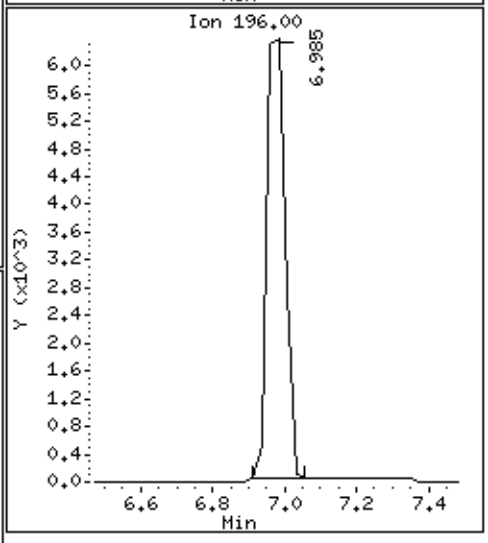
10 Halothane

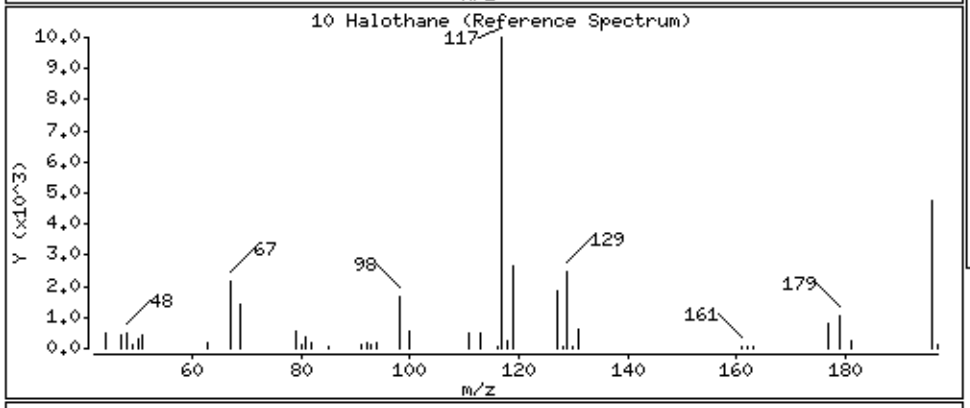
Concentration: 9.11521 ug

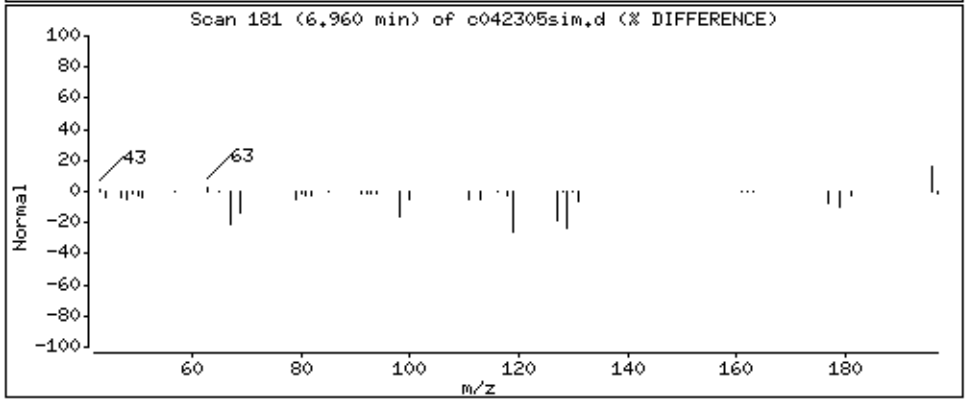












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

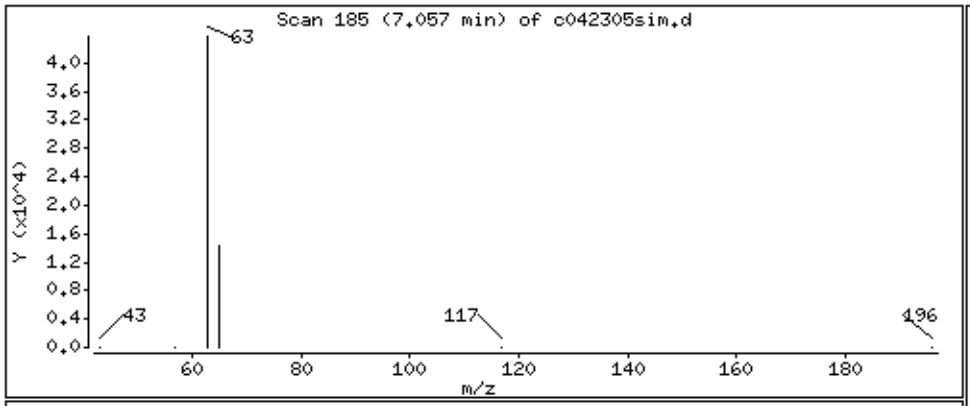
Operator: gm

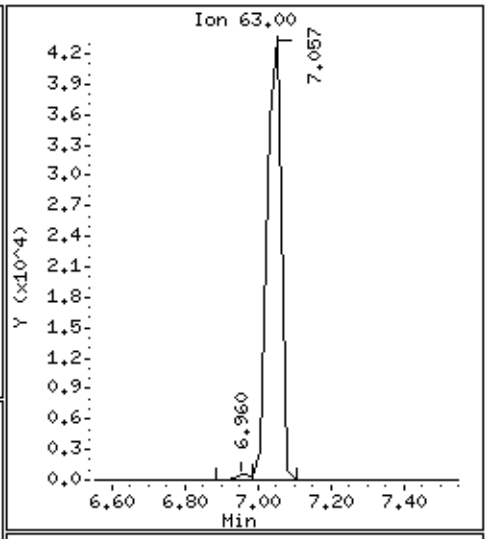
Column phase: DB-5.625

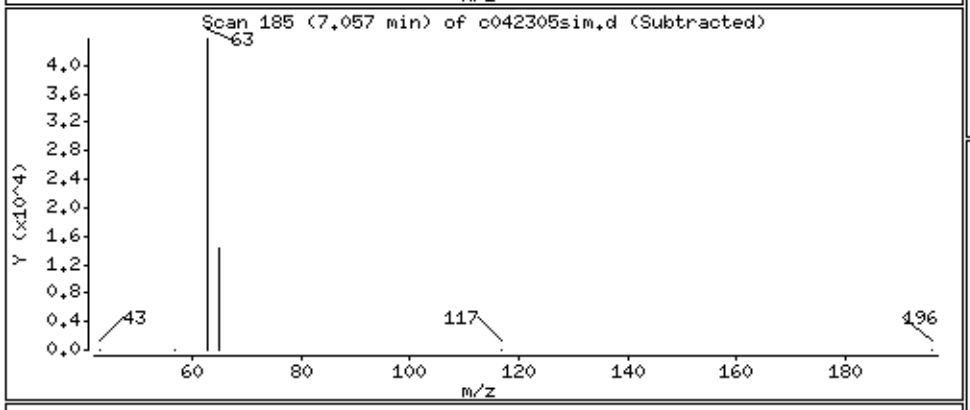
Column diameter: 0.25

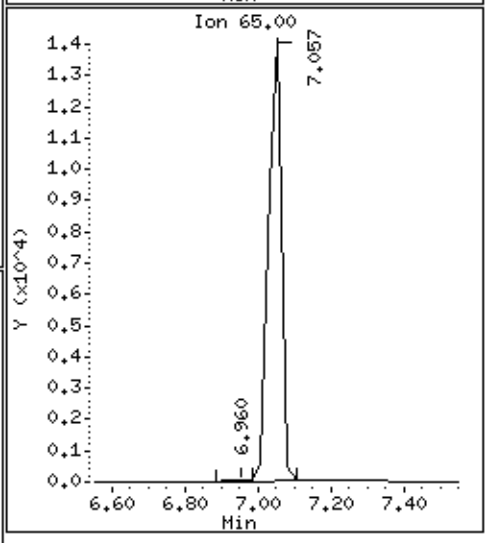
11 1,1-Dichloroethane-SPCC

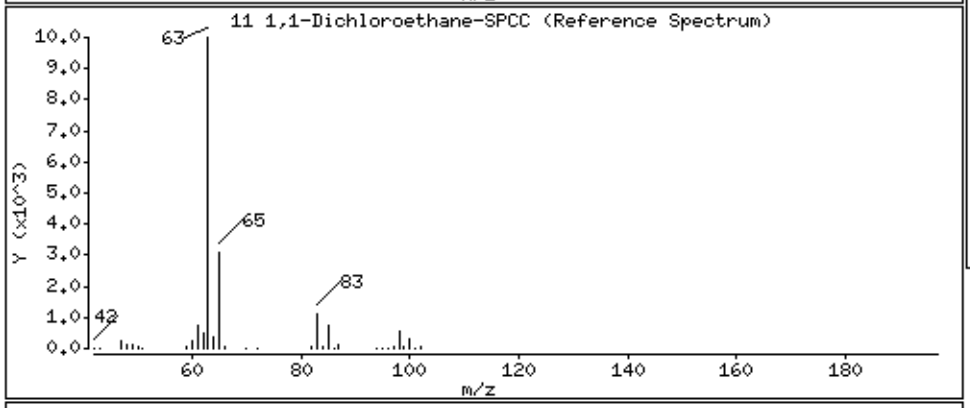
Concentration: 9.53236 ug

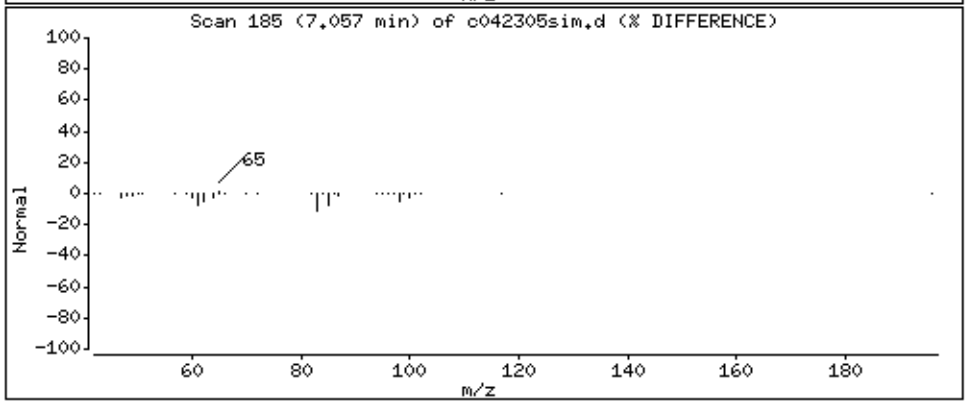












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

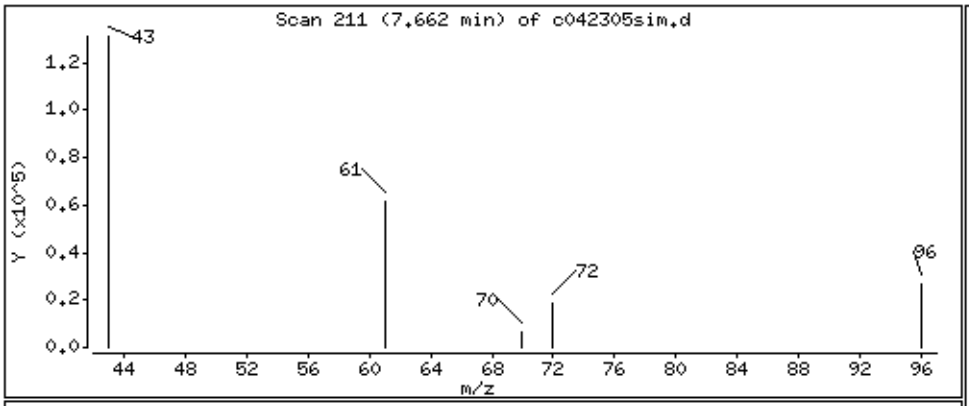
Operator: gm

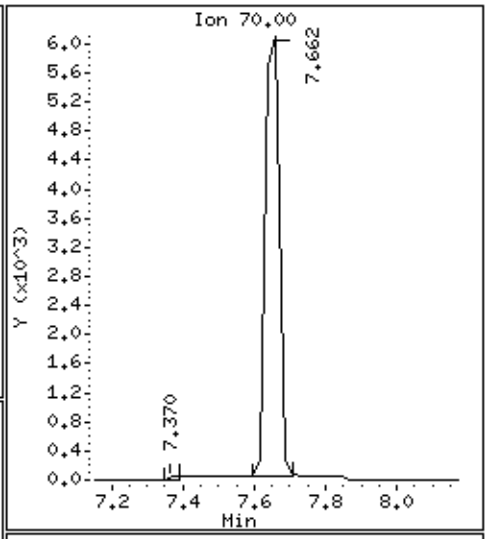
Column phase: DB-5.625

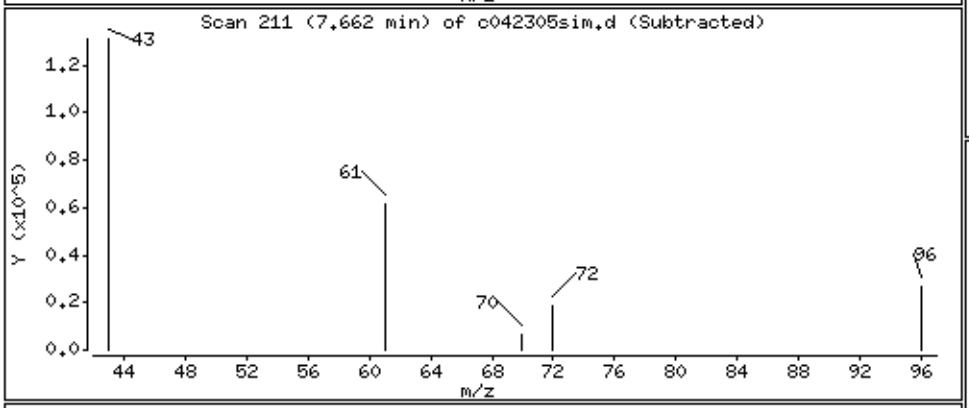
Column diameter: 0.25

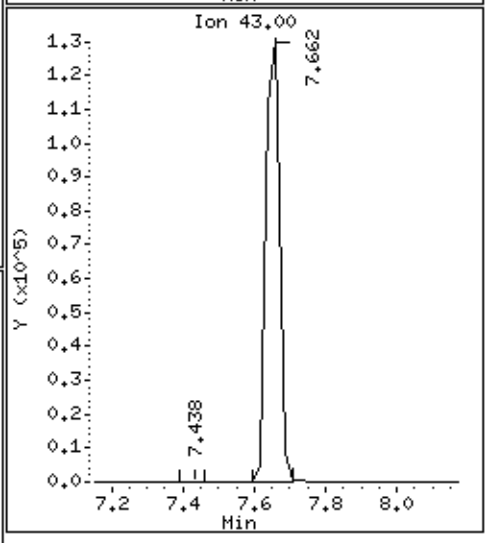
12 Ethyl Acetate

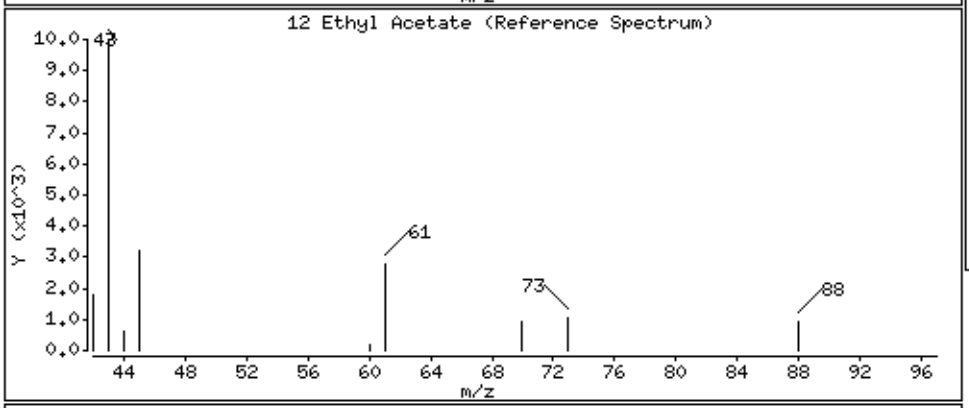
Concentration: 9.35525 ug

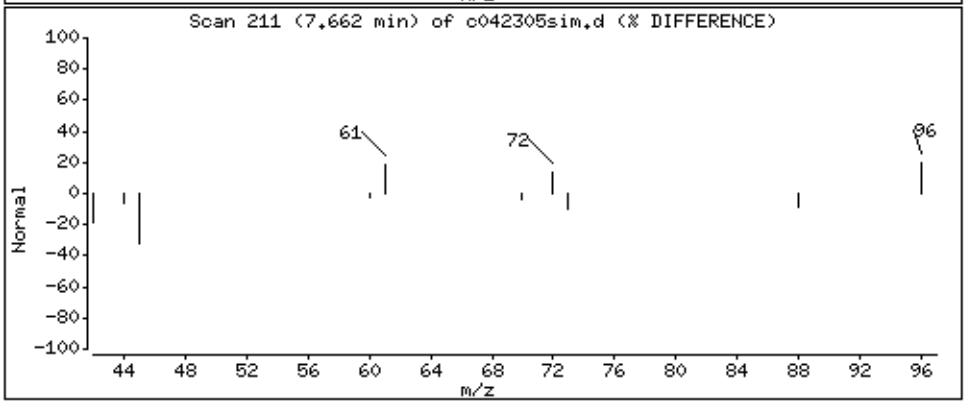












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

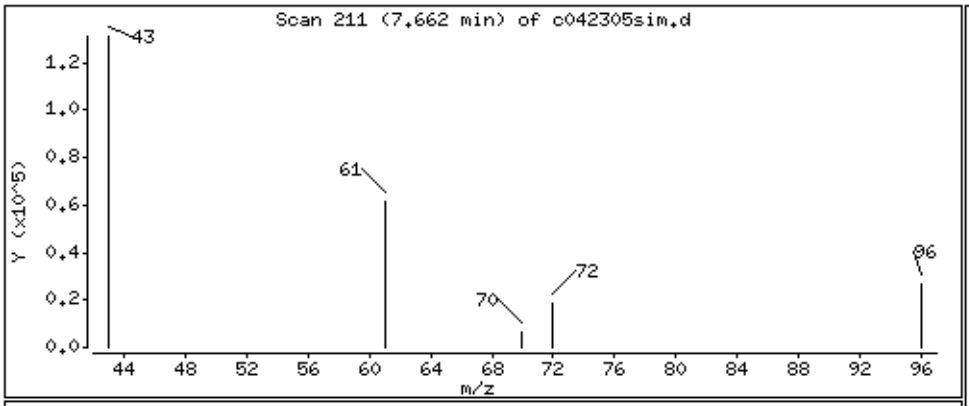
Operator: gm

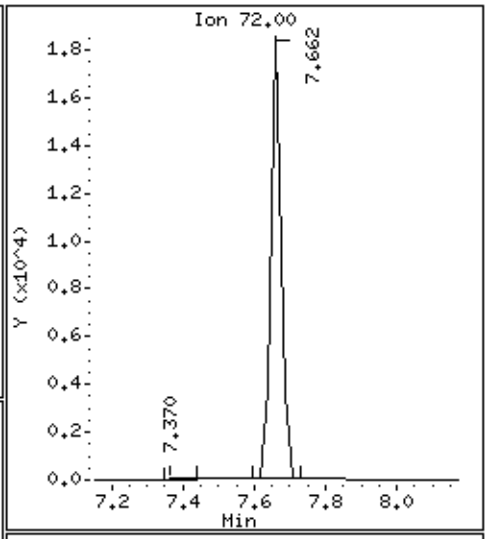
Column phase: DB-5.625

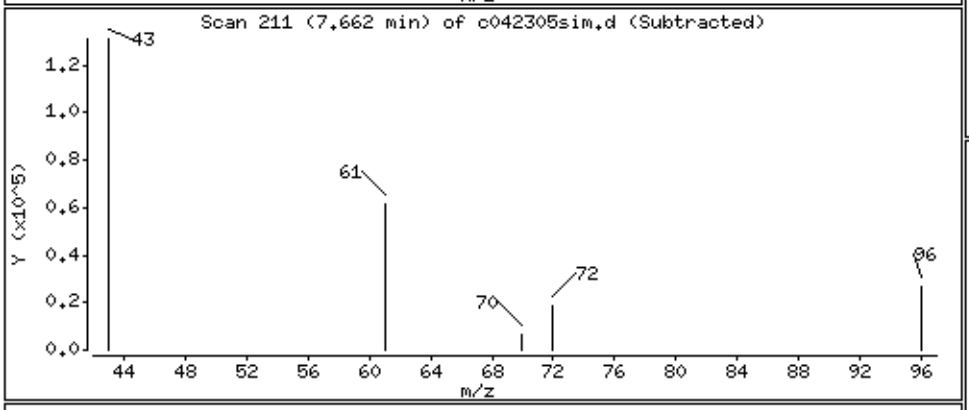
Column diameter: 0.25

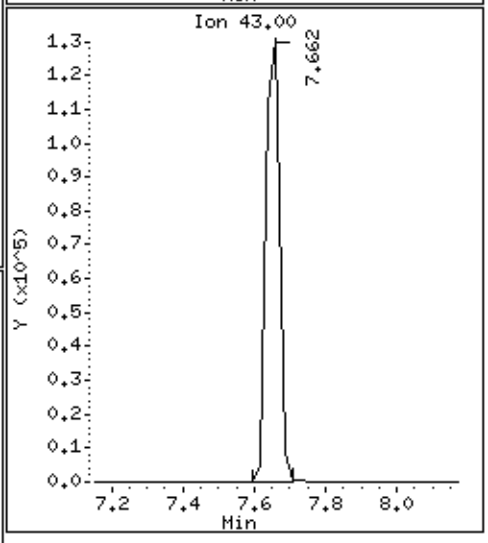
13 2-Butanone

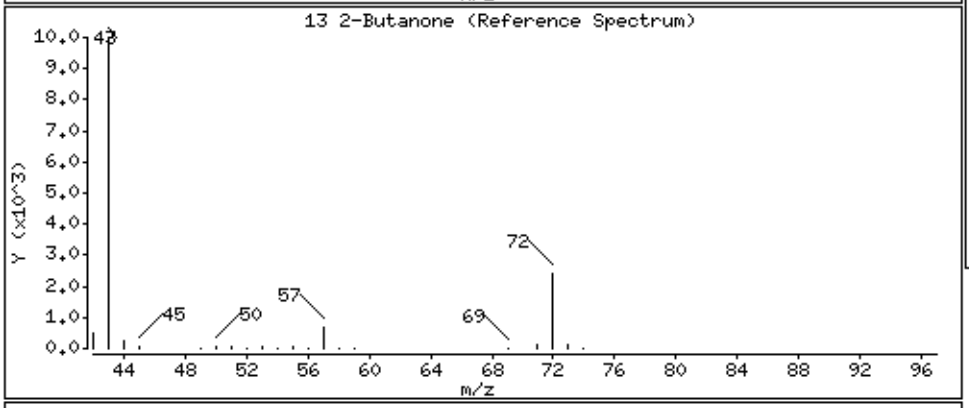
Concentration: 9.11369 ug

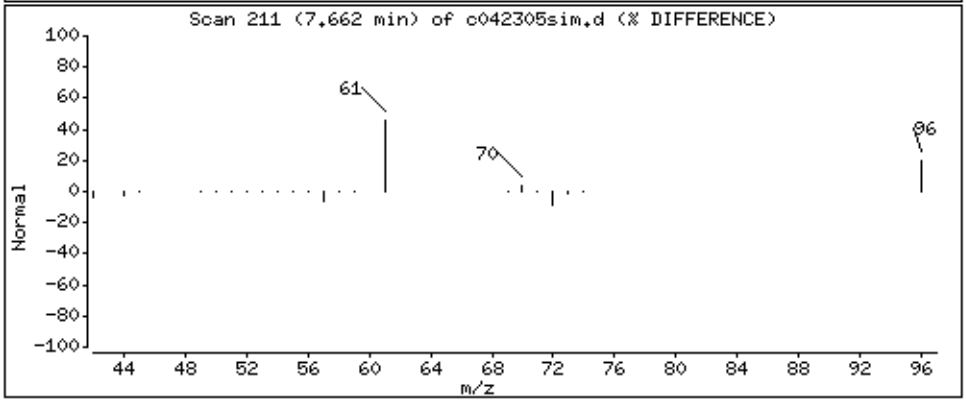












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

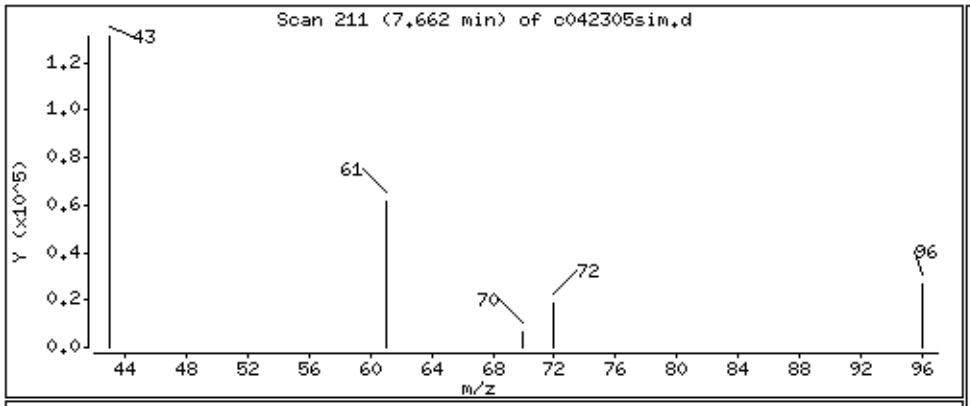
Operator: gm

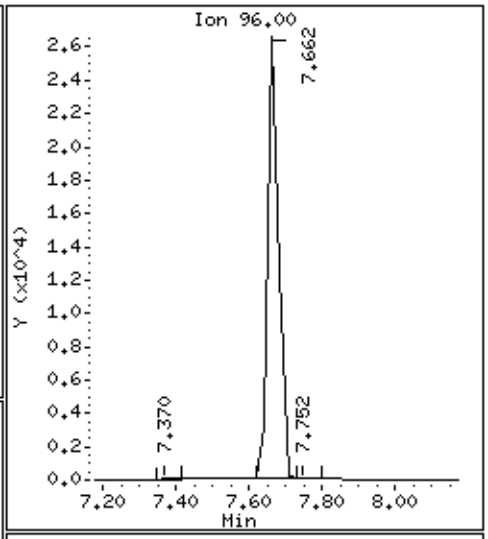
Column phase: DB-5.625

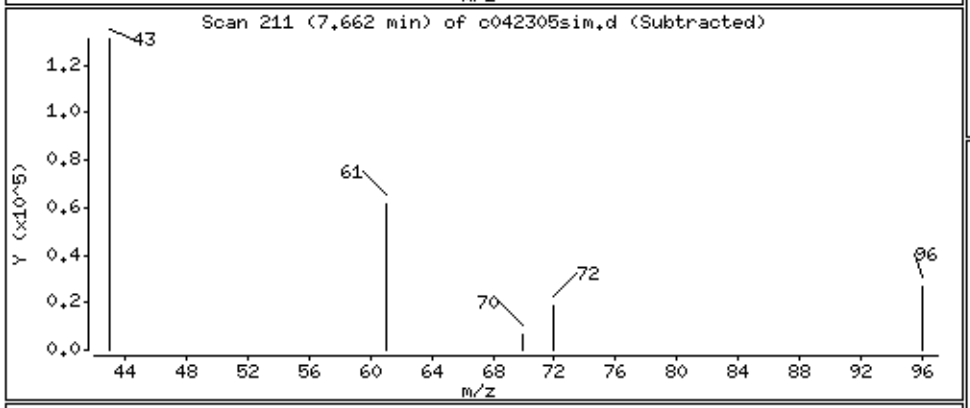
Column diameter: 0.25

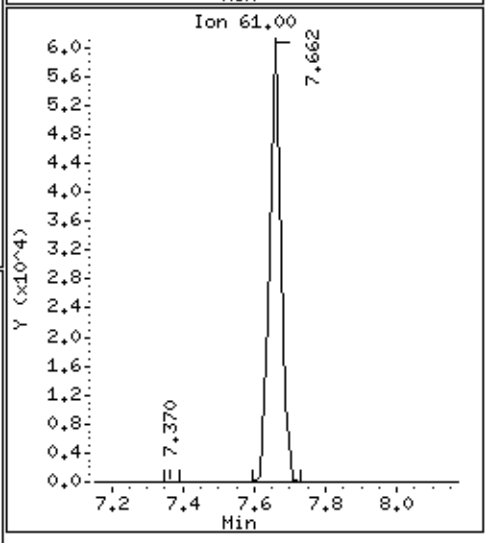
14 cis-1,2-Dichloroethene

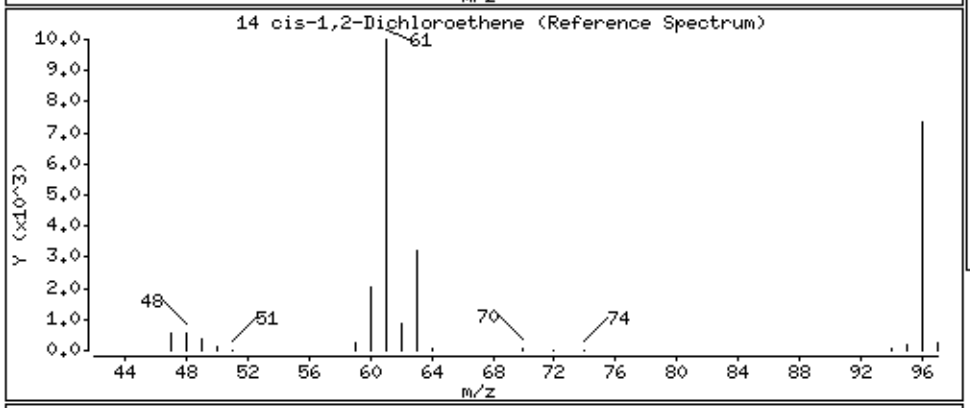
Concentration: 9.06208 ug

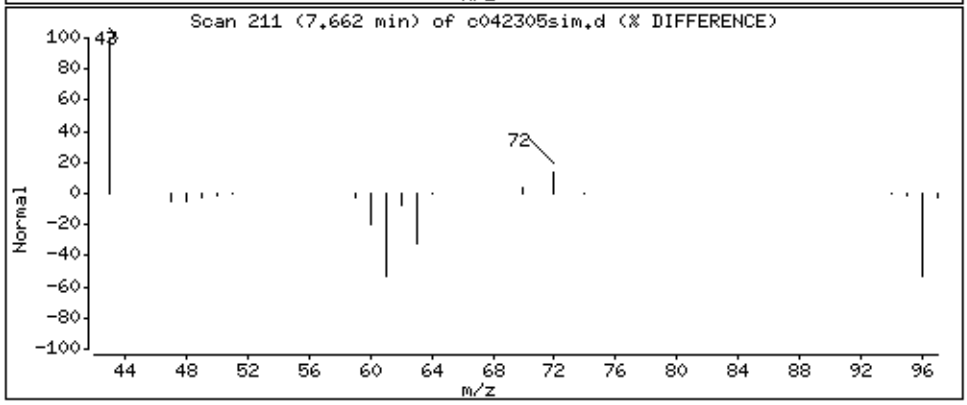












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

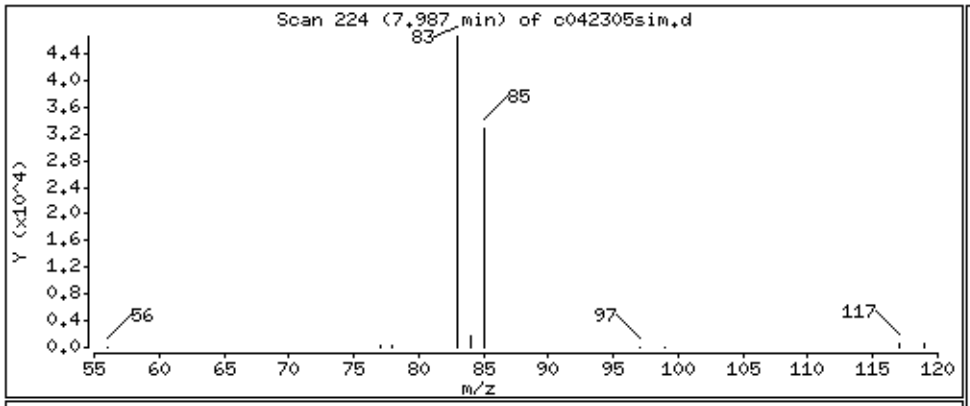
Operator: gm

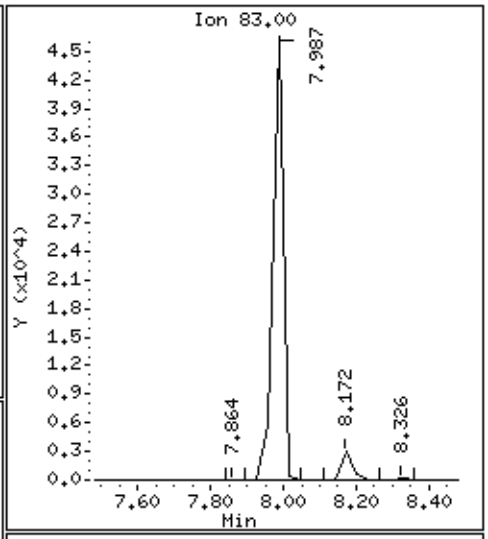
Column phase: DB-5.625

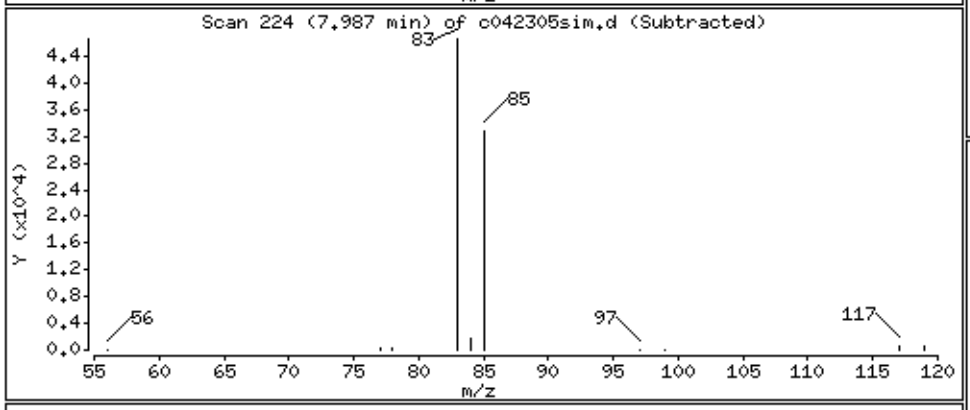
Column diameter: 0.25

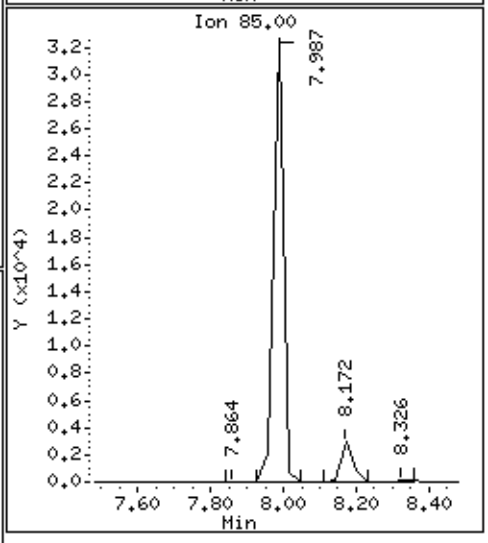
15 Chloroform-CCC

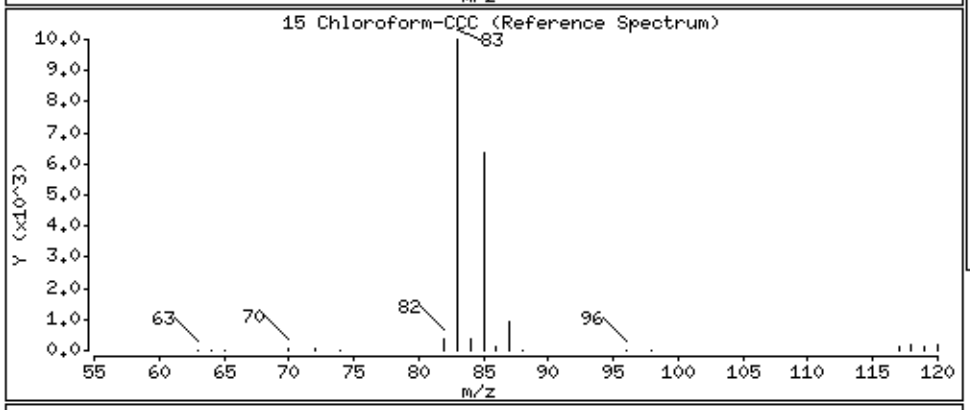
Concentration: 9.22360 ug

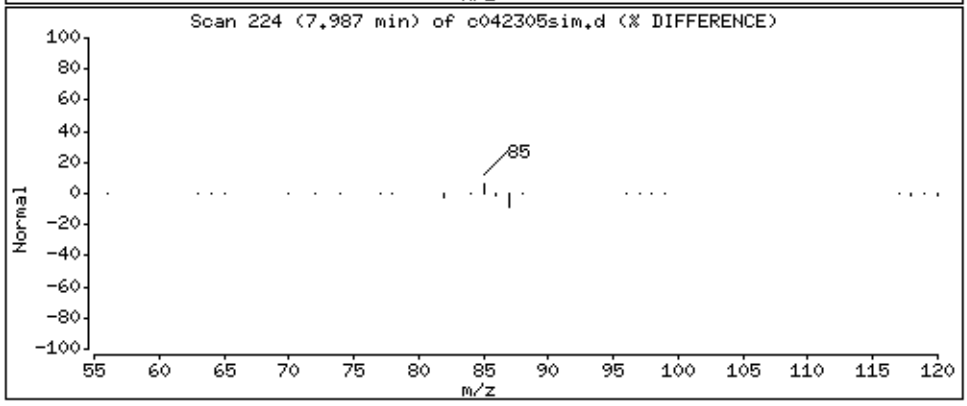












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

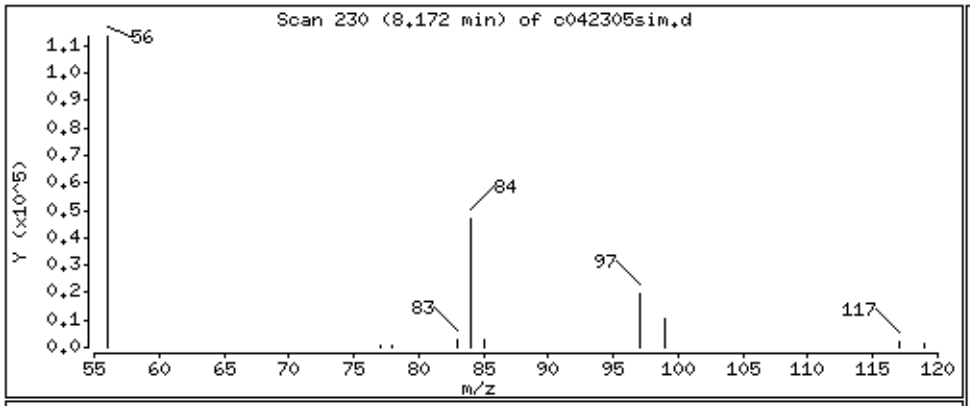
Operator: gm

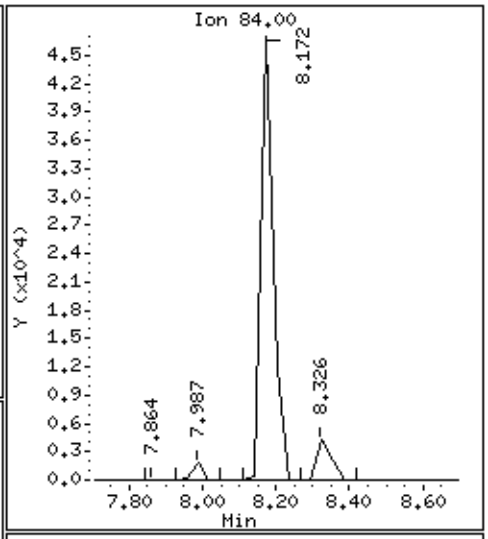
Column phase: DB-5.625

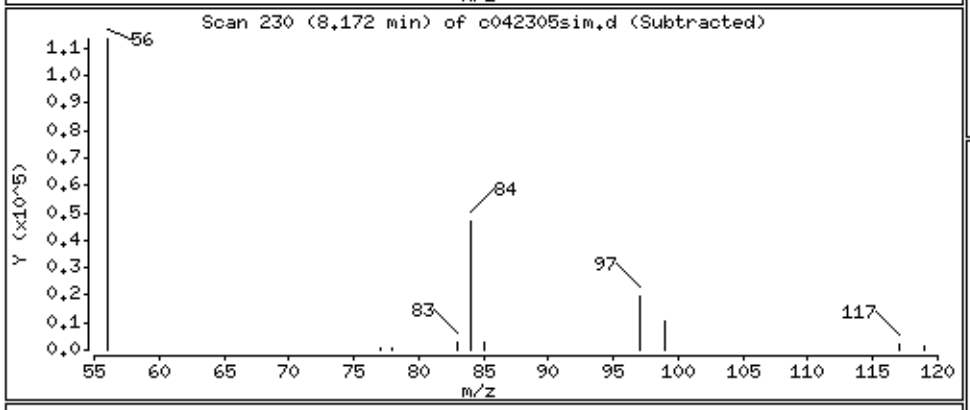
Column diameter: 0.25

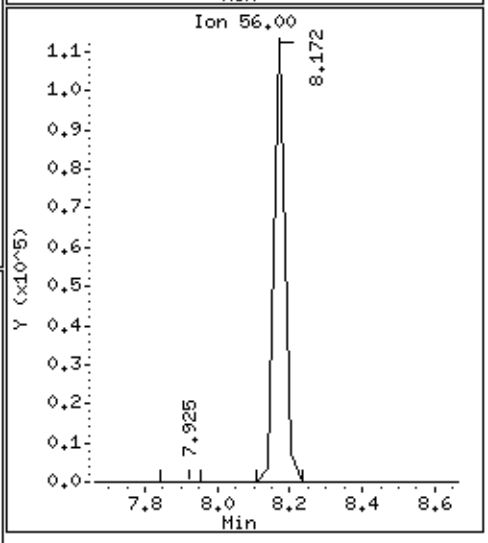
16 Cyclohexane

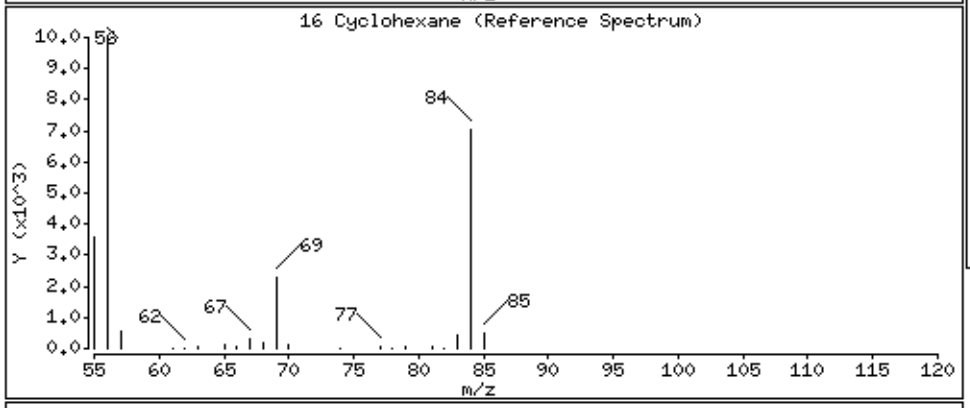
Concentration: 10.2030 ug

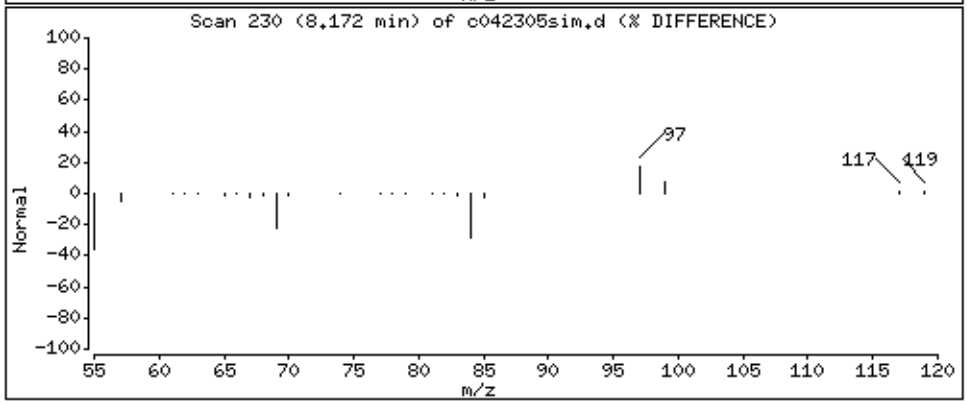












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

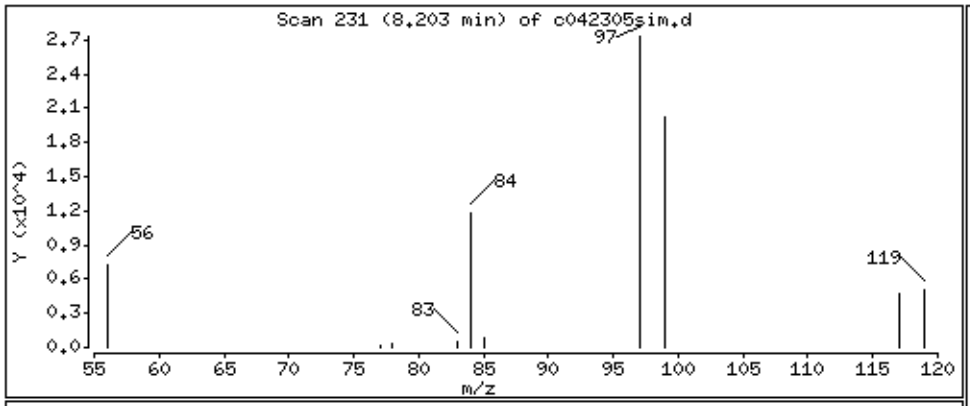
Operator: gm

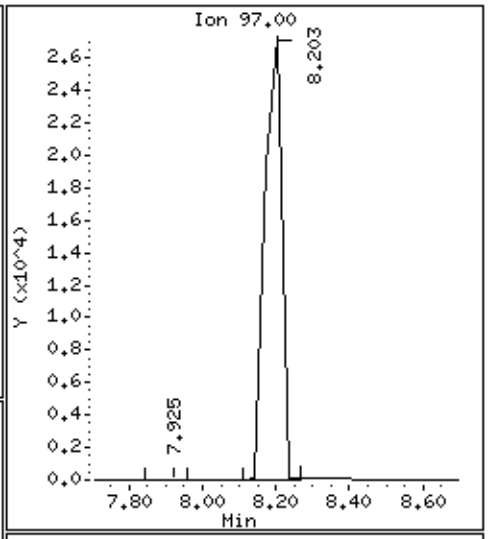
Column phase: DB-5.625

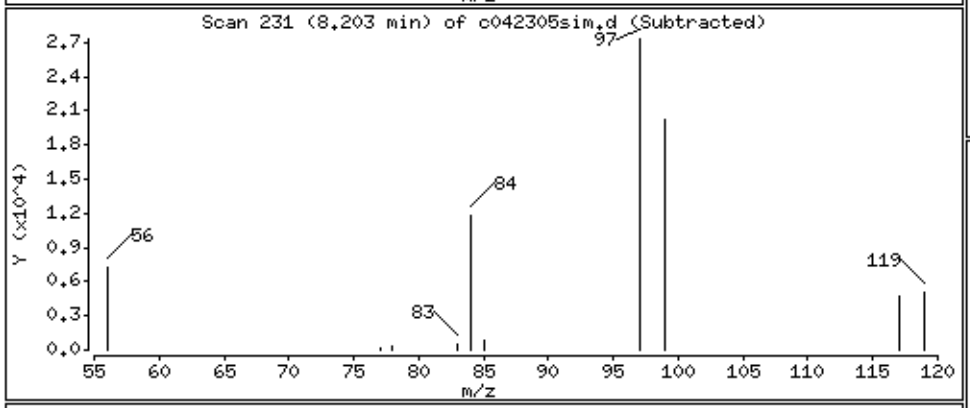
Column diameter: 0.25

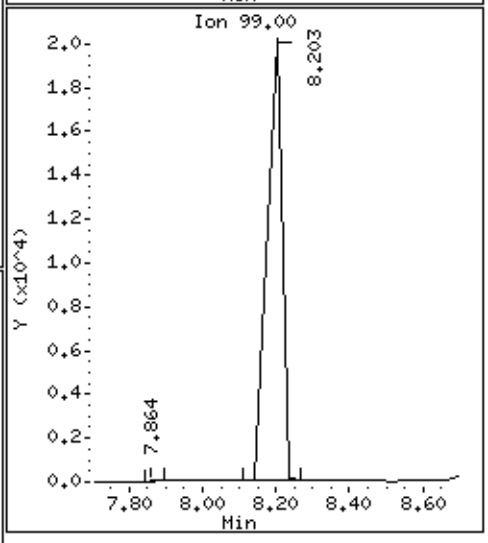
17 1,1,1-Trichloroethane

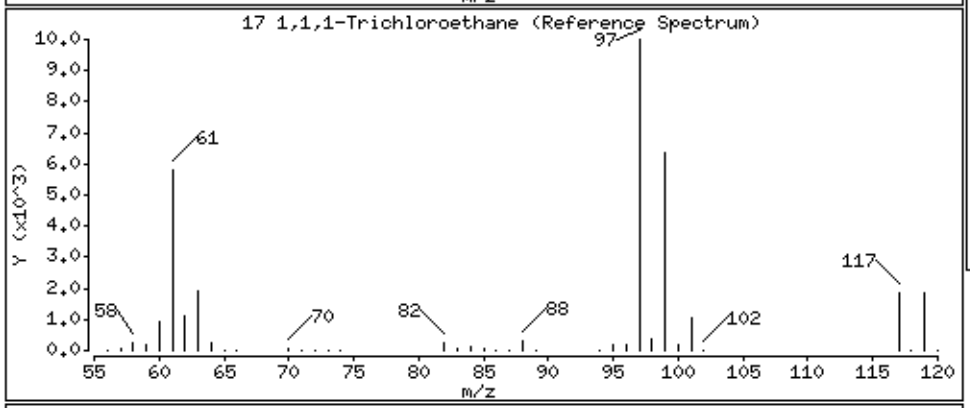
Concentration: 8.77372 ug

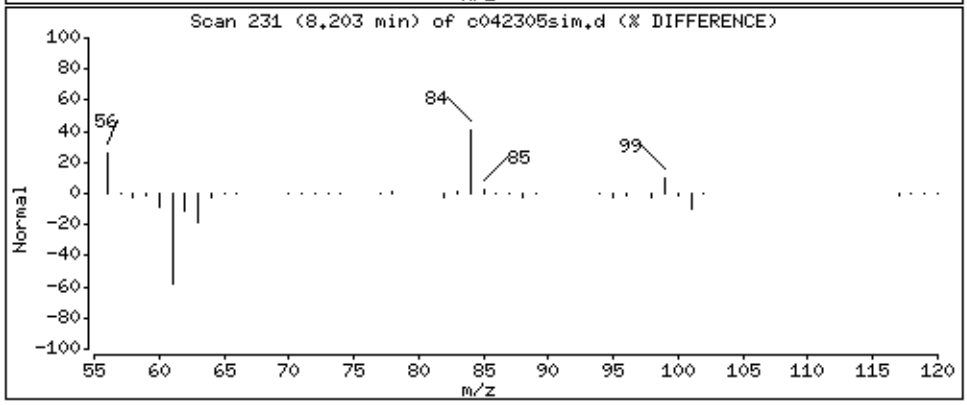












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

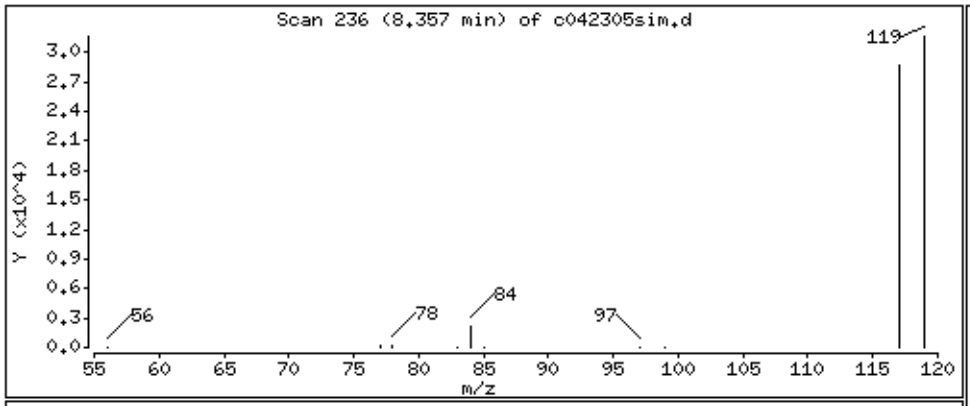
Operator: gm

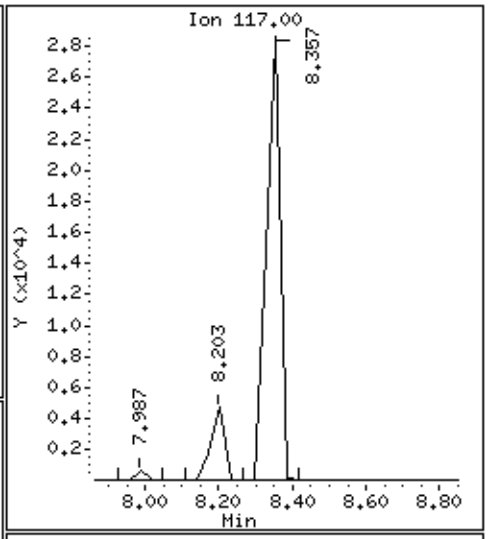
Column phase: DB-5.625

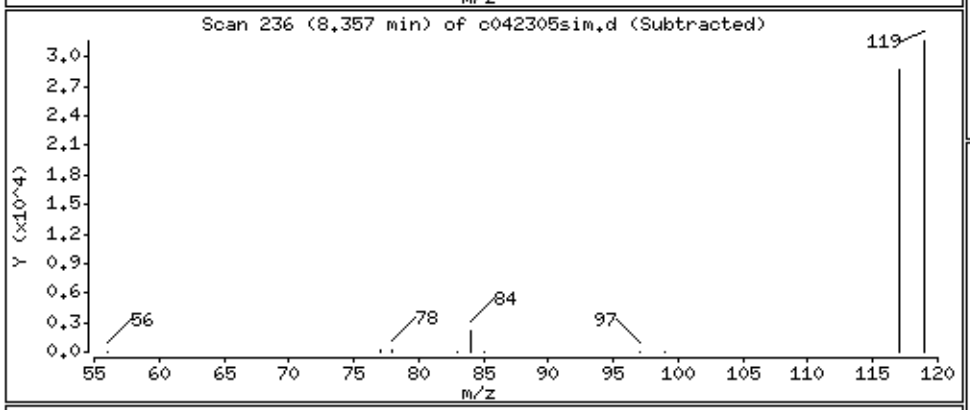
Column diameter: 0.25

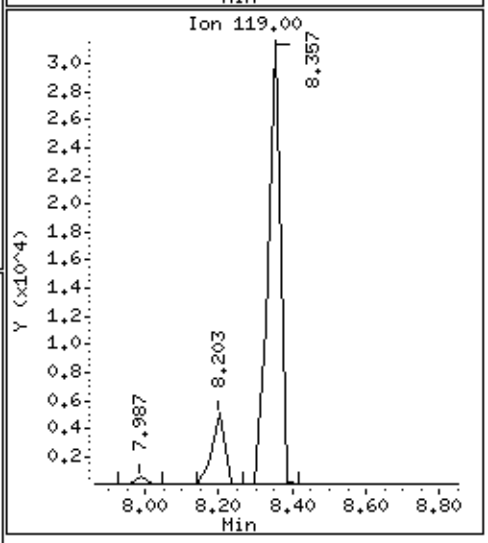
18 Carbon Tetrachloride

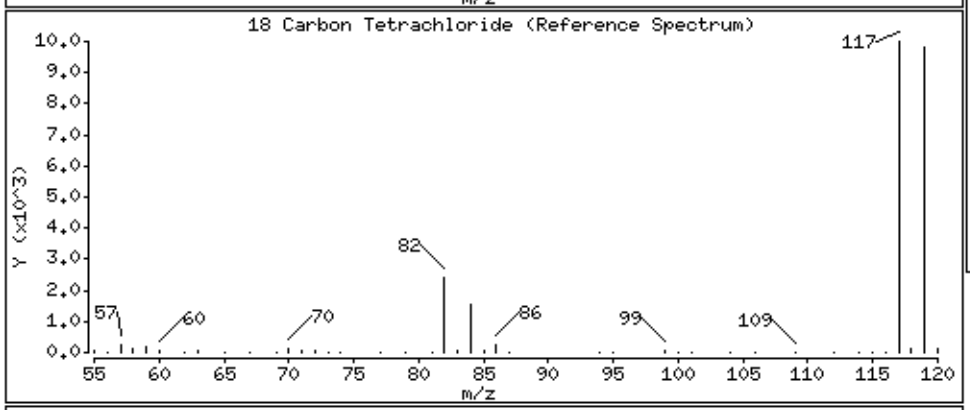
Concentration: 8.11343 ug

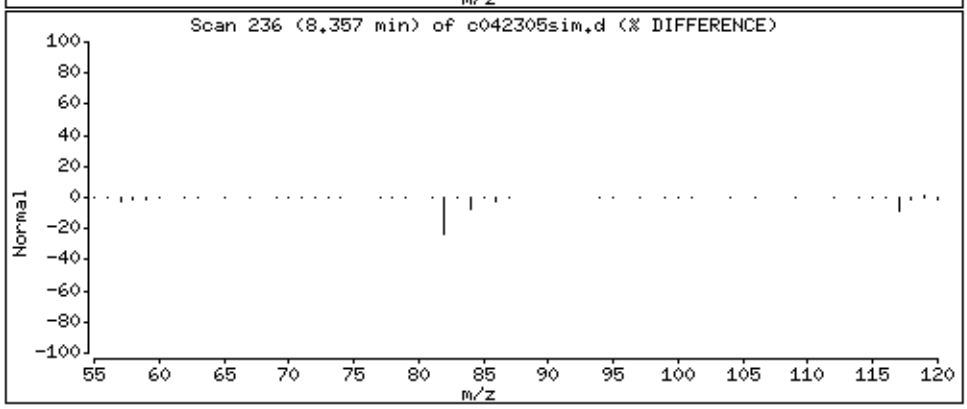












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

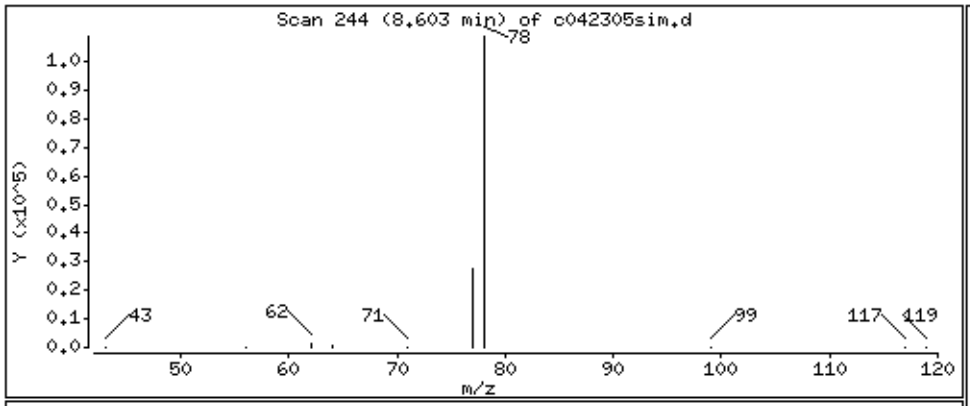
Operator: gm

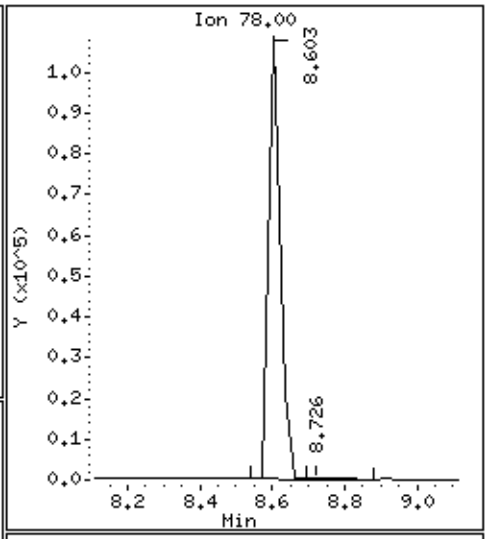
Column phase: DB-5.625

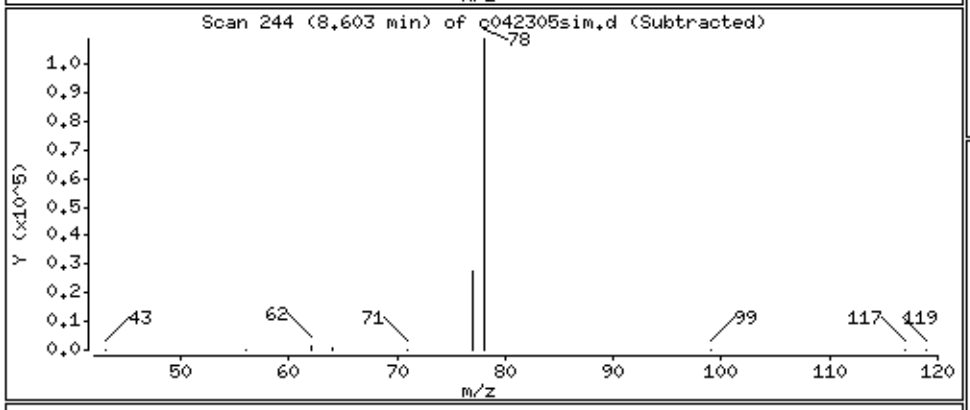
Column diameter: 0.25

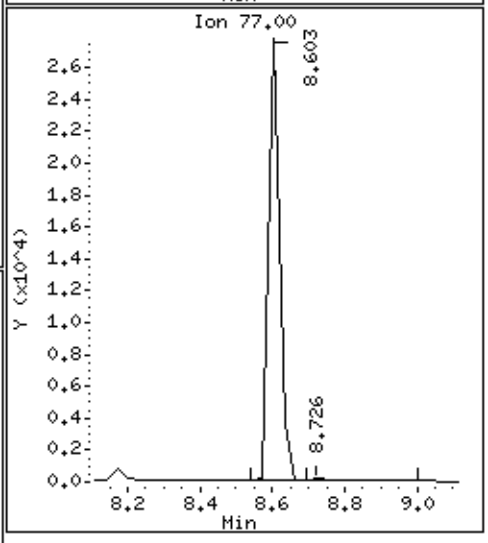
19 Benzene

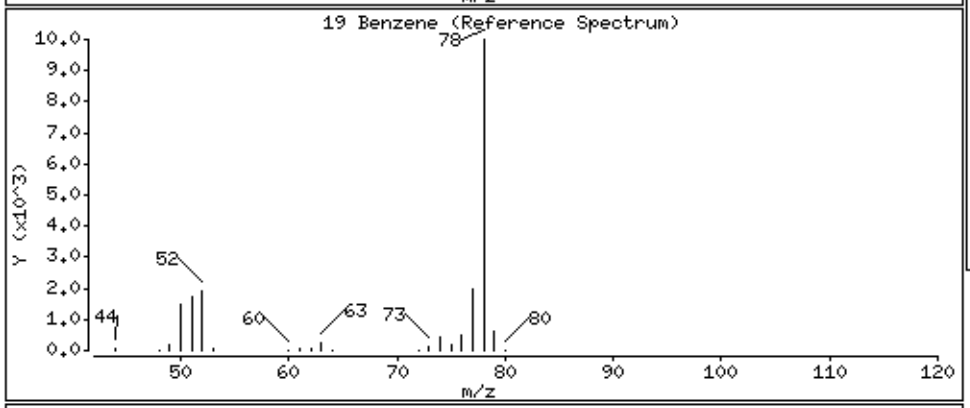
Concentration: 9.97927 ug

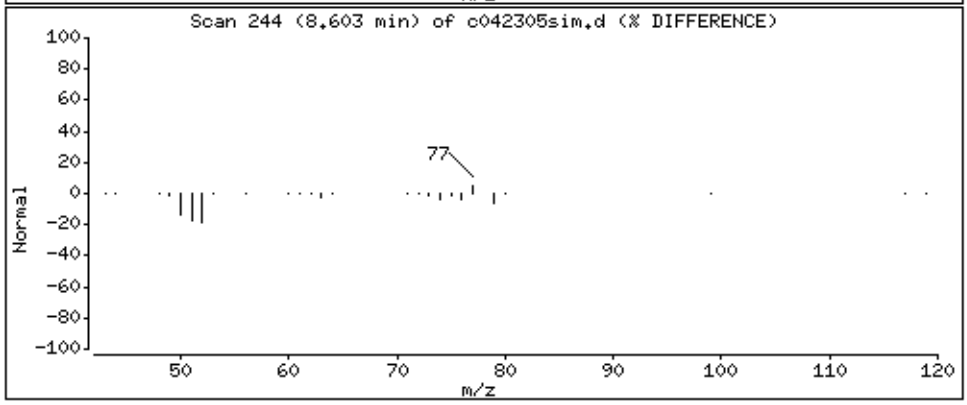












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

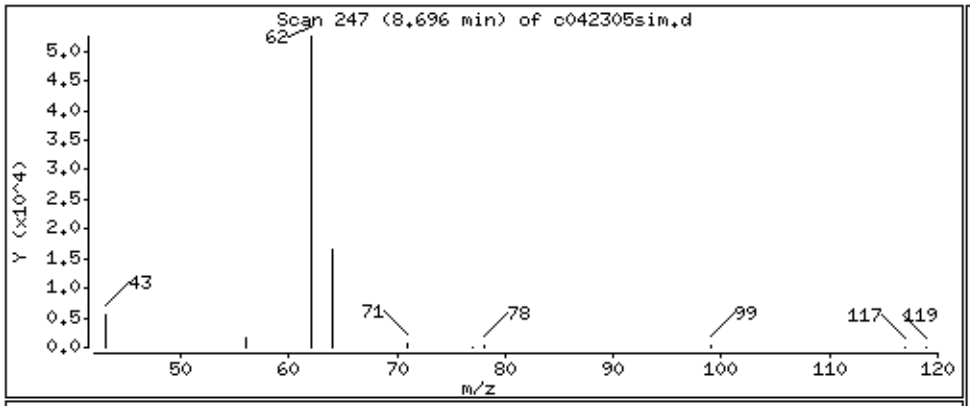
Operator: gm

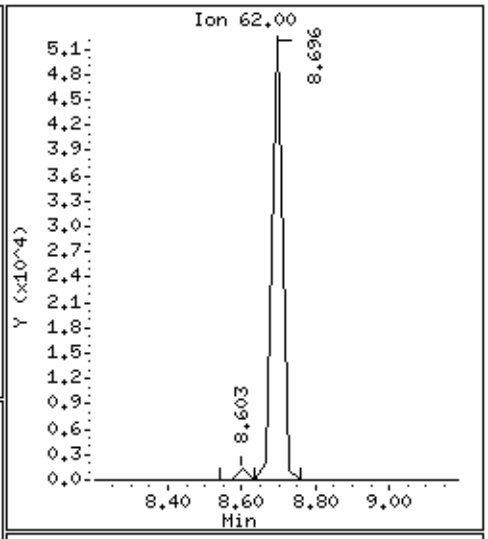
Column phase: DB-5.625

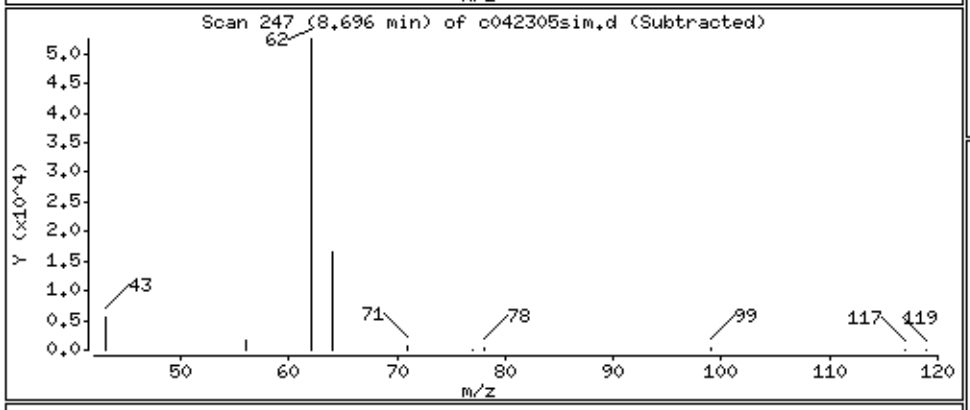
Column diameter: 0.25

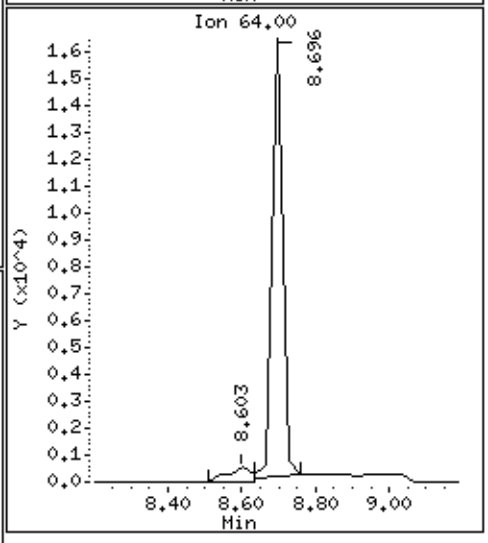
20 1,2-Dichloroethane

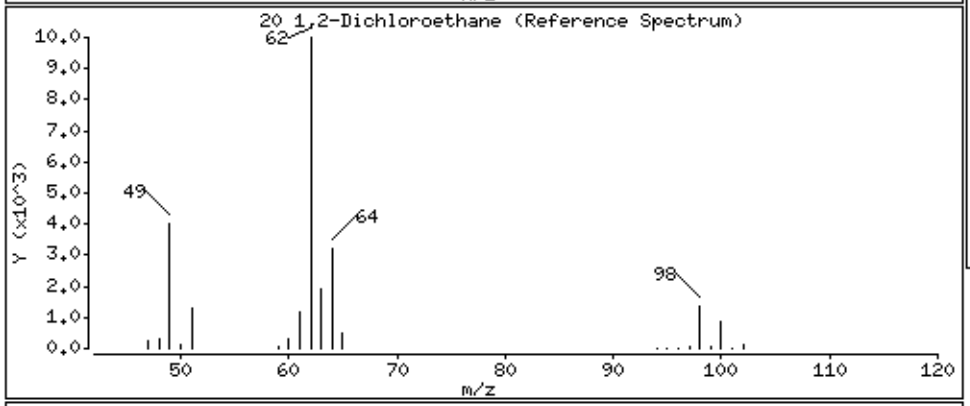
Concentration: 9.26261 ug

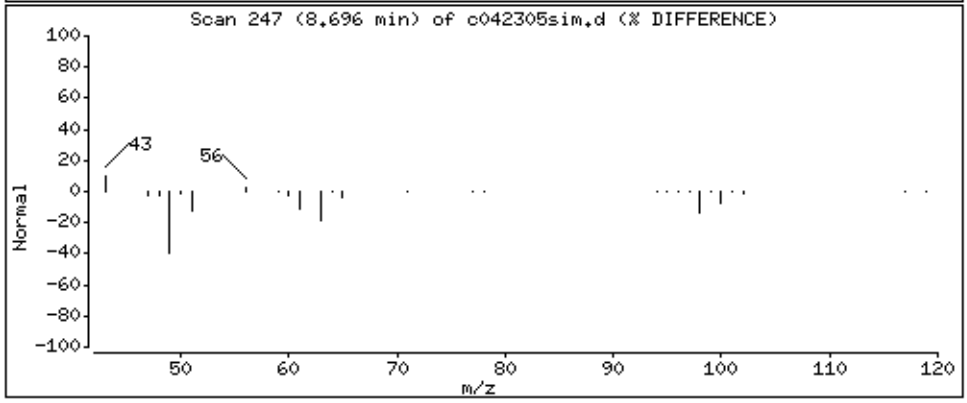












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

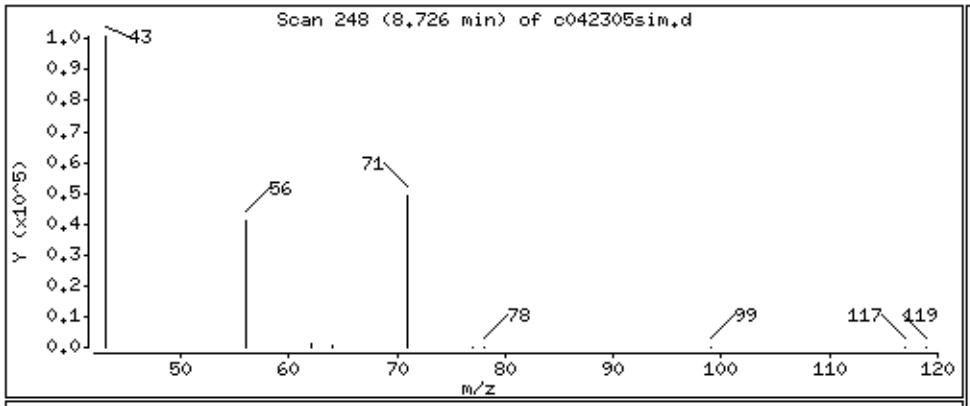
Operator: gm

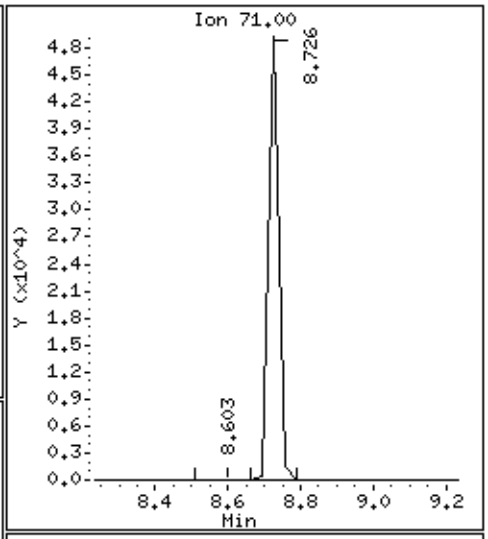
Column phase: DB-5.625

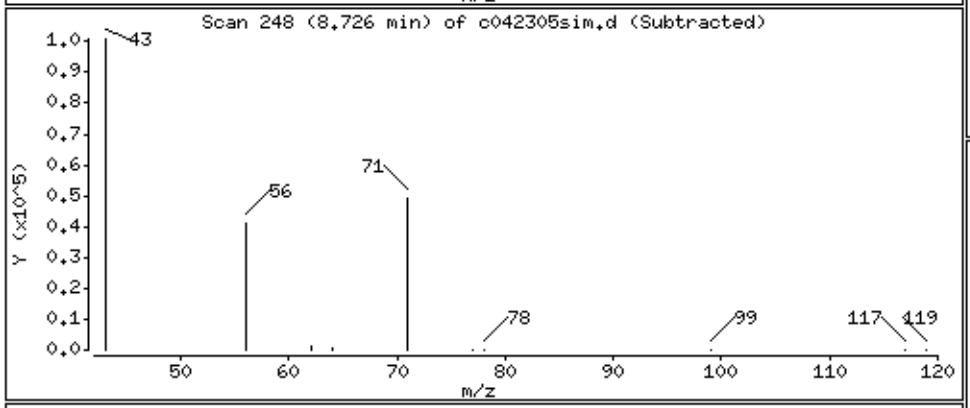
Column diameter: 0.25

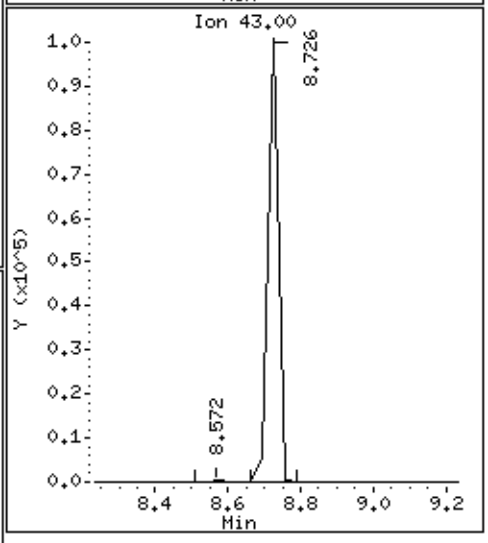
21 Heptane

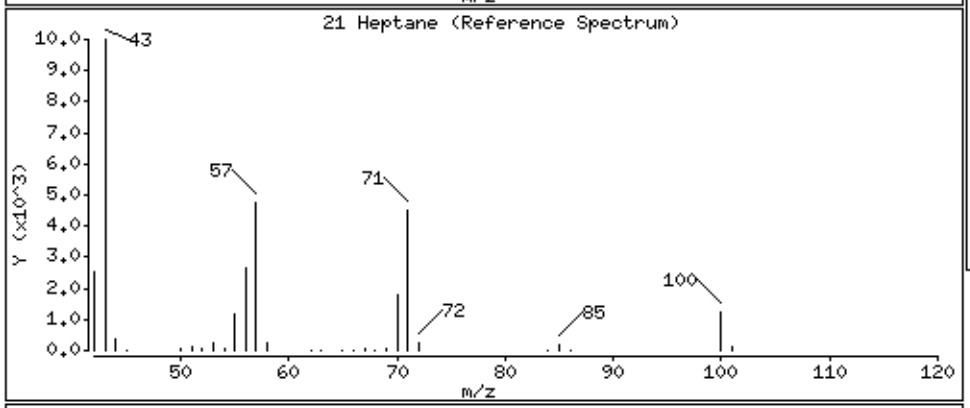
Concentration: 10.4751 ug

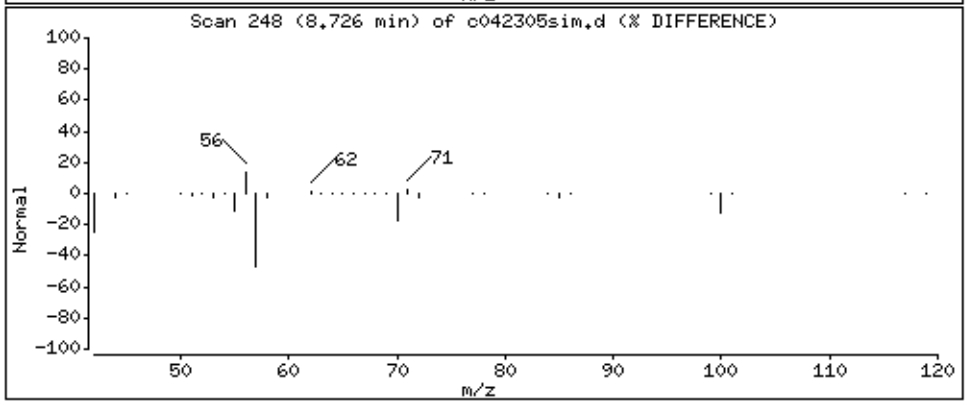












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

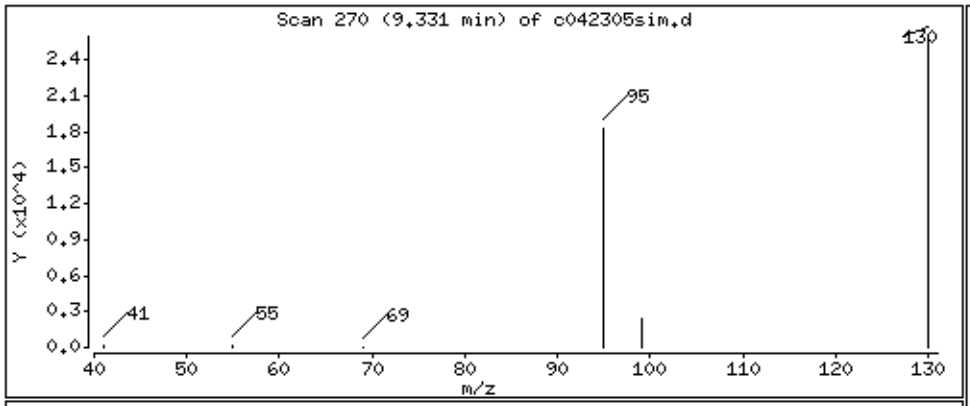
Operator: gm

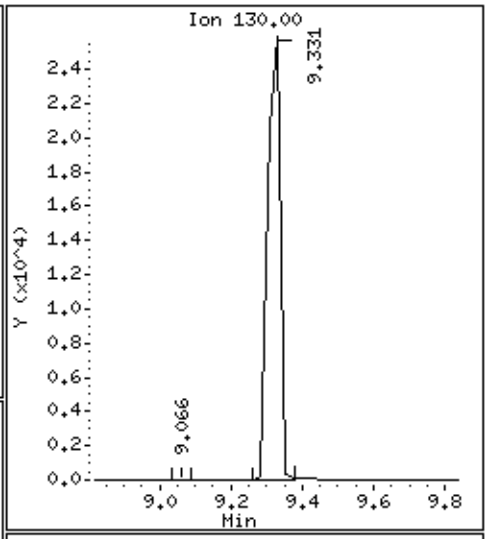
Column phase: DB-5.625

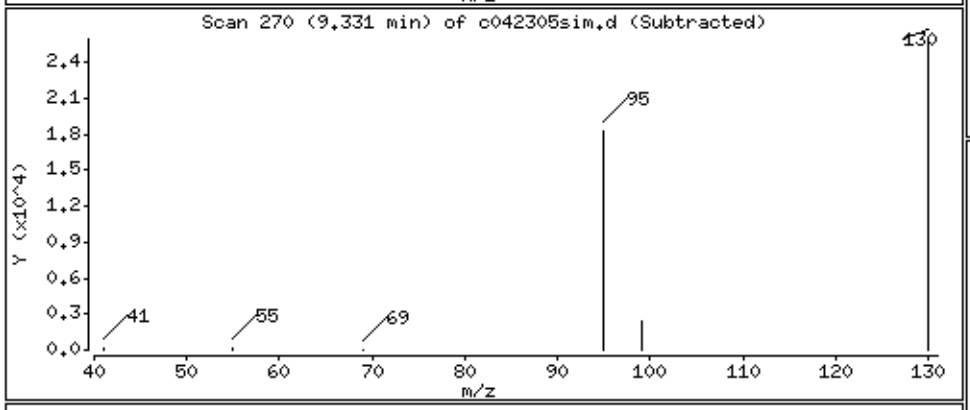
Column diameter: 0.25

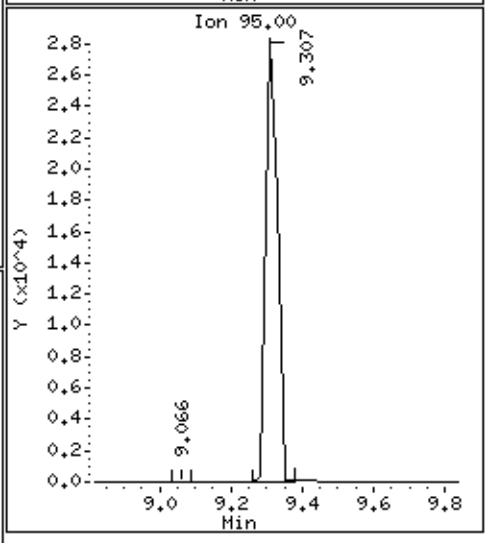
22 Trichloroethene

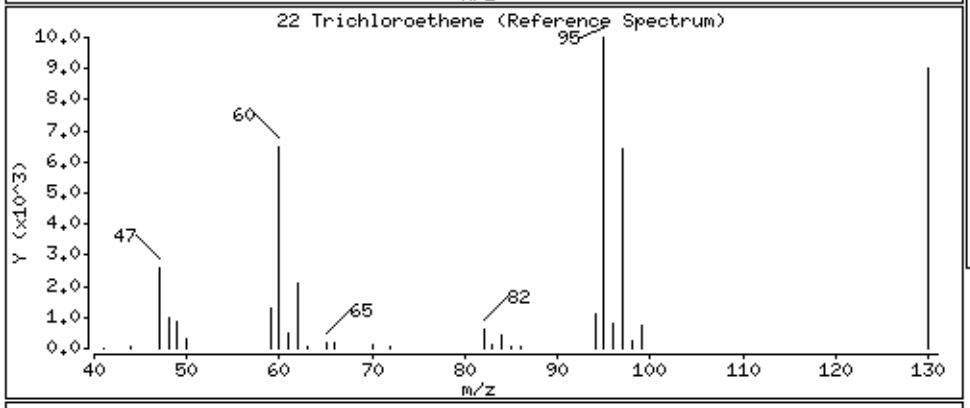
Concentration: 8.52756 ug

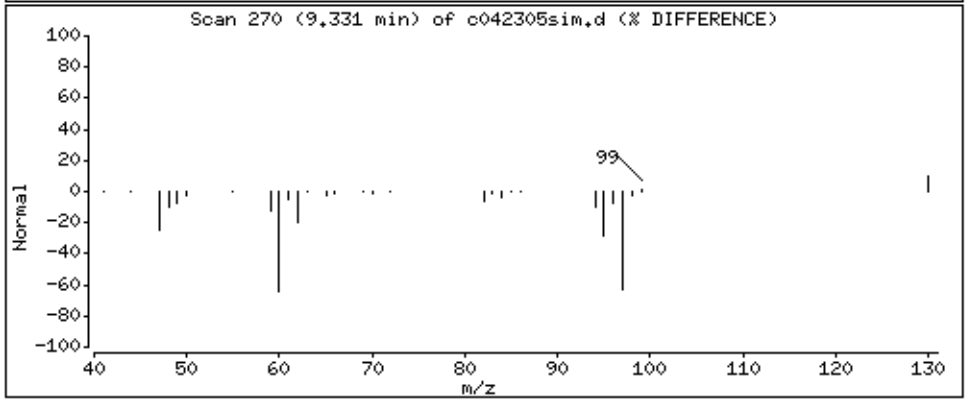












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

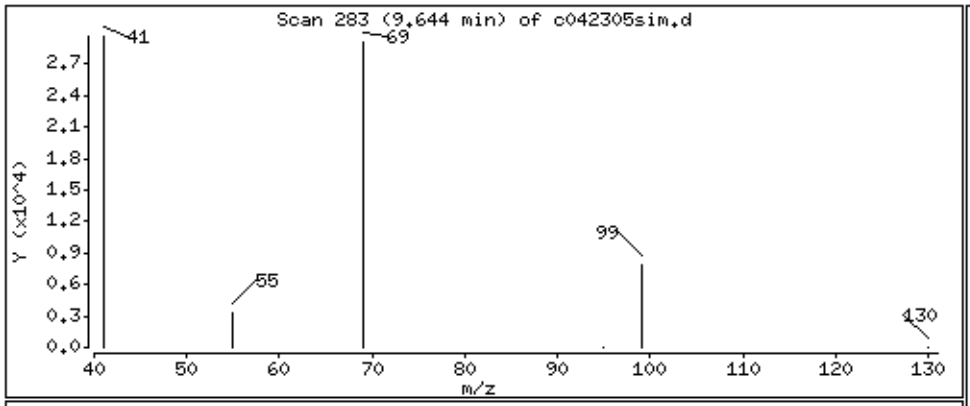
Operator: gm

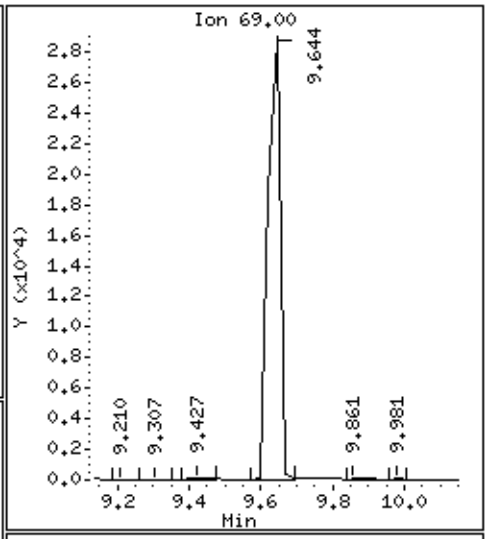
Column phase: DB-5.625

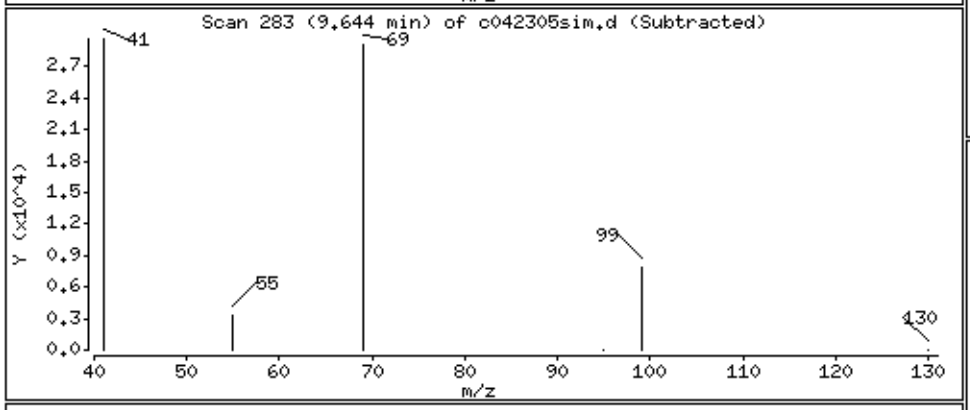
Column diameter: 0.25

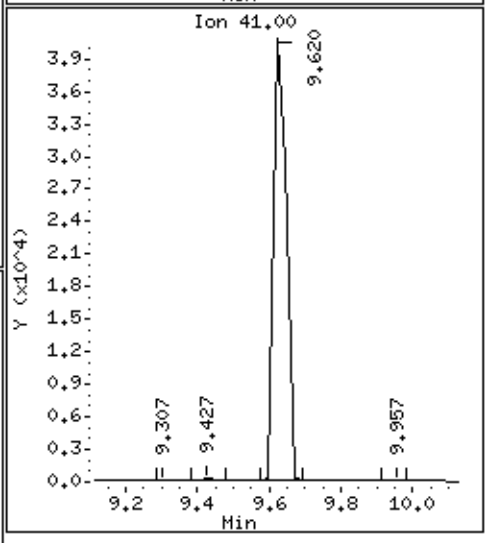
23 Methyl Methacrylate

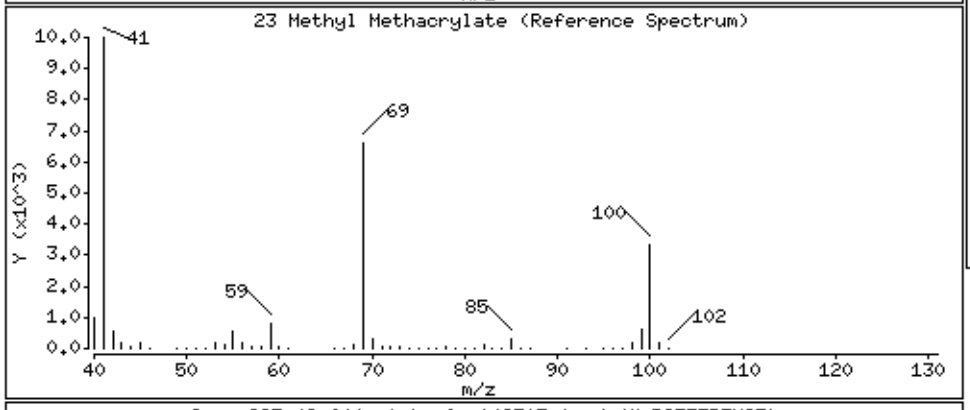
Concentration: 8.80609 ug

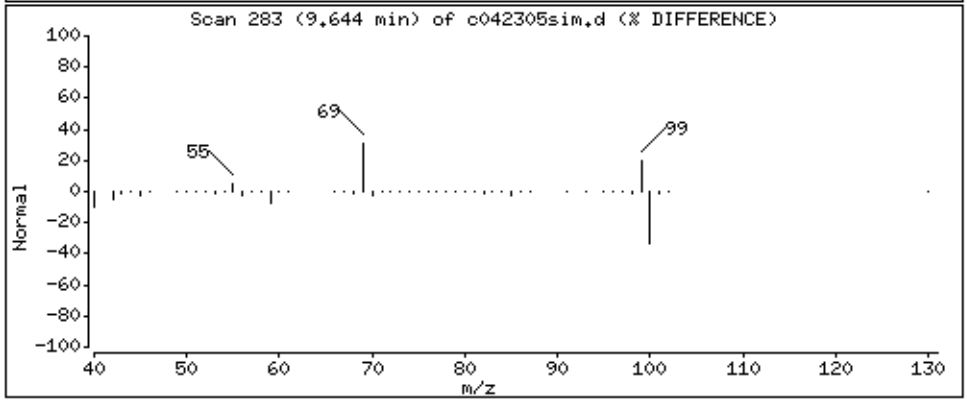












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

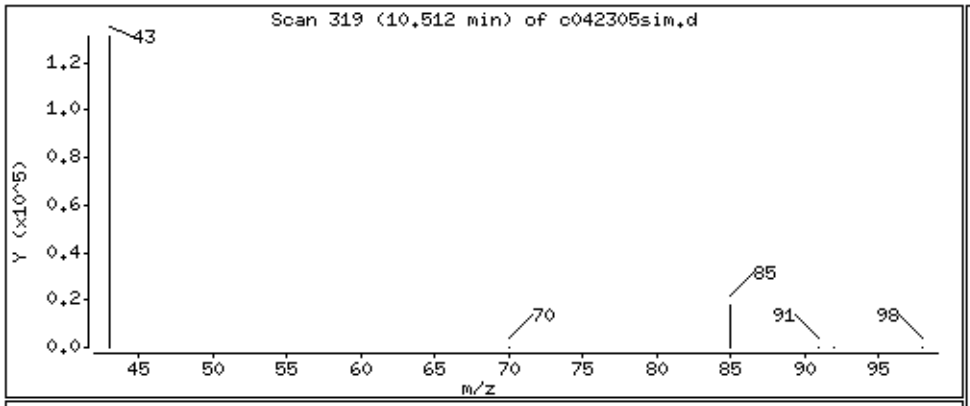
Operator: gm

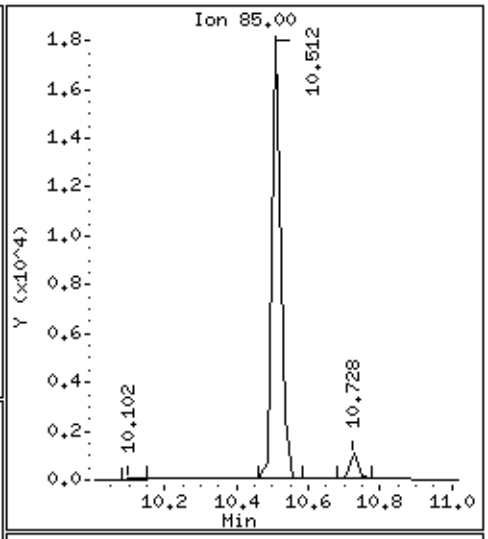
Column phase: DB-5.625

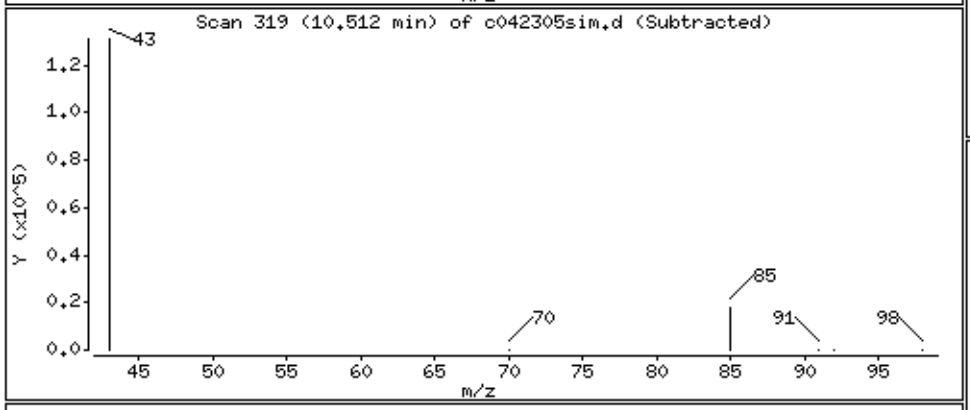
Column diameter: 0.25

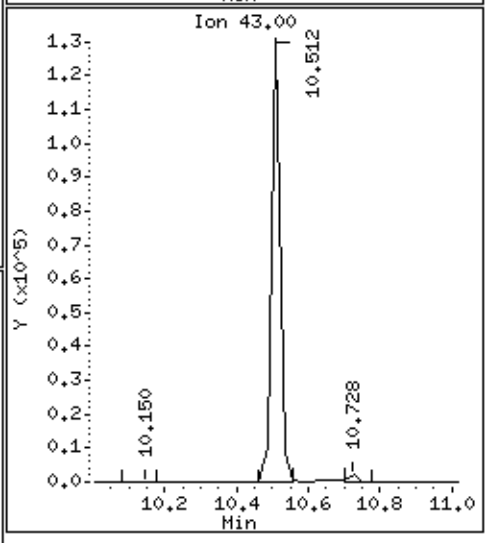
24 4-Methyl-2-pentanone

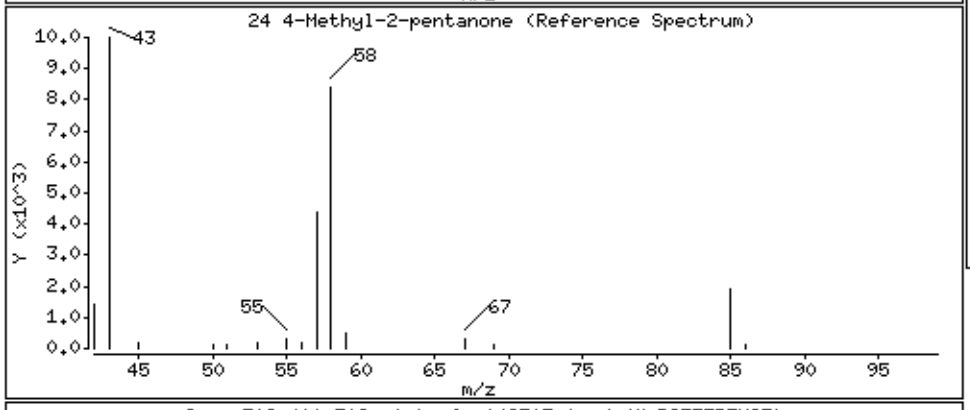
Concentration: 9.88092 ug

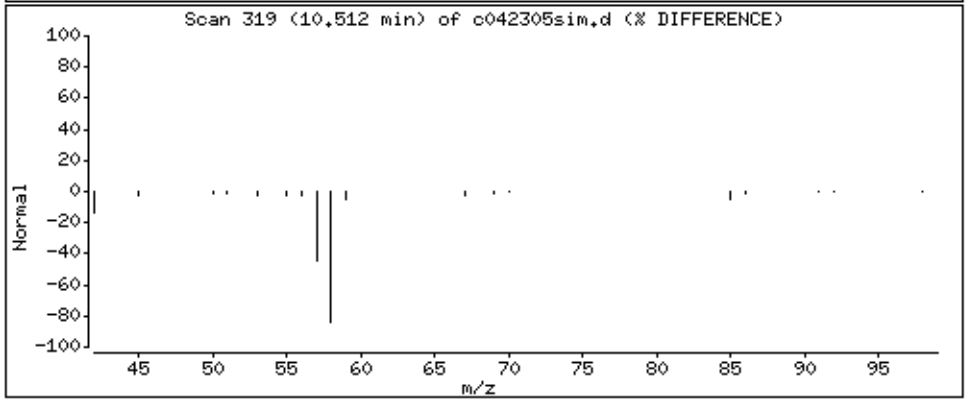












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

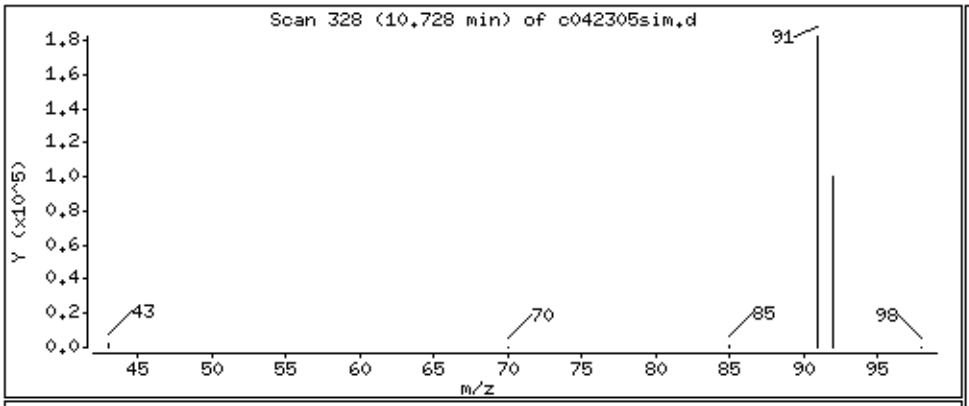
Operator: gm

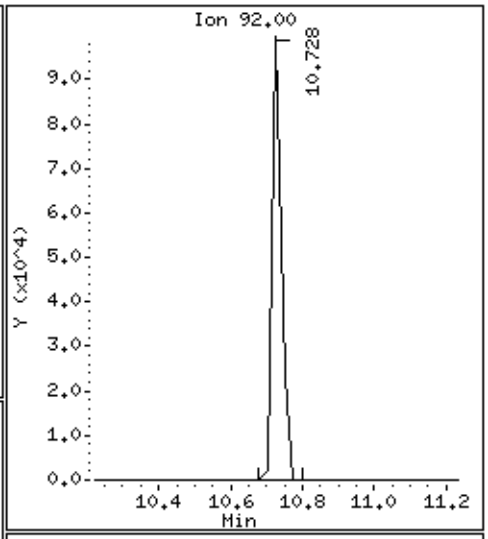
Column phase: DB-5.625

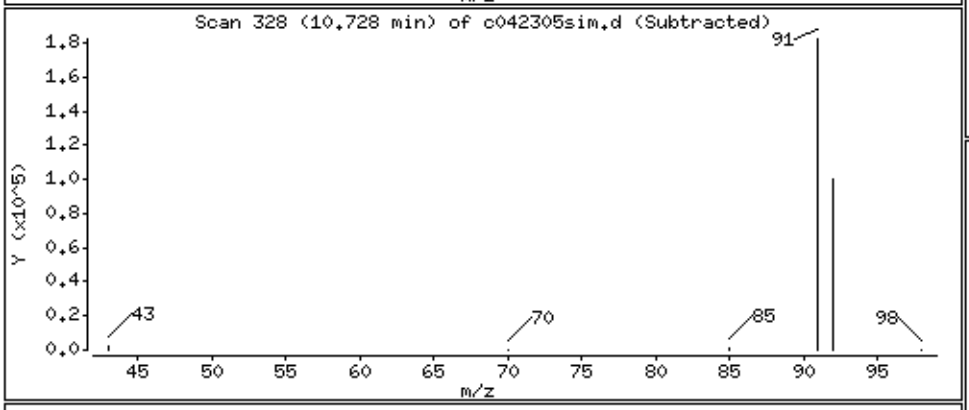
Column diameter: 0.25

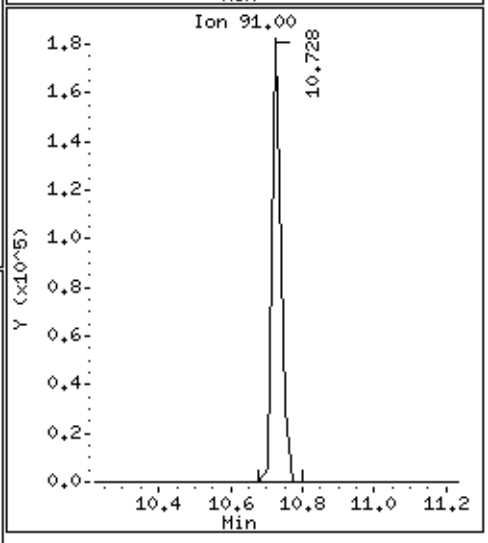
26 Toluene-CCC

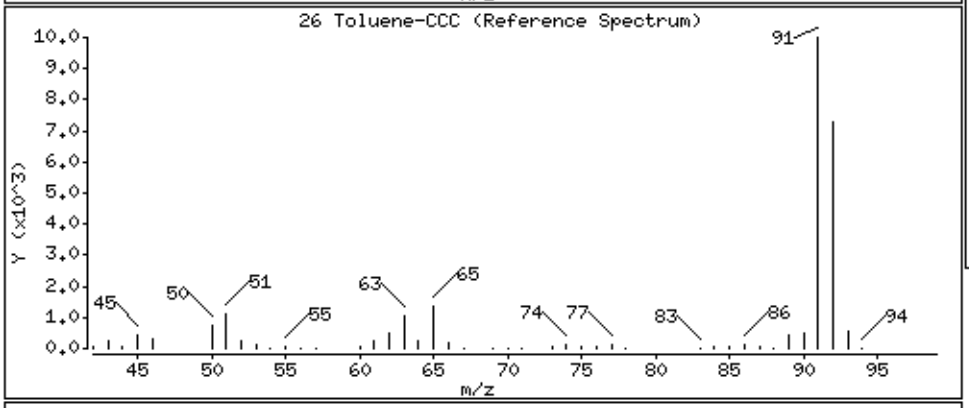
Concentration: 9.15603 ug

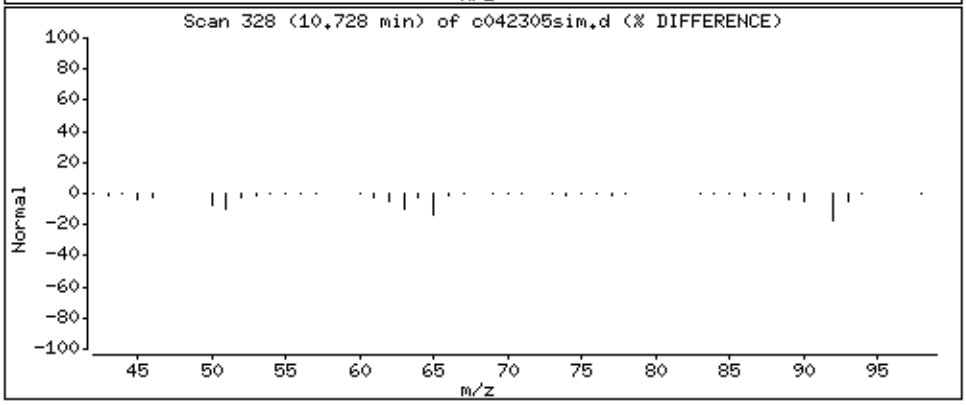












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

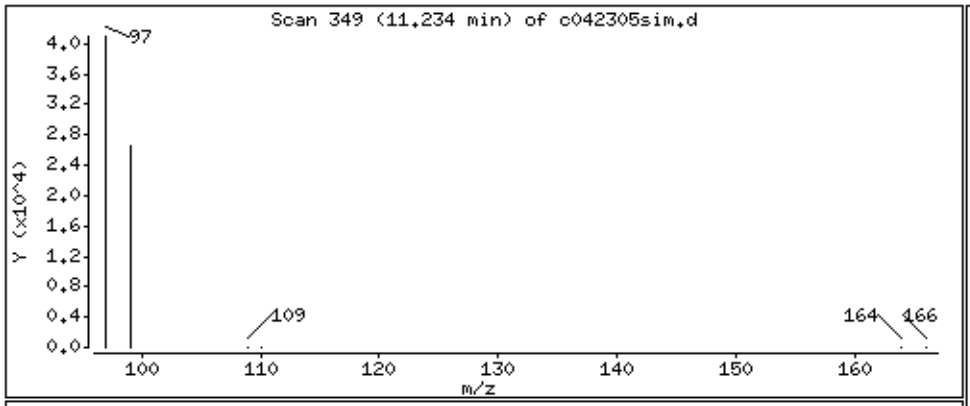
Operator: gm

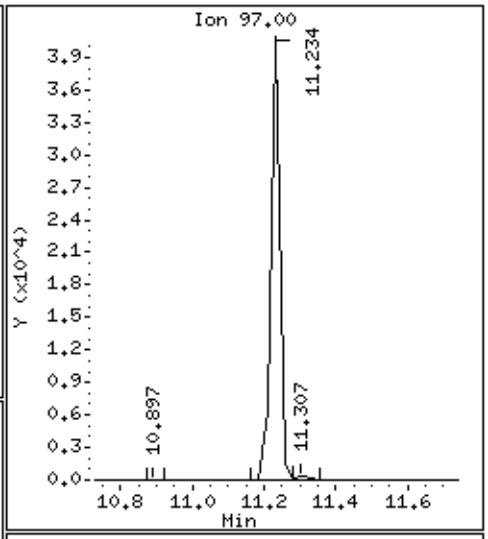
Column phase: DB-5.625

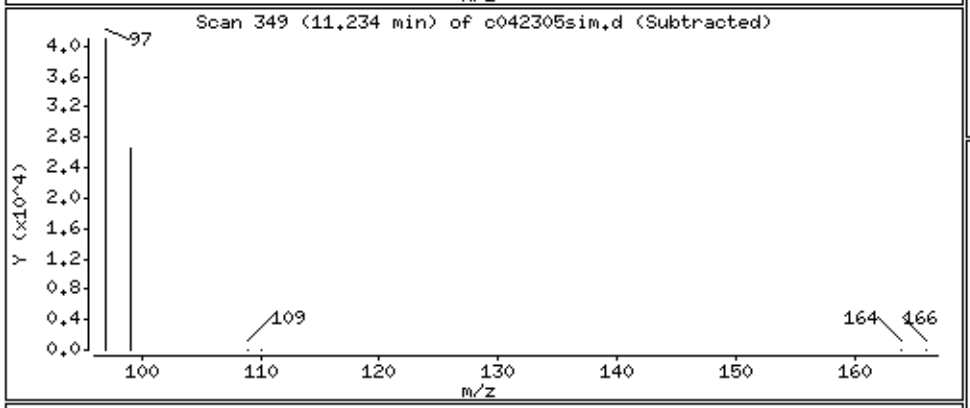
Column diameter: 0.25

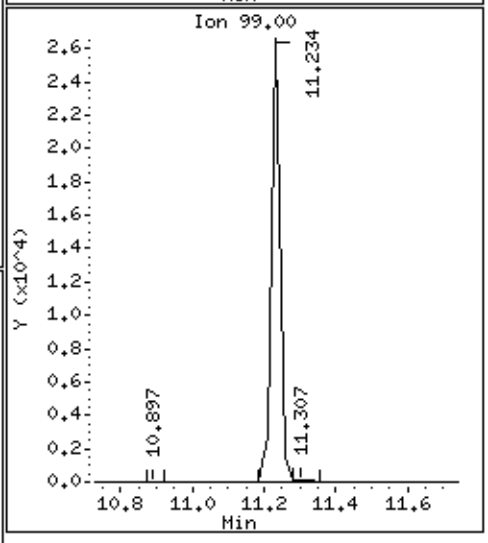
28 1,1,2-Trichloroethane

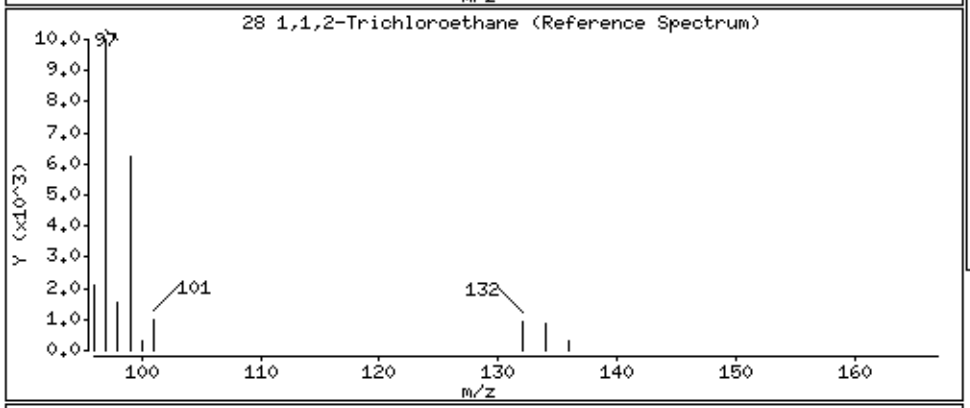
Concentration: 8.86053 ug

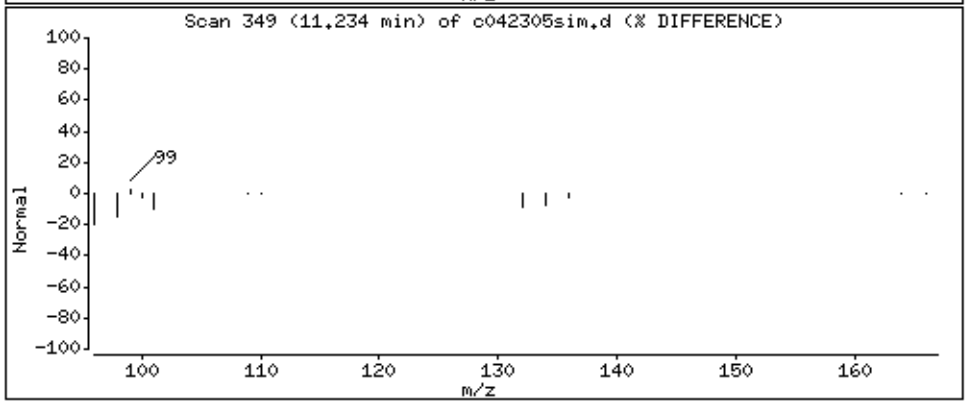












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

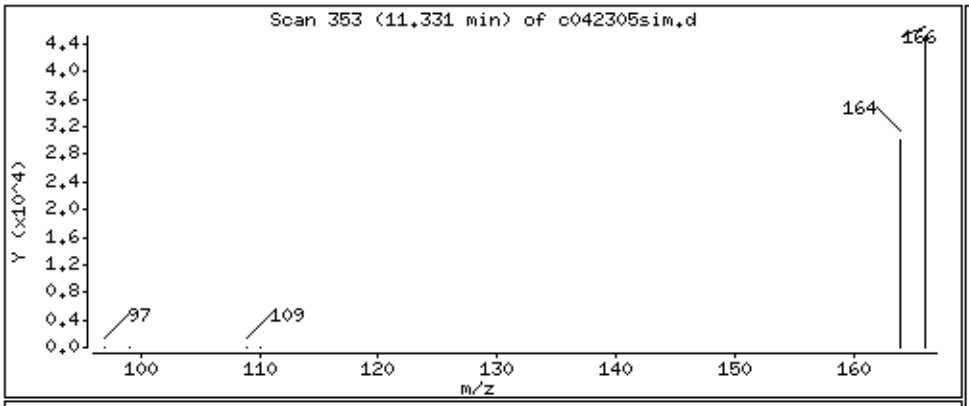
Operator: gm

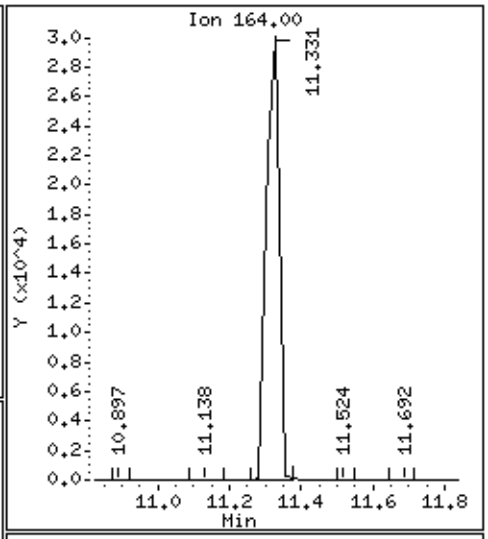
Column phase: DB-5.625

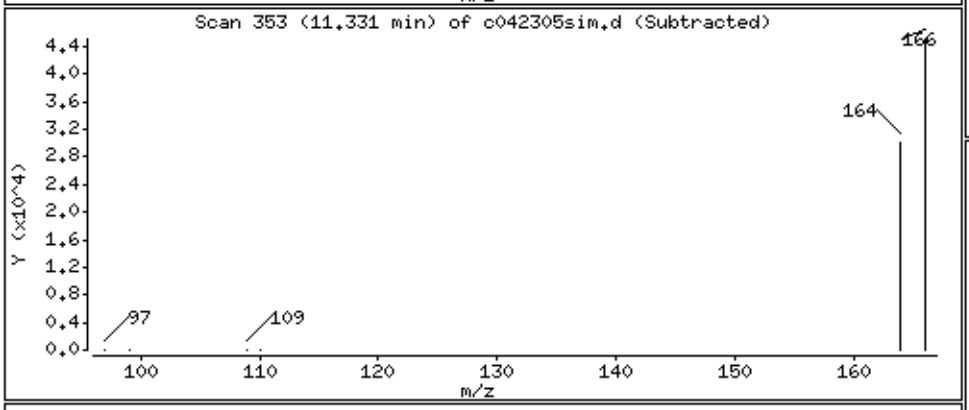
Column diameter: 0.25

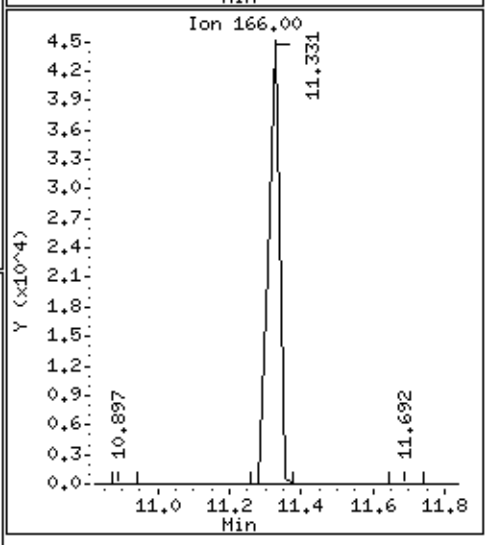
29 Tetrachloroethene

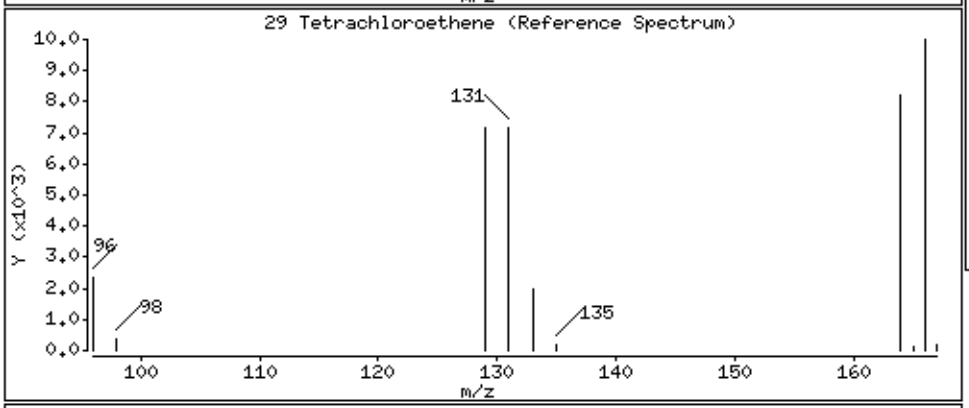
Concentration: 8.35074 ug

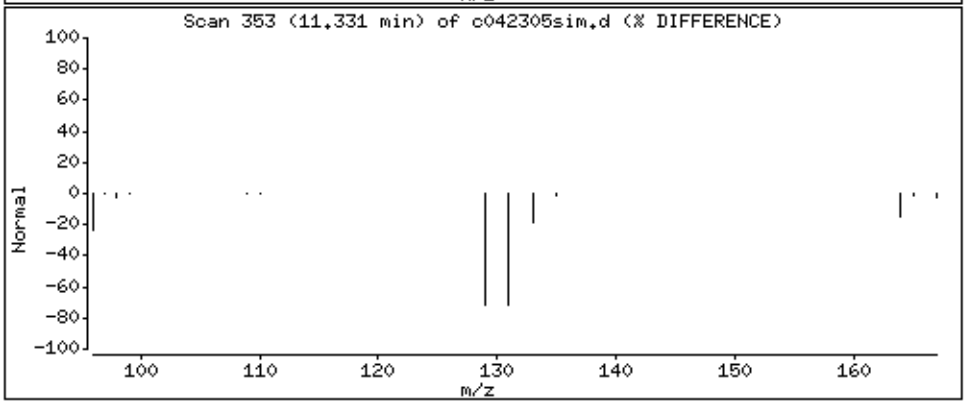












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

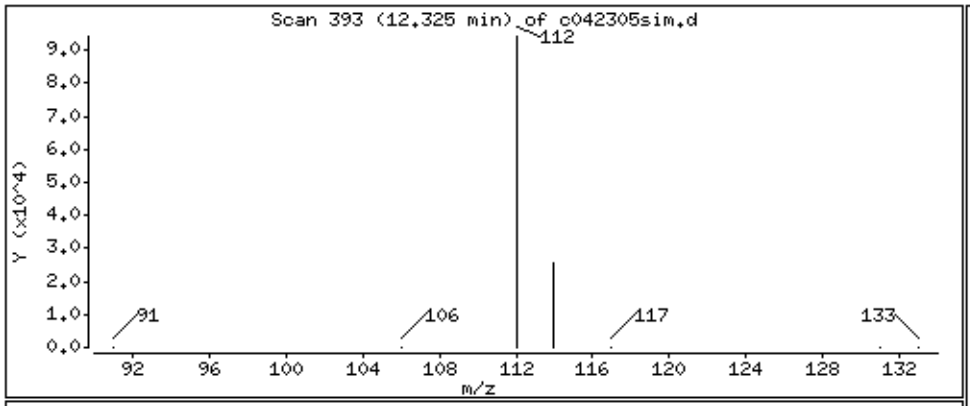
Operator: gm

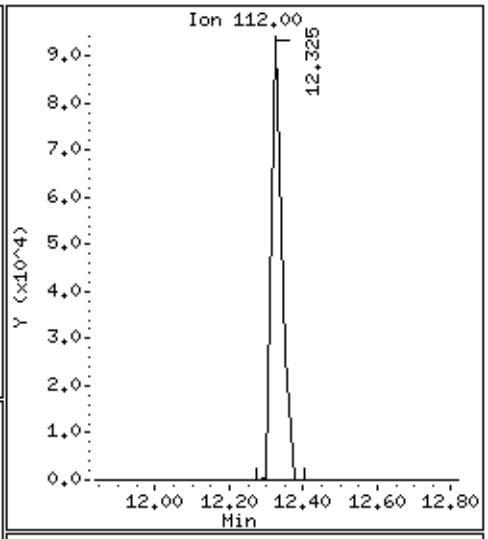
Column phase: DB-5.625

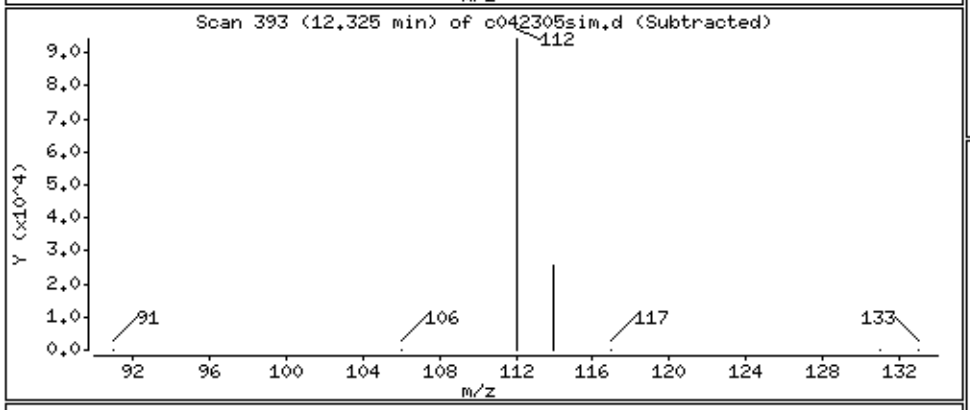
Column diameter: 0.25

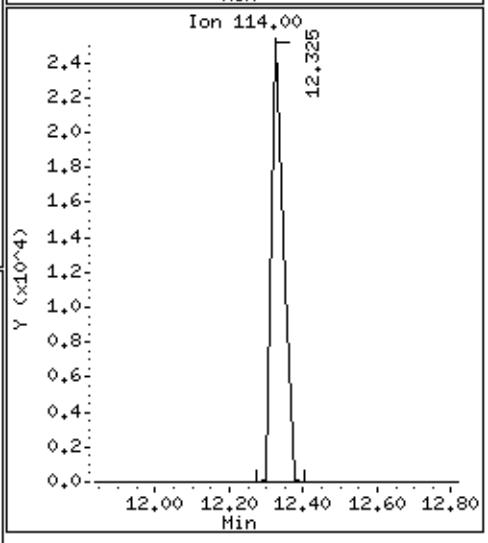
30 Chlorobenzene

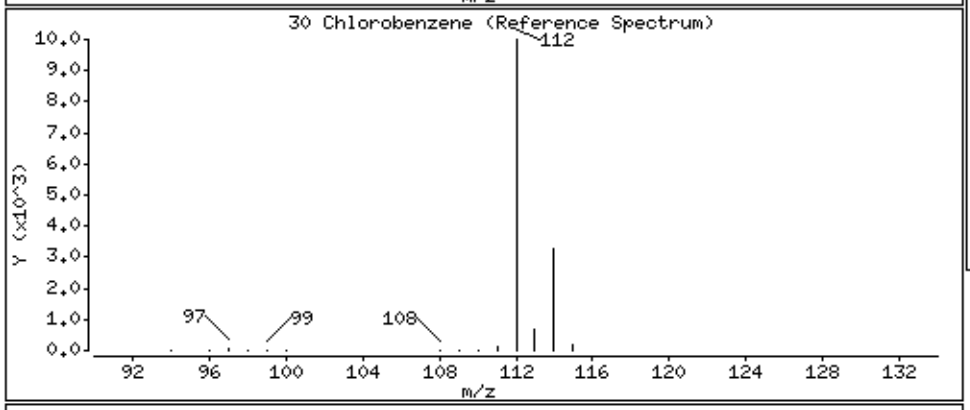
Concentration: 8.00754 ug

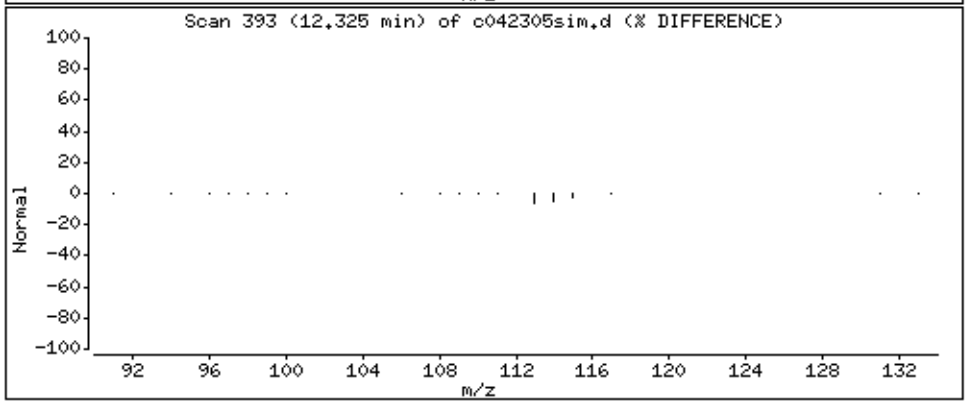












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

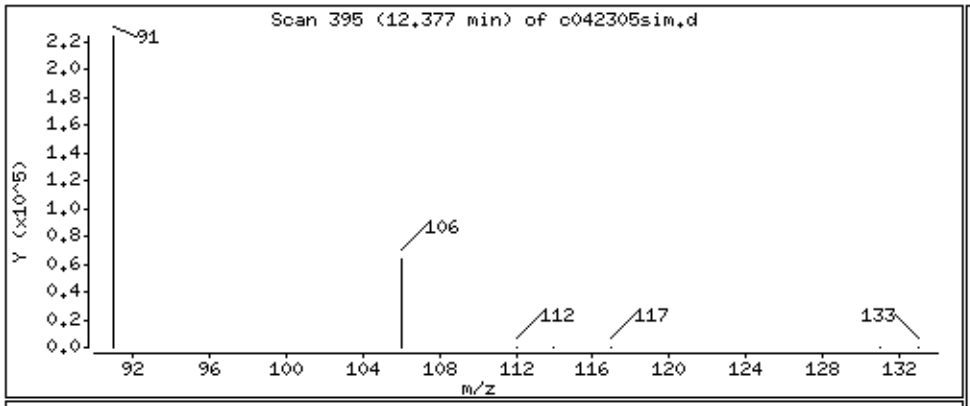
Operator: gm

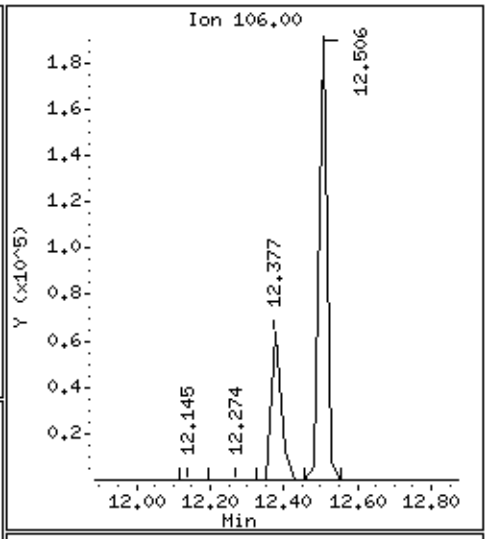
Column phase: DB-5.625

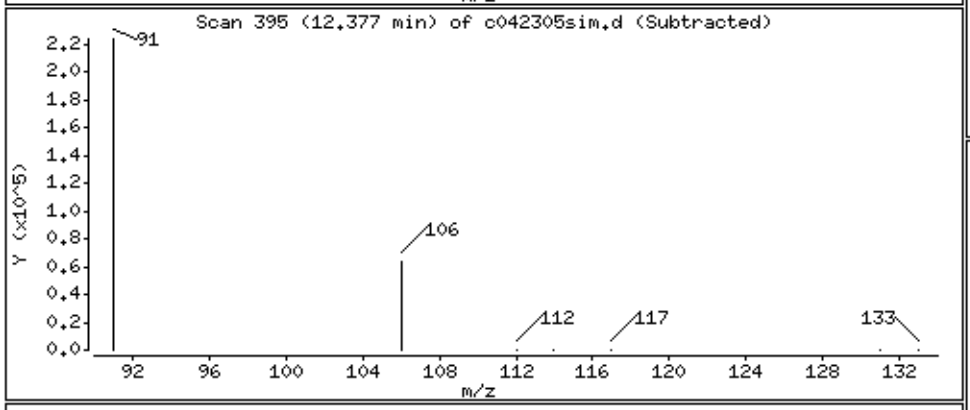
Column diameter: 0.25

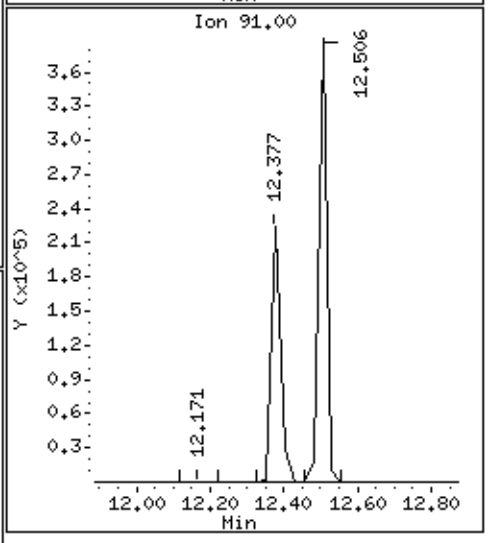
31 Ethylbenzene-CCC

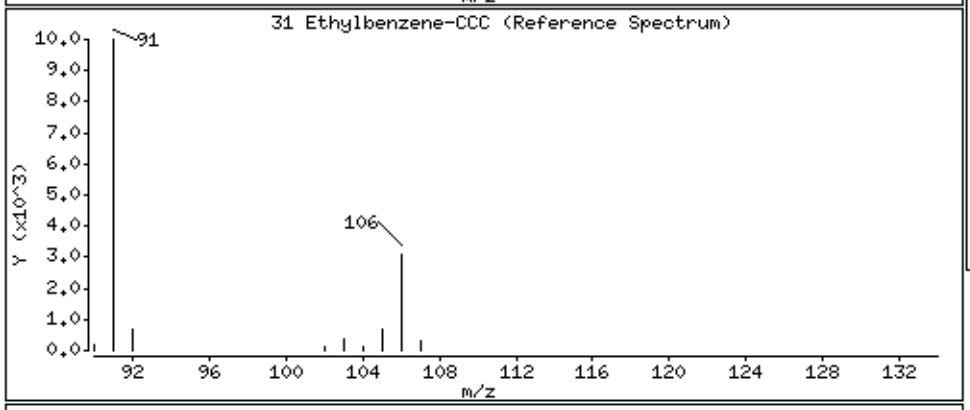
Concentration: 9.28306 ug

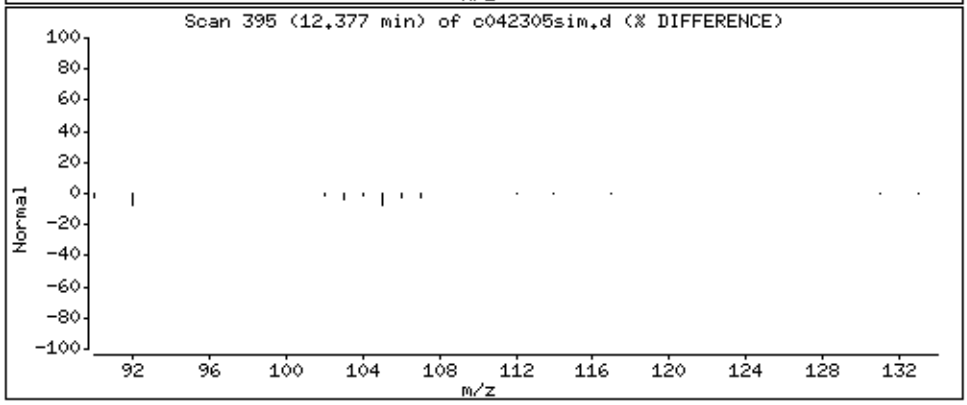












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

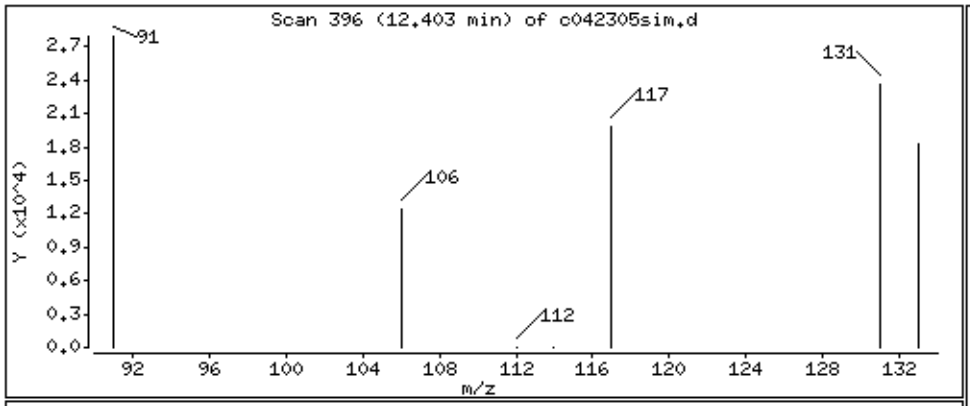
Operator: gm

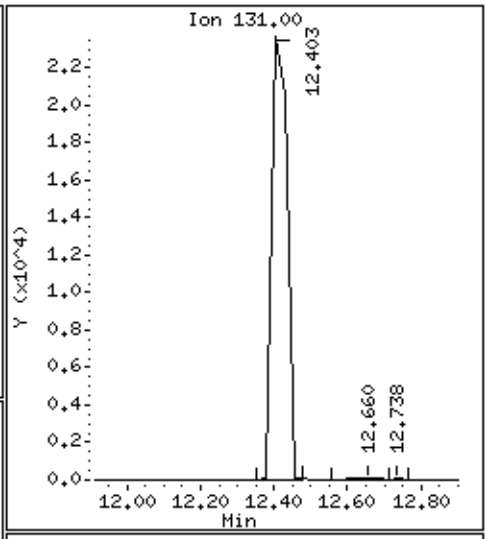
Column phase: DB-5.625

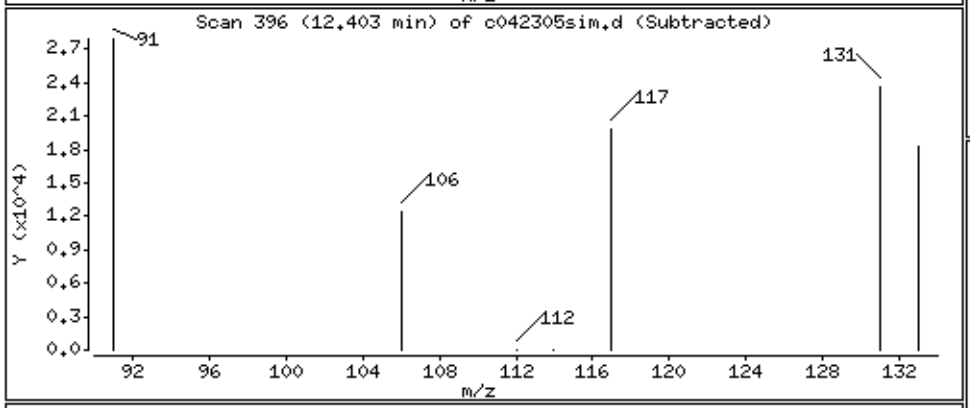
Column diameter: 0.25

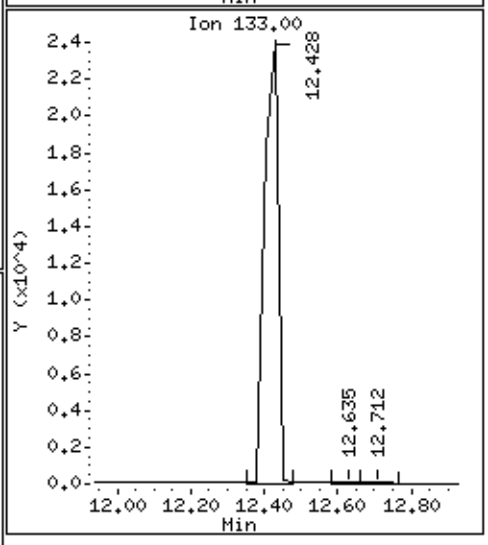
32 1,1,1,2-Tetrachloroethane

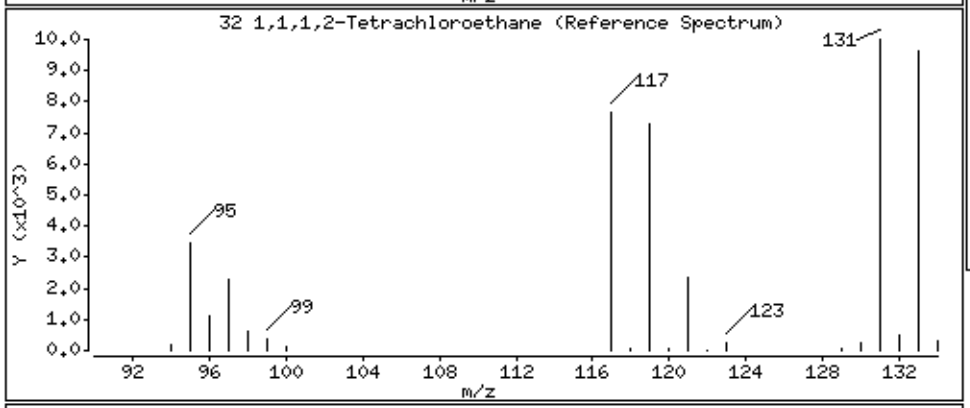
Concentration: 8.28973 ug

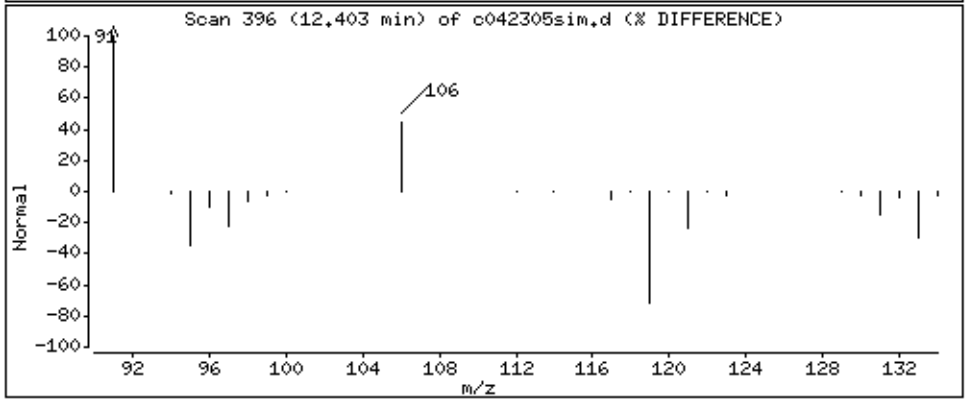












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

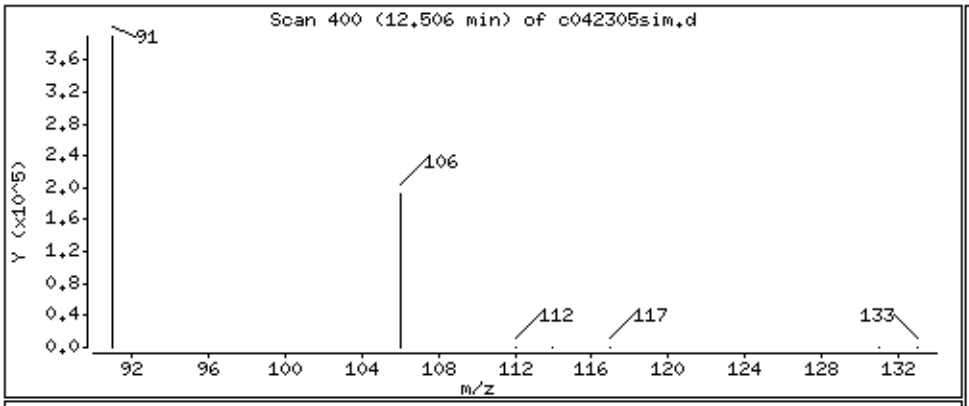
Operator: gm

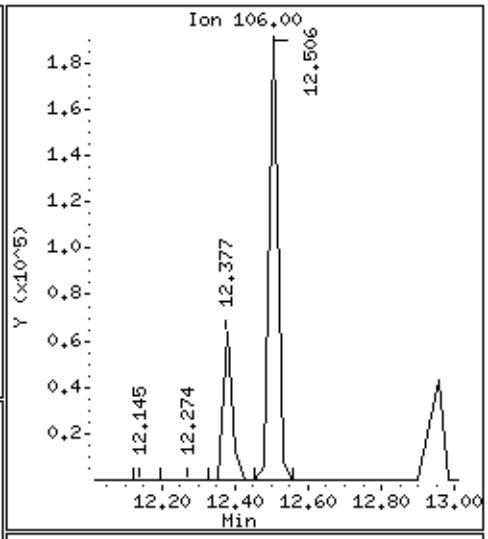
Column phase: DB-5.625

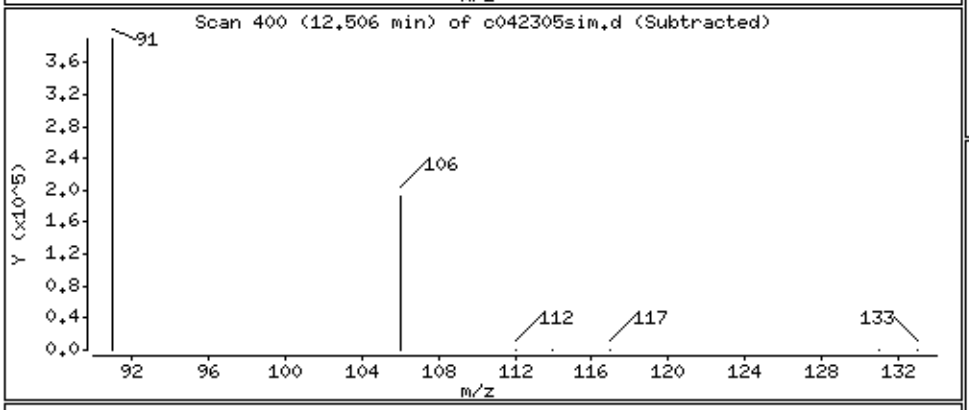
Column diameter: 0.25

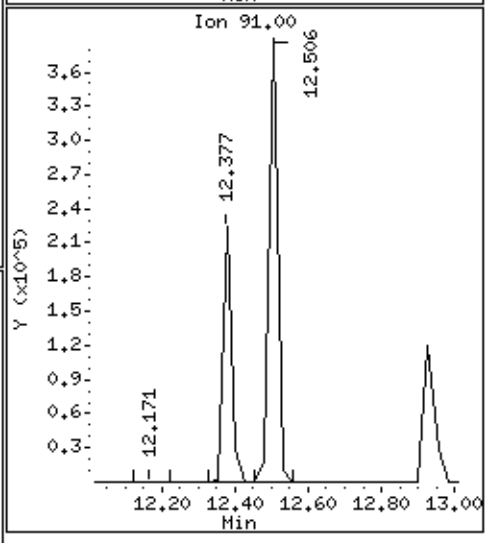
33 m,p-Xylene

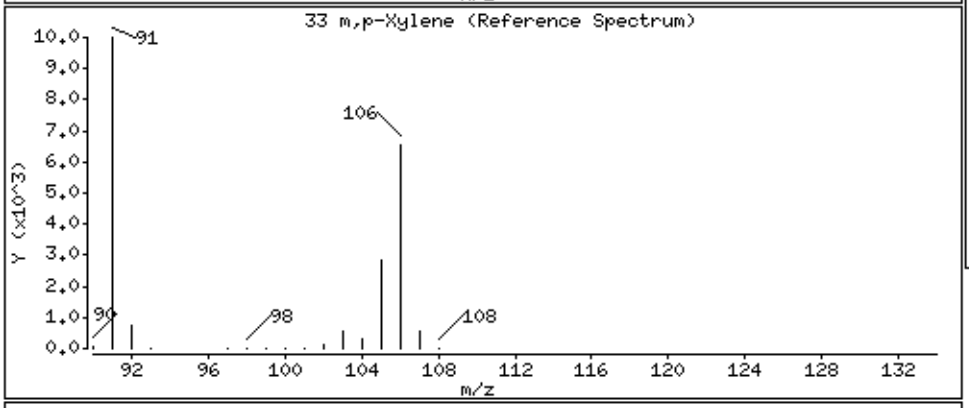
Concentration: 17.8621 ug

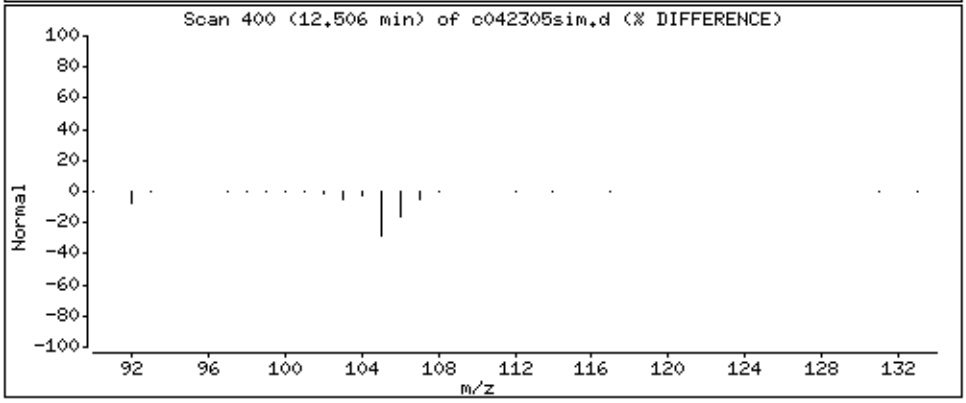












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

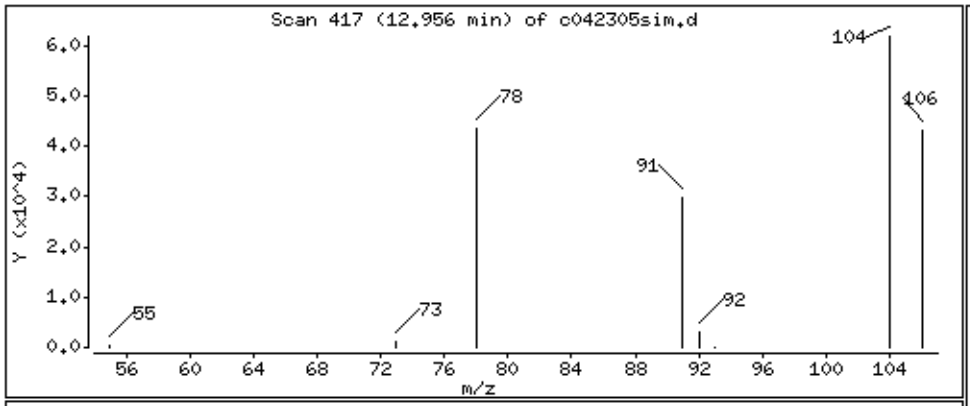
Operator: gm

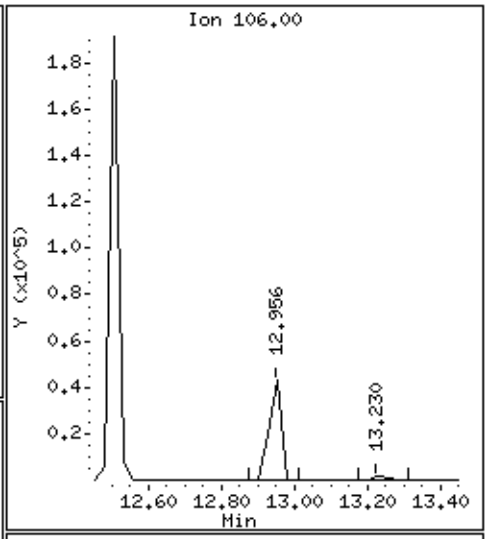
Column phase: DB-5.625

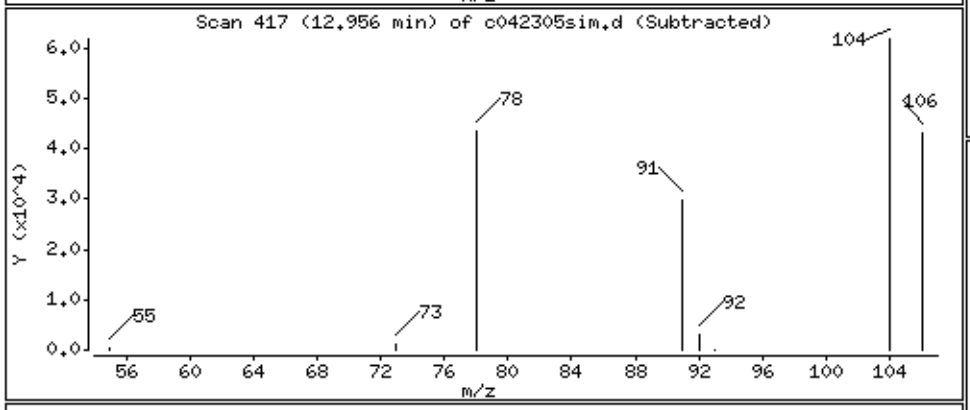
Column diameter: 0.25

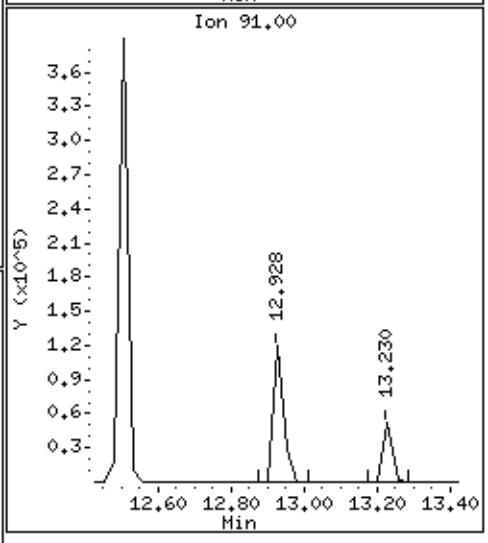
34 o-Xylene

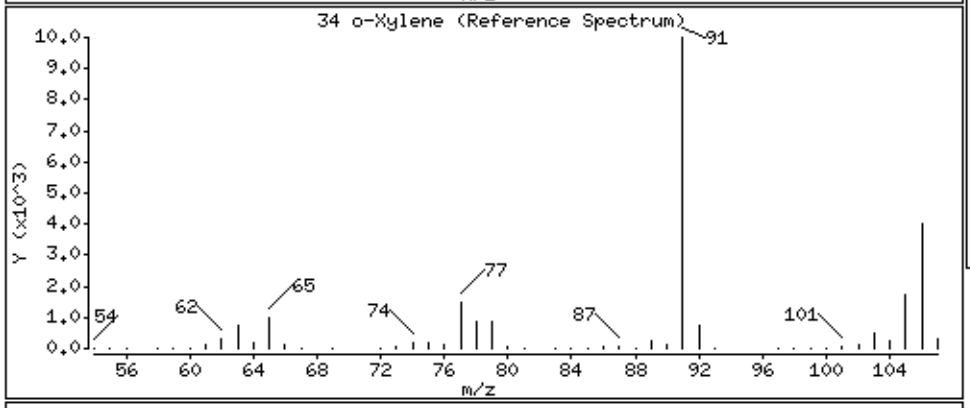
Concentration: 7.37432 ug

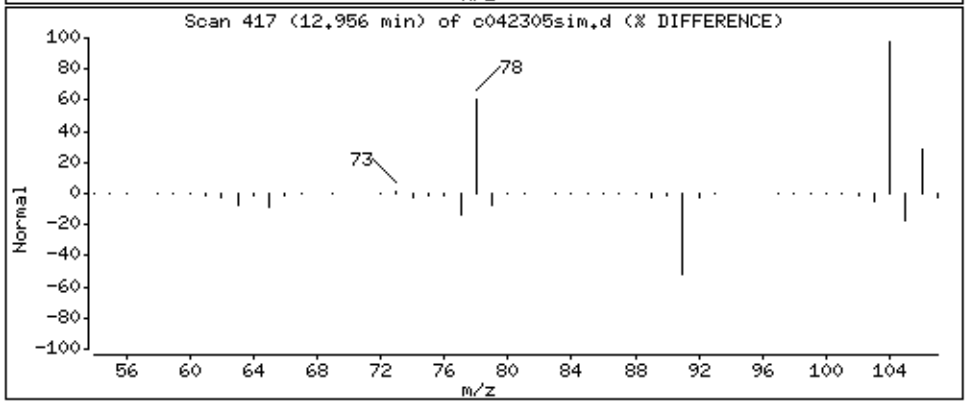












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

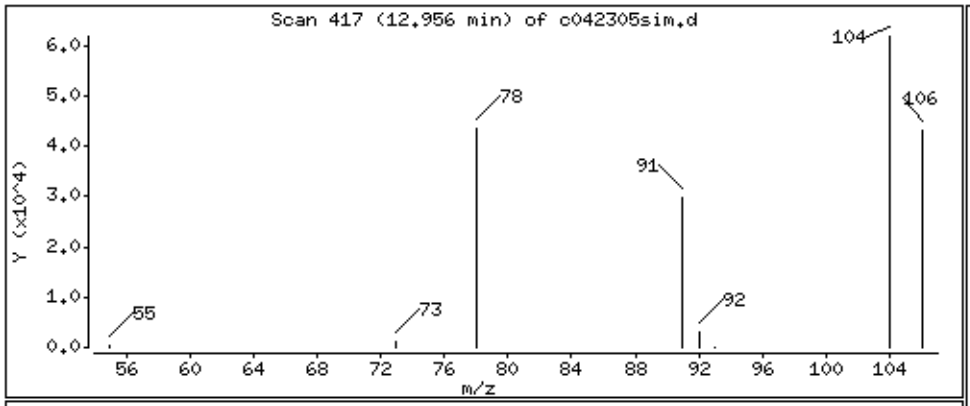
Operator: gm

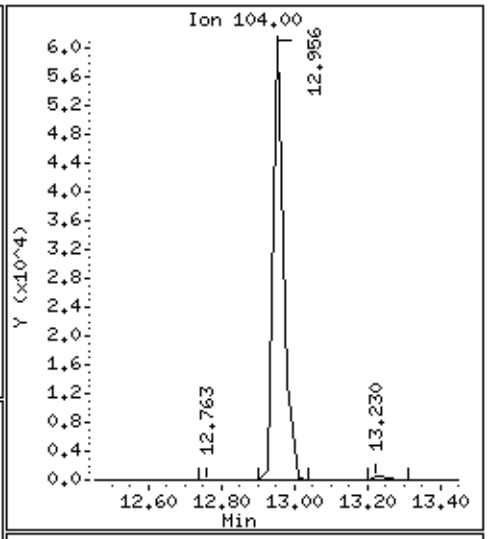
Column phase: DB-5.625

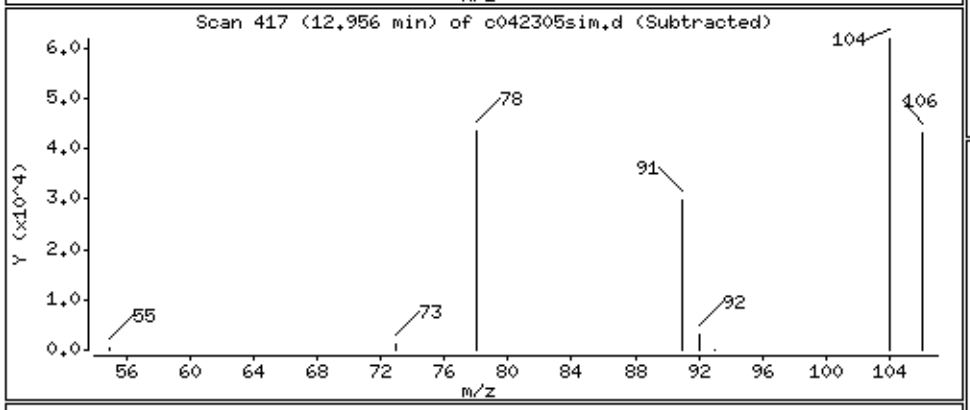
Column diameter: 0.25

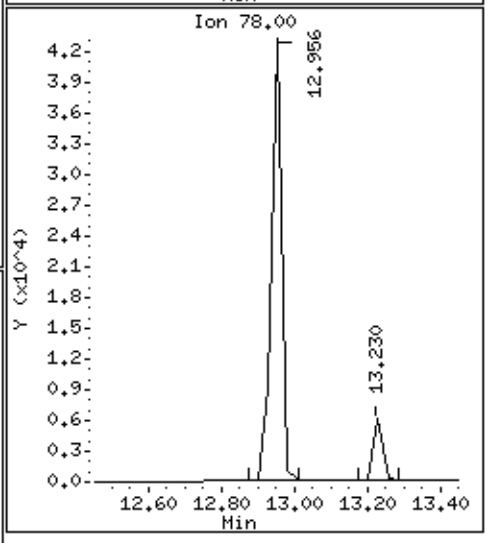
35 Styrene

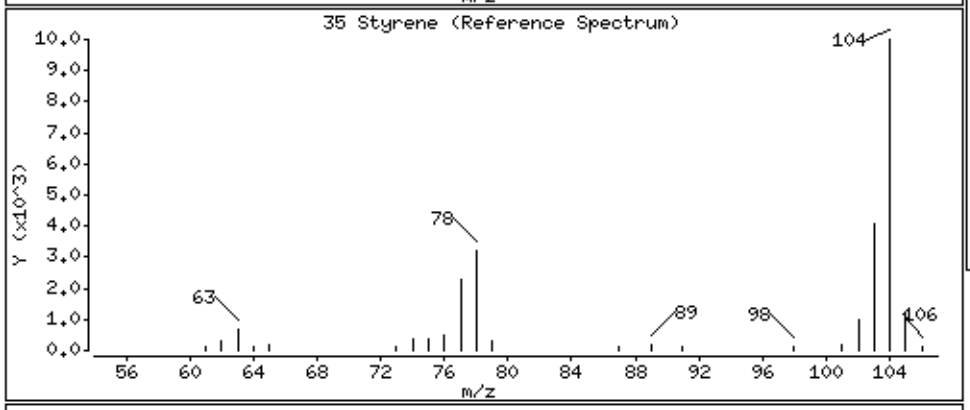
Concentration: 5.32708 ug

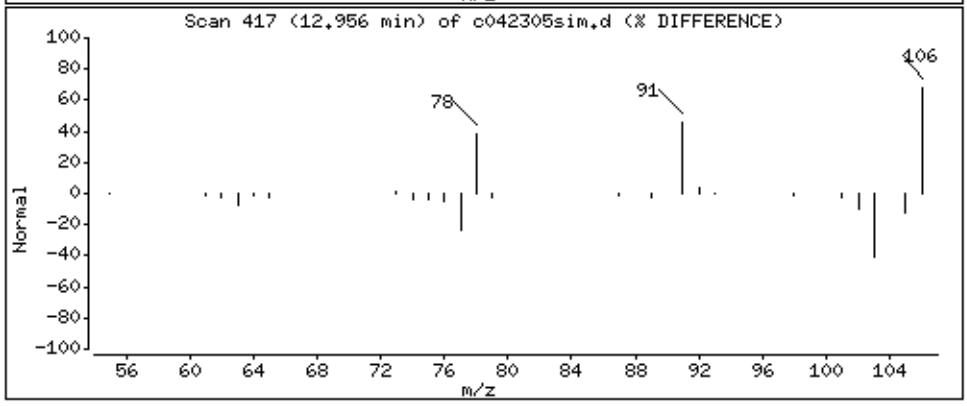












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

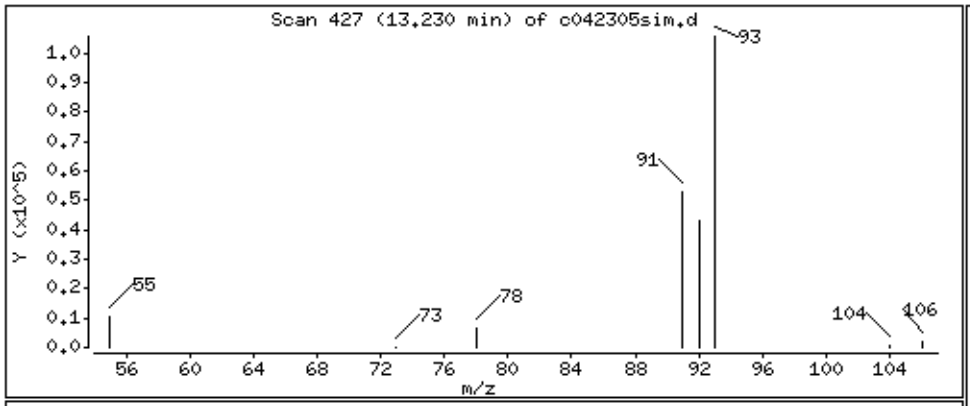
Operator: gm

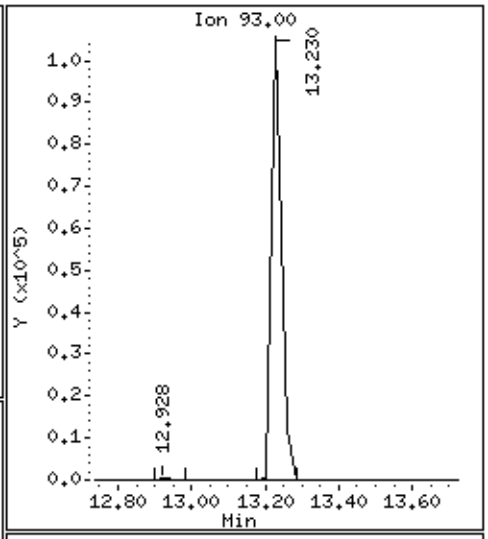
Column phase: DB-5.625

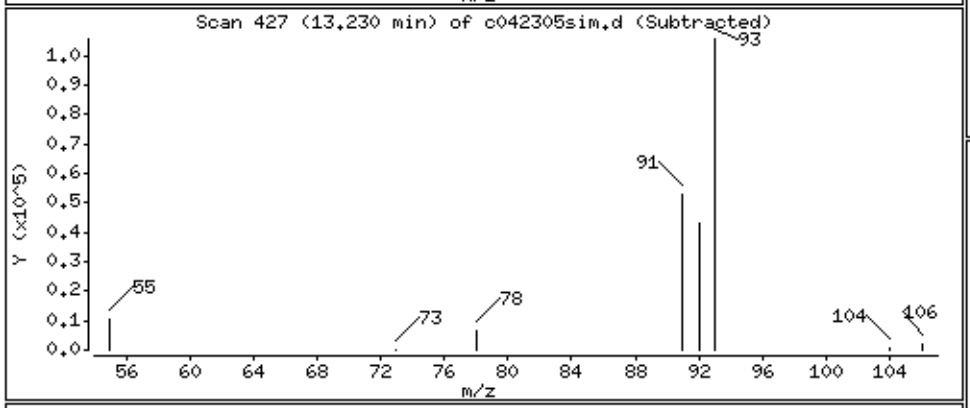
Column diameter: 0.25

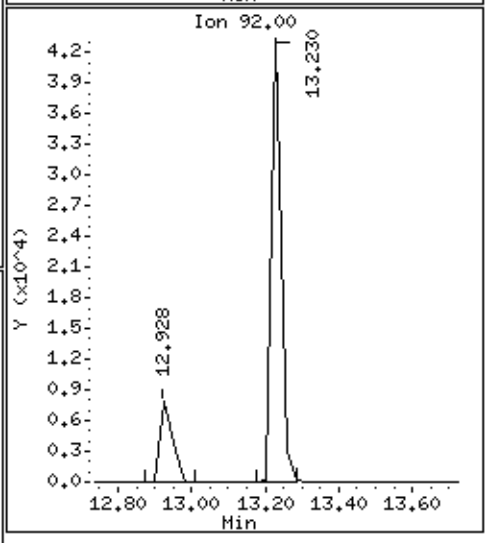
36 a-Pinene

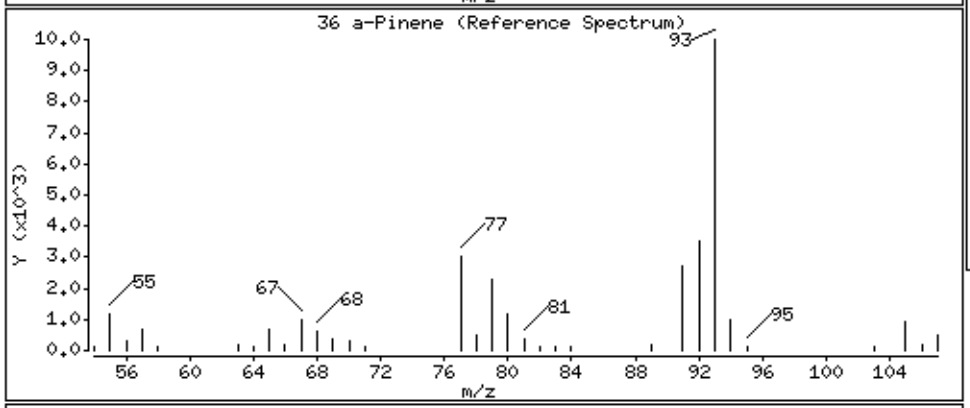
Concentration: 11.7322 ug

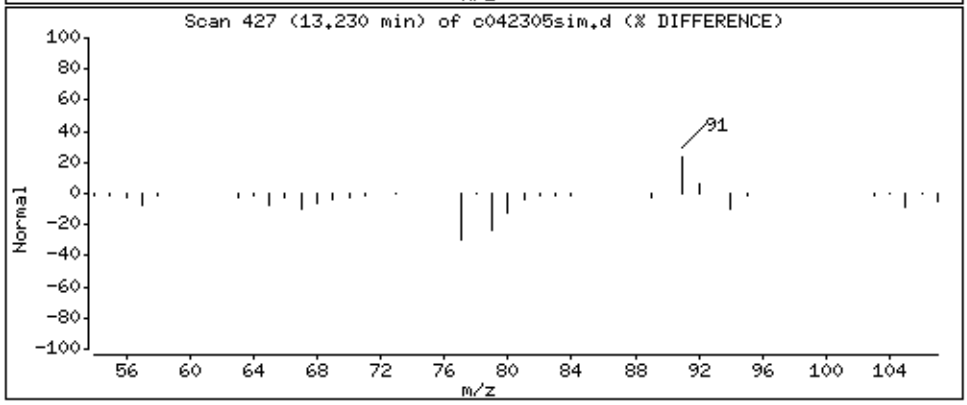












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

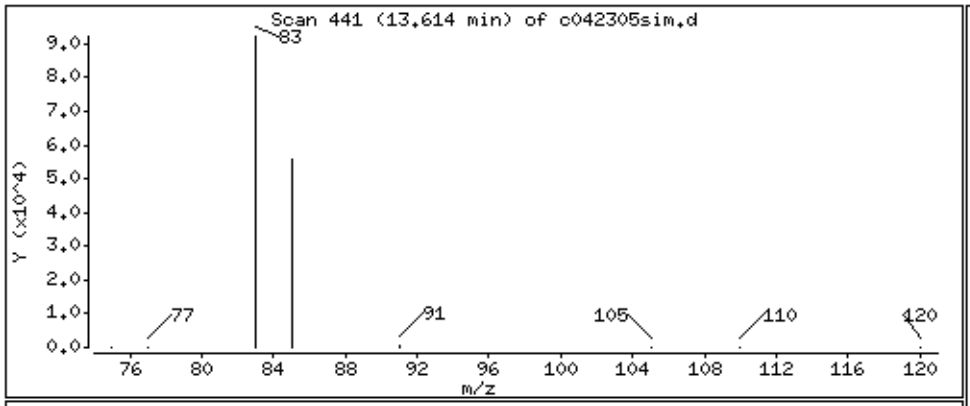
Operator: gm

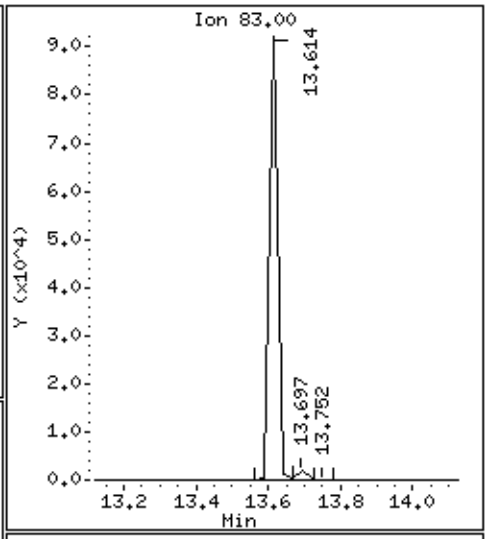
Column phase: DB-5.625

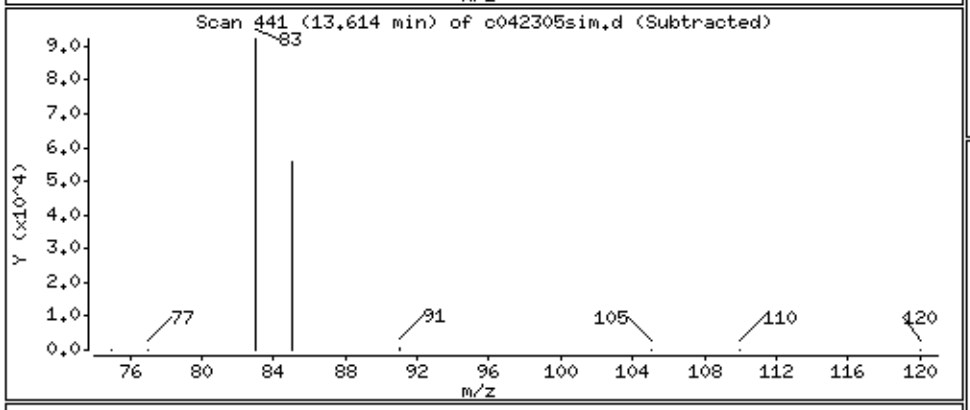
Column diameter: 0.25

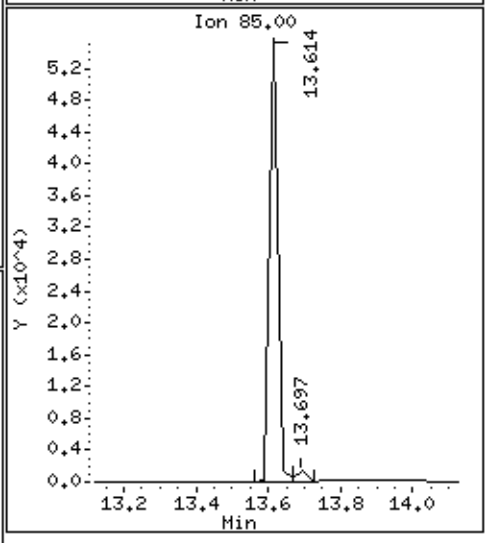
37 1,1,2,2-Tetrachloroethane-SPC

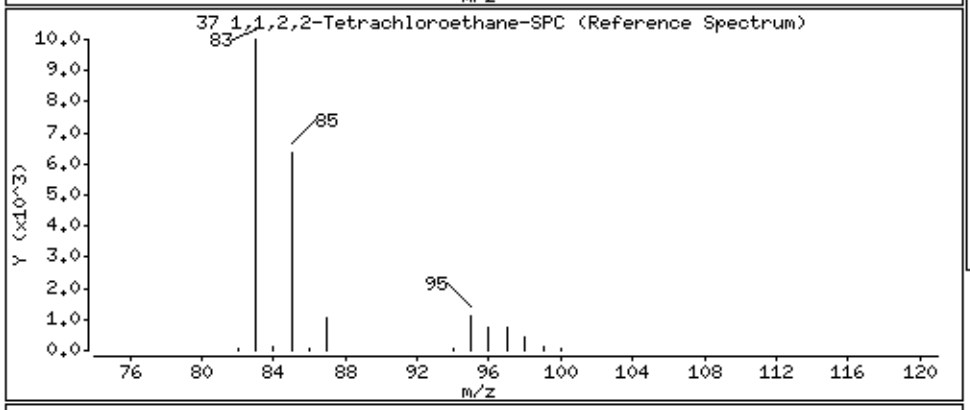
Concentration: 8.89187 ug

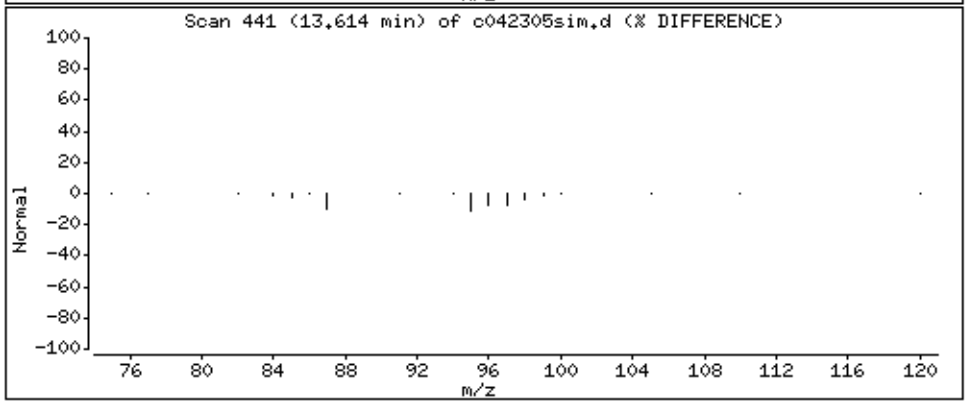












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

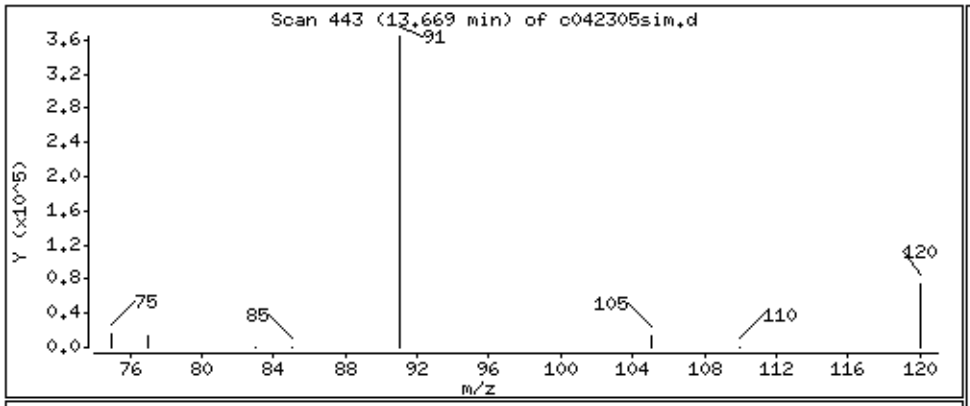
Operator: gm

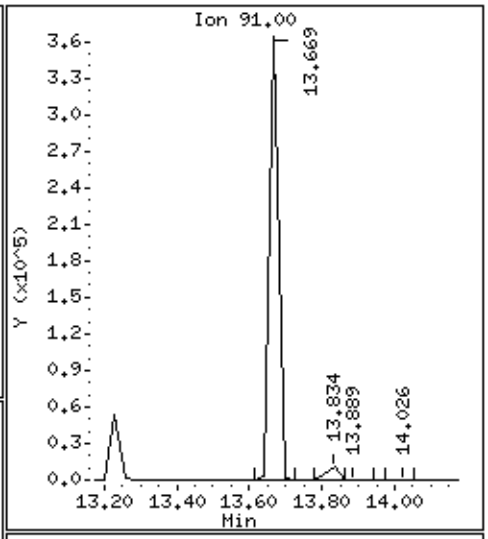
Column phase: DB-5.625

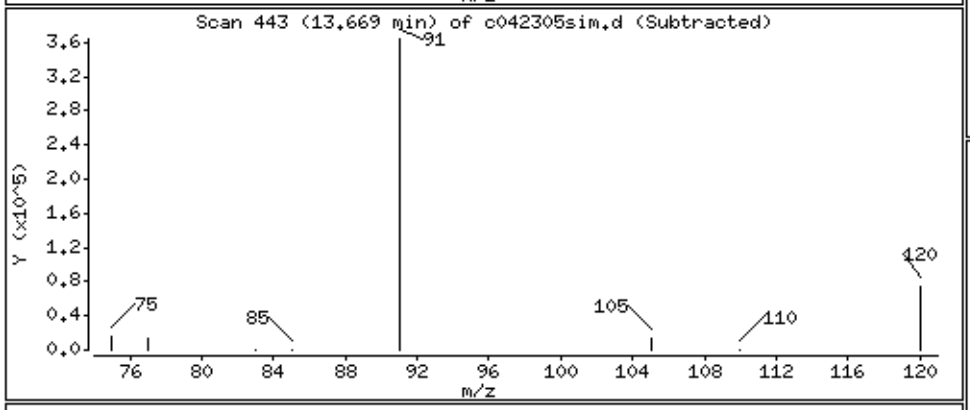
Column diameter: 0.25

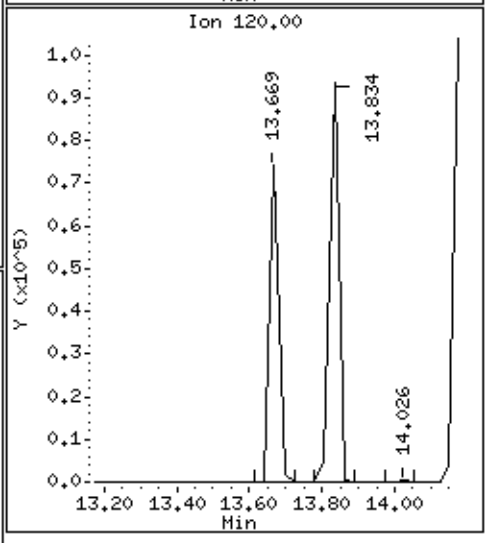
38 Propylbenzene

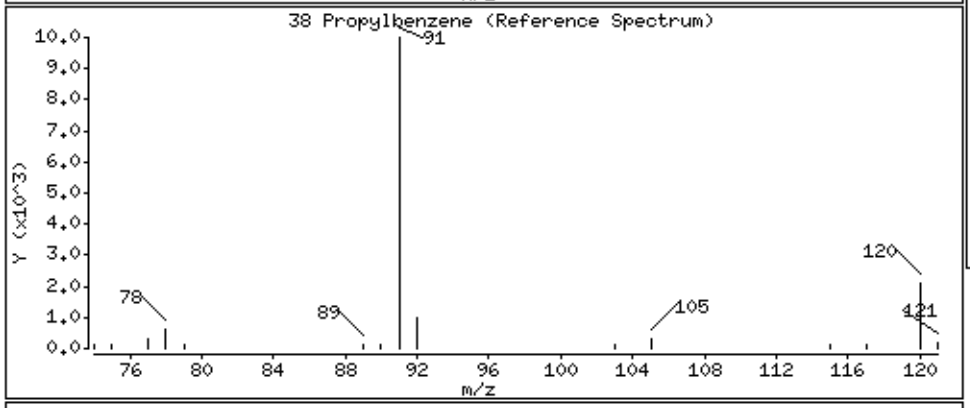
Concentration: 8.98959 ug

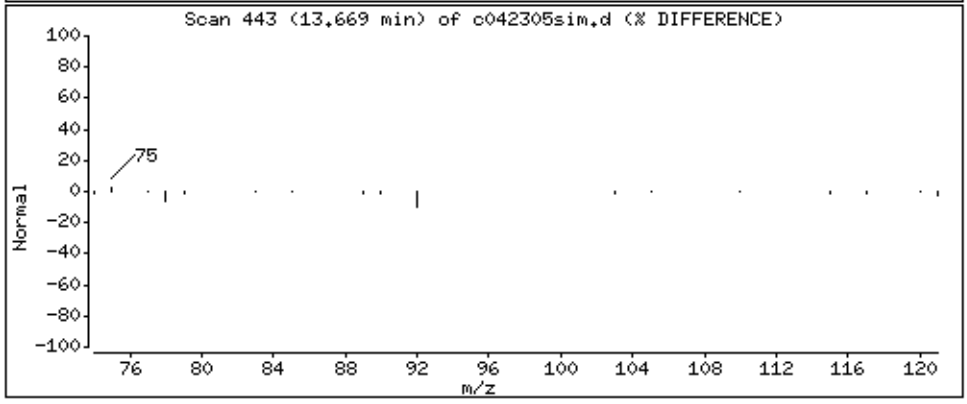












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

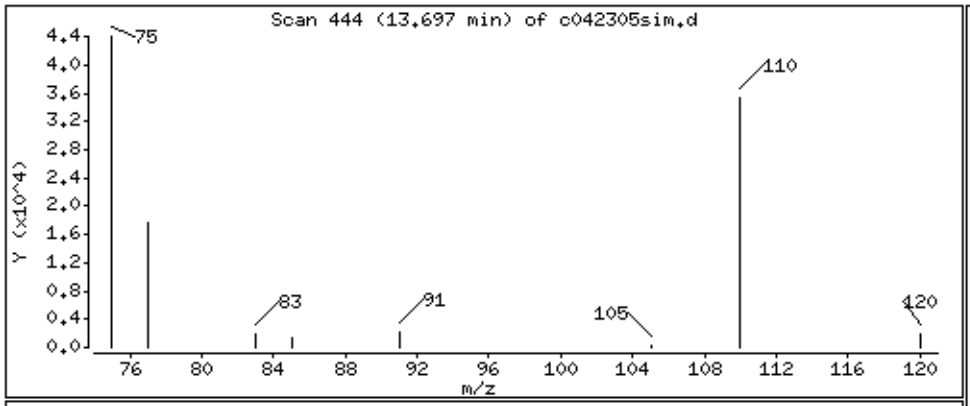
Operator: gm

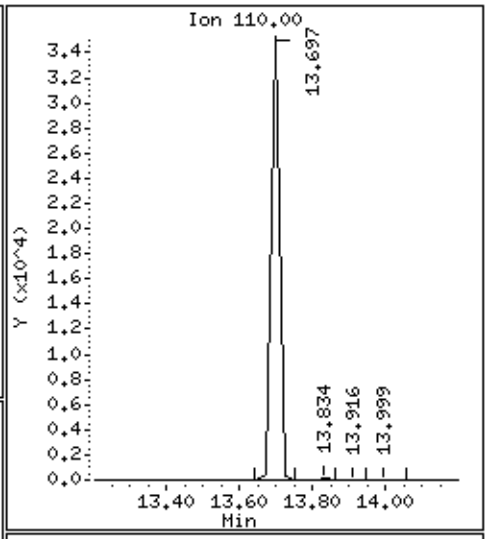
Column phase: DB-5.625

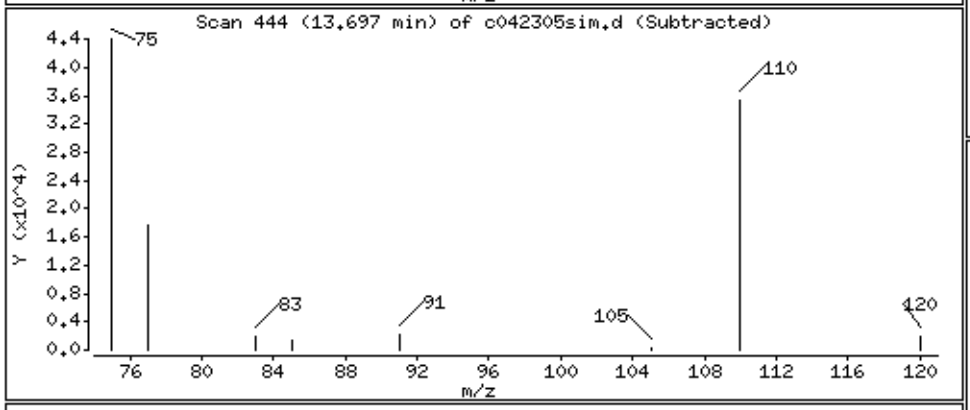
Column diameter: 0.25

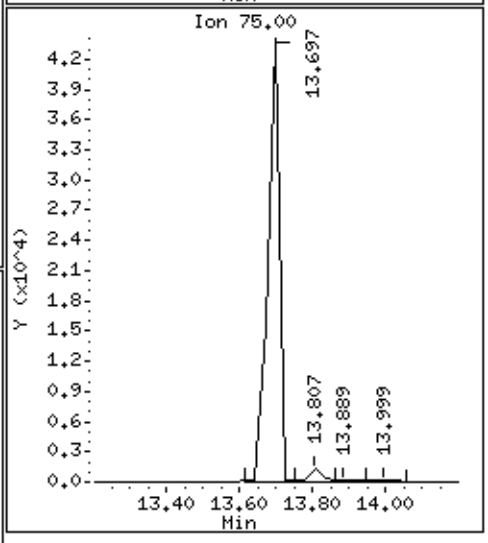
39 1,2,3-Trichloropropane

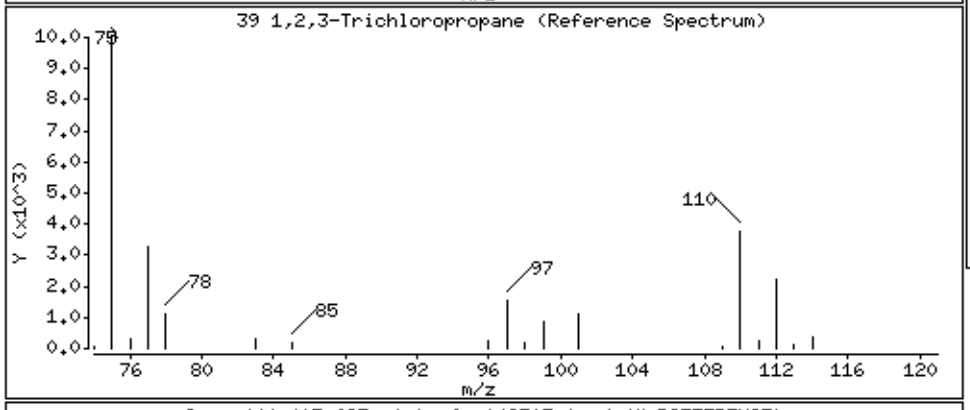
Concentration: 8.72105 ug

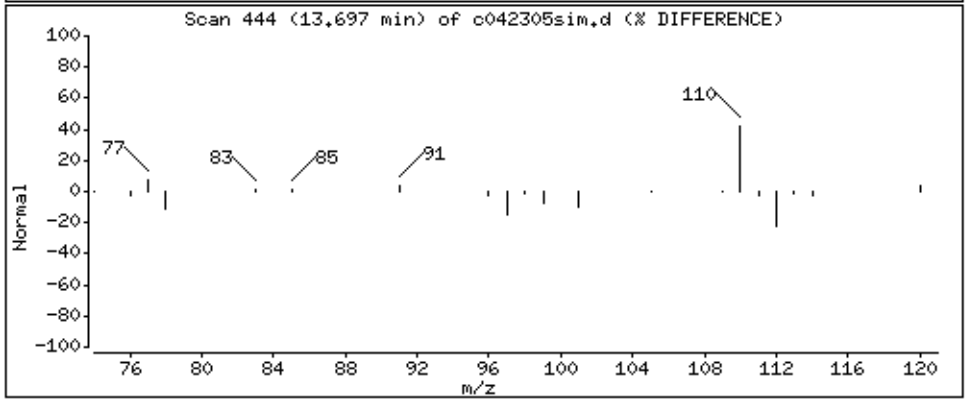












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

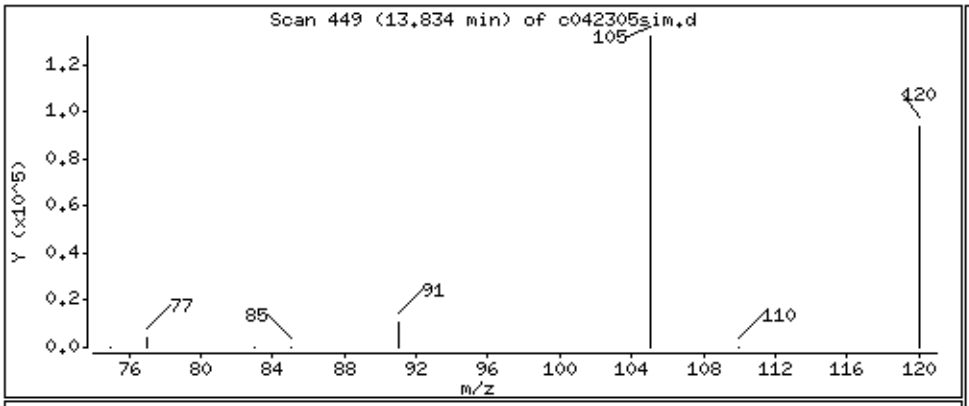
Operator: gm

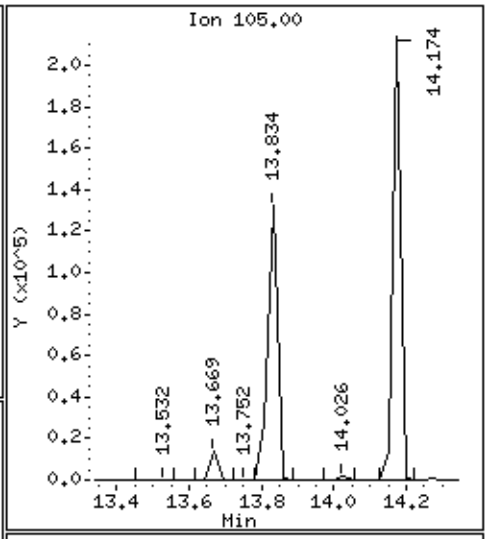
Column phase: DB-5.625

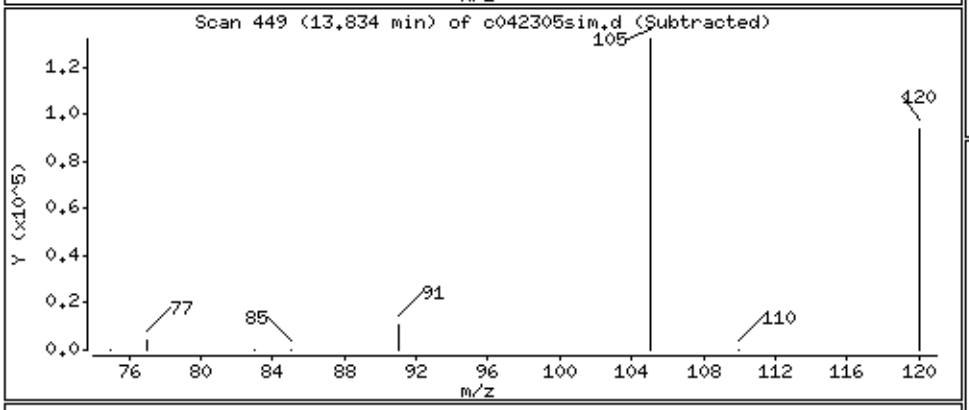
Column diameter: 0.25

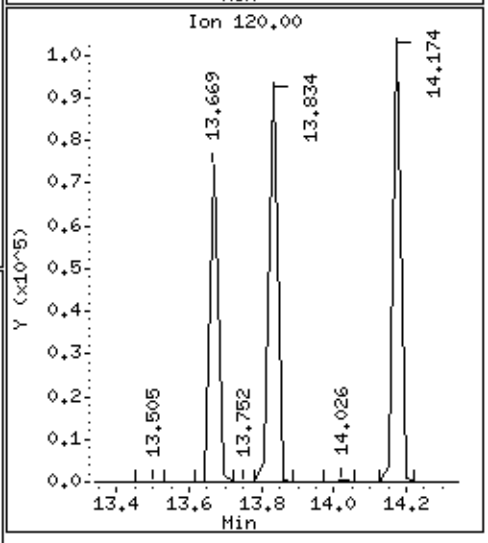
40 1,3,5-Trimethylbenzene

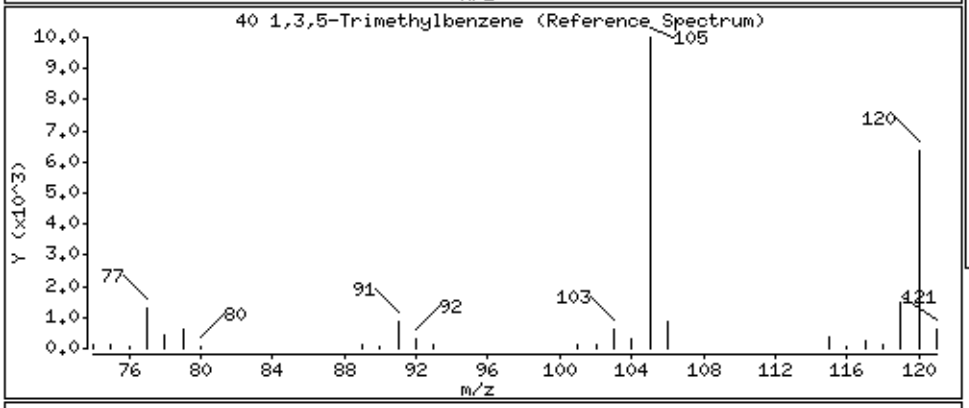
Concentration: 8.23459 ug

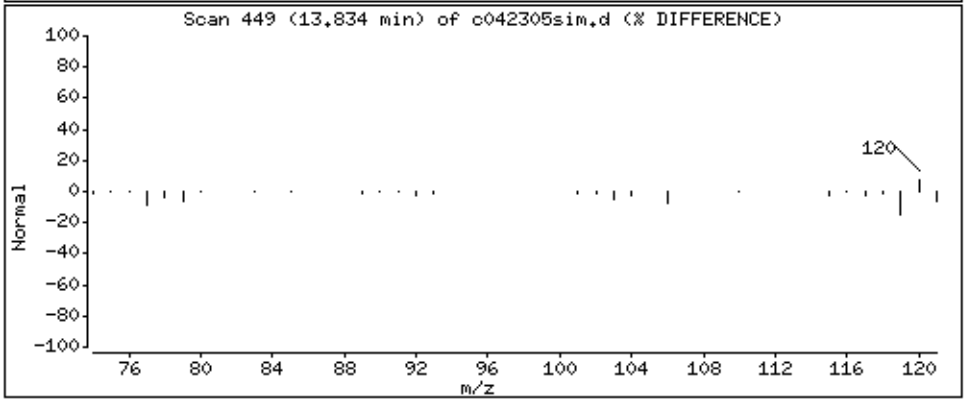












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

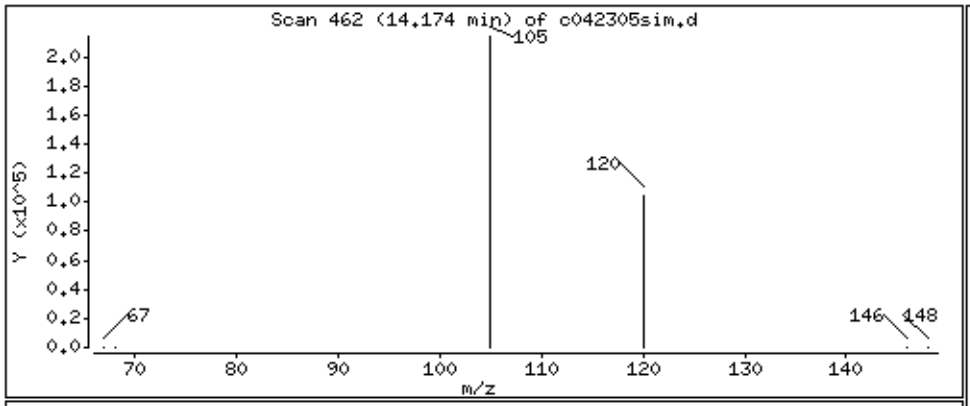
Operator: gm

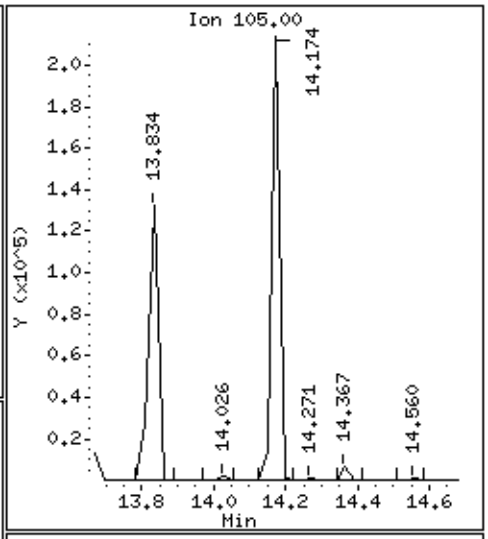
Column phase: DB-5.625

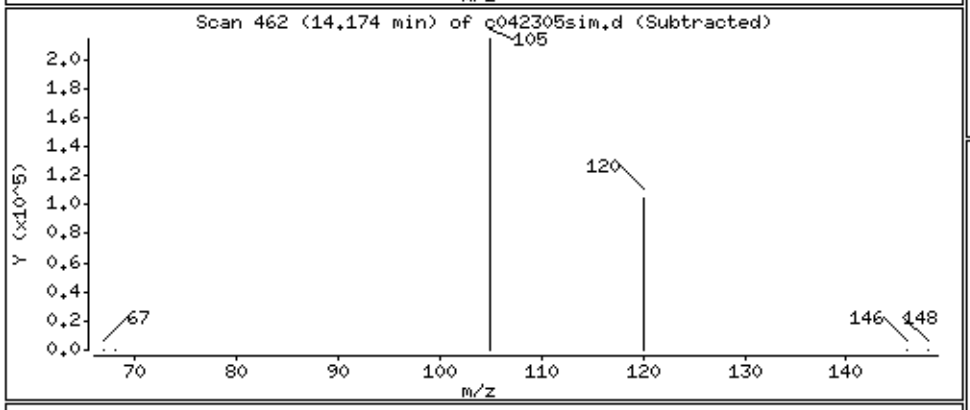
Column diameter: 0.25

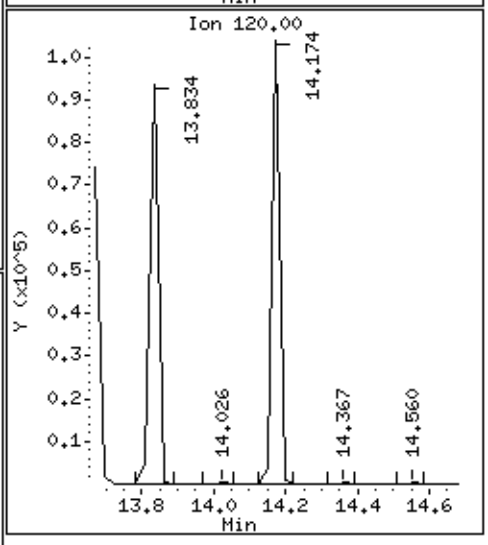
41 1,2,4-Trimethylbenzene

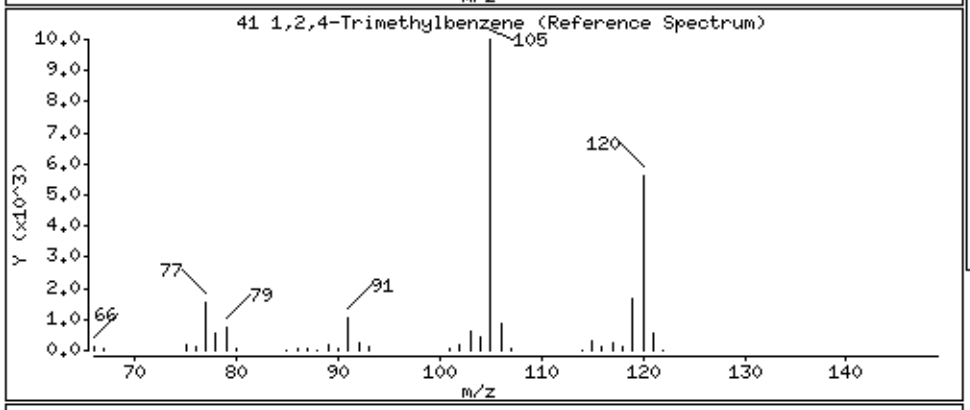
Concentration: 8.22414 ug

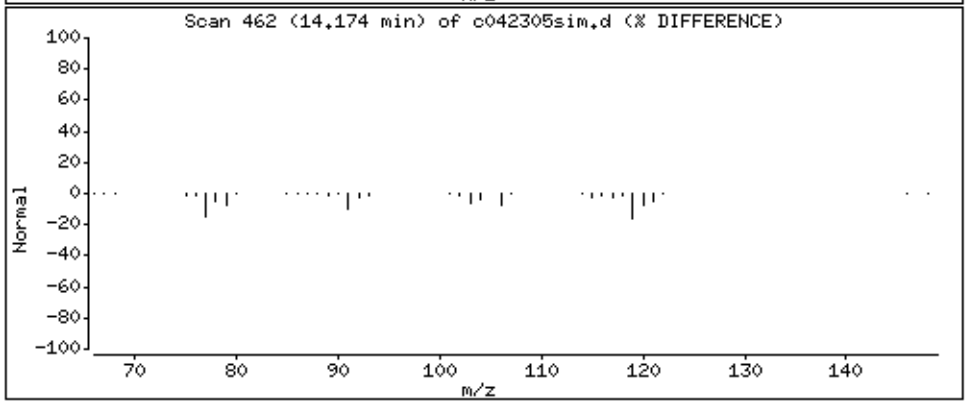












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

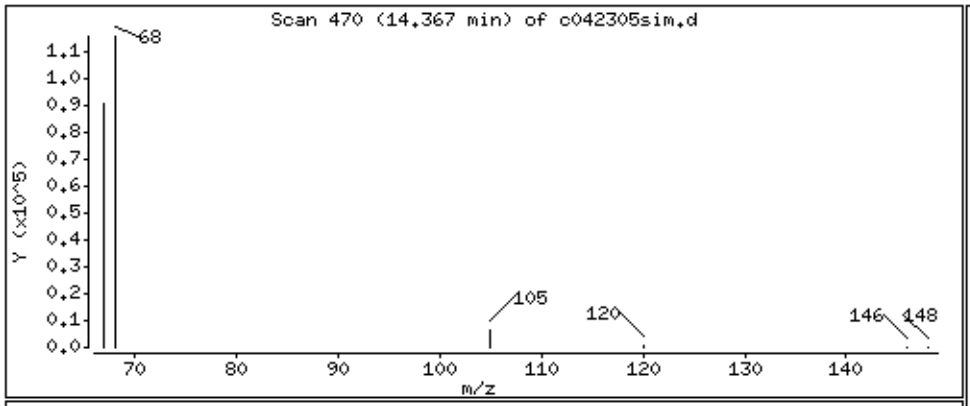
Operator: gm

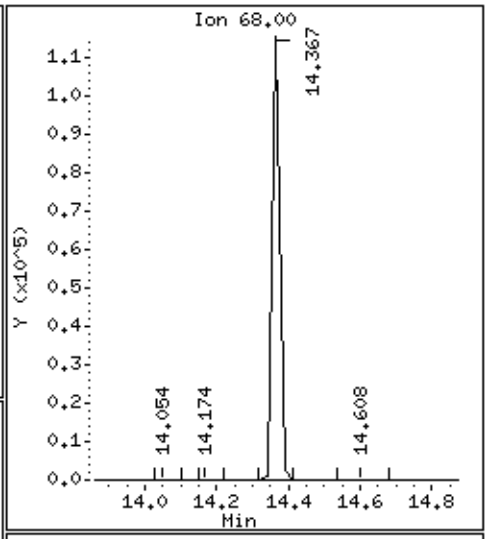
Column phase: DB-5.625

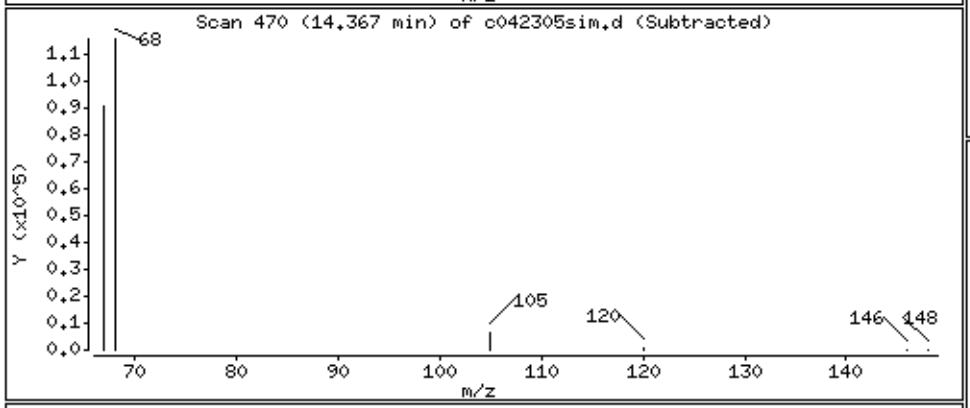
Column diameter: 0.25

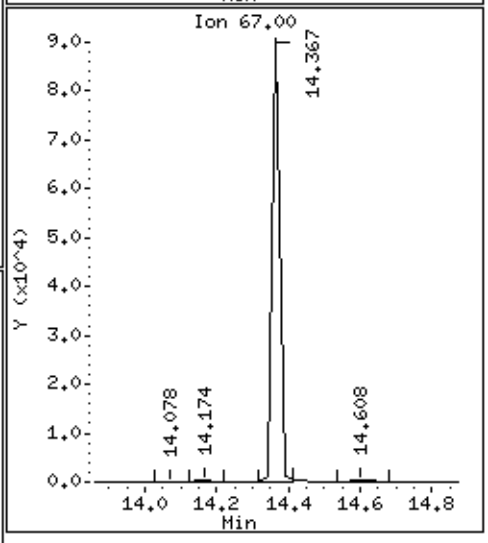
42 R-(+)-Limonene

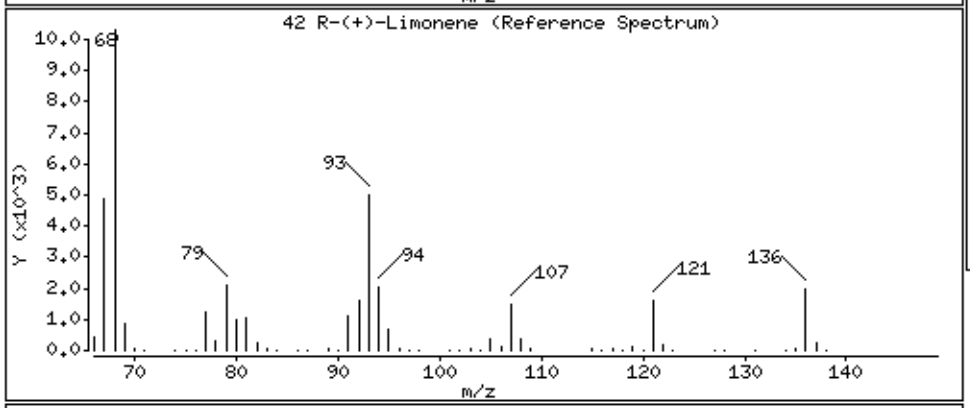
Concentration: 10.2050 ug

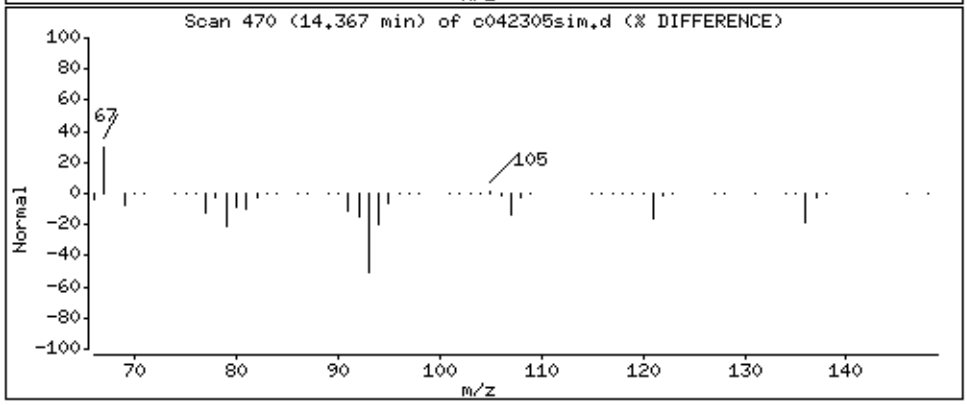












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

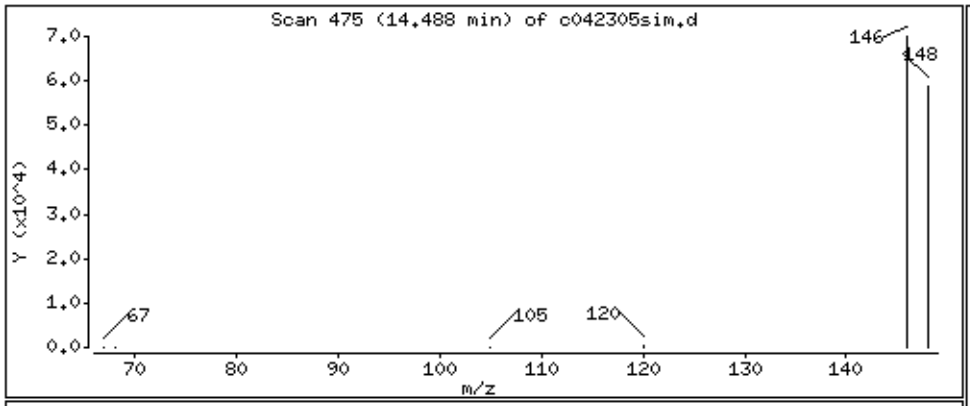
Operator: gm

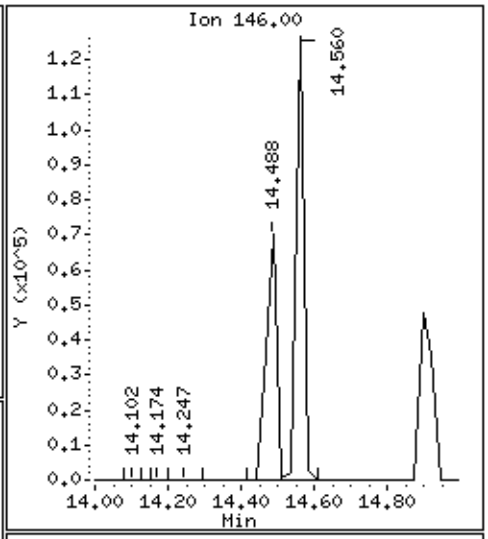
Column phase: DB-5.625

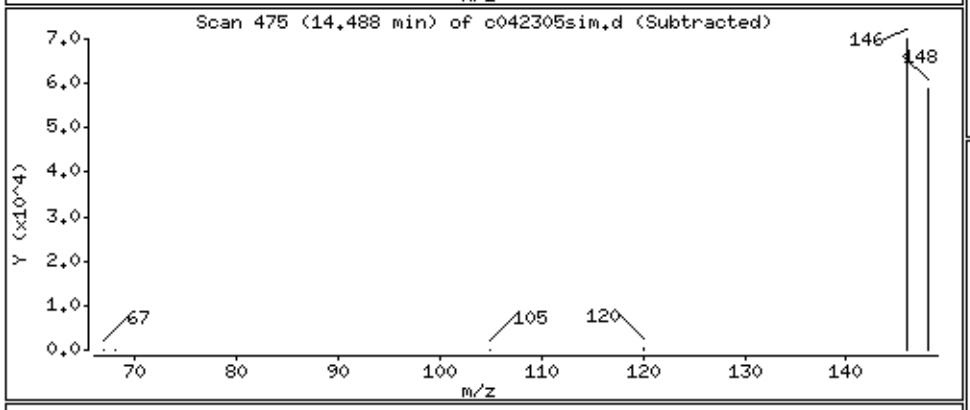
Column diameter: 0.25

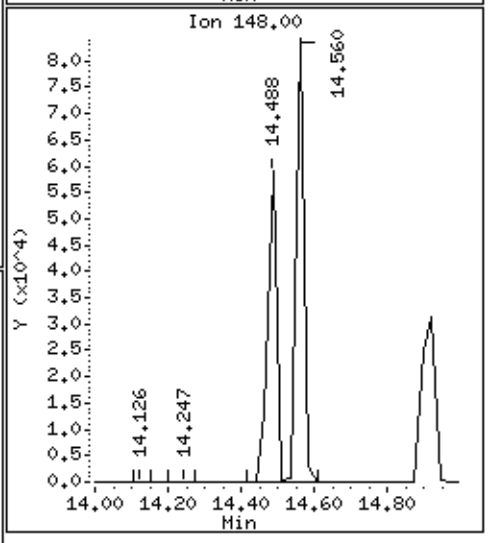
43 1,3-Dichlorobenzene

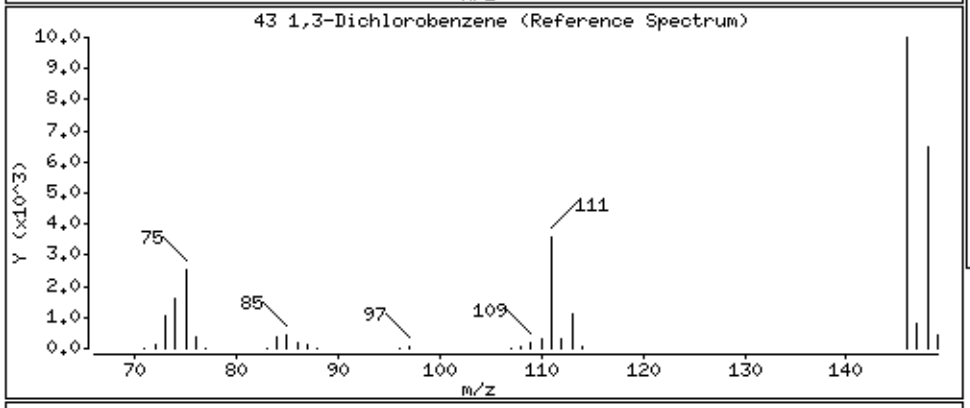
Concentration: 6.51056 ug

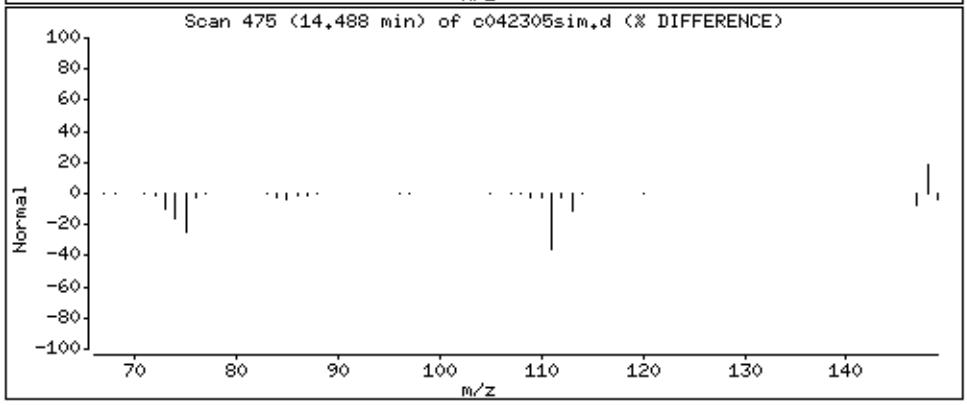












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

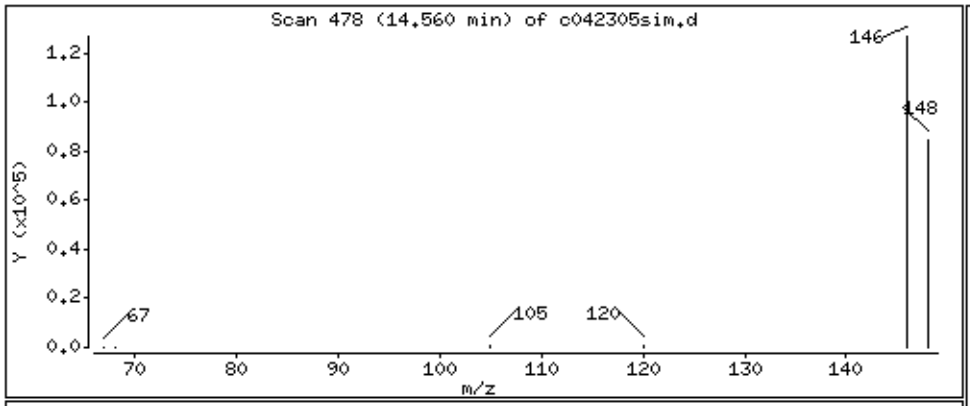
Operator: gm

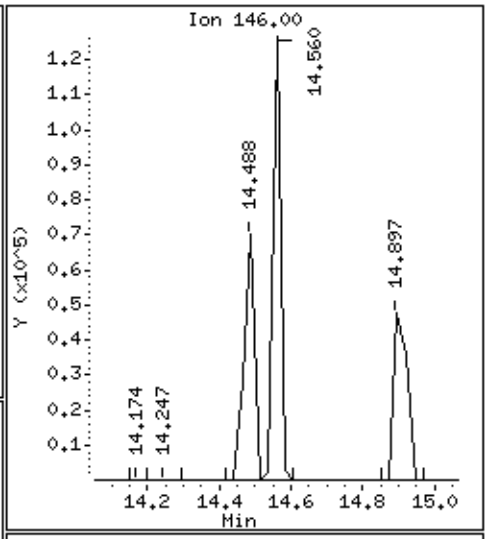
Column phase: DB-5.625

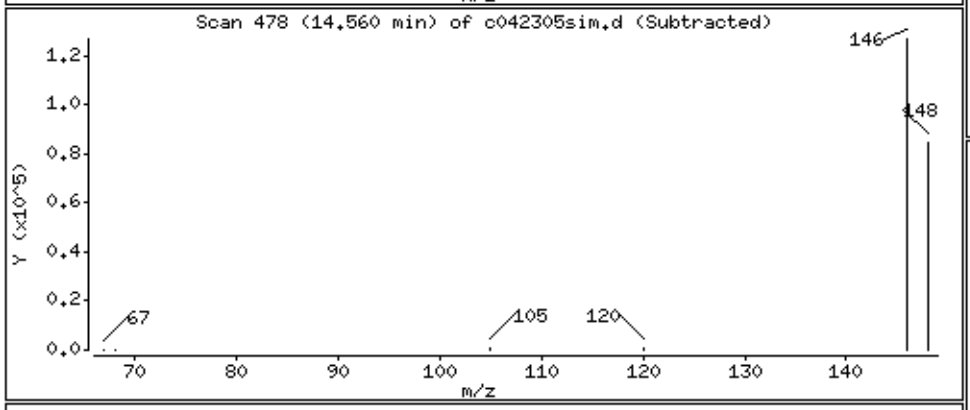
Column diameter: 0.25

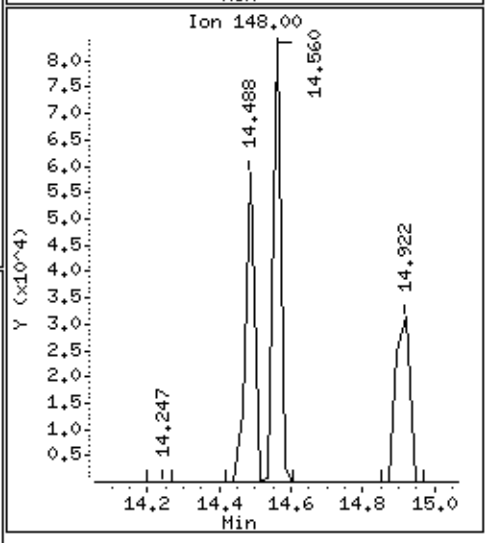
44 1,4-Dichlorobenzene

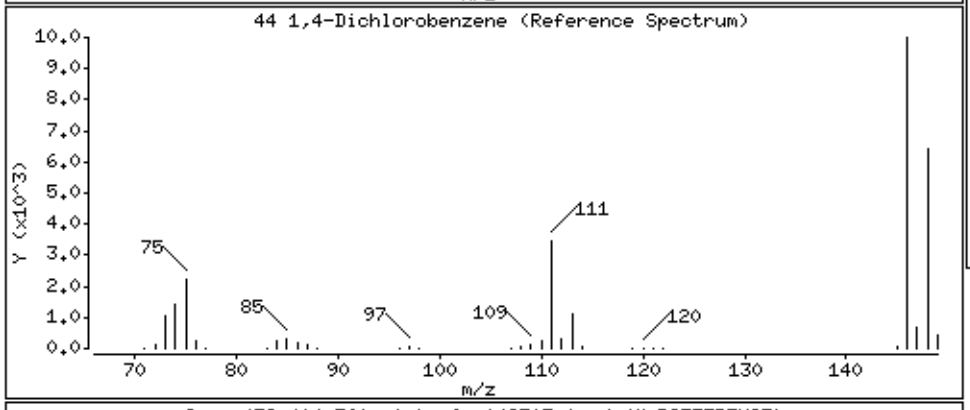
Concentration: 6.67738 ug

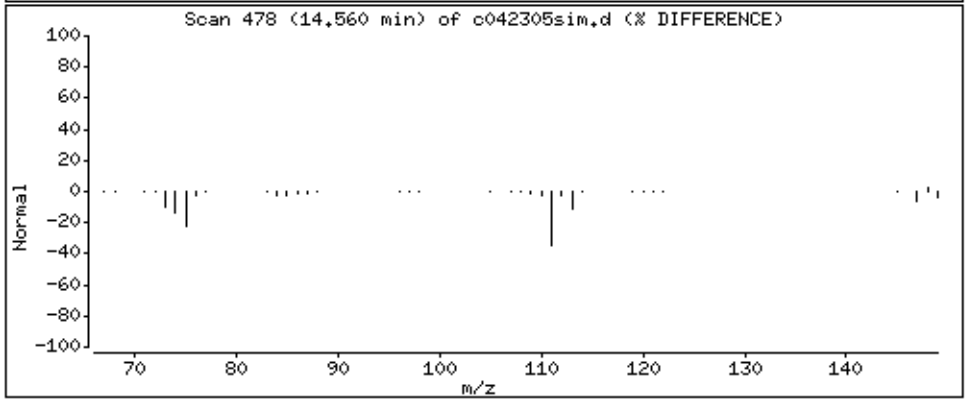












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

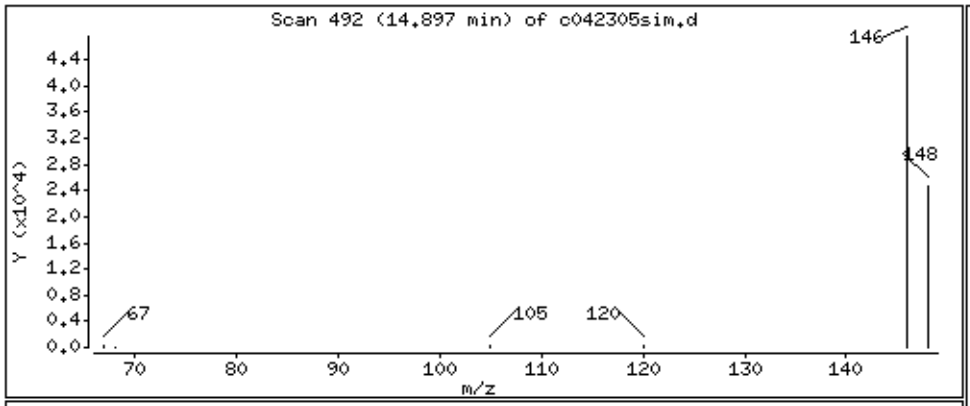
Operator: gm

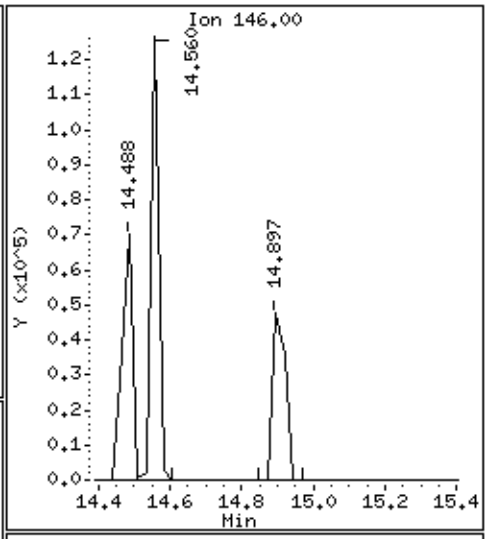
Column phase: DB-5.625

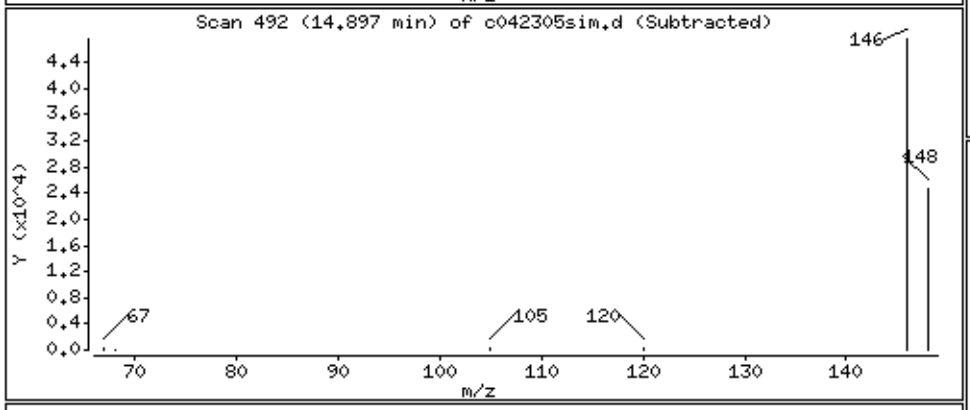
Column diameter: 0.25

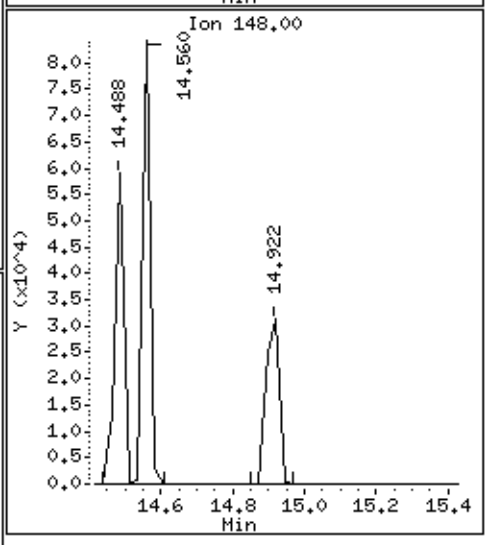
45 1,2-Dichlorobenzene

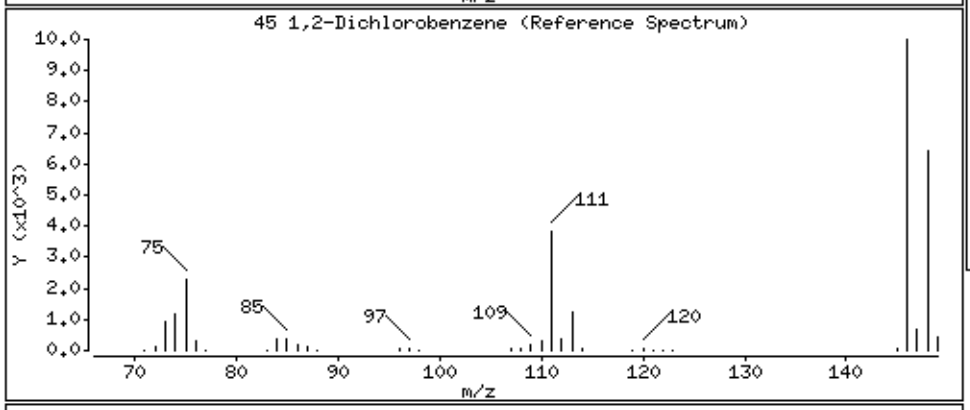
Concentration: 5.97327 ug

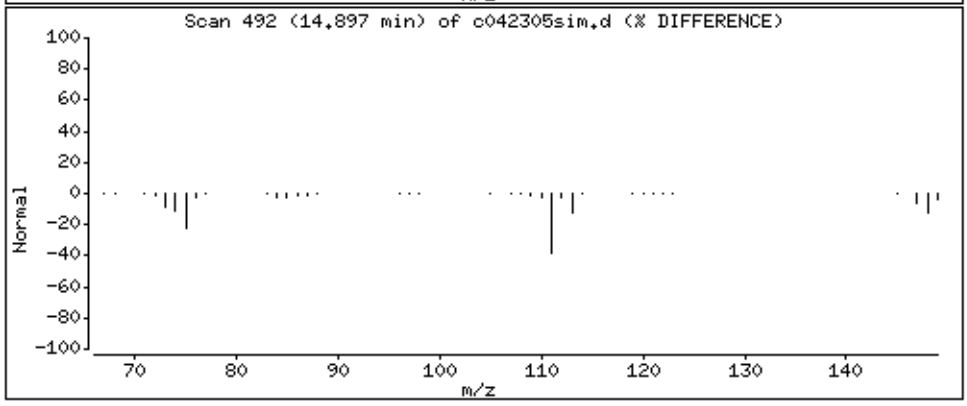












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

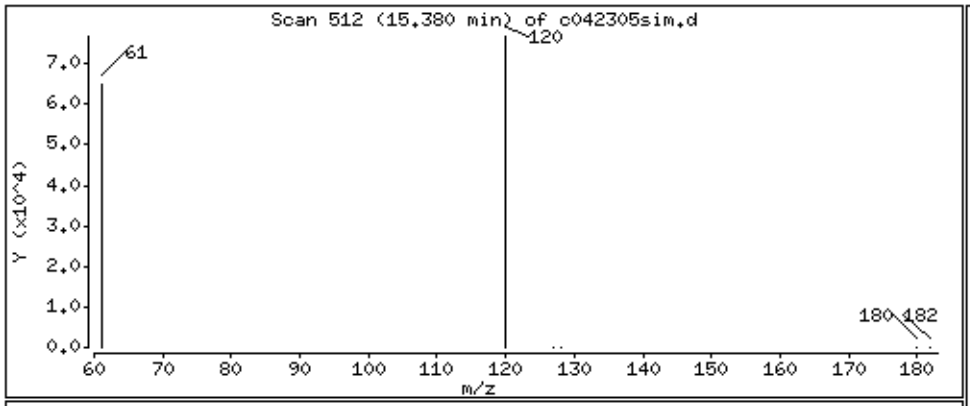
Operator: gm

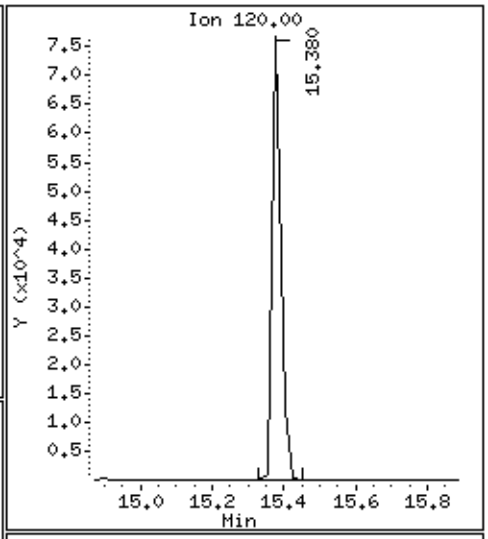
Column phase: DB-5.625

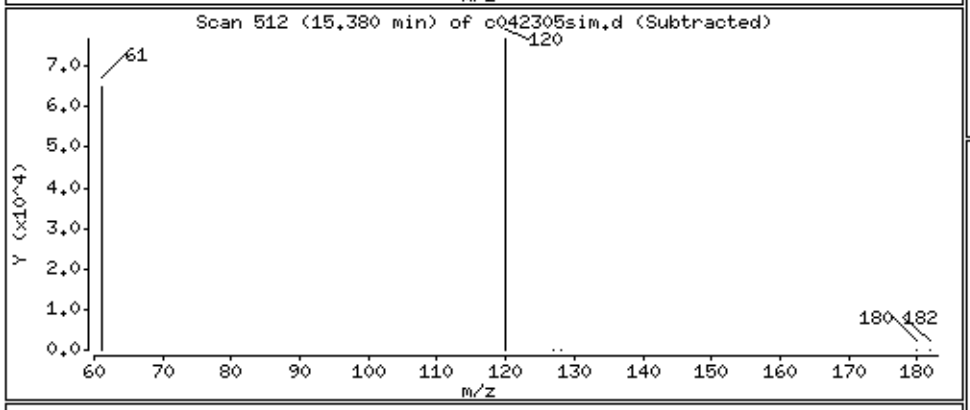
Column diameter: 0.25

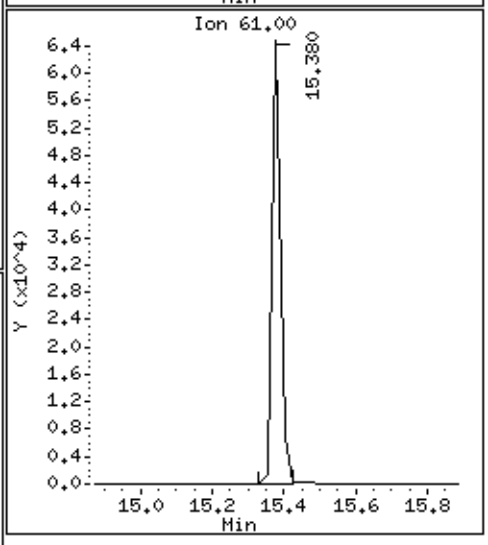
46 1,4-Dithiane

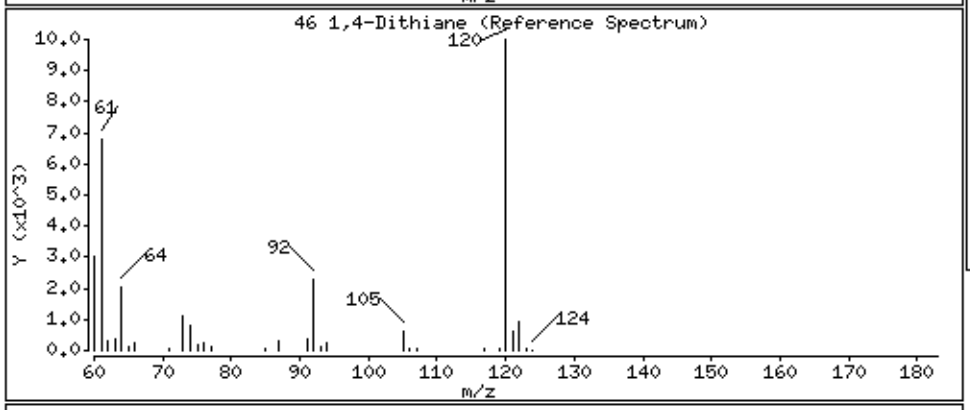
Concentration: 8.10989 ug

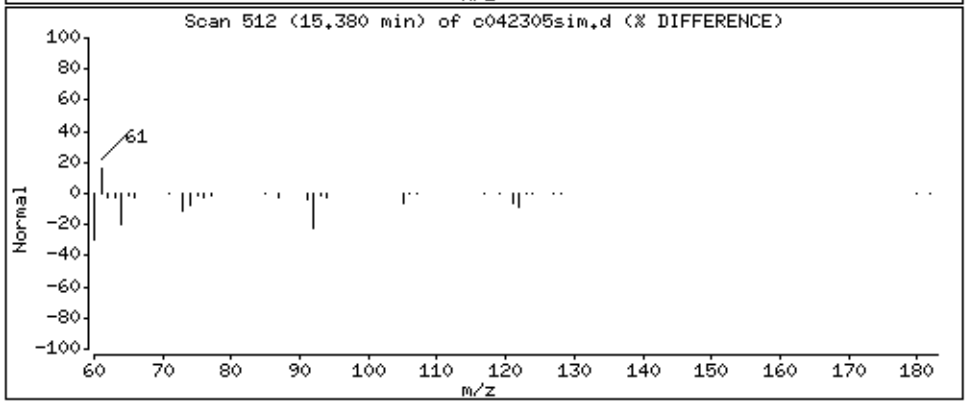












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

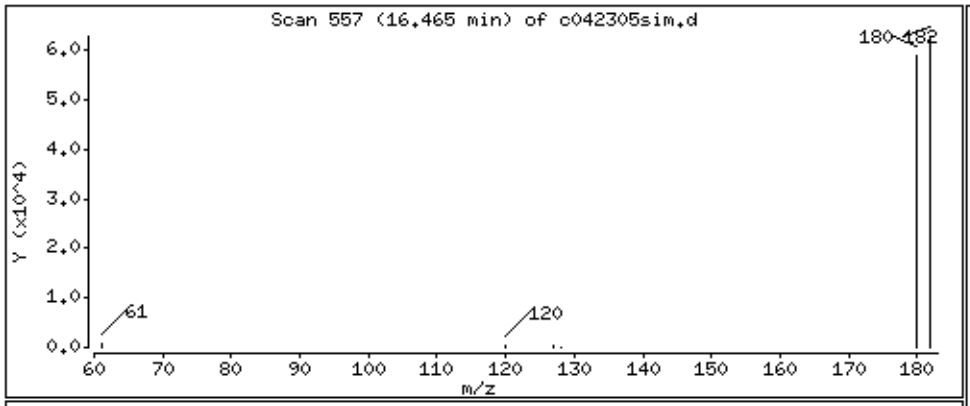
Operator: gm

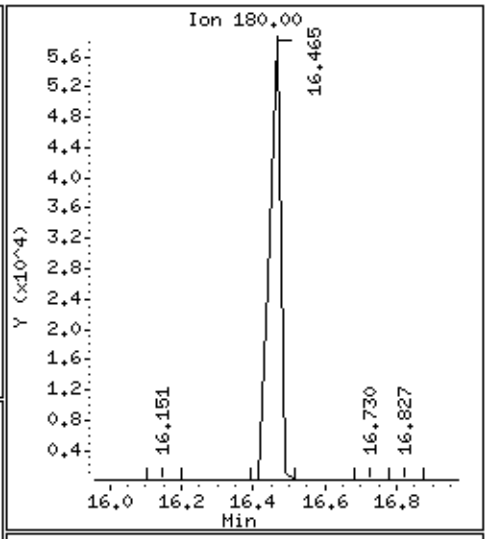
Column phase: DB-5.625

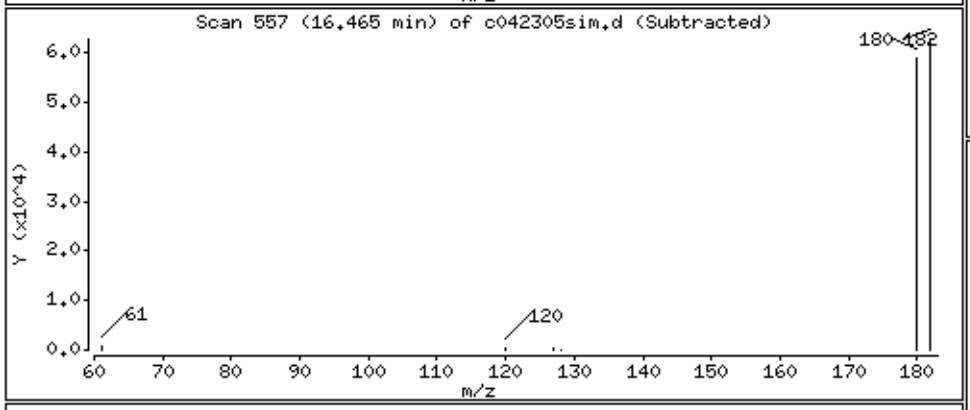
Column diameter: 0.25

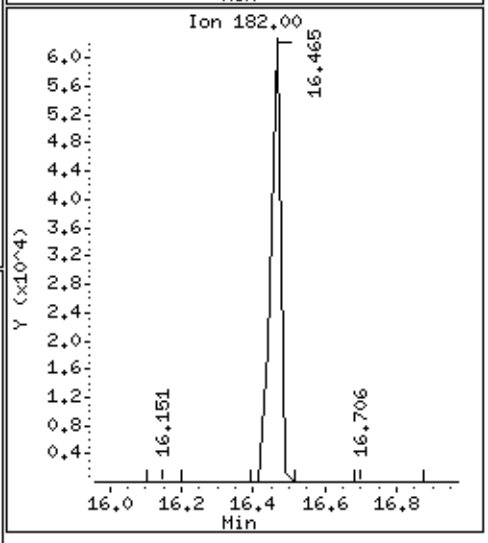
47 1,2,4-Trichlorobenzene

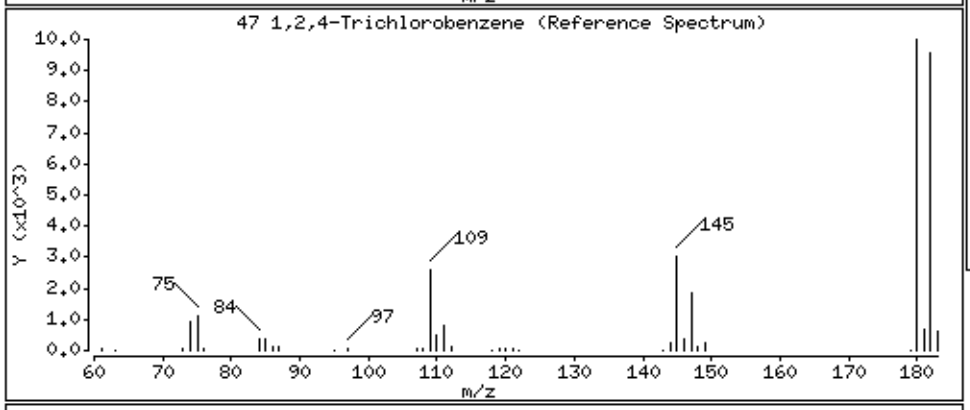
Concentration: 5.42602 ug

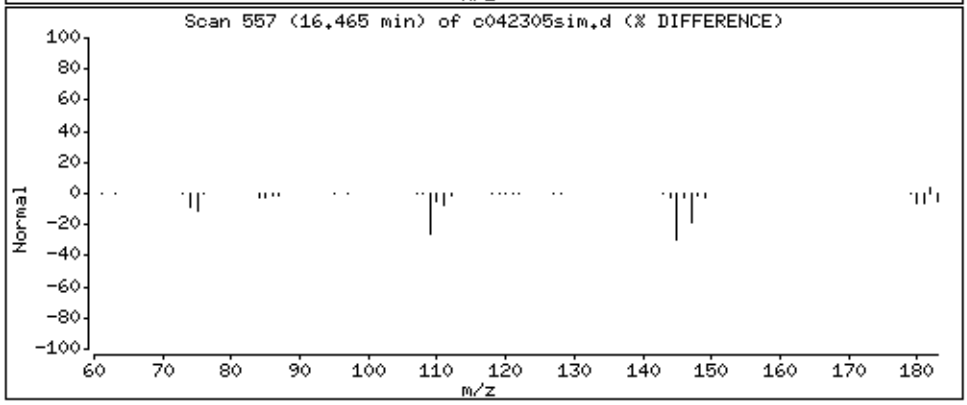












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

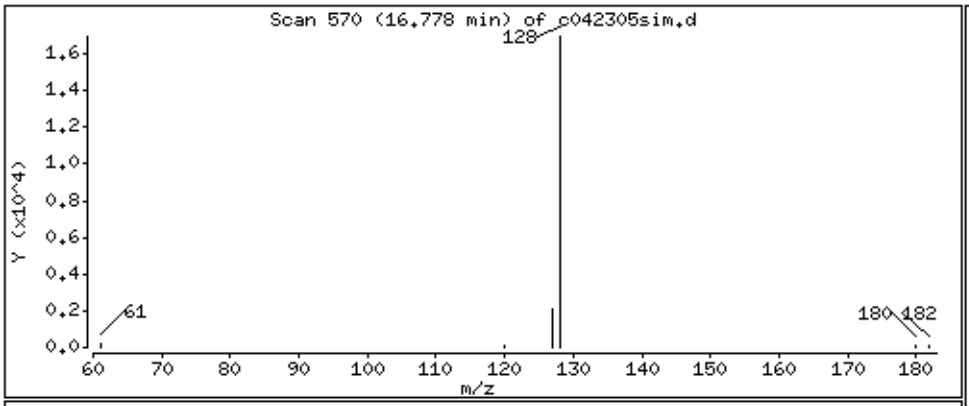
Operator: gm

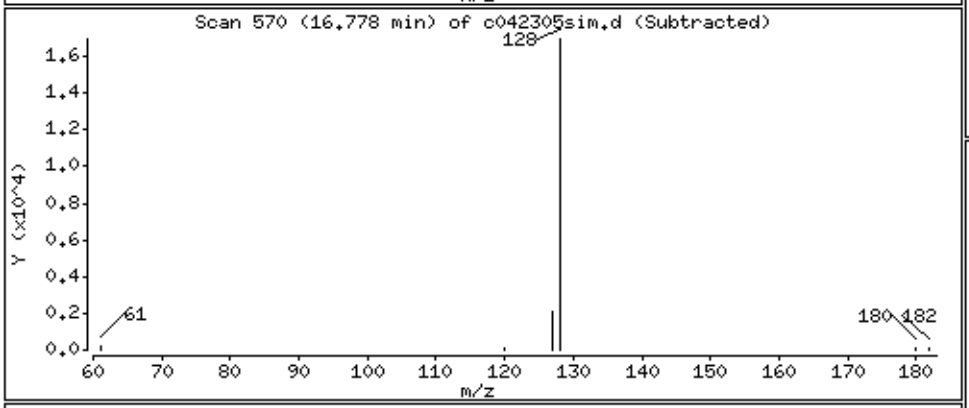
Column phase: DB-5.625

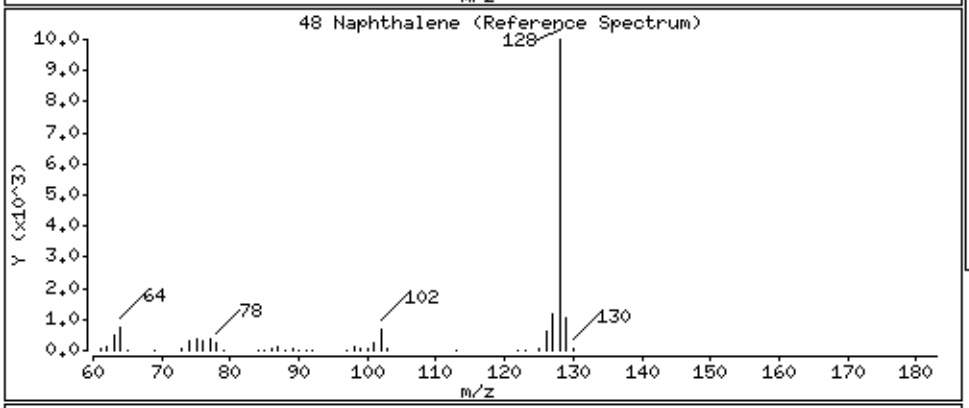
Column diameter: 0.25

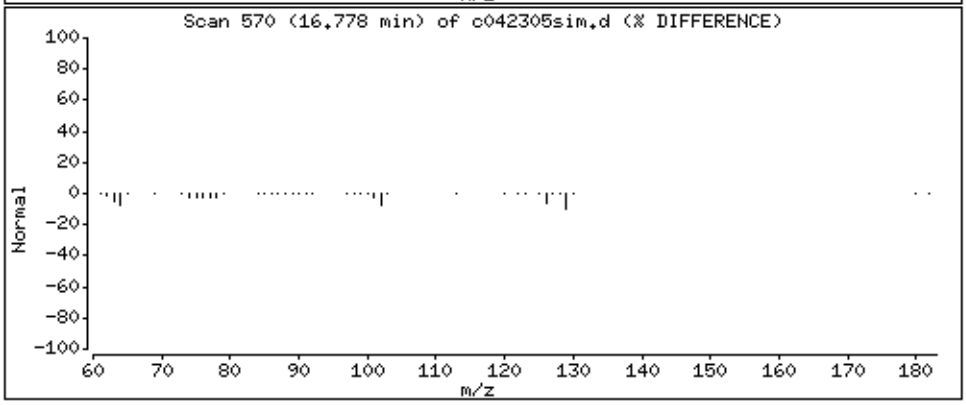
48 Naphthalene

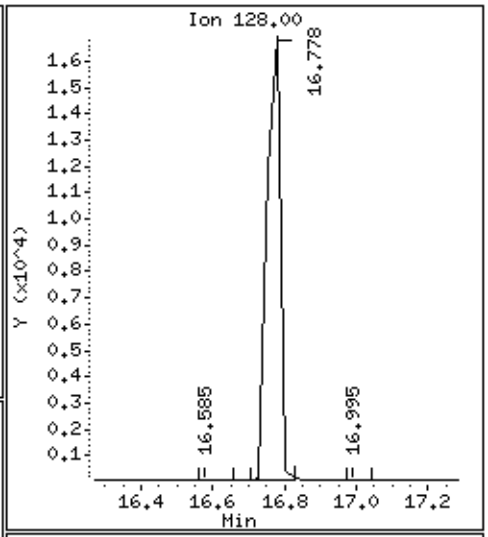
Concentration: 0.834298 ug

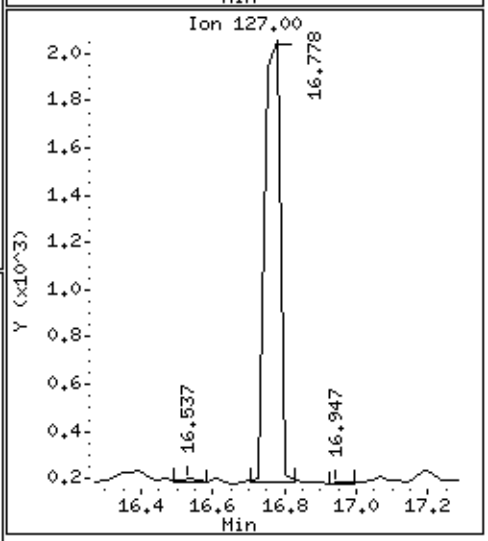












Data File: /chem/msdc.i/23Apr2015.b/c042305sim.d

Date : 23-APR-2015 10:21

Client ID: LCSD

Instrument: msdc.i

Sample Info: ;1504275/309/364/379;LCSD

Volume Injected (uL): 1.0

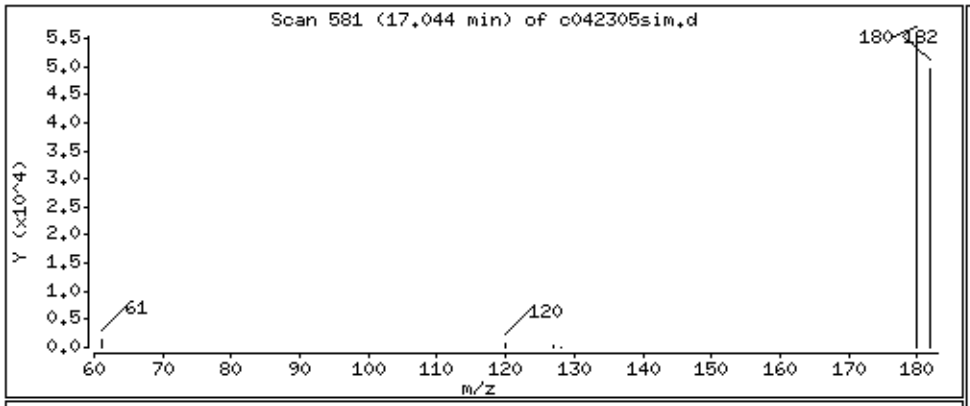
Operator: gm

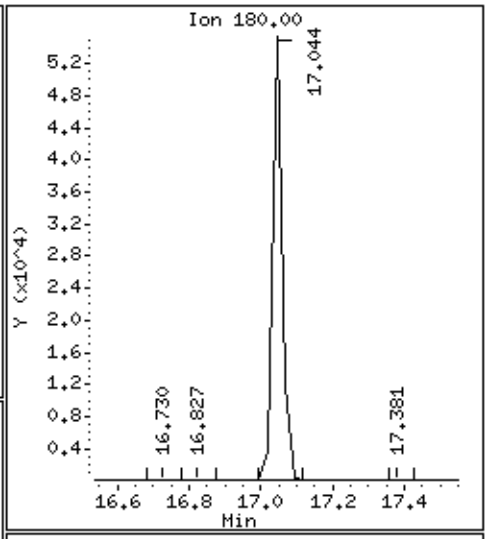
Column phase: DB-5.625

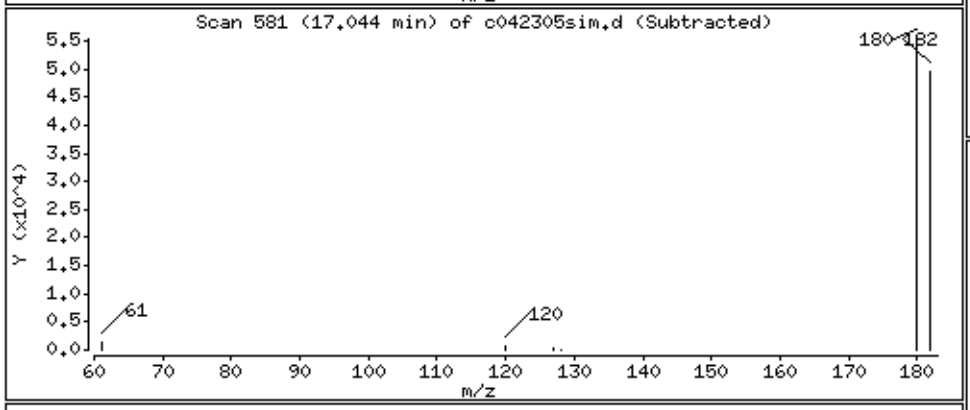
Column diameter: 0.25

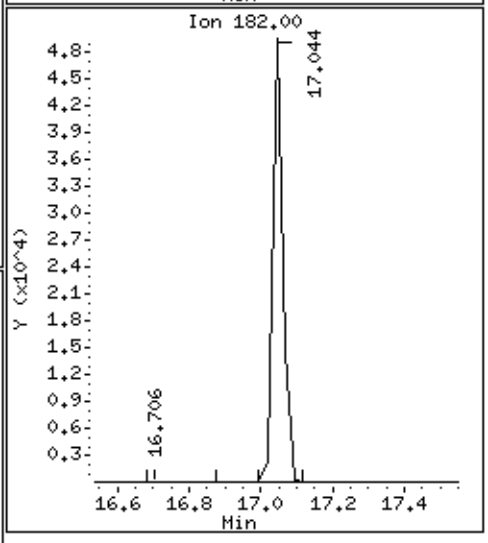
49 1,2,3-Trichlorobenzene

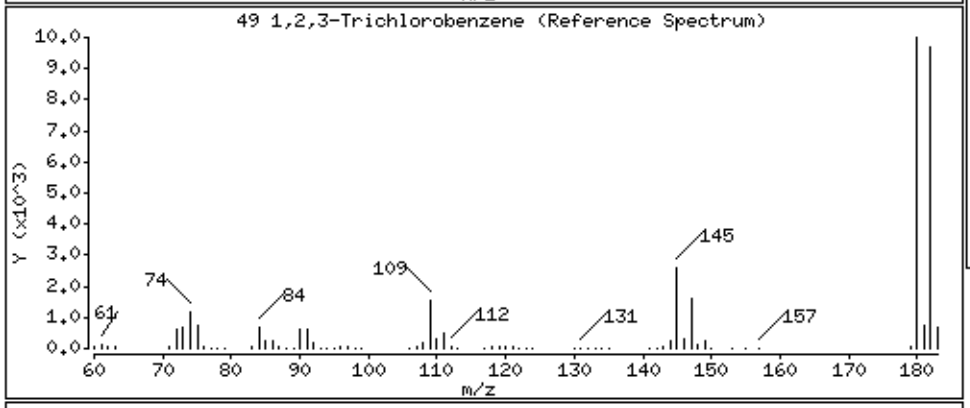
Concentration: 4.52485 ug

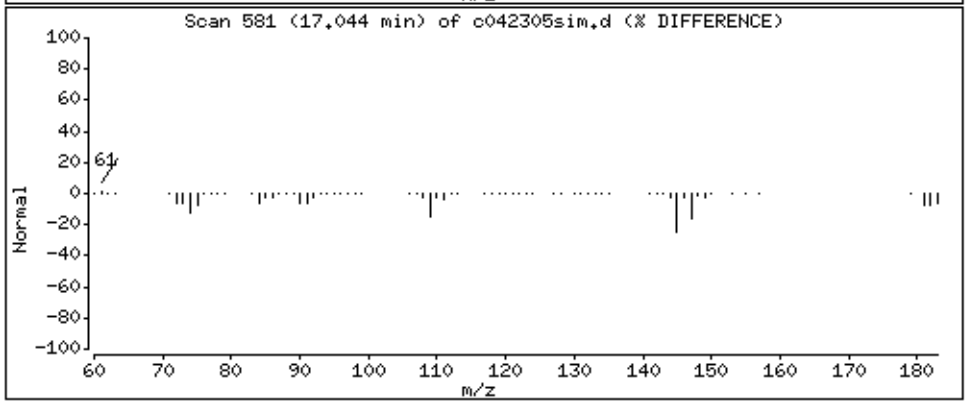












Eurofins Air Toxics, Inc.

Application Sample Preparation Logbook **Logbook #: 2679**

Work Order # 1504275/309/364/379 **Solvent:** CS_2 **Lot #:** 144325

GC/GCMS Application # 48 **Spike I.D.:** 2595-220-500 **Exp.:** 8/19/15

Date Prepared 4/23/15 **N2/Zero Air** NA

Matrix type Rad 130 **IS + Surr ID** 2595-215-125 **Exp.:** 8/20/15

Fraction	Clients I.D. #	Sample Weight or Cartridge type & size	Final Volume (mL)	Spike Amount (µL or mL)	IS +Surr (µL)	Comments
LCS	NA	Rad 130 LOT# 150114	2.0mL	20µL	80µL	
Lab Blank	↓	↓	↓	NA	↓	
1504275-01A	Inside #1	LOT# Unknown	↓	↓	↓	888 NS
↓ -02A	Outside #1	↓	↓	↓	↓	891 NS
1504309-01A	5227-1A02-0415	↓	↓	↓	↓	754 NP
-02A	5230-1A01-	↓	↓	↓	↓	755 NP
-03A	-0A01-	↓	↓	↓	↓	756 NP
-04A	-FB01-	↓	↓	↓	↓	757 NP
-05A	5211-1A01-	↓	↓	↓	↓	758 NP
-06A	-CS01-	↓	↓	↓	↓	759 NP
-07A	5234-1A01-	↓	↓	↓	↓	760 NP
-08A	-CS01-	↓	↓	↓	↓	761 NP
↓ -09A	5215-CS01- ↓	↓	↓	↓	↓	763 NP
1504364-01A	SSRB25-1A-146	↓	↓	↓	↓	544 KA
↓ -02A	↓ -147	↓	↓	↓	↓	545 KA

Procedure: gw 4/23/15

Procedure for Radiello Extraction

1. Add 80uL of a internal standard and surrogate STD mix (2595-215-125) to all samples, lab Blank and desorption levels
2. Add spike standard (2595-220-500, 20uL) to LCS
3. Add 2mL Carbon Disulfide to all samples, Lab Blank and all desorption levels and shake for 30 minutes.
4. Transfer the extracts to 2mL vials and analyze them.

Reviewed by: gw Date: 4/23/15

Eurofins Air Toxics, Inc.

Application Sample Preparation Logbook **Logbook #: 2679**

Work Order # _____ **Solvent:** _____ **Lot #:** _____

GC/GCMS Application # _____ **Spike I.D.:** _____ **Exp.:** _____

Date Prepared _____ **N2/Zero Air** _____

Matrix type _____ **IS + Surr ID** _____ **Exp.:** _____

Cont. from Pg 162 gmv 4/23/15

Fraction	Clients I.D.#	Sample Weight or Cartridge type & size	Final Volume (mL)	Spike Amount (µL or mL)	IS +Surr (µL)	Comments
1504379-01A	A-041415-SL1-30	Radian Lot # Unknown	2.0 mL	NA	80 µL	001NB
-02A	-SL2-31	↓	↓	↓	↓	002NB
-03A	-SL3-32	↓	↓	↓	↓	003 NB
-04A	-SL4-33	↓	↓	↓	↓	004NB

Procedure:

gmv 4/23/15

Reviewed by: gmv Date: 4/23/15

Eurofins Air Toxics, Inc. **MSD-C** **Logbook #: 2711**

BFB Injection Date: 4/23/15
BFB Injection Time: 0854
BFB File ID: C042302

IS/S Std.#: 2595215-125	Exp. Date: 8/20/15
2-Fluorotoluene SIM: 324554	

Verified CCV IS vs ICAL mid-point (-50% to +100% D) gmv (initials)

Calculation Check:

µg/L of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} \times DF = \frac{(144495)}{(318537)} \times \frac{(5.0)}{(0.71090)} \times 2.00 =$ 6.4 ug

File ID:	C042307SIM
Compound:	Toluene
Initials:	gmv

Reported Result 6.4 ug

	Use	File #	Sample / Client Name	Vial #	DF	Date Analyzed	Time Analyzed	Initial	Comments
1	✓	C042302	2299-807 BFB	1	1.00	4/23/15	0854	gmv	
2	✓	03	2595-224-5.0 CCV	2			0909		
3	✓	04	1504275/309/364/379 -LCS	3			0957		
4	✓	05	-LCSD	3			1021		
5	✓	06	-BLK	4			1057		
6	✓	07	1504275-01A	5			1147		
7	✓	08	-02A	6			1211		
8	✓	09	1504309-01A	7			1235		
9	✓	10	-02A	8			1300		
10	✓	11	-03A	9			1324		
11	✓	12	-04A	10			1349		
12	✓	13	-05A	11			1413		
13	✓	14	-06A	12			1438		
14	✓	15	-07A	13			1502		
15	✓	16	-08A	14	✓	✓	1527	✓	

Reviewed: gmv Date: 4/24/15

16	✓	C042317	1504309-09A	15	1.00	4/23/15	1552	gm	
17	✓	18	1504364-01A	16	↓	↓	1616	↓	
18	✓	19	↓ -02A	17			1640		
19	✓	20	1504379-01A	18			1705		
20	✓	21	-02A	19			1729		
21	✓	22	-03A	20			1754		
22	✓	↓ 23	↓ -04A	21	↓	↓	1818	↓	
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									

Comments:

gm 4/24/15

Reviewed: gm Date: 4/24/15

Eurofins Air Toxics Inc.

Data file : /var/chem/msdc.i/15Apr2015.b/c041501.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 15-APR-2015 08:11
Operator : gm Inst ID: msdc.i
Smp Info : ;2299-806;BFB
Misc Info :
Comment :
Method : /var/chem/msdc.i/15Apr2015.b/bfbr.m
Meth Date : 15-Apr-2015 07:56 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
6.354	6.490	-0.136	95	427093			100.00- 100.00	100.00
6.354	6.490	-0.136	50	82008			15.00- 40.00	19.20
6.354	6.490	-0.136	75	191360			30.00- 60.00	44.81
6.354	6.490	-0.136	96	27459			5.00- 9.00	6.43
6.354	6.490	-0.136	173	3053			0.00- 2.00	0.73
6.354	6.490	-0.136	174	420522			50.00- 100.00	98.46
6.354	6.490	-0.136	175	29896			5.00- 9.00	7.11
6.354	6.490	-0.136	176	409450			95.00- 101.00	97.37
6.354	6.490	-0.136	177	26262			5.00- 9.00	6.41

Data File: /var/chem/msdc.i/15Apr2015.b/c041501.d

Date : 15-APR-2015 08:11

Client ID: BFB

Instrument: msdc.i

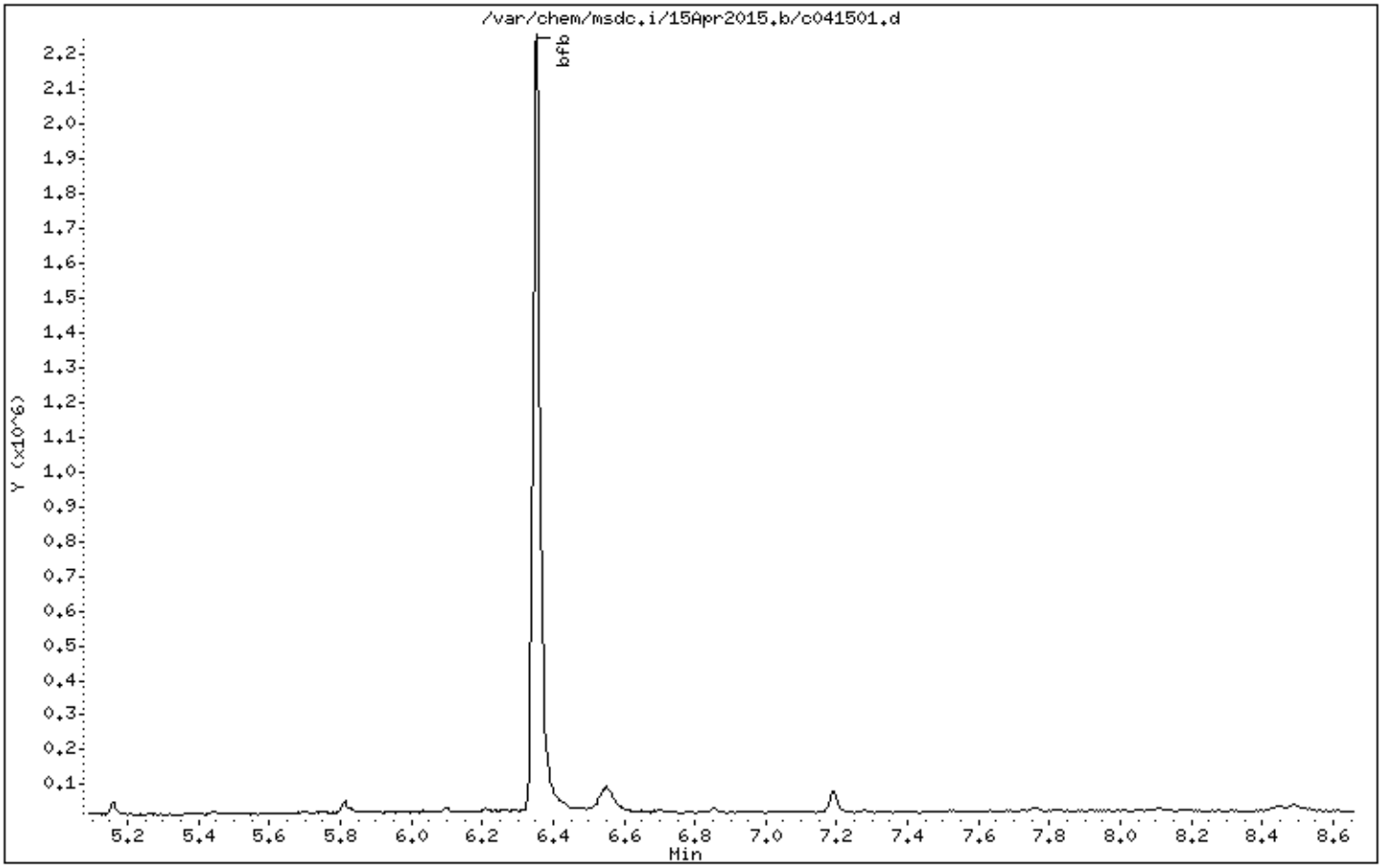
Sample Info: ;2299-806;BFB

Volume Injected (uL): 1.0

Operator: gm

Column phase:

Column diameter: 2.00



Data File: /var/chem/msdc.i/15Apr2015.b/c041501.d

Date : 15-APR-2015 08:11

Client ID: BFB

Instrument: msdc.i

Sample Info: ;2299-806;BFB

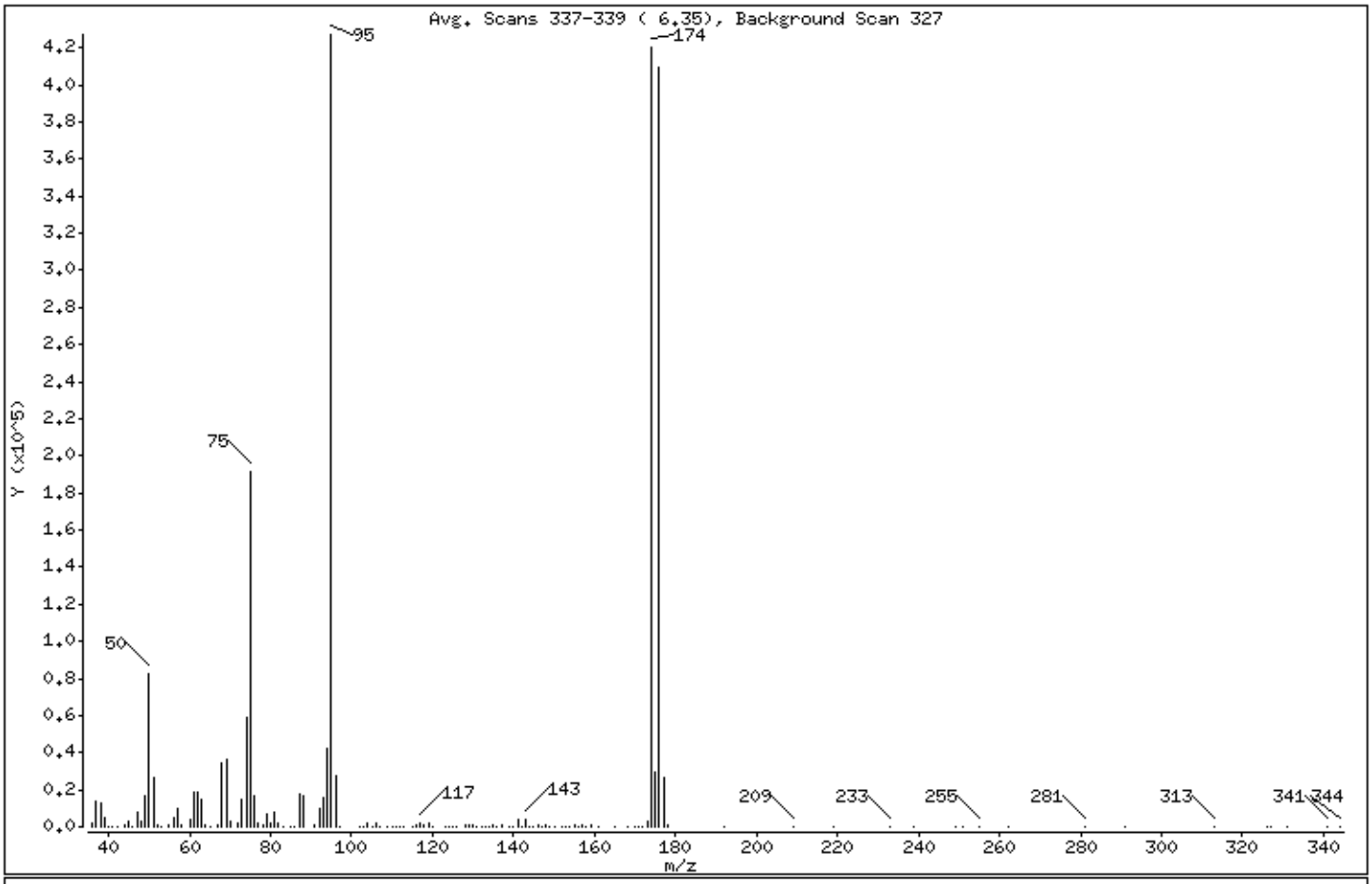
Volume Injected (uL): 1.0

Operator: gm

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.20
75	30.00 - 60.00% of mass 95	44.81
96	5.00 - 9.00% of mass 95	6.43
173	Less than 2.00% of mass 174	0.71 (0.73)
174	50.00 - 100.00% of mass 95	98.46
175	5.00 - 9.00% of mass 174	7.00 (7.11)
176	95.00 - 101.00% of mass 174	95.87 (97.37)
177	5.00 - 9.00% of mass 176	6.15 (6.41)

Date : 15-APR-2015 08:11

Client ID: BFB Instrument: msdc.i

Sample Info: ;2299-806;BFB

Volume Injected (uL): 1.0 Operator: gm

Column phase: Column diameter: 2.00

Data File: c041501.d
Spectrum: Avg. Scans 337-339 (6.35), Background Scan 327
Location of Maximum: 95.00
Number of points: 134

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2348	75.00	191360	118.00	1464	157.00	675
37.00	14224	76.00	16384	119.00	1560	158.00	75
38.00	12276	77.00	2207	120.00	160	159.00	549
39.00	4732	78.00	1438	123.00	154	161.00	477
40.00	160	79.00	7295	124.00	277	165.00	106
41.00	136	80.00	2367	125.00	134	168.00	57
42.00	50	81.00	7610	126.00	66	170.00	125
44.00	1026	82.00	1514	128.00	1306	171.00	139
45.00	2948	83.00	270	129.00	602	172.00	417
46.00	147	85.00	87	130.00	1240	173.00	3053
47.00	7949	86.00	406	131.00	471	174.00	420480
48.00	2466	87.00	17824	132.00	107	175.00	29896
49.00	16279	88.00	17072	133.00	62	176.00	409408
50.00	82008	91.00	1037	134.00	231	177.00	26256
51.00	26608	92.00	10173	135.00	636	178.00	746
52.00	1279	93.00	15646	136.00	100	192.00	33
53.00	58	94.00	42536	137.00	640	209.00	222
55.00	903	95.00	427072	139.00	142	219.00	74
56.00	5336	96.00	27456	140.00	197	233.00	144
57.00	9928	97.00	352	141.00	3631	239.00	32
58.00	491	102.00	77	142.00	402	249.00	79
60.00	4148	103.00	317	143.00	3826	251.00	54
61.00	18592	104.00	1593	144.00	156	255.00	106
62.00	18632	105.00	324	145.00	396	262.00	51
63.00	14927	106.00	1505	146.00	640	281.00	60
64.00	1209	107.00	488	147.00	393	291.00	54
65.00	52	109.00	114	148.00	914	313.00	62
67.00	1021	110.00	175	149.00	290	326.00	69
68.00	34472	111.00	409	150.00	444	327.00	5
69.00	36464	112.00	199	152.00	261	331.00	63
70.00	2460	113.00	257	153.00	460	341.00	160
72.00	2064	115.00	461	154.00	101	344.00	62
73.00	15053	116.00	1284	155.00	1175		
74.00	58624	117.00	2182	156.00	244		

Eurofins Air Toxics Inc.

Data file : /var/chem/msdc.i/23Apr2015.b/c042302.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 23-APR-2015 08:54
Operator : gm Inst ID: msdc.i
Smp Info : ;2299-806 BFB;
Misc Info :
Comment :
Method : /var/chem/msdc.i/23Apr2015.b/bfbr.m
Meth Date : 23-Apr-2015 08:50 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
6.354	6.490	-0.136	95	462307			100.00- 100.00	100.00
6.354	6.490	-0.136	50	89589			15.00- 40.00	19.38
6.354	6.490	-0.136	75	206905			30.00- 60.00	44.75
6.354	6.490	-0.136	96	29586			5.00- 9.00	6.40
6.354	6.490	-0.136	173	3379			0.00- 2.00	0.81
6.354	6.490	-0.136	174	417749			50.00- 100.00	90.36
6.354	6.490	-0.136	175	29352			5.00- 9.00	7.03
6.354	6.490	-0.136	176	400064			95.00- 101.00	95.77
6.354	6.490	-0.136	177	25319			5.00- 9.00	6.33

Data File: /var/chem/msdc.i/23Apr2015.b/c042302.d

Date : 23-APR-2015 08:54

Client ID: BFB

Instrument: msdc.i

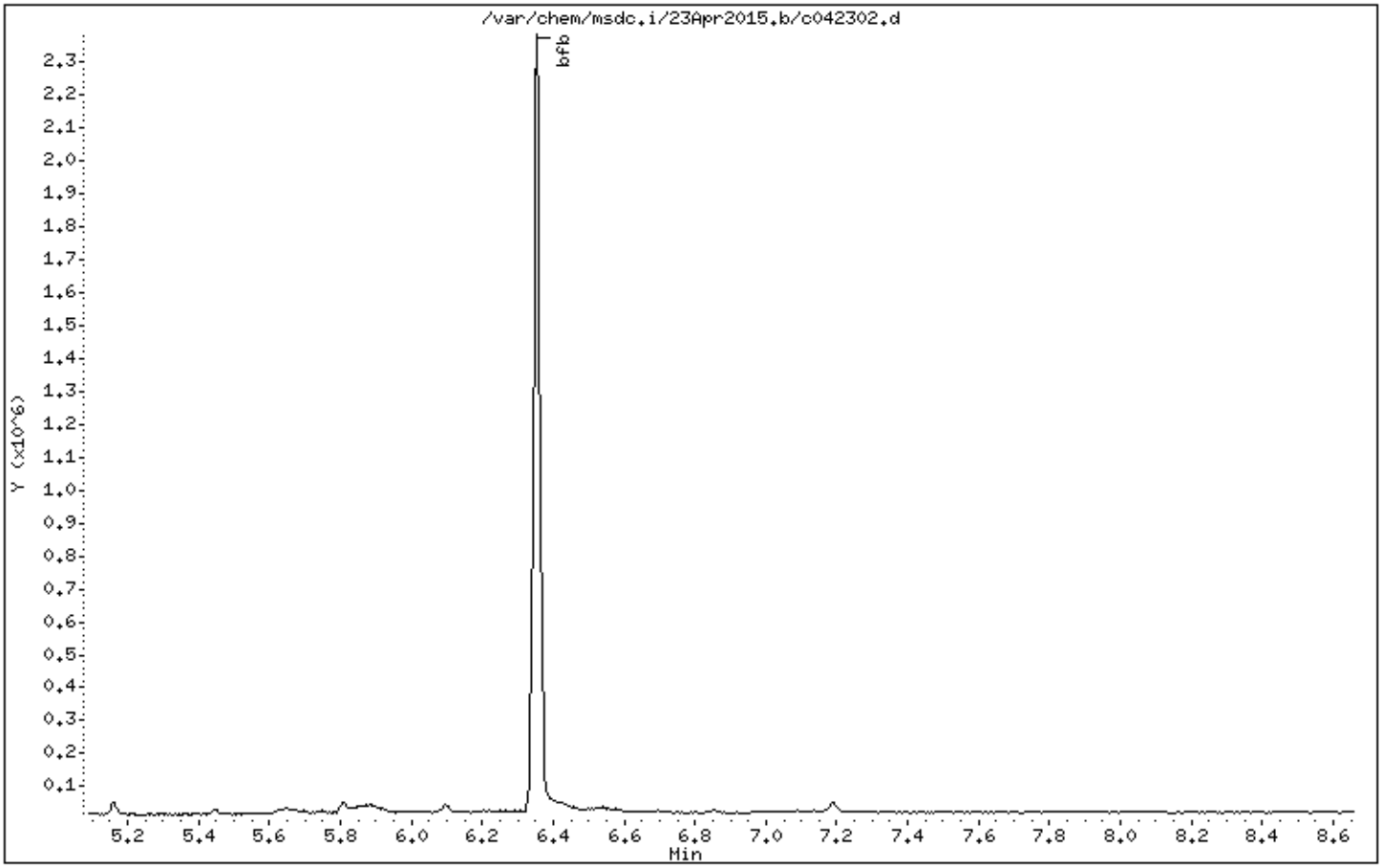
Sample Info: ;2299-806 BFB;

Volume Injected (uL): 1.0

Operator: gm

Column phase:

Column diameter: 2.00



Data File: /var/chem/msdc.i/23Apr2015.b/c042302.d

Date : 23-APR-2015 08:54

Client ID: BFB

Instrument: msdc.i

Sample Info: ;2299-806 BFB;

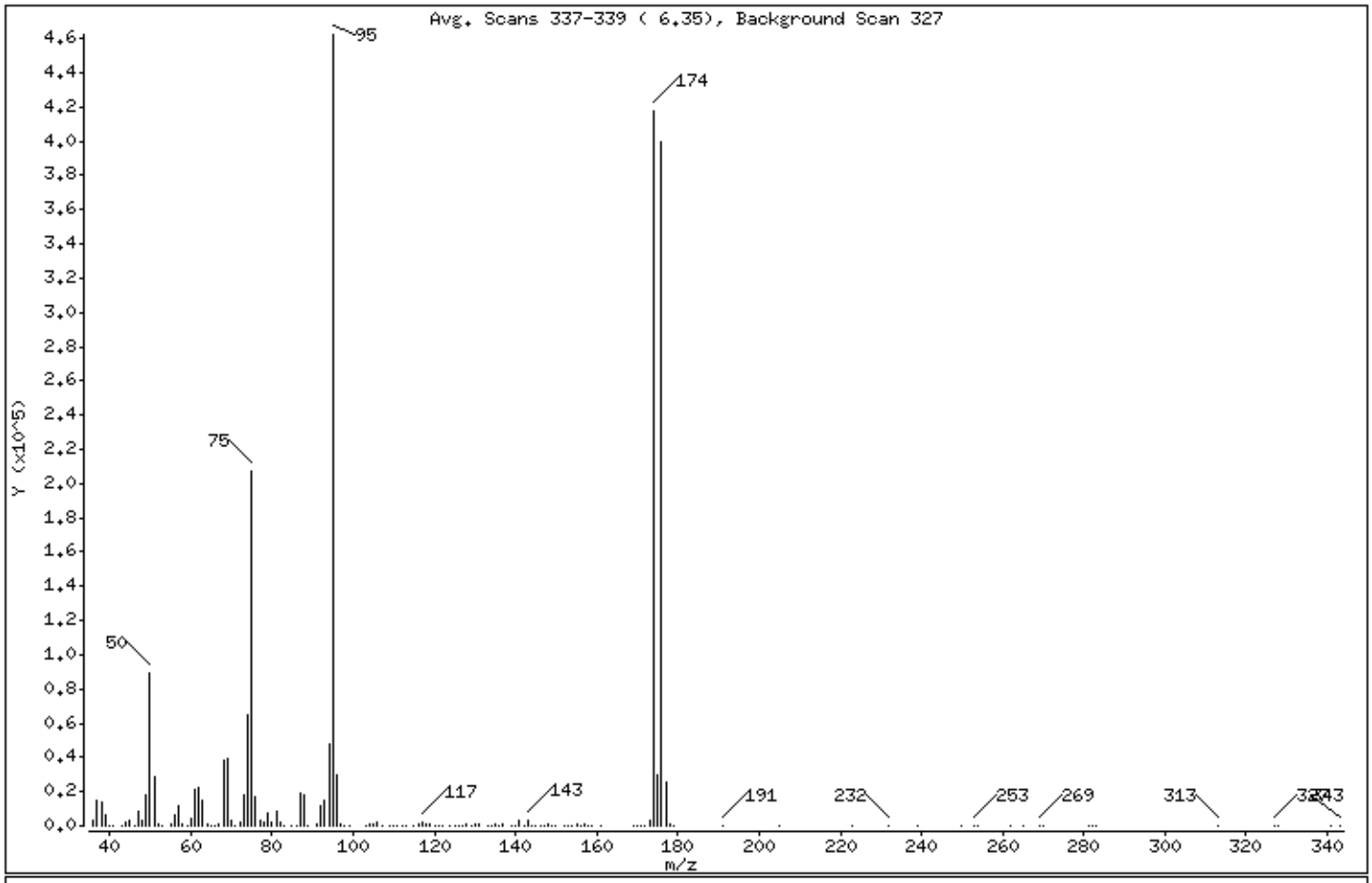
Volume Injected (uL): 1.0

Operator: gm

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.38
75	30.00 - 60.00% of mass 95	44.75
96	5.00 - 9.00% of mass 95	6.40
173	Less than 2.00% of mass 174	0.73 (0.81)
174	50.00 - 100.00% of mass 95	90.36
175	5.00 - 9.00% of mass 174	6.35 (7.03)
176	95.00 - 101.00% of mass 174	86.54 (95.77)
177	5.00 - 9.00% of mass 176	5.48 (6.33)

Date : 23-APR-2015 08:54

Client ID: BFB Instrument: msdc.i

Sample Info: ;2299-806 BFB;

Volume Injected (uL): 1.0 Operator: gm

Column phase: Column diameter: 2.00

Data File: c042302.d
Spectrum: Avg. Scans 337-339 (6.35), Background Scan 327
Location of Maximum: 95.00
Number of points: 143

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2998	74.00	64592	117.00	2131	157.00	687
37.00	14670	75.00	206848	118.00	1080	158.00	59
38.00	14152	76.00	16920	119.00	1334	159.00	486
39.00	5923	77.00	2722	120.00	186	161.00	462
40.00	394	78.00	1596	121.00	50	169.00	62
41.00	173	79.00	7854	122.00	163	170.00	83
43.00	149	80.00	2280	124.00	272	171.00	78
44.00	1874	81.00	8288	125.00	52	172.00	473
45.00	3653	82.00	1893	126.00	150	173.00	3379
46.00	134	83.00	126	127.00	299	174.00	417728
47.00	8127	85.00	170	128.00	1308	175.00	29352
48.00	2750	86.00	401	129.00	478	176.00	400064
49.00	18216	87.00	18840	130.00	1147	177.00	25312
50.00	89584	88.00	17968	131.00	541	178.00	763
51.00	28888	89.00	350	133.00	101	179.00	162
52.00	1424	91.00	1468	134.00	376	191.00	121
53.00	130	92.00	11188	135.00	909	205.00	70
55.00	1147	93.00	15158	136.00	57	223.00	113
56.00	6125	94.00	47480	137.00	637	232.00	303
57.00	12158	95.00	462272	139.00	287	239.00	123
58.00	722	96.00	29584	140.00	330	250.00	51
59.00	21	97.00	971	141.00	3518	253.00	232
60.00	4105	98.00	84	142.00	397	254.00	16
61.00	21416	99.00	76	143.00	3581	262.00	178
62.00	22312	103.00	236	144.00	211	265.00	50
63.00	14768	104.00	1402	145.00	243	269.00	229
64.00	1531	105.00	708	146.00	503	270.00	121
65.00	356	106.00	1795	147.00	139	281.00	22
66.00	265	107.00	289	148.00	929	282.00	211
67.00	1135	109.00	73	149.00	432	283.00	55
68.00	38616	110.00	140	150.00	444	313.00	50
69.00	38792	111.00	507	152.00	253	327.00	240
70.00	2966	112.00	193	153.00	426	328.00	61
71.00	264	113.00	67	154.00	248	341.00	66
72.00	1783	115.00	486	155.00	860	343.00	104

Date : 23-APR-2015 08:54

Client ID: BFB Instrument: msdc.i

Sample Info: ;2299-806 BFB;

Volume Injected (uL): 1.0 Operator: gm

Column phase: Column diameter: 2.00

Data File: c042302.d
Spectrum: Avg. Scans 337-339 (6.35), Background Scan 327
Location of Maximum: 95.00
Number of points: 143

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	17672	116.00	1296	156.00	220		

Shipping/ Receiving Documents

eurofins | Air Toxics

Eurofins Air Toxics, Inc. Sample Receipt Confirmation Cover Page

Thank you for choosing Eurofins Air Toxics, Inc. (EATL). We have received your samples and have listed any Sample Receipt Descrepancies below.

In order to expedite analysis and reporting, please review the attached information for accuracy.

For corrections call: **Air Toxics, Ltd. at 916-985-1000**

EATL will proceed with the analysis as specified on the Chain of Custody (COC) and Sample Receipt Summary page.

Please note : The Sample Receipt Confirmation, including the total workorder charge, is subject to change upon secondary review. Our aim is to provide a confirmation to you in a timely manner. Sample Receipt Discrepancies, if any, may not include discrepancies regarding sample receipt pressure(s). Additionally, the COC will be provided with the final report.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 6:30 A.M to 5:30 P.M. PST

PASSIVE SAMPLE COLLECTION

@Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922.

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630
(916) 985-1000 FAX (916) 985-1020

Project Manager: Don Gruber
Collected by: (Print and Sign) Ed Gillera
Company: Gilbarco Email: DGruber@gilbarco.com
Address: 1891 N. Gaffey #211 City: San Pedro State: CA Zip: 90731
Phone: (310) 832-2600 Fax: (310) 832-2606

Project Info:
P.O. #:
Project #: 07163-0064
Project Name: SAIA

Turn Around Time: ☒ Normal ☐ Rush (specify)

Reporting Units: ☐ ppmv ☐ ppbv ☒ µg/m3 ☐ mg/m3

Lab I.D.	Field Sample I.D. (Location)	Sampler #	Date of Deployment (mm/dd/yy)	Time of Deployment (hr:min)	Date of Retrieval (mm/dd/yy)	Time of Retrieval (hr:min)	Analysis Requested	Indoor Air	Outdoor Air	Workplace Monitoring	Other ( )
01A	5227-IA02-0415	754NP	04/09/15	1330	04/16/15	1302	~~TO-15~~ VOCs	☒	☐	☐	☐
02A	5230-IA01-0415	755NP	04/09/15	1420	04/16/15	1400	~~TO-15~~ VOCs	☒	☐	☐	☐
03A	5230-OA01-0415	756NP	04/09/15	1430	04/16/15	1405	~~TO-15~~ VOCs	☒	☐	☐	☐
04A	5230-FB01-0415	757NP	04/09/15	1435	04/16/15	1410	~~TO-15~~ VOCs	☒	☐	☐	☐
05A	5211-IA01-0415	758NP	04/10/15	0915	04/17/15	0911	VOCs	☒	☐	☐	☐
06A	5211-CS01-0415	759NP	04/10/15	0925	04/17/15	0917	VOCs	☒	☐	☐	☐
07A	5234-IA01-0415	760NP	04/10/15	1025	04/17/15	1010	VOCs	☒	☐	☐	☐
08A	5234-CS01-0415	761NP	04/10/15	1030	04/17/15	1012	VOCs	☒	☐	☐	☐
09A	5215-CS01-0415	763NP	04/10/15	1140	04/17/15	1255	VOCs	☒	☐	☐	☐
10A								☐	☐	☐	☐

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	4-17-15 / 1400	FedEx	4-17-15 / 1400
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
		[signature] EAL	4/18/15 0910
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Sample Site Air Temperature: 89.8°F

Notes: FedEx 8071 2266 7879

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx		2.4°C	Good	Yes / No / None	1504300

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SAMPLE RECEIPT SUMMARY

WORKORDER 1504309R2

Client

Mr. Thomas Beer
Gilbane Company
2730 Shadelands Drive
Suite 100
Walnut Creek, CA 94598

Sales Rep: N/A

Phone

925-946-3100

Fax

925-256-8998

Date Promised: 07/13/15
Date Completed: 7/20/15
Date Received: 4/18/15
PO#: J163006400-002
Project#: 07163 - 0064 SAIA

Total $: $ 0.00
Logged By: JCW

Fraction	Sample #	Analysis	Collected	Amount$
01A	5227-IA02-0415	Passive S.E. RAD130/SKC	4/16/2015	$0.00
02A	5230-IA01-0415	Passive S.E. RAD130/SKC	4/16/2015	$0.00
03A	5230-OA01-0415	Passive S.E. RAD130/SKC	4/16/2015	$0.00
04A	5230-FB01-0415	Passive S.E. RAD130/SKC	4/16/2015	$0.00
05A	5211-IA01-0415	Passive S.E. RAD130/SKC	4/17/2015	$0.00
06A	5211-CS01-0415	Passive S.E. RAD130/SKC	4/17/2015	$0.00
07A	5234-IA01-0415	Passive S.E. RAD130/SKC	4/17/2015	$0.00
08A	5234-CS01-0415	Passive S.E. RAD130/SKC	4/17/2015	$0.00
09A	5215-CS01-0415	Passive S.E. RAD130/SKC	4/17/2015	$0.00
10A	Lab Blank	Passive S.E. RAD130/SKC	NA	$0.00
11A	LCS	Passive S.E. RAD130/SKC	NA	$0.00
11AA	LCSD	Passive S.E. RAD130/SKC	NA	$0.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: SAIA/20267

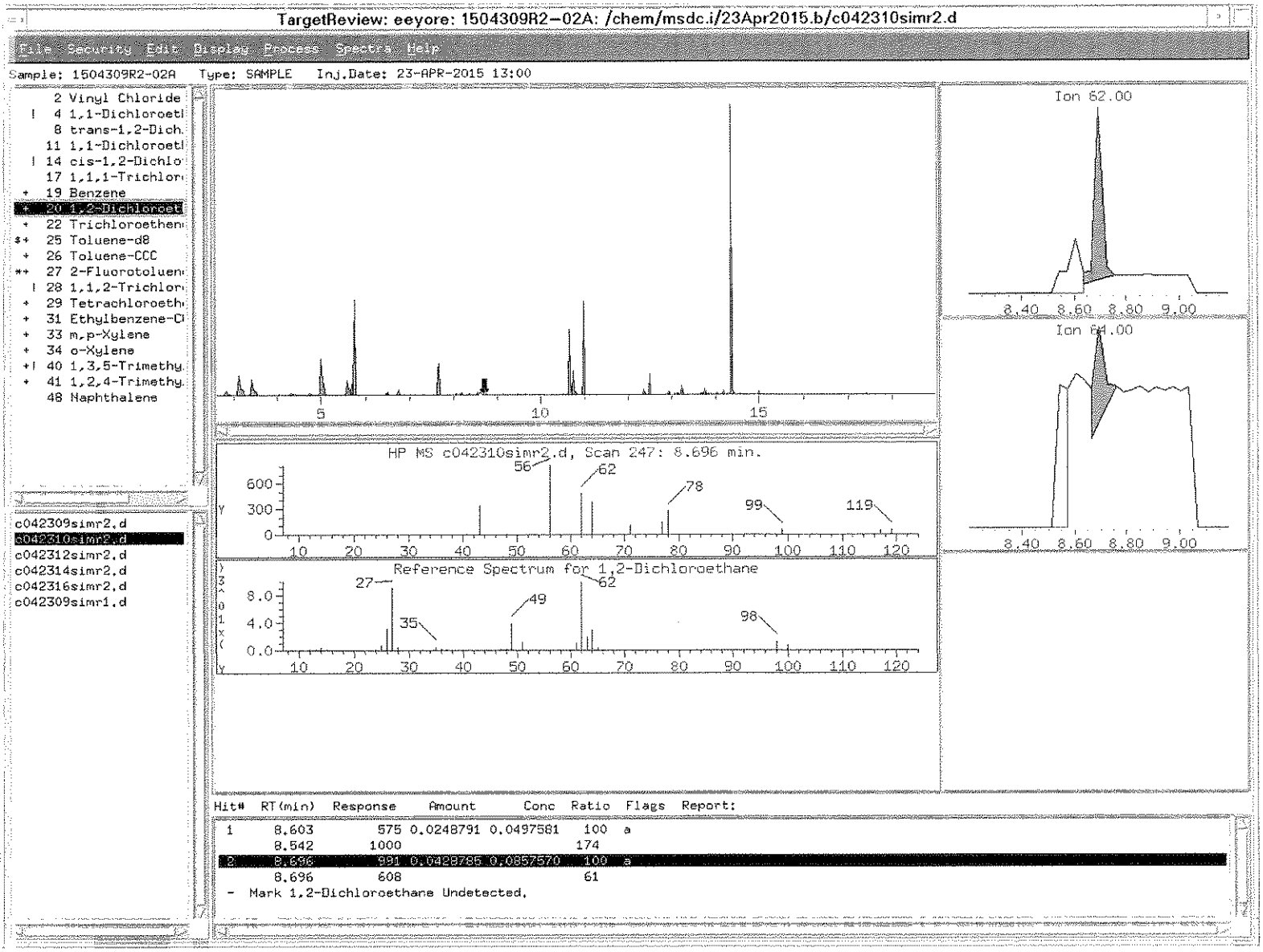
BILL TO: Mr. Thomas Beer
Gilbane Company
2730 Shadelands Drive
Suite 100
Walnut Creek, CA 94598

Analysis Code: Other GC

TERMS: NET 45

Reporting Method: Passive SE GC/MS (Sp)-Gilbane (SAIA) v2

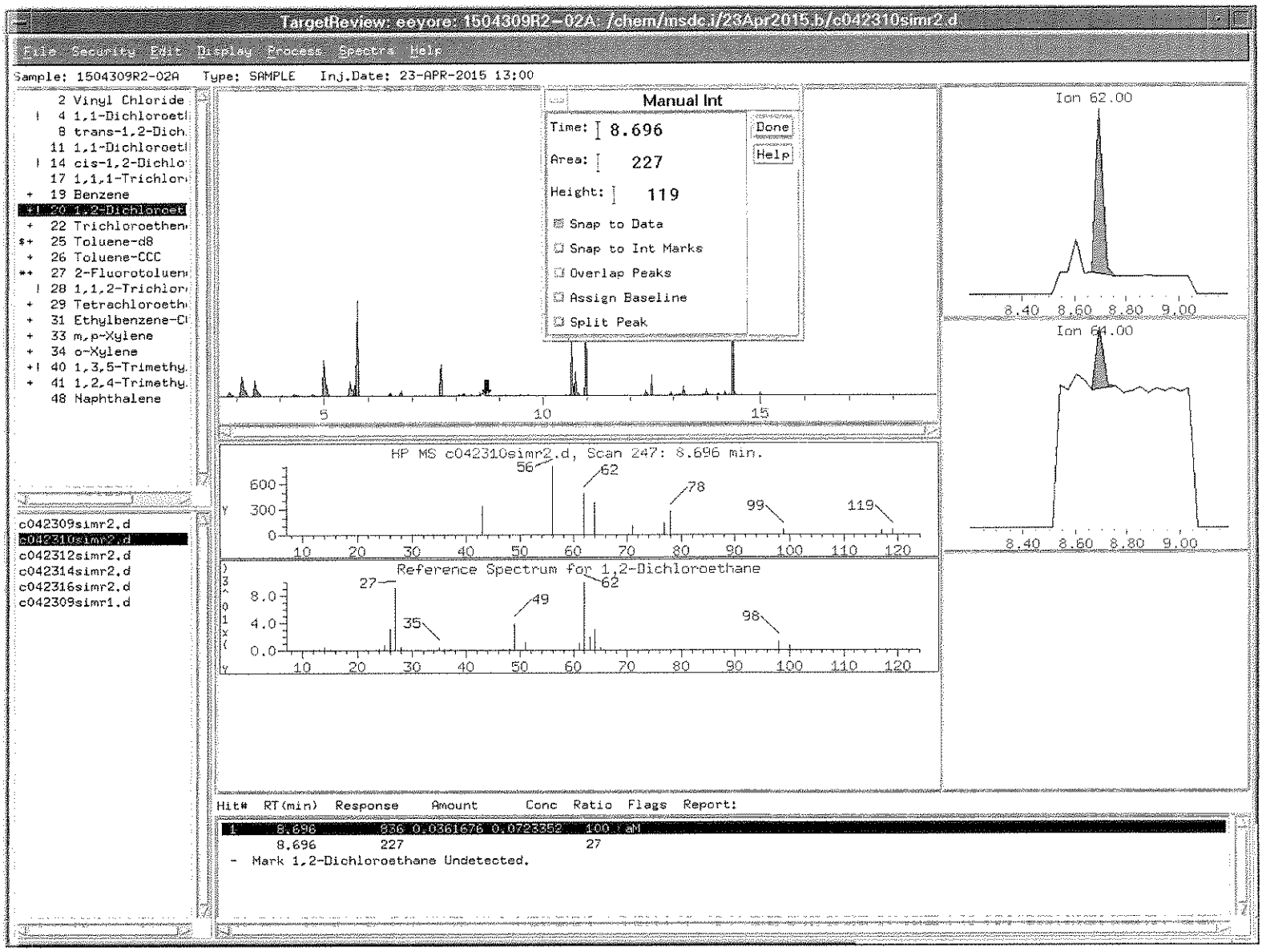
Other Records



Before

gm

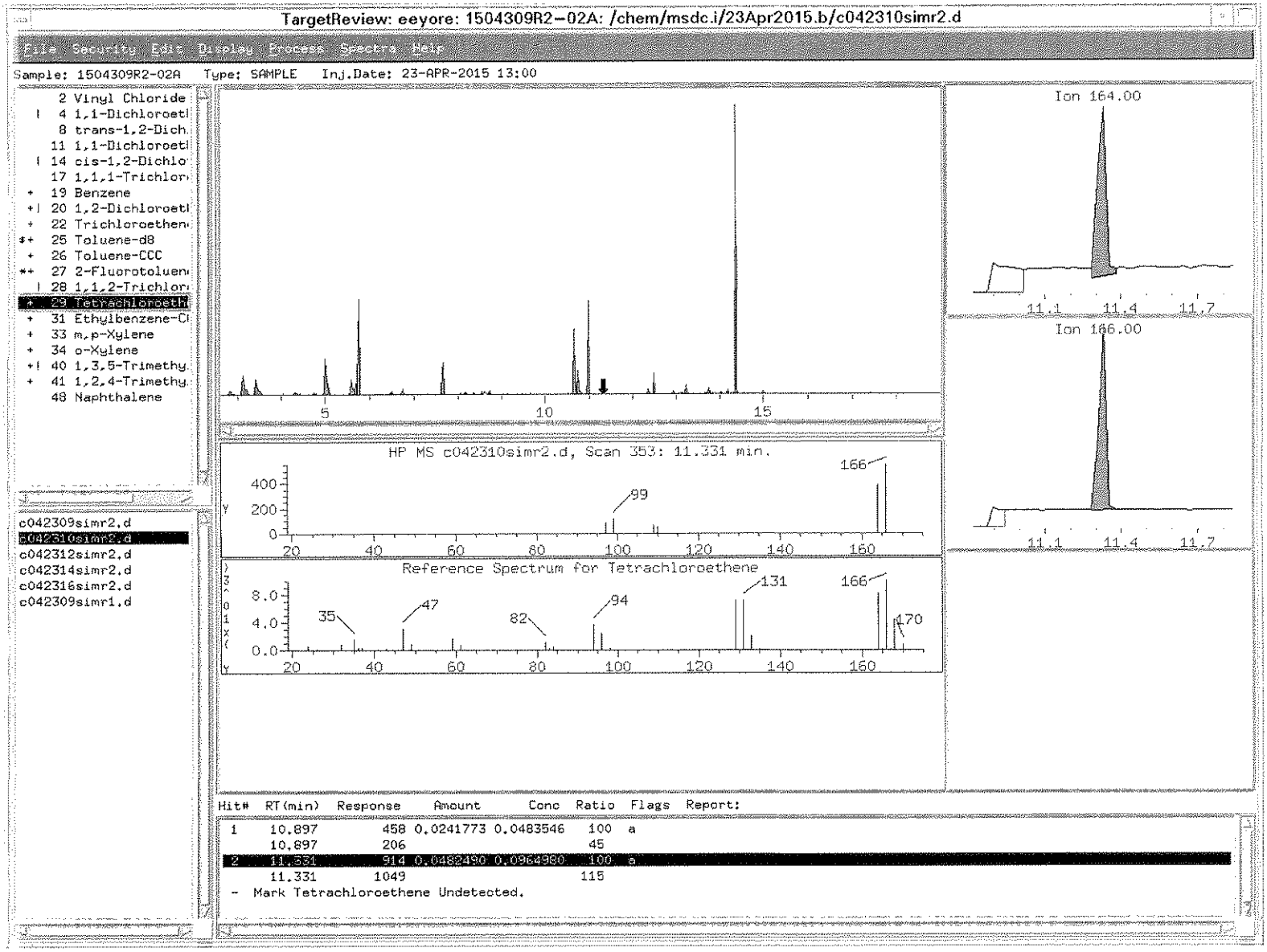
7/13/15



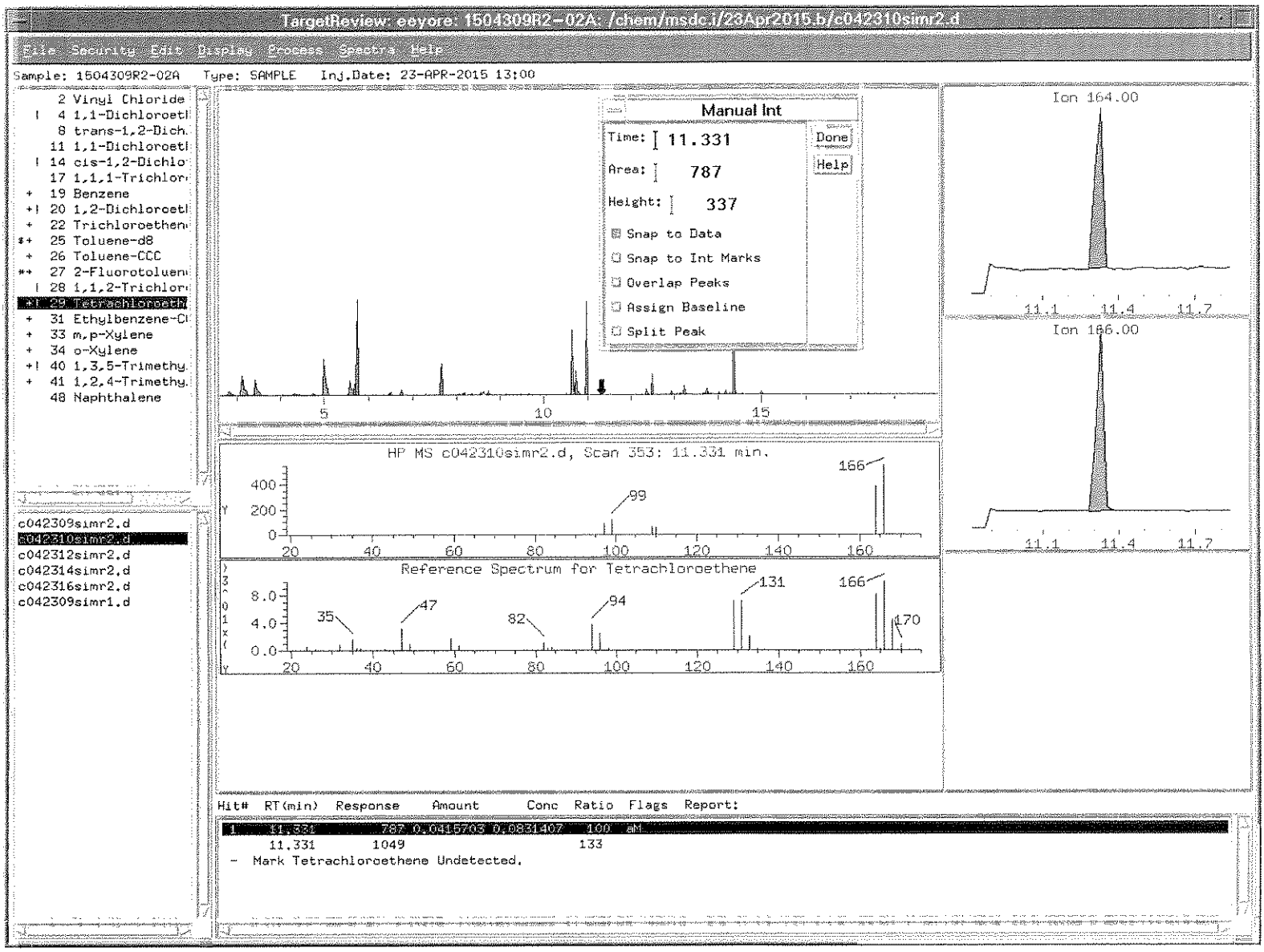
9m
7/13/15

After

Correct Baseline	
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	



Before
gm
7/13/15



9m
7/13/15

After

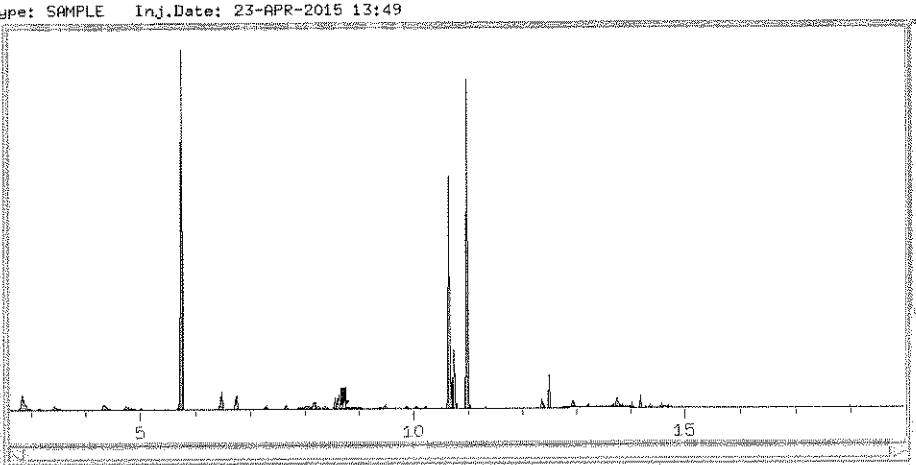
Correct Baseline
Split Peak
Merge Peak
Zoom In
Change Parameter
System Peak Subtraction
Peak Misidentified
Corrected Peak Integration

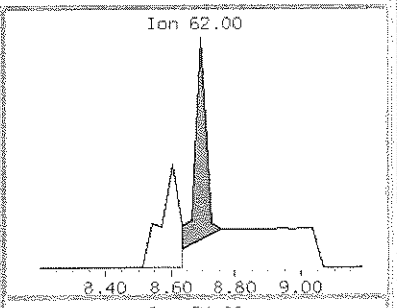
TargetReview: eeyore: 1504309R2-04A: /chem/msdc.i/23Apr2015.b/c042312simr2.d

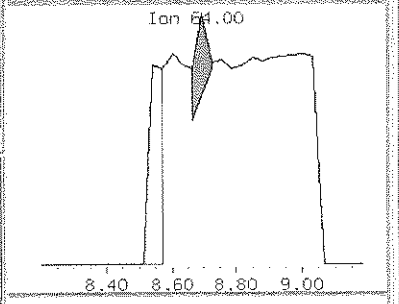
File Security Edit Display Process Spectra Help

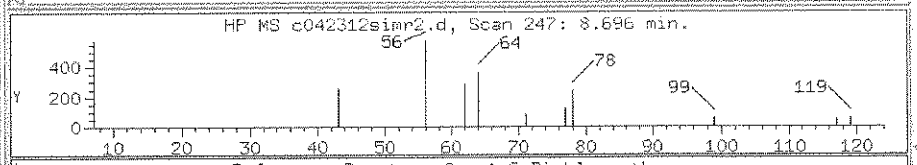
Sample: 1504309R2-04A Type: SAMPLE Inj.Date: 23-APR-2015 13:49

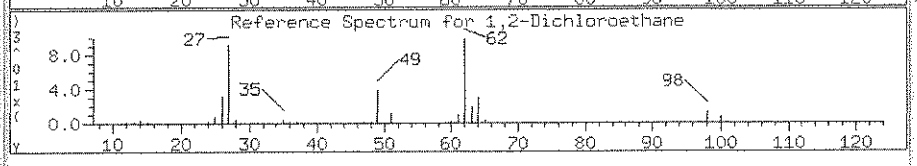
2 Vinyl Chloride
4 1,1-Dichloroeth
8 trans-1,2-Dich
11 1,1-Dichloroeth
14 cis-1,2-Dichlo
17 1,1,1-Trichlor
19 Benzene
20 1,2-Dichloroet
22 Trichloroethen
25 Toluene-d8
26 Toluene-CCC
27 2-Fluorotoluen
28 1,1,2-Trichlor
29 Tetrachloroeth
31 Ethylbenzene-Cl
33 m,p-Xylene
34 o-Xylene
40 1,3,5-Trimethy
41 1,2,4-Trimethy
48 Naphthalene









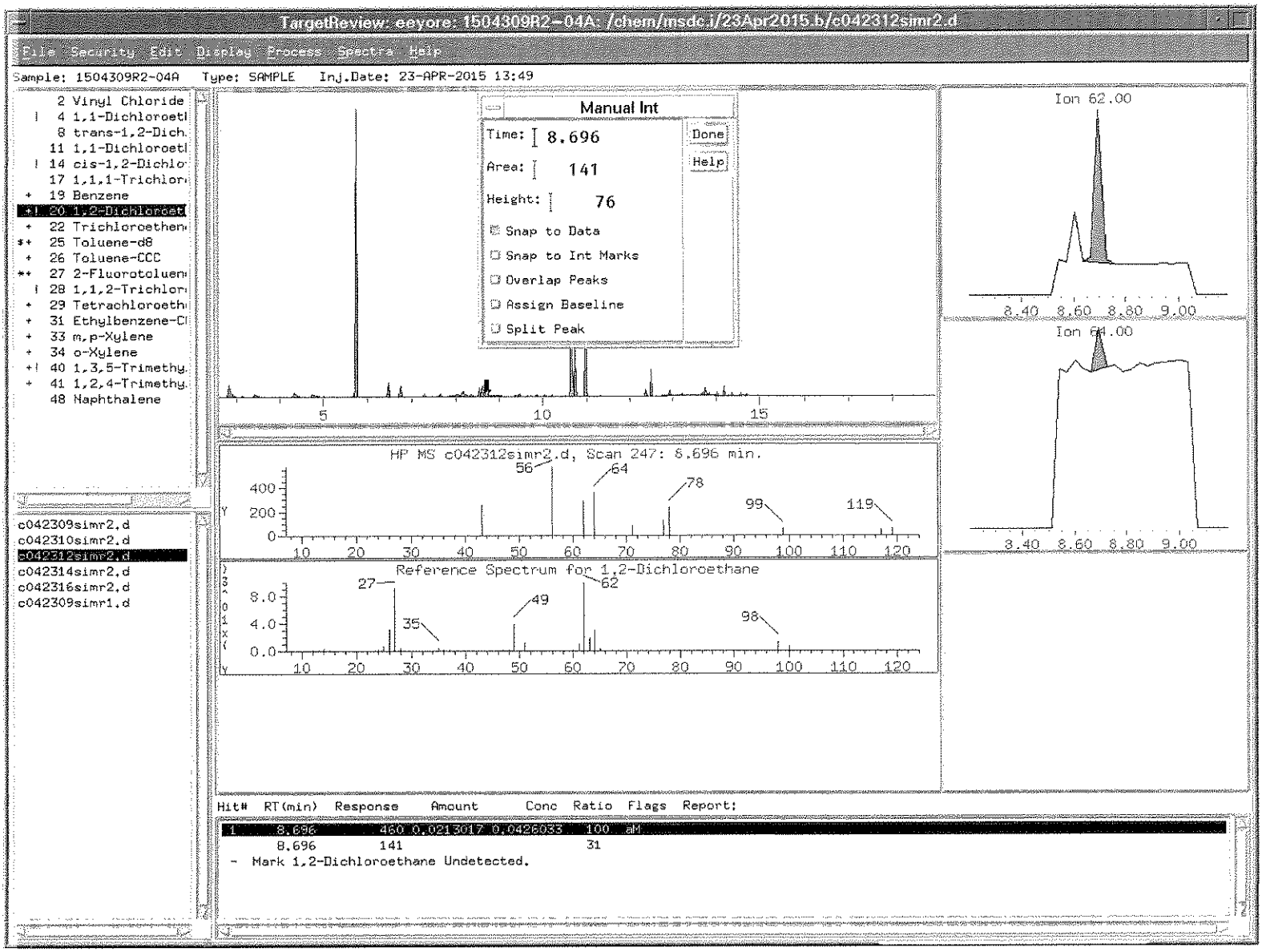


c042309simr2.d
c042310simr2.d
c042312simr2.d
c042314simr2.d
c042316simr2.d
c042309simr1.d

Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	8.603	523	0.0241947	0.0483894	100	a	
	8.542	1059			202		
2	8.696	588	0.0272480	0.0544959	100	a	
	8.696	374			63		

- Mark 1,2-Dichloroethane Undetected.

Before
gm
7/13/15



9m
7/13/15

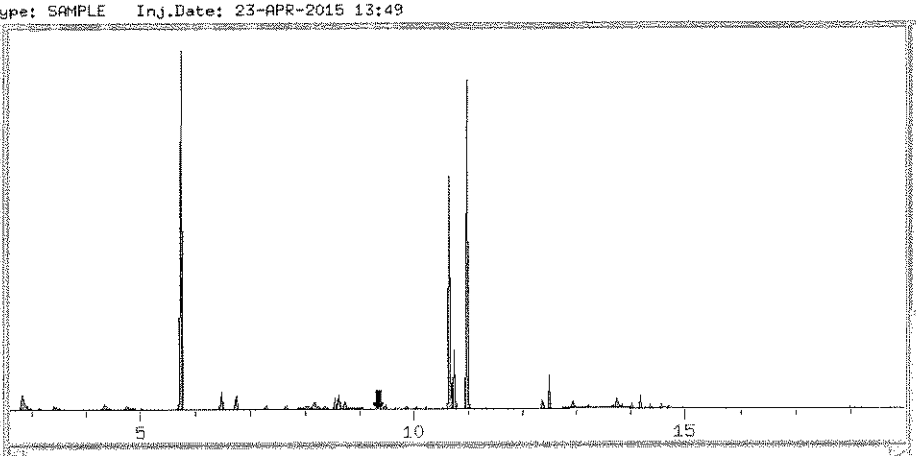
After	
Correct Baseline	
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	

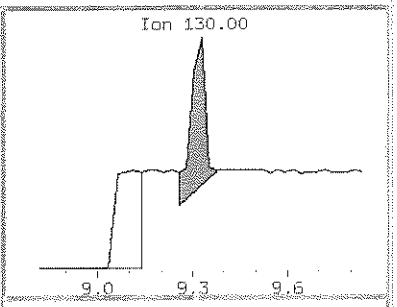
TargetReview: eeyore: 1504309R2-04A: /chem/msdc.i/23Apr2015.b/c042312simr2.d

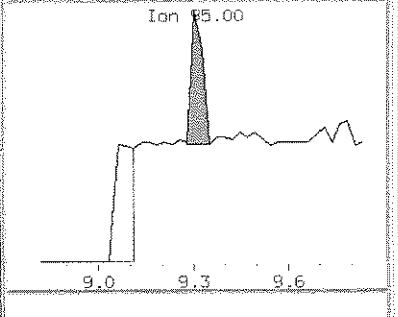
File Security Edit Display Process Spectra Help

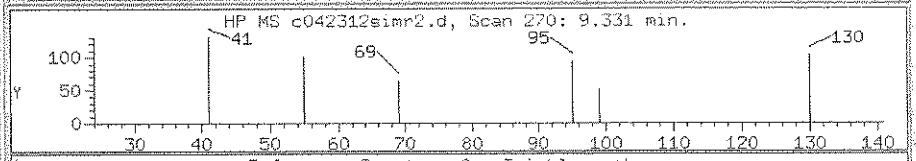
Sample: 1504309R2-04A Type: SAMPLE Inj.Date: 23-APR-2015 13:49

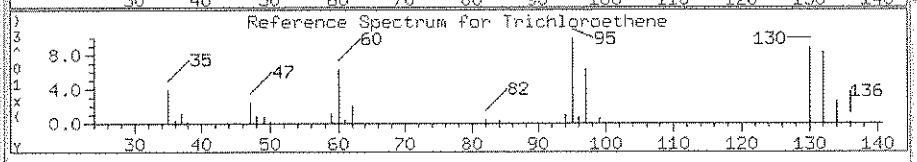
2 Vinyl Chloride
! 4 1,1-Dichloroetl
8 trans-1,2-Dich.
11 1,1-Dichloroetl
! 14 cis-1,2-Dichlo
17 1,1,1-Trichlor
+ 19 Benzene
+! 20 1,2-Dichloroetl
+ 22 Trichloroethen
$+ 25 Toluene-d8
+ 26 Toluene-CCC
*+ 27 2-Fluorotoluen
! 28 1,1,2-Trichlor
+ 29 Tetrachloroeth
+ 31 Ethylbenzene-C
+ 33 m,p-Xylene
+ 34 o-Xylene
+! 40 1,3,5-Trimethy
+ 41 1,2,4-Trimethy
48 Naphthalene









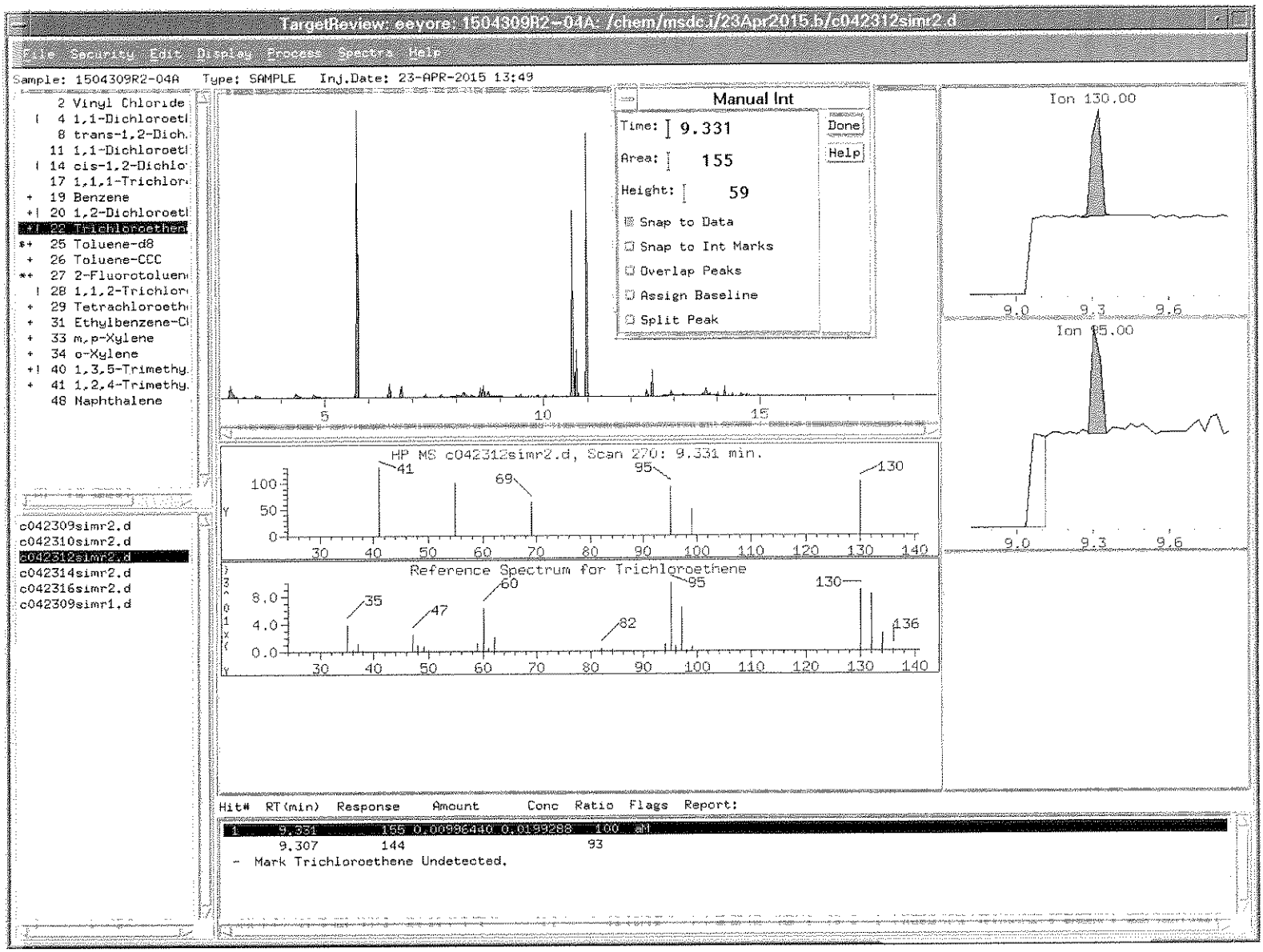


c042309simr2.d
c042310simr2.d
c042312simr2.d
c042314simr2.d
c042316simr2.d
c042309simr1.d

Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	9.114	266	0.0171285	0.0342571	100	a	
	9.066	237			89		
2	9.331	224	0.0144240	0.0288481	100	a	
	9.307	144			64		

- Mark Trichloroethene Undetected.

Before
gm
7/13/15



7/13/15

After

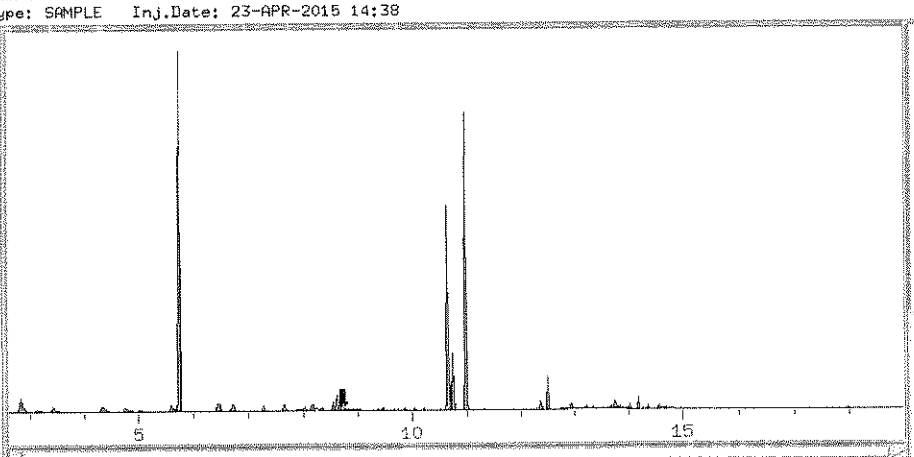
Correct Baseline	
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	

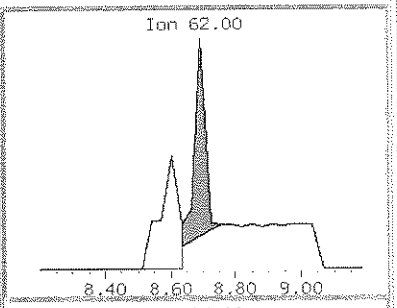
TargetReview: eeyore: 1504309R2-06A: /chem/msdc.i/23Apr2015.b/c042314simr2.d

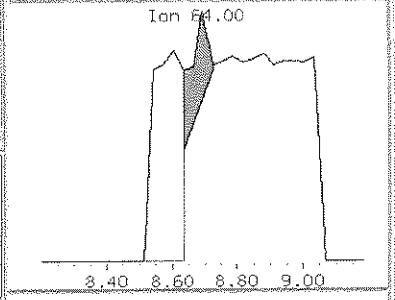
File Security Edit Display Process Spectra Help

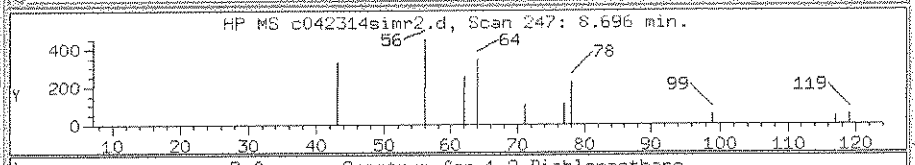
Sample: 1504309R2-06A Type: SAMPLE Inj.Date: 23-APR-2015 14:38

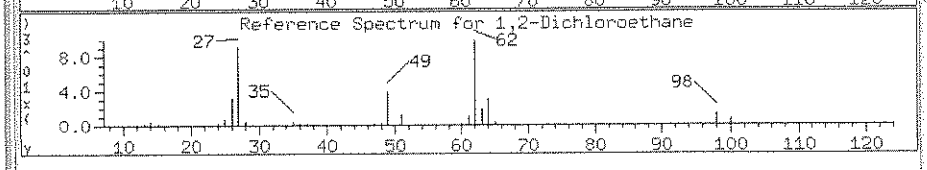
2 Vinyl Chloride
4 1,1-Dichloroetl
8 trans-1,2-Dich.
11 1,1-Dichloroetl
14 cis-1,2-Dichlo
17 1,1,1-Trichlor
19 Benzene
20 1,2-Dichloroet
22 Trichloroethen
25 Toluene-d8
26 Toluene-CCC
27 2-Fluorotoluen
28 1,1,2-Trichlor
29 Tetrachloroeth
31 Ethylbenzene-Cl
33 m,p-Xylene
34 o-Xylene
40 1,3,5-Trimethy.
41 1,2,4-Trimethy.
48 Naphthalene









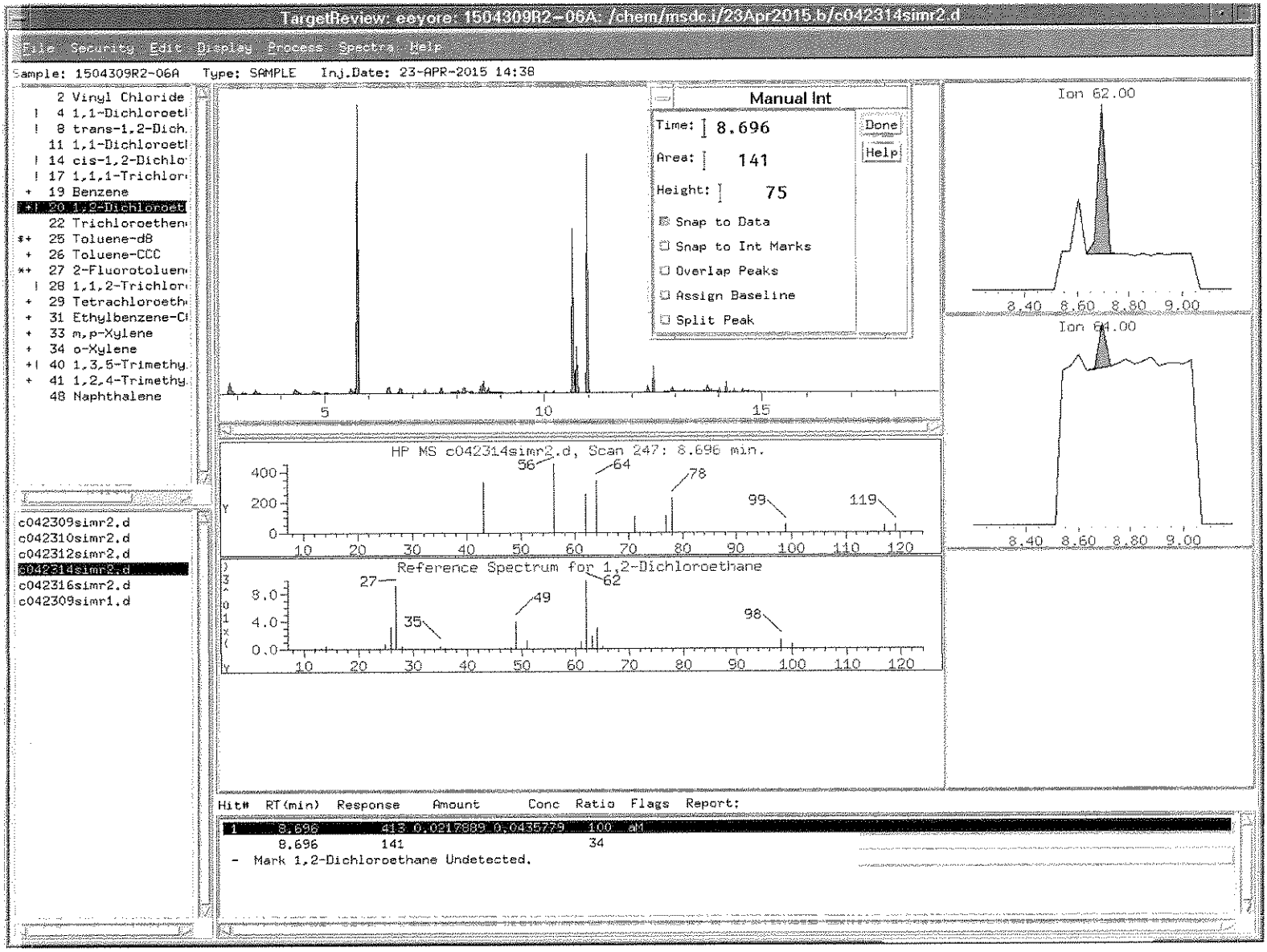


c042309simr2.d
c042310simr2.d
c042312simr2.d
c042314simr2.d
c042316simr2.d
c042309simr1.d

Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	8.603	514	0.0270973	0.0541946	100	a	
	8.603	1974			384		
2	8.696	528	0.0278354	0.0556707	100	a	
	8.696	562			106		

- Mark 1,2-Dichloroethane Undetected.

Before
gm
7/13/15



9m 7/13/15

After

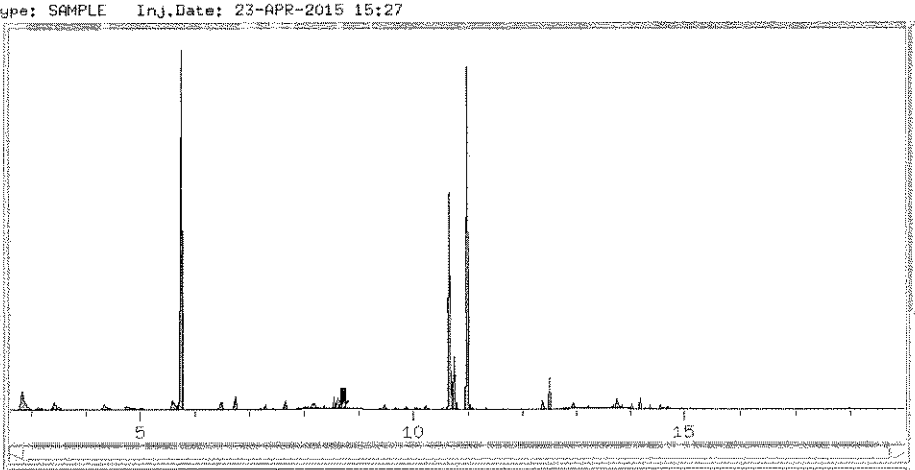
Correct Baseline	
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Misidentified	
Peak Integration	

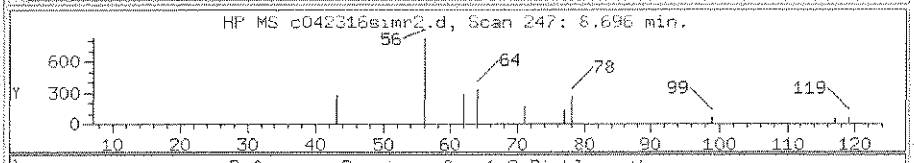
TargetReview: eeyore: 1504309R2-08A: /chem/msdc.i/23Apr2015.b/c042316simr2.d

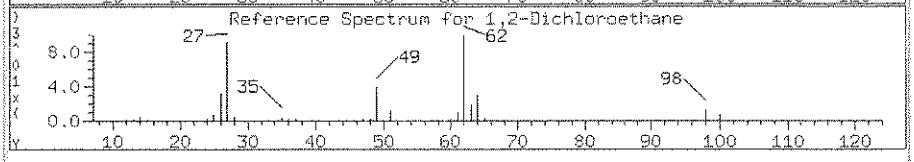
File Security Edit Display Process Spectra Help

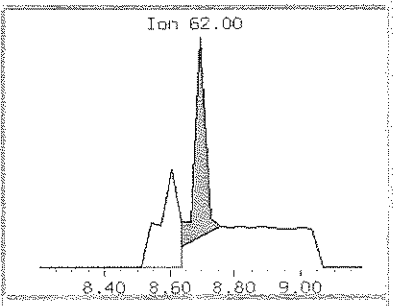
Sample: 1504309R2-08A Type: SAMPLE Inj.Date: 23-APR-2015 15:27

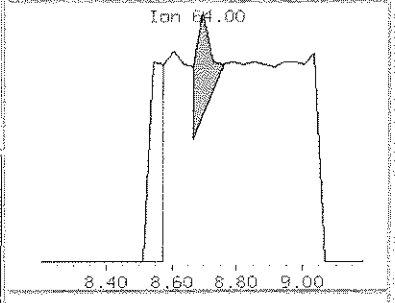
```
    2 Vinyl Chloride
  ! 4 1,1-Dichloroetl
    8 trans-1,2-Dich
   11 1,1-Dichloroetl
  ! 14 cis-1,2-Dichlo
   17 1,1,1-Trichlor
  + 19 Benzene
  * 20 1,2-Dichloroet
  + 22 Trichloroethen
 $+ 25 Toluene-d8
  + 26 Toluene-CCC
 *+ 27 2-Fluorotoluen
  ! 28 1,1,2-Trichlor
  + 29 Tetrachloroeth
  + 31 Ethylbenzene-Cl
  + 33 m,p-Xylene
  + 34 o-Xylene
 +! 40 1,3,5-Trimethy
  + 41 1,2,4-Trimethy
   48 Naphthalene
```











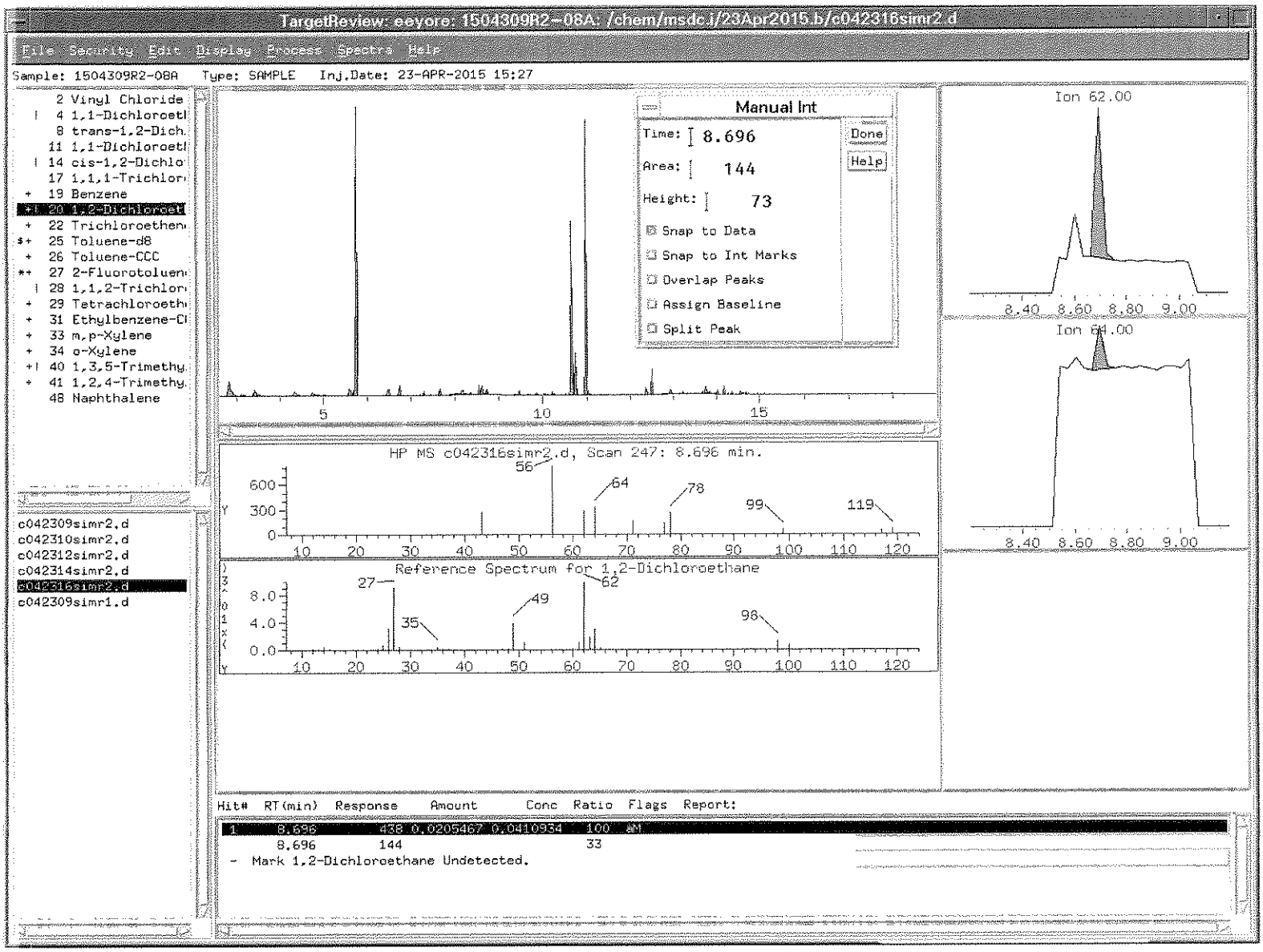

```
c042309simr2.d
c042310simr2.d
c042312simr2.d
c042314simr2.d
c042316simr2.d
c042309simr1.d
```

Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	8.603	517	0.0242408	0.0484817	100	a	
	8.542	987			191		
2	8.696	585	0.0274292	0.0548584	100	a	
	8.696	514			88		

\- Mark 1,2-Dichloroethane Undetected.

Before

gm
7/13/15



After

Correct Baseline	✓
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Reidentified	
Peak Integration	

7/13/15

Compound Listing

Passive SE GC/MS (Sp)-Gilbane (SAIA) v2

CAS Number	Compound	Detection Limit ug	Type
71-55-6	1,1,1-Trichloroethane	0.10	
71-43-2	Benzene	0.40	
107-06-2	1,2-Dichloroethane	0.10	
79-01-6	Trichloroethene	0.10	
108-88-3	Toluene	0.10	
127-18-4	Tetrachloroethene	0.10	
100-41-4	Ethyl Benzene	0.10	
108-38-3	m,p-Xylene	0.10	
95-47-6	o-Xylene	0.10	
91-20-3	Naphthalene	0.10	
75-34-3	1,1-Dichloroethane	0.10	
75-35-4	1,1-Dichloroethene	0.40	
156-59-2	cis-1,2-Dichloroethene	0.10	
156-60-5	trans-1,2-Dichloroethene	0.20	
79-00-5	1,1,2-Trichloroethane	0.10	
95-63-6	1,2,4-Trimethylbenzene	0.10	
108-67-8	1,3,5-Trimethylbenzene	0.10	
75-01-4	Vinyl Chloride	0.40	
2037-26-5	Toluene-d8		

Eurofins Air Toxics, Inc.	Data Review Checklist			Release Date: 03/26/15
Workorder # 1504309	Form F1.27	Revision #11	Revision date: 03/26/15	Page 1 of 2

S1	S2	S3	S4	D	***Section 1* – Spec Out**				
✓					**Initials/Instrument/Date**	**S1:** MSD-e 5/4/15	**S2:**	**S3:**	**S4:**
✓				■	Project Identification (PID), Project Requirements Table (PRT), Daily QC and ICAL met Criteria				
✓				■	Lumen QC and ICAL evaluation (ref. SOP/Method) report initialed and in folder				
✓				■	Manual Integrations included and approved				
✓				✓	Chain of Custody verified for special comments (add comments below)				
✓				■	Non-standard Target sublist printed				

Profile, analyses, reporting, special notes and unusual circumstances:

A1	A2	A3	A4	D	***Section 2* – Sample Analysis**				
✓				✓	**Initials/Date**	**A1:** jm 5/11/15	**A2:**	**A3:**	**A4:**
✓				✓	Internal Standard/Surrogate Recoveries, Dilution Factors, Load Volumes, Initial/Final Pressures, and Canister #s Verified				
NA				NA	**a)** Tedlar Bag IDs verified against COC **b)** Tedlar Bag ID confirmed with loading sequence/leg of instrument				
✓				✓	Manual Integrations/Bag or Can Dilution Forms/Re-pressurization Forms/Bag-Can Transfer Forms present (circle all that apply)				
✓				■	12/24 Hr clock time & Hold Time met for all samples				
NA				NA	Re-analysis of sample(s) have been evaluated for comparability and/or samples have been checked for trends (Inf/Eff).				
✓				✓	All runs have been evaluated for potential carry-over (TPHg/non-Target/over-range compounds etc)				

Analytical and special notes:

D1	D2	D3	D4	T	3T	***Section 3* – Target Data Reduction**	**Technical Review Needed? Circle one: Yes/No**		**T:**	
						Initials/Instrument/ Date	**D1:** jm 5/11/15	**D2:**	**D3:**	**D4:**
NA					■	CAR # *(if applicable)*				
✓					■	Spectra Verified *(documentation of spectral defense included if applicable)*				
NA					■	TICs resemble reference spectra/ TICs between sample dups. are consistent *(if applicable)*				
✓						Lab Narrative is correct				
NA					■	TPH/NMOC calculations complete and included in folder				

Special notes:

A	3T	***Section 4*- Atlas Data Entry**	**Lumen verified and included in folder**	**Circle one: Yes/No**
		Initials/Date: jm 5/11/15	**3rd Tier:** *(needed only for DOD or per client request)*	
NA		Sample Discrepancy Report (SDR) complete and approved *(if applicable)*		
✓		Manually entered results are checked		
✓		At least one result per sample is verified against Target quant sheets		
✓		Appropriate data qualifier flags are applied		
✓		Final Invoice is correct/ Final PDF report, COC and EDD reviewed and correct		

Special Notes:

Note (1) *Please check all the appropriate boxes. Indicate "NA" for any statement that doesn't apply*
Note (2) 3rd Tier Report Reviewer and Write Up Reviewer must be separate individuals for DoD & Client Specific Projects

Workorder # :				Reason for Reissue:
1504309R1				to remove one compound and to report down to the MDL
W	T	3T	Q	
✓				Reissue Request form Present
✓				Client or QA or Lab contact present with reason for reissue
✓				Review all affected data
✓				Report header has correct R1, R2 etc
✓				The Lab Narrative clearly explains the reissue (Date, Reason and whether client requested)
✓				Date for Reissue in Report Header matches date in Lab Narrative
✓				Check Project Profile for correct reporting instructions (multiple clients, # hardcopies, etc)
NA				Corrective Action issued - #
✓				The reissued workorder has been approved by QA Manager or a Technical Director
Additional Comments:				

Write Up (Initials/Date)	Tech Review (Initials/Date)	*3rd Tier Review * 3rd Tier Report Review is for DoD & Client Specific projects only (Initials/Date)	QA Review (Initials/Date)
JM 8/10/15			

Workorder # :				Reason for Reissue:
1504309R2				to perform manual integrations and h TCE as ND for post due to rounding error. JM 9/17/15
W	T	3T	Q	
✓			✓	Reissue Request form Present
✓			✓	Client or QA or Lab contact present with reason for reissue
✓			✓	Review all affected data
✓			✓	Report header has correct R1, R2 etc
✓			✓	The Lab Narrative clearly explains the reissue (Date, Reason and whether client requested)
✓			✓	Date for Reissue in Report Header matches date in Lab Narrative
✓			✓	Check Project Profile for correct reporting instructions (multiple clients, # hardcopies, etc)
NA			ND	Corrective Action issued - #
✓			✓	The reissued workorder has been approved by QA Manager or a Technical Director
Additional Comments:				

Write Up (Initials/Date)	Tech Review (Initials/Date)	*3rd Tier Review * 3rd Tier Report Review is for DoD & Client Specific projects only (Initials/Date)	QA Review (Initials/Date)
JM 9/17/15			SS 9/17/15

Note (1) *Please check all the appropriate boxes. Indicate "NA" for any statement that doesn't apply*
Note (2) 3rd Tier Report Reviewer and Write Up Reviewer must be separate individuals for DoD & Client Specific Projects

Not Applicable

APPENDIX F

DATA QUALITY SUMMARY REPORT AND DATA VALIDATION REPORTS

DATA QUALITY SUMMARY REPORT
REMEDIAL INVESTIGATION

SOUTHERN AVENUE INDUSTRIAL AREA SUPERFUND SITE
SOUTH GATE, CALIFORNIA

FINAL

Prepared For:

U.S. ENVIRONMENTAL PROTECTION AGENCY
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July 2019

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LIST OF ATTACHMENTS

A Stage 2A/2B Data Validation Reports
B Stage 3 Data Validation Reports
C EPA Tier 3 Validation Reports
D Field Duplicate Summary Report

ACRONYMS AND ABBREVIATIONS

ADR	automated data review
°C	degrees Celsius
CCV	continuing calibration verification
CLP	EPA Contract Laboratory Program
CPT	cone penetrometer test
DQO	data quality objective
DQSR	Data Quality Summary Report
eDMS	electronic data management system
EPA	United States Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
Gilbane	Gilbane Federal
GW	groundwater
H&P	H & P Mobile Geochemistry, Inc.
ICAL	initial calibration
ICP	inductively coupled plasma
ICP/MS	inductively coupled plasma/mass spectrometry
ICV	initial calibration verification
LCS/LCSD	laboratory control sample/laboratory control sample duplicate
MDL	method detection limit
MS	matrix spike
MS/MSD	matrix spike/matrix spike duplicate
PCB	polychlorinated biphenyl
PDF	portable document format
QAO	U.S. EPA Quality Assurance Office
QC	quality control
QL	quantitation limit
R9	U.S. EPA Region 9 Laboratory
RI	Remedial Investigation
RPD	relative percent difference
RL	reporting limit
RRF	relative response factor
RSD	relative standard deviation
SDG	sample delivery group
SM	Standard Methods
SO	soil
SVOC	semi-volatile organic compounds
TOC	total organic carbon
ug/L	micrograms per liter
VOCs	volatile organic compounds

1.0 ANALYTICAL PROGRAM

Gilbane Federal (Gilbane) has prepared this Data Quality Summary Report (DQSR) on behalf of the United States Environmental Protection Agency (EPA) Region 9, as part of the remedial investigation (RI) being conducted for the Southern Avenue Industrial Area Superfund Site (SAIA), South Gate, California. Gilbane is conducting the RI at SAIA under EPA Contract EP-S9-08-03, Task Order 0063. This DQSR encompasses groundwater, soil, soil gas, and indoor air samples collected between June of 2011 and April of 2017. This DQSR reconciles the chemical data with the project data quality objectives (DQOs) for the RI, as presented in the RI/Feasibility Study (FS) Sampling and Analysis Plan (RI/FS SAP; ITSI Gilbane, 2012) and the Vapor Intrusion Sampling and Analysis Plan (VI SAP; Gilbane, 2015a), and establishes the data usability of the dataset.

Table 1 provides a summary of the analytical methods performed on samples collected.

Table 1: Summary of Analytical Methods

METHOD	MATRIX	COMPOUNDS
SOM01.2/SOM2.2 CVOL	GW/SO	CLP Volatile organic compounds (VOCs)
EPA 524.2	GW	VOCs
SOM01.2/SOM02.2 CSVOL	GW/SO	CLP Semivolatiles (SVOCs)
SOM01.2/SOM02.2 SIMSVOL	GW/SO	1,4-Dioxane
SOM01.2 SVOL	GW	1,4-Dioxane
SOM01.2/SOM02.2 CARO	GW/SO	CLP Polychlorinated biphenyls (PCBs)
ISM01.3/ISM02.2 ICPAES	GW/SO	CLP Inductively coupled plasma (ICP) spectrophotometer metals
ISM01.3/ISM02.2 ICPMS	GW	CLP ICP Mass spectrometer (MS) metals
ISM01.3/ ISM02.2 CVAA	GW/SO	CLP Mercury
ISM01.3 SPEC	GW	CLP Cyanide
EPA 300.0	GW	Anions (chloride and sulfate)
EPA 331.0	GW	Perchlorate
EPA 415.3	GW	Total Organic Carbon (TOC)
Standard Methods (SM) 2320B	GW	Alkalinity
SM 2540C	GW	Total Dissolved Solids
EPA TO-15	Air/Soil Gas	VOCs in air
EPA TO-17	Air	VOCs in air

Abbreviations:
EPA = US Environmental Protection Agency
CLP = Contract Laboratory Program
GW = groundwater
SO = soil
SIM = selected ion monitoring

Groundwater or air samples were analyzed for one or more of the above methods. Analyses were conducted in accordance with the following guidance documents:

- *Methods for Chemical Analysis of Water and Wastes* (EPA, 1983).
- *Standard Methods for the Examination of Water and Waste Water, 21st Edition* (American Public Health Association [APHA], 2005).
- *Compendium of Methods for Determination of Toxic Organic Compounds in Ambient Air* (EPA, 1999).
- *EPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration, SOM01.1, May 2005* (EPA, 2005).
- *Modifications Updating SOM01.1 to SOM01.2*, Amended April 11, 2007 (EPA, 2007).
- *EPA Contract Laboratory Program Statement of Work for Inorganic Superfund Methods (Multi-Media, Multi-Concentration)* ISM01.2, January 2010, and *Modifications Updating ISM01.2 to ISM01.3* (EPA, 2010).
- *Final Sampling and Analysis Plan Remedial Investigation/Feasibility Study Southern Avenue Industrial Area Superfund Site, South Gate, Los Angeles County, California* (RI/FS SAP; ITSI Gilbane, 2012).
- *Final Sampling and Analysis Plan Vapor Intrusion Evaluation Southern Avenue Industrial Area Superfund Site, South Gate, Los Angeles County, California* (VI SAP; Gilbane, 2015a).
- *Final Supplemental Sampling and Analysis Plan Vapor Intrusion Evaluation Southern Avenue Industrial Area Superfund Site, South Gate, Los Angeles County, California* (Supplemental VI SAP; Gilbane, 2017).

Soil and groundwater samples were submitted to the EPA Contract Laboratory Program (CLP) network of laboratories or to the EPA Region 9 (R9) Laboratory in Richmond, California. Water quality parameter samples for general chemistry analysis were submitted to R9. Soil gas samples were analyzed by R9 and H & P Mobile Geochemistry, Inc. (H&P), of Carlsbad, California. The indoor air samples were analyzed by R9 and Eurofins Air Toxics, Ltd. (Eurofins), of Folsom, California.

Laboratory reports were submitted a longer definition.to Gilbane as portable document format (pdf) files and are included as attachments to the RI report. Electronic results from each laboratory were uploaded into the Gilbane electronic data management system (eDMS) by sample delivery group (SDG). The eDMS is configured to perform a consistency check between the laboratory data and the chain of custody input information. Gilbane resolved any discrepancies (e.g., non-matching sample identifiers) with the laboratory before the SDG was uploaded. The Gilbane eDMS performed an automated data review on the results and the Gilbane Project Chemist performed a supplemental manual review to meet the requirements for a minimum of a Stage S2BVEM data review for CLP or commercial lab data, and an S2AVEM review for R9 data as defined in the EPA *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (EPA, 2009).

The EPA Region 9 Quality Assurance Office (QAO) data validation contractor performed independent EPA Tier 3 validation on approximately 10% of the CLP organic and metals data. CLP data received at least EPA Tier 1B validation by the EPA QAO or Stage S2BVEM by the Gilbane Project Chemist. The Gilbane Project Chemist performed approximately 10% S3VEM and 90% S2BVEM validation of the vapor intrusion data from the R9 or commercial laboratories. The validators reviewed the analytical data for all test methods in accordance with the following documents, as applicable:

- RI/FS SAP and/or VI SAP.
- *National Functional Guidelines for Inorganic Superfund Methods Data Review* (EPA, 2017a).
- *National Functional Guidelines for Organic Superfund Methods Data Review* (EPA, 2017b).

The data qualification flag definitions and reason codes are presented in Section 1.1 of this DQSR. The validators evaluated and qualified the data using the following analytical quality control (QC) elements:

- Holding time and temperature compliance.
- Initial calibrations (ICAL).
- Initial and continuing calibration verification (ICV/CCV).

- Method blank (MB) contamination.
- Field blank (FB) contamination.
- Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) accuracy and precision.
- Matrix spike/matrix spike duplicate (MS/MSD) accuracy and precision.
- Sample duplicate precision.
- Internal standard (IS) recovery.
- Surrogate recovery.
- Interference check sample recovery (metals only).
- Serial dilution (metals only).
- Instrument tuning and system performance (Tier 3).
- Analyte identification and quantitation (Tier 3).

Stage 2A/2B validation reports are provided as Attachment A. Stage 3 validation reports are proved as Attachment B. EPA Tier 3 validation reports are provided as Attachment C.

1.1 QUALIFIED RESULTS

Data qualifiers are defined in the National Functional Guidelines (EPA, 2017a and 2017b). The final data tables contain the following data qualifiers as appropriate for SAIA RI data:

- *J qualifier* denotes that the analyte was positively identified, but the quantitation is estimated. The analyte was positively identified but the associated numerical value is an estimated value above the method detection limit (MDL) and below the reporting limit (RL). Alternatively, the data validation process may identify that a numerical value should be estimated due to an exceedance of quality control criteria.
- *U qualifier* denotes that the analyte was analyzed for, but reported as not detected by the laboratory. The associated numerical value is at the RL. The results may also be qualified as "U" during the validation process due to blank contamination. In this case, the associated numerical value is at the RL if the original result was reported at a value less than the RL, or at the observed value if original result was reported at a value greater than the RL.
- *UJ qualifier* denotes that the associated reporting limit may be inaccurate or imprecise.
- *R qualifier* denotes that the data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria.

A qualifier may be applied to a result for more than one reason. For example, a result that was qualified as estimated, "J", because the analysis was conducted beyond the allowed holding time, may also be qualified due to an identified problem with the instrument calibration. The reason for each data qualifier is provided in the reason code fields of the qualified results tables found in the data validation reports provided as Attachments A and B. The following subsections discuss the quality of the data and reasons for qualifications. Significant data quality issues (i.e., those resulting in data rejection) are discussed in Section 2.0.

1.2 ESTIMATED LOW CONCENTRATIONS

The analytical laboratories reported detected analyte concentrations to the MDL, and non-detected concentrations to the RL. Detected concentrations between the RL and the MDL are qualified as estimated, "J", because of the increased quantitative uncertainty in the result as the concentration of the analyte approaches the MDL. A total of 1,439 out of 63,151 field sample and duplicate results were qualified as estimated with reason code "TR" due to trace concentrations measured between the MDL and the RL.

Qualification of results as estimated due to low concentrations of analytes is expected due to the sensitivity of the analytical methods used and the low concentrations of many analytes. Qualification for low concentrations is not due to method performance or analytical program issues. Results remain usable with qualification, and data usability is not affected.

1.3 SAMPLE SHIPMENT, RECEIPT, STORAGE AND PRESERVATION

As soil and water samples were collected in the field, they were preserved immediately by cooling to the specified temperature range of 2 to 6 degrees Celsius (°C). The soil gas and indoor air samples did not require cooling. Samples were shipped by overnight carrier directly to the specified laboratories, with the exception of some of the soil gas samples, which were hand-delivered to H&P. Thirty-six primary soil sample results and three associated field duplicate results for mercury, one trip blank for VOCs, and one equipment blank for VOC and SVOCs were qualified as estimated, "J," with a reason code of "T" for temperature receipt exceedances, affecting a total of 208 results out of 63,151. No other samples were received at temperatures outside the specified temperature range.

Upon receipt by the laboratory, samples were immediately entered into the laboratory's data management system, and water and soil samples were stored under refrigeration. No sample results were qualified due to improper sample shipment or storage for this event.

1.4 HOLDING TIME

Thirteen groundwater samples for 1,4-dioxane and one equipment blank (EB) for SVOCs were qualified "J" or "UJ" for an estimated value or reporting limit, with a reason code of "H2," due to an exceedance of the preparation holding time, representing 81 results out of a total of 63,151. The results for one water sample for VOCs were qualified "J" or "UJ" for an estimated value or RL, with a reason code of "H1," due to an analytical holding time exceedance, representing 51 results out of a total of 63,151. No other analytical or preparation holding time exceedances were noted. The data are usable as qualified.

1.5 LABORATORY AND FIELD BLANK CONTAMINATION

Low levels of target analytes were detected in some laboratory and field blanks due to ambient contamination. The sensitivity of modern analytical methods increases the likelihood of detections of low-level contamination. Sources of low-level contamination are difficult to identify, but common sources include dust, volatile organic compounds gradually released from manufactured plastics, and building materials. A total of 1,077 inorganic or organic results out of a total of 63,151 results were qualified "U" or "UJ" for not detected at the RL or at the observed value in the sample due to laboratory or field blank contamination. The following summarizes the types of blank contamination qualified for the SAIA RI:

- 391 water results for method and/or calibration blanks (reason codes "B1", "B2", and "B5").
- 616 soil results for method and/or calibration blanks (reason codes "B1," "B2," and "B5").
- 5 indoor air results for method blanks (reason code "B1").
- 5 water results for laboratory storage blanks (reason code "K4").
- 63 water results for equipment, field, and trip blanks (reason codes "K1," K2," and "K3").

Concentrations of analytes detected in the blanks are not sufficiently high for any associated sample results to be rejected. The identified low-level contamination is not sufficient to affect the data usability.

1.6 CALIBRATION

Instrument calibrations were performed in accordance with specified EPA methodology. The acceptability of the calibration is determined by the measurement of method-specific statistical parameters. During analysis, an instrument may have a calibration that is outside the acceptance limit. Analytical results associated with a calibration that is later determined to be outside the acceptance limit will have increased uncertainty. Depending on the magnitude and nature of the calibration failure, results may be qualified. The validators reviewed the initial and continuing calibrations for each SDG reviewed at Tier 1B (S2BVEM) or higher. Out of 63,151 results, 16 VOC results were qualified "J" or "UJ" for an estimated value or RL, with a reason code of "G1," due to ICAL relative standard deviation (RSD) exceedances. Four-hundred and six results were qualified "J" or "UJ" for an estimated value or RL, with a reason code of "G2" for ICV RSD exceedances or "C11" for CCV RSD exceedances. Four soil gas VOC samples were qualified "J" for an estimated value, with a reason code of "E," due to calibration linear range exceedances. Nine water VOC results were qualified "R" due to low CCV relative response factors (RRFs, reason code "C10"). Details concerning the rejected data are presented in Section 2.0.

Given the number and types of analytes that are measured in this program, the number of results qualified as estimated "J" or "UJ" due to calibration issues is minimal. The estimated results are usable as qualified. The usability of the rejected data is discussed in Section 2.0.

1.7 QUANTITATION LIMIT STANDARD

Quantitation limit standards are sensitivity verification standards analyzed at or below the RL after an ICAL. The evaluation of the quantitation limit standard recovery may indicate that there is greater uncertainty at the lower end of the of the calibration curve. One result analyzed for naphthalene was qualified "UJ" for an estimated RL, with a reason code of "X2," for a quantitation limit standard recovery criteria exceedance. Data usability is not affected.

1.8 SURROGATES AND INTERNAL STANDARDS

Surrogate compounds and internal standards are control compounds used to monitor the analytical process as specified in EPA methodology. The evaluation of the surrogate recovery and internal standard response may indicate that the accuracy of the result is not within the acceptable method-specific parameters. Depending on the magnitude of the uncertainty, a result may be qualified. A total of 778 results for soil, water, and indoor air samples were qualified "J" or "UJ" for an estimated value or RL, with a reason code of "S," due to surrogate recovery out of criteria. Out of 63,151 total results, 188 soil and soil gas results were qualified as estimated, with a reason code of "I," for internal standard recovery anomalies.

The number of results qualified for surrogate and internal standard recovery issues is consistent with that found in review of similar project data, and these results are usable as qualified. Data usability is not significantly affected.

1.9 SERIAL DILUTION

For metals analysis, a serial dilution test is used to determine if interferences are present during the analysis. The measurement of a metal in an undiluted sample is compared to the measurement of the same metal in a diluted sample (and multiplied by the proper dilution factor). The two results are compared, and if uncertainty is shown then results in associated samples may be qualified. A serial dilution test may be evaluated only when a measurable amount of analyte is present. Only 27 water or soil sample results were qualified as "J" or "UJ," with a reason code of "A," for an estimated result or RL due to serial dilution test results that were outside control limits.

The number of results qualified is minimal, and these results remain usable as qualified. No results were rejected due to serial dilution test issues, and data usability is not significantly affected.

1.10 LABORATORY CONTROL SAMPLES

Laboratory control samples (LCSs) are synthetic samples prepared and analyzed using the same procedures used for normal field samples. Laboratory control samples are used to further

monitor the analytical process for accuracy. Laboratory control sample duplicates (LCSDs) were also analyzed to measure precision.

Given the number and types of analytes that are measured during the SAIA RI sampling events, it is likely that some of the measurements of the LCS samples will occur outside acceptance parameters. A total of 96 results, encompassing all four types of matrices, have been qualified "J" or "UJ" for an estimated value or RL, with a reason code of "L," due to LCS/LCSD anomalies. No data were rejected due to LCS anomalies.

The results, as qualified, are useable for their intended purposes. The number of results qualified is consistent with what is often found in similarly-sized datasets. Data usability is not significantly affected.

1.11 MATRIX SPIKE SAMPLES

Matrix spike samples are field samples to which analytes of interest have been added to monitor the analytical process. One in 20 samples was identified for matrix spike analysis, representing a 5-percent frequency, for all analytical methods other than most general chemistry methods. A total of 188 results have been qualified as "J" or "UJ," with a reason code of "M" or "D2," for an estimated value or RL due to MS accuracy or precision anomalies. One antimony result was qualified as "R," with a reason code of "M," for a rejected value due to low MS recovery. The details of the rejected datum are presented in Section 2.0.

The estimated results are useable as qualified for their intended purpose. The number of results qualified due to potential matrix interference is minimal, and data usability is not significantly affected. The data usability of the rejected datum is discussed in Section 2.0.

1.12 LABORATORY DUPLICATE SAMPLES

As part of its internal quality control checks for precision measurement, the laboratory analyzes and reports laboratory duplicates. Two trace metals results were qualified as "J," with reason code "D1," for estimated values due to laboratory duplicate imprecision. The number of qualified results is minimal and data usability is not affected.

1.13 INSTRUMENT PERFORMANCE AND INTERFERENCE CHECKS

The validators reviewed the gas chromatography/mass spectrometry (GC/MS) instrument tunes and performance checks for the VOC and SVOC analyses for Tier 3 (S3VEM) validation. Out of 63,151 results, no results were qualified due to instrument performance check anomalies. The inductively coupled plasma/mass spectrometry (ICP/MS) tunes also were reviewed, along with interference checks for both the ICP/MS and ICP instruments. Out of 63,169 results, 29 soil results were qualified as estimated, "J," with reason code "O," for interference check anomalies.

1.14 ANALYTE IDENTIFICATION AND QUANTIFICATION

RLs and MDLs were reported for all methods. Results were reported to the laboratory's MDL. The RLs met the project objectives and achievable quantitation limits (QLs) stipulated in the two SAPs cited in Section 1.0 before corrections for dilutions and percent moisture, with the following exceptions:

- The groundwater samples collected at MW16, MW23B, MW59C, SAIA-MW4B, and MW3 for 1,4-Dioxane were analyzed by GC/MS scan mode, resulting in an RL of 2.0 micrograms per liter (ug/L), exceeding the SAP-stipulated QL of 0.5 ug/L. However, the QL was met by the MDL.
- The quantitation limit (QL) for 1,4-Dioxane of 3.6 micrograms per cubic meter (ug/m^3) was exceeded by the RL of 36 ug/m^3 reported in the soil gas sample results analyzed by H&P. In addition, the reported values exceeded the residential soil gas screening criterion of 18.7 ug/m^3. End users of the data should be aware that low-level detections may be masked by the elevated reporting limit.

For indoor air Radiello samples, validated uptake rates were not available for VOCs 1,1,2-trichloroethane, 1,1-dichloroethane, 1,1-dichloroethene, 1,3,5-trimethylbenzene, cis-1,2-dichloroethene, trans-1,2-dichloroethene and vinyl chloride. The rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. The associated results in the samples have been qualified as "J" or "UJ" for an estimated value or reporting limit, with reason code "X2," in SDGs 16029B, 1504459R1, and 1504309R2, representing 194 results out of 63,151 total results.

For samples analyzed for PCBs by CLP, the percent difference (%D) between the concentrations on two GC columns must be calculated according to the method. The %D for any detected target analyte should be less than 25.0% to have high confidence in the identification. Seven soil results were qualified "J," with reason code "P1," for estimated results due to column

confirmation %D exceedances. Five of the seven results were trace detections and, as such, already were qualified as estimated; thus data usability is not significantly affected.

2.0 REJECTED RESULTS

The data review and validation process identified a total of only 10 results that were rejected due to analytical performance issues. As noted in Section 1.6, nine results were rejected for CCV RRF anomalies:

- Three field sample results for bromomethane (in samples SAIA-MW5A, SAIA-MW5B, and SAIA-MW6C) were qualified as rejected, "R."
- Four field sample results (in samples SAIA-MW9B-0716, MW56-0716, SAIA-MW9C-0716, SAIA-MW10-0716), one field duplicate associated with SAIA-MW9C-0716, and one trip blank result were qualified as "R" for 1,2,4-trichlorobenzene.

As noted in Section 1.10, one antimony result (in sample SAIA-SB12-05) was qualified as rejected, "R," for low matrix spike recovery.

As none of these analytes are chemicals of concern for SAIA, the loss of the rejected results has minimal impact on project decisions. Although the rejected data are not usable, they represent a very small percentage of the dataset (0.01%). Data usability is not significantly affected.

3.0 FIELD DUPLICATES

Approximately one field duplicate was collected for each ten primary samples for each analytical group, and these samples were analyzed for the same parameters as the normal samples. The RI/FS SAP and VI SAP specify that field duplicate results are in agreement when the RPD between the field duplicate result and the normal sample result is less than 35 when the results exceed the RL, or the absolute difference is less than the RL for concentrations near the RL. Sixty-four sample pairs were compared, representing 6,507 result pairs. Of these 6,507 result pairs, only 65 pairs exceeded the RPD goal of 35%. Over half of the exceedances were for metals in soil and were attributable to the generally nonhomogeneous distribution of metals in that matrix. Three additional results with primary or field duplicate results less than one times the RL had absolute differences greater than the RL and were considered out of criteria. As the effect of field duplicate anomalies on data usability is unknown, advisory reason codes of "D5" were applied, but the results were not qualified. A comparison of field duplicate pairs is presented as Attachment D.

It should be noted that in addition to field duplicates, a soil gas split sample was performed for the April 2014 soil and soil gas monitoring event. The split sample evaluation was presented under separate cover in the *Soil and Soil Gas Monitoring Results, April 2014, Southern Avenue Industrial Area Superfund Site Remedial Investigation/Feasibility Study, South Gate, California, Technical Memorandum* (Gilbane, 2015b), and is not further discussed here. (The result comparisons have been removed from the field duplicate summary report in Attachment D.)

4.0 FIELD DEVIATIONS OR CORRECTIVE ACTIONS

The following deviations from the RI/FS SAP and VI SAP were noted for the SAIA RI sampling:

- The trip blank SAIA-RL04-0314 and equipment blank SAIA-EL01-0314 were collected on March 27, 2014, and received by the laboratory in the same cooler on April 2, 2014, at 17 ºC. This resulted in 101 VOCs and 68 SVOCs–in the TB and EB samples only–being qualified "UJ" (includes one acetone "J" trace result) for temperature exceedance. Also, extraction for SVOC analysis exceeded the 7-day technical holding time by 3 days, and all 68 SVOCs in the EB sample were qualified "UJ" for extraction holding time exceedance. Since most of the TB results and all the qualified EB results were non-detects, false negatives may exist.
- The field blank for the 2016 indoor air sampling event was collected improperly, as shown by the dates of exposure on the COC and by the sample's analytical results, indicating that the field blank was deployed for 7 days. As described in EPA Method TO-17, the accepted method for collecting field blanks for sorbent tubes is to uncap and immediately reseal the cartridge designated as the field blank. No usable field blank results were available for this event. The effect on data usability is unknown.

5.0 CONCLUSIONS AND DATA USABILITY

The analytical methods used for the SAIA RI sampling events were selected to provide quality data sufficient to meet data quality objectives, including comparability to historical data, continuity of the Groundwater Monitoring Program, and adherence to the project sensitivity requirements for soil gas and indoor air sampling.

5.1 QUALITY ASSURANCE/QUALITY CONTROL SAMPLES

Field QC samples for this project included field duplicates, field blanks, equipment blanks, and trip blanks. The field QC samples were collected as specified in the RI/FS SAP and the VI SAP. Laboratory QC included precision and accuracy in the form of analysis of MS/MSD pairs, LCSs, laboratory duplicates, post-digestion spikes, serial dilutions, surrogates, and internal standards at the frequencies specified in the discussion of the methods in Section 1.0 of this DQSR.

Precision: Precision is a measure of the repeatability of a single measurement. The precision of the dataset was assessed by evaluating the RPD between primary and duplicate samples (e.g., spike or lab duplicate samples) or between primary and confirmation sample results. The total number of results qualified as estimated for precision anomalies is 31, which represents less than 0.1% of the 63,151 results comprising the dataset.

Accuracy: Accuracy is a measure of recovery of the actual concentration of a compound. The accuracy of the dataset was assessed by the surrogate, internal standard, ICV, CCV, MS/MSD, post-digestion spike, serial dilution, and LCS percent recoveries, and calibration differences or drifts. The total number of results qualified as estimated for one or more accuracy anomalies is 1,662, which represents 2.6% of the 63,151 results comprising the dataset. One antimony and nine VOC results were rejected for CCV or MS/MSD anomalies, representing less than 0.1% of the 63,151 results comprising the dataset. The estimated results remain useable with qualification. The rejected results are not useable.

Representativeness: Representativeness of the dataset is determined by the degree to which the data represent the samples submitted to the laboratory. Holding times, preservation, blank results, and quantitation issues affect the representativeness of a sample. Out of 63,169 total results in the dataset, 1,530, or 2.4%, were qualified as estimated due to representativeness anomalies. No results were rejected due to issues with representativeness. The dataset is therefore considered representative of the samples submitted to the laboratory.

Comparability: The analytical methods used for analysis affect the comparability of the dataset. The methods used for this project are standard, peer-reviewed methods as determined by the RI/FS SAP and the VI SAP. The specific methods are listed in Section 1.0. The analytical methods used provided units of measure and reporting limits similar to SAIA data from previous investigations.

Completeness: The analytical completeness of the dataset is determined by the number of acceptable primary results after data review. Only the results for primary project samples are used in the calculation to determine the completeness of the data. Out of 53,702 primary sample results, 3,688 results, or 6.9%, were qualified as estimated or not detected at the RL for one or more QC reasons. Out of the 3,688 primary results qualified, 1,079 primary results were qualified for trace values only, and 2,609 primary results, or 4.9% of the primary dataset, were qualified for method performance or analytical QC issues. The results as qualified can be used for their intended purposes. Out of 53,702 primary results, 8 results were rejected. Therefore, the completeness of the analytical dataset is 99.99%, which exceeds the complete goal of 95% presented in the two SAPs.

Field completeness is determined by the number of planned samples collected, shipped, and analyzed. Upon receipt by the laboratory, samples were cross-checked with the chain-of-custody documentation for completeness, and entered into the laboratory's data system. A total of 1,084 out of 1,093 planned primary samples were collected, shipped and analyzed. Seven CPT/Hydropunch samples were not collected as no water was encountered at the planned depths

during the March 2013 event. One soil boring at location SAIA-SB/SG26 met refusal before the bottom depth samples at 35 feet could be collected for soil or soil gas. In addition, the soil gas sample at the 25 feet at soil boring location SAIA-SB/SG-28 could not be collected due to clays in the formation. Therefore, the field completeness for the SAIA RI is 99.2%, which meets the completeness goal of 95%.

5.2 CONCLUSION

The data generated in support of the SAIA RI sampling events meet the project objectives. Overall, as shown in the attached validation reports, there were minor quality control deficiencies affecting the data. However, the data qualified as estimated or non-detect are of acceptable quality, and should be considered usable for their intended purposes. The rejected data, while not usable, are of minimal impact to the project.

6.0 REFERENCES

American Public Health Association (APHA), 2005. *Standard Methods for the Examination of Water and Waste Water*, 21st ed.

ITSI Gilbane, 2012. *Final Sampling and Analysis Plan, Remedial Investigation/Feasibility Study, Southern Avenue Industrial Area Superfund Site, South Gate, Los Angeles County, California.*

Gilbane, 2015a. *Final Sampling and Analysis Plan, Vapor Intrusion Evaluation, Southern Avenue Industrial Area Superfund Site, South Gate, Los Angeles County, California*. March.

Gilbane, 2015b. *Soil and Soil Gas Monitoring Results, April 2014, Southern Avenue Industrial Area Superfund Site Remedial Investigation/Feasibility Study, South Gate, California Technical Memorandum.* January.

United States Environmental Protection Agency (EPA), 1983. *Methods for Chemical Analysis of Water and Wastes.*

EPA, 1999. *Compendium of Methods for Determination of Toxic Organic Compounds in Ambient Air.*

EPA, 2005. *Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration*, SOM01.1. May.

EPA, 2007. *Modifications Updating SOM01.1 to SOM01.2*, Amended April 11.

EPA, 2009. *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use.* EPA 540-R-08-005. January.

EPA, 2010. *Contract Laboratory Program Statement of Work for Inorganic Superfund Methods (Multi-Media, Multi-Concentration)* ISM01.2, January, and *Modifications Updating ISM01.2 to ISM01.3.*

EPA, 2017a. *National Functional Guidelines for Inorganic Superfund Methods Data Review.* EPA-540-R-2017-001. January.

EPA, 2017b. *National Functional Guidelines for Organic Superfund Methods Data Review.* EPA-540-R-2017-002. January.

ATTACHMENTS

ATTACHMENT A

STAGE 2A/2B DATA VALIDATION REPORTS

AUTOMATED DATA REVIEW SUMMARY for MY9EA8

Facility: Southern Avenue Industrial Area

Soil Boring Sampling Event, April 2014

Guidance Document:

Contract Laboratory: CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ

Field Contractor:

Data Review Contractor: Gilbane

SDG: MY9EA8, Certified - 5/2/2014 by wtse

QC Level: S1BVEM

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: November 24, 2014

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG MY9EA8

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
E200.7/NONE	16	2
SW7471B/NONE	16	2

AUTOMATED DATA REVIEW SUMMARY for MY9EA8

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Material Blank
- MS RPD
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for MY9EA8

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 28 results (6.76%) out of the 414 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Gilbane reviewed Chemtech lab report, COCs, case narrative, and EXES data review package.

No sample receipt issues or calibration anomalies were noted.

Qualifiers were added for lab blank (B2, B5) detects, field duplicate imprecision (D5), and minor serial dilution (A), interference check (O), and matrix (M) effects.

Negative blank QC outliers were resolved.

24-Nov-2014

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for MY9EA8

AUTOMATED DATA REVIEW SUMMARY for MY9EA8

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70687-CC	PB76212	NA	LABQC	SQ	LABQC	PB76212BS	LB70687-S0	1/1	23-Apr-2014 12:00 PM	23-Apr-2014 12:00 PM	23-Apr-2014 6:32 PM	BS
	PB76212	NA	LABQC	SQ	LABQC	PB76212BL	LB70687-S0	1/1	23-Apr-2014 12:00 PM	23-Apr-2014 12:00 PM	23-Apr-2014 6:28 PM	LB
	PB76212	NA	SAIA-SB/SG21	SO	SAIA-SB21-15	F2060-02	LB70687-S0	1/1	18-Apr-2014 10:40 AM	23-Apr-2014 12:00 PM	23-Apr-2014 6:40 PM	N
	PB76212	NA	SAIA-SB/SG21	SO	SAIA-SB21-16	F2060-03	LB70687-S0	1/1	18-Apr-2014 10:45 AM	23-Apr-2014 12:00 PM	23-Apr-2014 6:44 PM	FD
	PB76212	NA	SAIA-SB/SG21	SO	SAIA-SB21-25	F2060-04	LB70687-S0	1/1	18-Apr-2014 10:55 AM	23-Apr-2014 12:00 PM	23-Apr-2014 6:48 PM	N
	PB76212	NA	SAIA-SB/SG21	SO	SAIA-SB21-35	F2060-05	LB70687-S0	1/1	18-Apr-2014 11:05 AM	23-Apr-2014 12:00 PM	23-Apr-2014 6:51 PM	N
	PB76212	NA	SAIA-SB/SG21	SO	SAIA-SB21-5	F2060-01	LB70687-S0	1/1	18-Apr-2014 10:10 AM	23-Apr-2014 12:00 PM	23-Apr-2014 6:36 PM	N
	PB76212	NA	SAIA-SB/SG22	SO	SAIA-SB22-0.5	F2060-06	LB70687-S0	1/1	18-Apr-2014 12:05 PM	23-Apr-2014 12:00 PM	23-Apr-2014 6:55 PM	N
	PB76212	NA	SAIA-SB/SG22	SO	SAIA-SB22-15	F2060-11	LB70687-S0	1/1	18-Apr-2014 12:30 PM	23-Apr-2014 12:00 PM	23-Apr-2014 7:28 PM	N
	PB76212	NA	SAIA-SB/SG22	SO	SAIA-SB22-2	F2060-08	LB70687-S0	1/1	18-Apr-2014 12:10 PM	23-Apr-2014 12:00 PM	23-Apr-2014 7:03 PM	LR
	PB76212	NA	SAIA-SB/SG22	SO	SAIA-SB22-2	F2060-09	LB70687-S0	1/1	18-Apr-2014 12:10 PM	23-Apr-2014 12:00 PM	23-Apr-2014 7:07 PM	MS
	PB76212	NA	SAIA-SB/SG22	SO	SAIA-SB22-2	F2060-07	LB70687-S0	1/1	18-Apr-2014 12:10 PM	23-Apr-2014 12:00 PM	23-Apr-2014 6:59 PM	N
	PB76212	NA	SAIA-SB/SG22	SO	SAIA-SB22-25	F2060-12	LB70687-S0	1/1	18-Apr-2014 12:40 PM	23-Apr-2014 12:00 PM	23-Apr-2014 7:31 PM	N
	PB76212	NA	SAIA-SB/SG22	SO	SAIA-SB22-35	F2060-13	LB70687-S0	1/1	18-Apr-2014 12:50 PM	23-Apr-2014 12:00 PM	23-Apr-2014 7:35 PM	N
	PB76212	NA	SAIA-SB/SG22	SO	SAIA-SB22-5	F2060-10	LB70687-S0	1/1	18-Apr-2014 12:15 PM	23-Apr-2014 12:00 PM	23-Apr-2014 7:24 PM	N
	PB76212	NA	SAIA-SB/SG35	SO	SAIA-SB35-0.5	F2060-14	LB70687-S0	1/1	18-Apr-2014 7:05 AM	23-Apr-2014 12:00 PM	23-Apr-2014 7:39 PM	N
	PB76212	NA	SAIA-SB/SG35	SO	SAIA-SB35-15	F2060-18	LB70687-S0	1/1	18-Apr-2014 7:40 AM	23-Apr-2014 12:00 PM	23-Apr-2014 7:55 PM	N
	PB76212	NA	SAIA-SB/SG35	SO	SAIA-SB35-2	F2060-15	LB70687-S0	1/1	18-Apr-2014 7:10 AM	23-Apr-2014 12:00 PM	23-Apr-2014 7:43 PM	N
	PB76212	NA	SAIA-SB/SG35	SO	SAIA-SB35-25	F2060-19	LB70687-S0	1/1	18-Apr-2014 7:50 AM	23-Apr-2014 12:00 PM	23-Apr-2014 7:59 PM	N
	PB76212	NA	SAIA-SB/SG35	SO	SAIA-SB35-3	F2060-16	LB70687-S0	1/1	18-Apr-2014 7:15 AM	23-Apr-2014 12:00 PM	23-Apr-2014 7:47 PM	FD
	PB76212	NA	SAIA-SB/SG35	SO	SAIA-SB35-35	F2060-20	LB70687-S0	1/1	18-Apr-2014 8:00 AM	23-Apr-2014 12:00 PM	23-Apr-2014 8:03 PM	N
	PB76212	NA	SAIA-SB/SG35	SO	SAIA-SB35-5	F2060-17	LB70687-S0	1/1	18-Apr-2014 7:20 AM	23-Apr-2014 12:00 PM	23-Apr-2014 7:51 PM	N

AUTOMATED DATA REVIEW SUMMARY for MY9EA8

Batch Report

Test Method: SW7471B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70688-CC	PB76213	NA	LABQC	SQ	LABQC	PB76213BL	LB70688-S0	1/1	23-Apr-2014 12:00 PM	23-Apr-2014 12:00 PM	24-Apr-2014 10:18 AM	LB
	PB76213	NA	SAIA-SB/SG21	SO	SAIA-SB21-15	F2060-02	LB70688-S0	1/1	18-Apr-2014 10:40 AM	23-Apr-2014 12:00 PM	24-Apr-2014 10:22 AM	N
	PB76213	NA	SAIA-SB/SG21	SO	SAIA-SB21-16	F2060-03	LB70688-S0	1/1	18-Apr-2014 10:45 AM	23-Apr-2014 12:00 PM	24-Apr-2014 10:24 AM	FD
	PB76213	NA	SAIA-SB/SG21	SO	SAIA-SB21-25	F2060-04	LB70688-S0	1/1	18-Apr-2014 10:55 AM	23-Apr-2014 12:00 PM	24-Apr-2014 10:26 AM	N
	PB76213	NA	SAIA-SB/SG21	SO	SAIA-SB21-35	F2060-05	LB70688-S0	1/1	18-Apr-2014 11:05 AM	23-Apr-2014 12:00 PM	24-Apr-2014 10:28 AM	N
	PB76213	NA	SAIA-SB/SG21	SO	SAIA-SB21-5	F2060-01	LB70688-S0	1/1	18-Apr-2014 10:10 AM	23-Apr-2014 12:00 PM	24-Apr-2014 10:20 AM	N
	PB76213	NA	SAIA-SB/SG22	SO	SAIA-SB22-0.5	F2060-06	LB70688-S0	1/1	18-Apr-2014 12:05 PM	23-Apr-2014 12:00 PM	24-Apr-2014 10:31 AM	N
	PB76213	NA	SAIA-SB/SG22	SO	SAIA-SB22-15	F2060-11	LB70688-S0	1/1	18-Apr-2014 12:30 PM	23-Apr-2014 12:00 PM	24-Apr-2014 10:41 AM	N
	PB76213	NA	SAIA-SB/SG22	SO	SAIA-SB22-2	F2060-08	LB70688-S0	1/1	18-Apr-2014 12:10 PM	23-Apr-2014 12:00 PM	24-Apr-2014 10:35 AM	LR
	PB76213	NA	SAIA-SB/SG22	SO	SAIA-SB22-2	F2060-09	LB70688-S0	1/1	18-Apr-2014 12:10 PM	23-Apr-2014 12:00 PM	24-Apr-2014 10:37 AM	MS
	PB76213	NA	SAIA-SB/SG22	SO	SAIA-SB22-2	F2060-07	LB70688-S0	1/1	18-Apr-2014 12:10 PM	23-Apr-2014 12:00 PM	24-Apr-2014 10:33 AM	N
	PB76213	NA	SAIA-SB/SG22	SO	SAIA-SB22-25	F2060-12	LB70688-S0	1/1	18-Apr-2014 12:40 PM	23-Apr-2014 12:00 PM	24-Apr-2014 10:44 AM	N
	PB76213	NA	SAIA-SB/SG22	SO	SAIA-SB22-35	F2060-13	LB70688-S0	1/1	18-Apr-2014 12:50 PM	23-Apr-2014 12:00 PM	24-Apr-2014 10:46 AM	N
	PB76213	NA	SAIA-SB/SG22	SO	SAIA-SB22-5	F2060-10	LB70688-S0	1/1	18-Apr-2014 12:15 PM	23-Apr-2014 12:00 PM	24-Apr-2014 10:39 AM	N
	PB76213	NA	SAIA-SB/SG35	SO	SAIA-SB35-0.5	F2060-14	LB70688-S0	1/1	18-Apr-2014 7:05 AM	23-Apr-2014 12:00 PM	24-Apr-2014 10:48 AM	N
	PB76213	NA	SAIA-SB/SG35	SO	SAIA-SB35-15	F2060-18	LB70688-S0	1/1	18-Apr-2014 7:40 AM	23-Apr-2014 12:00 PM	24-Apr-2014 10:56 AM	N
	PB76213	NA	SAIA-SB/SG35	SO	SAIA-SB35-2	F2060-15	LB70688-S0	1/1	18-Apr-2014 7:10 AM	23-Apr-2014 12:00 PM	24-Apr-2014 10:50 AM	N
	PB76213	NA	SAIA-SB/SG35	SO	SAIA-SB35-25	F2060-19	LB70688-S0	1/1	18-Apr-2014 7:50 AM	23-Apr-2014 12:00 PM	24-Apr-2014 10:59 AM	N
	PB76213	NA	SAIA-SB/SG35	SO	SAIA-SB35-3	F2060-16	LB70688-S0	1/1	18-Apr-2014 7:15 AM	23-Apr-2014 12:00 PM	24-Apr-2014 10:52 AM	FD
	PB76213	NA	SAIA-SB/SG35	SO	SAIA-SB35-35	F2060-20	LB70688-S0	1/1	18-Apr-2014 8:00 AM	23-Apr-2014 12:00 PM	24-Apr-2014 11:05 AM	N
	PB76213	NA	SAIA-SB/SG35	SO	SAIA-SB35-5	F2060-17	LB70688-S0	1/1	18-Apr-2014 7:20 AM	23-Apr-2014 12:00 PM	24-Apr-2014 10:54 AM	N

AUTOMATED DATA REVIEW SUMMARY for MY9EA8

Field Batch Report

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9EA8

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
E200.7 / METHOD	Blank - Negative	PB76212BL (LB)	1 / 1.00	Lead	-0.170	mg/kg	J/UJ	< 0.16	< 1	L1			
E200.7 / METHOD	MS Recovery	SAIA-SB22-2 (MS)	1 / 1.00	Antimony	53.5	Percent	J/UJ	75 - 125	50 - 140	M			
E200.7 / METHOD	MS Recovery	SAIA-SB22-2 (MS)	1 / 1.00	Thallium	55.9	Percent	J/UJ	75 - 125	50 - 140	M			
SW7471B / METHOD	Blank - Negative	PB76213BL (LB)	1 / 1.00	Mercury	-0.00660	mg/kg	J/UJ	< 0.002	< 0.1	L1			

AUTOMATED DATA REVIEW SUMMARY for MY9EA8

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB21-15	N	Antimony	4.9	0.82 JN	0.82 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-15	N	Chromium	0.82	40.5 E	40.5 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB21-16	FD	Antimony	5.2	0.76 JN	0.76 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-16	FD	Chromium	0.86	79.4 E	79.4 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB21-16	FD	Sodium	432	412 J	412 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-25	N	Antimony	5.0	1.2 JN	1.2 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-25	N	Cadmium	0.42	0.14 J	0.14 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-25	N	Sodium	421	383 J	383 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-35	N	Antimony	4.9	0.48 JN	0.48 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-35	N	Beryllium	0.41	0.39 J	0.39 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-35	N	Cadmium	0.41	0.020 J	0.020 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-35	N	Selenium	2.9	2.8 J	2.8 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-35	N	Sodium	411	292 J	292 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-5	N	Antimony	5.0	0.59 JN	0.59 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-5	N	Cadmium	0.41	0.38 J	0.38 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-5	N	Sodium	413	321 J	321 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-0.5	N	Antimony	4.9	0.55 JN	0.55 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-0.5	N	Cadmium	0.41	0.18 J	0.18 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-0.5	N	Sodium	411	305 J	305 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-15	N	Antimony	4.6	0.55 JN	0.55 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-15	N	Cadmium	0.39	0.19 J	0.19 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-2	N	Antimony	5.0	0.71 JN	0.71 J	mg/kg	M/TR
E200.7/NONE	SO	SAIA-SB22-2	N	Cadmium	0.41	0.18 J	0.18 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-2	N	Calcium	413	6940 E	6940 J	mg/kg	A
E200.7/NONE	SO	SAIA-SB22-2	N	Chromium	0.83	19.2 E	19.2 J	mg/kg	A
E200.7/NONE	SO	SAIA-SB22-2	N	Iron	8.3	24500 E	24500 J	mg/kg	A
E200.7/NONE	SO	SAIA-SB22-2	N	Manganese	1.2	349 E	349 J	mg/kg	A

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB22-2	N	Potassium	413	5550	5550 J	mg/kg	O
E200.7/NONE	SO	SAIA-SB22-2	N	Sodium	413	316 J	316 J	mg/kg	TR/O
E200.7/NONE	SO	SAIA-SB22-2	N	Thallium	2.1	2.1 UN	2.1 UJ	mg/kg	M/B2
E200.7/NONE	SO	SAIA-SB22-2	N	Vanadium	4.1	45.8 E	45.8 J	mg/kg	A
E200.7/NONE	SO	SAIA-SB22-25	N	Antimony	5.9	0.80 JN	0.80 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-25	N	Cadmium	0.49	0.34 J	0.34 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-35	N	Antimony	4.8	0.43 JN	0.43 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-35	N	Beryllium	0.40	0.33 J	0.33 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-35	N	Cadmium	0.40	0.040 J	0.040 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-35	N	Selenium	2.8	2.4 J	2.4 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-35	N	Sodium	396	308 J	308 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-5	N	Antimony	5.1	0.69 JN	0.69 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-5	N	Cadmium	0.43	0.22 J	0.22 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-5	N	Sodium	428	326 J	326 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-0.5	N	Antimony	4.5	0.92 JN	0.92 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-0.5	N	Cadmium	0.38	0.29 J	0.29 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-0.5	N	Sodium	378	324 J	324 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-15	N	Antimony	4.6	0.59 JN	0.59 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-15	N	Cadmium	0.39	0.17 J	0.17 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-2	N	Antimony	4.7	0.69 JN	0.69 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-2	N	Cadmium	0.39	0.21 J	0.21 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-2	N	Sodium	390	299 J	299 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-25	N	Antimony	5.4	0.58 JN	0.58 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-25	N	Cadmium	0.45	0.23 J	0.23 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-3	FD	Antimony	5.1	0.69 JN	0.69 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-3	FD	Cadmium	0.42	0.22 J	0.22 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-3	FD	Sodium	422	334 J	334 J	mg/kg	TR

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB35-35	N	Antimony	4.3	0.39 JN	0.39 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-35	N	Beryllium	0.36	0.24 J	0.24 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-35	N	Cadmium	0.36	0.020 J	0.020 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-35	N	Selenium	2.5	2.1 J	2.1 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-5	N	Antimony	5.0	0.65 JN	0.65 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-5	N	Cadmium	0.42	0.18 J	0.18 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-5	N	Sodium	415	388 J	388 J	mg/kg	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	SAIA-SB21-15	N	Mercury	0.10	0.10 J	0.10 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB21-16	FD	Mercury	0.098	0.098 J	0.098 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB21-25	N	Mercury	0.10	0.10 J	0.10 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB21-35	N	Mercury	0.10	0.10 J	0.10 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB21-5	N	Mercury	0.11	0.11 J	0.11 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB22-0.5	N	Mercury	0.10	0.10 J	0.10 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB22-2	N	Mercury	0.11	0.11 J	0.11 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB22-25	N	Mercury	0.12	0.12 J	0.12 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB22-35	N	Mercury	0.093	0.093 J	0.093 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB22-5	N	Mercury	0.11	0.11 J	0.11 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB35-0.5	N	Mercury	0.10	0.10 J	0.10 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB35-15	N	Mercury	0.095	0.095 J	0.095 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB35-2	N	Mercury	0.11	0.11 J	0.11 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB35-25	N	Mercury	0.10	0.10 J	0.10 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB35-3	FD	Mercury	0.10	0.10 J	0.10 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB35-35	N	Mercury	0.10	0.10 J	0.10 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB35-5	N	Mercury	0.10	0.10 J	0.10 U	mg/kg	B2

AUTOMATED DATA REVIEW SUMMARY for MY9EA8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB21-15	N	Aluminum	16.3	14900	14900	mg/kg	
E200.7/NONE	SO	SAIA-SB21-15	N	Arsenic	0.82	4.2	4.2	mg/kg	
E200.7/NONE	SO	SAIA-SB21-15	N	Barium	16.3	142	142	mg/kg	
E200.7/NONE	SO	SAIA-SB21-15	N	Beryllium	0.41	0.57	0.57	mg/kg	
E200.7/NONE	SO	SAIA-SB21-15	N	Calcium	408	9990 E	9990	mg/kg	
E200.7/NONE	SO	SAIA-SB21-15	N	Cadmium	0.41	0.59	0.59	mg/kg	
E200.7/NONE	SO	SAIA-SB21-15	N	Cobalt	4.1	11.2	11.2	mg/kg	
E200.7/NONE	SO	SAIA-SB21-15	N	Chromium	0.82	40.5 E	40.5 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB21-15	N	Copper	2.0	53.8	53.8	mg/kg	
E200.7/NONE	SO	SAIA-SB21-15	N	Iron	8.2	31300 E	31300	mg/kg	
E200.7/NONE	SO	SAIA-SB21-15	N	Potassium	408	4390	4390	mg/kg	
E200.7/NONE	SO	SAIA-SB21-15	N	Magnesium	408	7840	7840	mg/kg	
E200.7/NONE	SO	SAIA-SB21-15	N	Manganese	1.2	461 E	461	mg/kg	
E200.7/NONE	SO	SAIA-SB21-15	N	Sodium	408	427	427	mg/kg	
E200.7/NONE	SO	SAIA-SB21-15	N	Nickel	3.3	30.3	30.3	mg/kg	
E200.7/NONE	SO	SAIA-SB21-15	N	Lead	0.82	7.7	7.7	mg/kg	
E200.7/NONE	SO	SAIA-SB21-15	N	Antimony	4.9	0.82 JN	0.82 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-15	N	Selenium	2.9	4.8	4.8	mg/kg	
E200.7/NONE	SO	SAIA-SB21-15	N	Vanadium	4.1	44.9 E	44.9	mg/kg	
E200.7/NONE	SO	SAIA-SB21-15	N	Zinc	4.9	74.8	74.8	mg/kg	
E200.7/NONE	SO	SAIA-SB21-16	FD	Aluminum	17.3	14500	14500	mg/kg	
E200.7/NONE	SO	SAIA-SB21-16	FD	Arsenic	0.86	3.9	3.9	mg/kg	
E200.7/NONE	SO	SAIA-SB21-16	FD	Barium	17.3	137	137	mg/kg	
E200.7/NONE	SO	SAIA-SB21-16	FD	Beryllium	0.43	0.60	0.60	mg/kg	
E200.7/NONE	SO	SAIA-SB21-16	FD	Calcium	432	9420 E	9420	mg/kg	
E200.7/NONE	SO	SAIA-SB21-16	FD	Cadmium	0.43	0.87	0.87	mg/kg	
E200.7/NONE	SO	SAIA-SB21-16	FD	Cobalt	4.3	10.8	10.8	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EA8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB21-16	FD	Chromium	0.86	79.4 E	79.4 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB21-16	FD	Copper	2.2	74.4	74.4	mg/kg	
E200.7/NONE	SO	SAIA-SB21-16	FD	Iron	8.6	29600 E	29600	mg/kg	
E200.7/NONE	SO	SAIA-SB21-16	FD	Potassium	432	4390	4390	mg/kg	
E200.7/NONE	SO	SAIA-SB21-16	FD	Magnesium	432	7760	7760	mg/kg	
E200.7/NONE	SO	SAIA-SB21-16	FD	Manganese	1.3	434 E	434	mg/kg	
E200.7/NONE	SO	SAIA-SB21-16	FD	Sodium	432	412 J	412 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-16	FD	Nickel	3.5	43.6	43.6	mg/kg	
E200.7/NONE	SO	SAIA-SB21-16	FD	Lead	0.86	9.7	9.7	mg/kg	
E200.7/NONE	SO	SAIA-SB21-16	FD	Antimony	5.2	0.76 JN	0.76 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-16	FD	Selenium	3.0	5.2	5.2	mg/kg	
E200.7/NONE	SO	SAIA-SB21-16	FD	Vanadium	4.3	47.9 E	47.9	mg/kg	
E200.7/NONE	SO	SAIA-SB21-16	FD	Zinc	5.2	88.3	88.3	mg/kg	
E200.7/NONE	SO	SAIA-SB21-25	N	Aluminum	16.8	16900	16900	mg/kg	
E200.7/NONE	SO	SAIA-SB21-25	N	Arsenic	0.84	11.9	11.9	mg/kg	
E200.7/NONE	SO	SAIA-SB21-25	N	Barium	16.8	202	202	mg/kg	
E200.7/NONE	SO	SAIA-SB21-25	N	Beryllium	0.42	0.66	0.66	mg/kg	
E200.7/NONE	SO	SAIA-SB21-25	N	Calcium	421	21200 E	21200	mg/kg	
E200.7/NONE	SO	SAIA-SB21-25	N	Cadmium	0.42	0.14 J	0.14 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-25	N	Cobalt	4.2	13.7	13.7	mg/kg	
E200.7/NONE	SO	SAIA-SB21-25	N	Chromium	0.84	28.2 E	28.2	mg/kg	
E200.7/NONE	SO	SAIA-SB21-25	N	Copper	2.1	32.6	32.6	mg/kg	
E200.7/NONE	SO	SAIA-SB21-25	N	Iron	8.4	30200 E	30200	mg/kg	
E200.7/NONE	SO	SAIA-SB21-25	N	Potassium	421	4400	4400	mg/kg	
E200.7/NONE	SO	SAIA-SB21-25	N	Magnesium	421	10600	10600	mg/kg	
E200.7/NONE	SO	SAIA-SB21-25	N	Manganese	1.3	624 E	624	mg/kg	
E200.7/NONE	SO	SAIA-SB21-25	N	Sodium	421	383 J	383 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9EA8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB21-25	N	Nickel	3.4	24.3	24.3	mg/kg	
E200.7/NONE	SO	SAIA-SB21-25	N	Lead	0.84	6.4	6.4	mg/kg	
E200.7/NONE	SO	SAIA-SB21-25	N	Antimony	5.0	1.2 JN	1.2 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-25	N	Selenium	2.9	4.4	4.4	mg/kg	
E200.7/NONE	SO	SAIA-SB21-25	N	Vanadium	4.2	50.9 E	50.9	mg/kg	
E200.7/NONE	SO	SAIA-SB21-25	N	Zinc	5.0	65.4	65.4	mg/kg	
E200.7/NONE	SO	SAIA-SB21-35	N	Aluminum	16.4	9200	9200	mg/kg	
E200.7/NONE	SO	SAIA-SB21-35	N	Arsenic	0.82	20.6	20.6	mg/kg	
E200.7/NONE	SO	SAIA-SB21-35	N	Barium	16.4	95.8	95.8	mg/kg	
E200.7/NONE	SO	SAIA-SB21-35	N	Beryllium	0.41	0.39 J	0.39 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-35	N	Calcium	411	4640 E	4640	mg/kg	
E200.7/NONE	SO	SAIA-SB21-35	N	Cadmium	0.41	0.020 J	0.020 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-35	N	Cobalt	4.1	6.9	6.9	mg/kg	
E200.7/NONE	SO	SAIA-SB21-35	N	Chromium	0.82	11.9 E	11.9	mg/kg	
E200.7/NONE	SO	SAIA-SB21-35	N	Copper	2.1	11.5	11.5	mg/kg	
E200.7/NONE	SO	SAIA-SB21-35	N	Iron	8.2	18200 E	18200	mg/kg	
E200.7/NONE	SO	SAIA-SB21-35	N	Potassium	411	2850	2850	mg/kg	
E200.7/NONE	SO	SAIA-SB21-35	N	Magnesium	411	5520	5520	mg/kg	
E200.7/NONE	SO	SAIA-SB21-35	N	Manganese	1.2	275 E	275	mg/kg	
E200.7/NONE	SO	SAIA-SB21-35	N	Sodium	411	292 J	292 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-35	N	Nickel	3.3	8.0	8.0	mg/kg	
E200.7/NONE	SO	SAIA-SB21-35	N	Lead	0.82	2.2	2.2	mg/kg	
E200.7/NONE	SO	SAIA-SB21-35	N	Antimony	4.9	0.48 JN	0.48 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-35	N	Selenium	2.9	2.8 J	2.8 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-35	N	Vanadium	4.1	39.8 E	39.8	mg/kg	
E200.7/NONE	SO	SAIA-SB21-35	N	Zinc	4.9	37.1	37.1	mg/kg	
E200.7/NONE	SO	SAIA-SB21-5	N	Aluminum	16.5	13500	13500	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EA8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB21-5	N	Arsenic	0.83	3.0	3.0	mg/kg	
E200.7/NONE	SO	SAIA-SB21-5	N	Barium	16.5	118	118	mg/kg	
E200.7/NONE	SO	SAIA-SB21-5	N	Beryllium	0.41	0.51	0.51	mg/kg	
E200.7/NONE	SO	SAIA-SB21-5	N	Calcium	413	8360 E	8360	mg/kg	
E200.7/NONE	SO	SAIA-SB21-5	N	Cadmium	0.41	0.38 J	0.38 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-5	N	Cobalt	4.1	9.2	9.2	mg/kg	
E200.7/NONE	SO	SAIA-SB21-5	N	Chromium	0.83	30.2 E	30.2	mg/kg	
E200.7/NONE	SO	SAIA-SB21-5	N	Copper	2.1	40.9	40.9	mg/kg	
E200.7/NONE	SO	SAIA-SB21-5	N	Iron	8.3	22300 E	22300	mg/kg	
E200.7/NONE	SO	SAIA-SB21-5	N	Potassium	413	3500	3500	mg/kg	
E200.7/NONE	SO	SAIA-SB21-5	N	Magnesium	413	6430	6430	mg/kg	
E200.7/NONE	SO	SAIA-SB21-5	N	Manganese	1.2	395 E	395	mg/kg	
E200.7/NONE	SO	SAIA-SB21-5	N	Sodium	413	321 J	321 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-5	N	Nickel	3.3	43.6	43.6	mg/kg	
E200.7/NONE	SO	SAIA-SB21-5	N	Lead	0.83	5.0	5.0	mg/kg	
E200.7/NONE	SO	SAIA-SB21-5	N	Antimony	5.0	0.59 JN	0.59 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-5	N	Selenium	2.9	3.2	3.2	mg/kg	
E200.7/NONE	SO	SAIA-SB21-5	N	Vanadium	4.1	40.8 E	40.8	mg/kg	
E200.7/NONE	SO	SAIA-SB21-5	N	Zinc	5.0	54.3	54.3	mg/kg	
E200.7/NONE	SO	SAIA-SB22-0.5	N	Aluminum	16.5	13400	13400	mg/kg	
E200.7/NONE	SO	SAIA-SB22-0.5	N	Arsenic	0.82	2.0	2.0	mg/kg	
E200.7/NONE	SO	SAIA-SB22-0.5	N	Barium	16.5	131	131	mg/kg	
E200.7/NONE	SO	SAIA-SB22-0.5	N	Beryllium	0.41	0.47	0.47	mg/kg	
E200.7/NONE	SO	SAIA-SB22-0.5	N	Calcium	411	7060 E	7060	mg/kg	
E200.7/NONE	SO	SAIA-SB22-0.5	N	Cadmium	0.41	0.18 J	0.18 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-0.5	N	Cobalt	4.1	9.6	9.6	mg/kg	
E200.7/NONE	SO	SAIA-SB22-0.5	N	Chromium	0.82	19.1 E	19.1	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB22-0.5	N	Copper	2.1	76.2	76.2	mg/kg	
E200.7/NONE	SO	SAIA-SB22-0.5	N	Iron	8.2	22500 E	22500	mg/kg	
E200.7/NONE	SO	SAIA-SB22-0.5	N	Potassium	411	5190	5190	mg/kg	
E200.7/NONE	SO	SAIA-SB22-0.5	N	Magnesium	411	7420	7420	mg/kg	
E200.7/NONE	SO	SAIA-SB22-0.5	N	Manganese	1.2	330 E	330	mg/kg	
E200.7/NONE	SO	SAIA-SB22-0.5	N	Sodium	411	305 J	305 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-0.5	N	Nickel	3.3	13.3	13.3	mg/kg	
E200.7/NONE	SO	SAIA-SB22-0.5	N	Lead	0.82	12.0	12.0	mg/kg	
E200.7/NONE	SO	SAIA-SB22-0.5	N	Antimony	4.9	0.55 JN	0.55 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-0.5	N	Selenium	2.9	3.4	3.4	mg/kg	
E200.7/NONE	SO	SAIA-SB22-0.5	N	Vanadium	4.1	43.9 E	43.9	mg/kg	
E200.7/NONE	SO	SAIA-SB22-0.5	N	Zinc	4.9	65.1	65.1	mg/kg	
E200.7/NONE	SO	SAIA-SB22-15	N	Aluminum	15.5	13100	13100	mg/kg	
E200.7/NONE	SO	SAIA-SB22-15	N	Arsenic	0.77	3.6	3.6	mg/kg	
E200.7/NONE	SO	SAIA-SB22-15	N	Barium	15.5	122	122	mg/kg	
E200.7/NONE	SO	SAIA-SB22-15	N	Beryllium	0.39	0.49	0.49	mg/kg	
E200.7/NONE	SO	SAIA-SB22-15	N	Calcium	387	9740 E	9740	mg/kg	
E200.7/NONE	SO	SAIA-SB22-15	N	Cadmium	0.39	0.19 J	0.19 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-15	N	Cobalt	3.9	9.1	9.1	mg/kg	
E200.7/NONE	SO	SAIA-SB22-15	N	Chromium	0.77	19.2 E	19.2	mg/kg	
E200.7/NONE	SO	SAIA-SB22-15	N	Copper	1.9	60.9	60.9	mg/kg	
E200.7/NONE	SO	SAIA-SB22-15	N	Iron	7.7	22600 E	22600	mg/kg	
E200.7/NONE	SO	SAIA-SB22-15	N	Potassium	387	4100	4100	mg/kg	
E200.7/NONE	SO	SAIA-SB22-15	N	Magnesium	387	7290	7290	mg/kg	
E200.7/NONE	SO	SAIA-SB22-15	N	Manganese	1.2	410 E	410	mg/kg	
E200.7/NONE	SO	SAIA-SB22-15	N	Sodium	387	405	405	mg/kg	
E200.7/NONE	SO	SAIA-SB22-15	N	Nickel	3.1	12.9	12.9	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EA8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB22-15	N	Lead	0.77	7.7	7.7	mg/kg	
E200.7/NONE	SO	SAIA-SB22-15	N	Antimony	4.6	0.55 JN	0.55 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-15	N	Selenium	2.7	3.3	3.3	mg/kg	
E200.7/NONE	SO	SAIA-SB22-15	N	Vanadium	3.9	42.7 E	42.7	mg/kg	
E200.7/NONE	SO	SAIA-SB22-15	N	Zinc	4.6	60.7	60.7	mg/kg	
E200.7/NONE	SO	SAIA-SB22-2	N	Aluminum	16.5	14200	14200	mg/kg	
E200.7/NONE	SO	SAIA-SB22-2	N	Arsenic	0.83	2.1	2.1	mg/kg	
E200.7/NONE	SO	SAIA-SB22-2	N	Barium	16.5	144	144	mg/kg	
E200.7/NONE	SO	SAIA-SB22-2	N	Beryllium	0.41	0.49	0.49	mg/kg	
E200.7/NONE	SO	SAIA-SB22-2	N	Calcium	413	6940 E	6940 J	mg/kg	A
E200.7/NONE	SO	SAIA-SB22-2	N	Cadmium	0.41	0.18 J	0.18 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-2	N	Cobalt	4.1	10.3	10.3	mg/kg	
E200.7/NONE	SO	SAIA-SB22-2	N	Chromium	0.83	19.2 E	19.2 J	mg/kg	A
E200.7/NONE	SO	SAIA-SB22-2	N	Copper	2.1	28.1	28.1	mg/kg	
E200.7/NONE	SO	SAIA-SB22-2	N	Iron	8.3	24500 E	24500 J	mg/kg	A
E200.7/NONE	SO	SAIA-SB22-2	N	Potassium	413	5550	5550 J	mg/kg	O
E200.7/NONE	SO	SAIA-SB22-2	N	Magnesium	413	7960	7960	mg/kg	
E200.7/NONE	SO	SAIA-SB22-2	N	Manganese	1.2	349 E	349 J	mg/kg	A
E200.7/NONE	SO	SAIA-SB22-2	N	Sodium	413	316 J	316 J	mg/kg	TR/O
E200.7/NONE	SO	SAIA-SB22-2	N	Nickel	3.3	14.0	14.0	mg/kg	
E200.7/NONE	SO	SAIA-SB22-2	N	Lead	0.83	6.2	6.2	mg/kg	
E200.7/NONE	SO	SAIA-SB22-2	N	Antimony	5.0	0.71 JN	0.71 J	mg/kg	M/TR
E200.7/NONE	SO	SAIA-SB22-2	N	Selenium	2.9	3.7	3.7	mg/kg	
E200.7/NONE	SO	SAIA-SB22-2	N	Vanadium	4.1	45.8 E	45.8 J	mg/kg	A
E200.7/NONE	SO	SAIA-SB22-2	N	Zinc	5.0	63.4	63.4	mg/kg	
E200.7/NONE	SO	SAIA-SB22-25	N	Aluminum	19.7	23500	23500	mg/kg	
E200.7/NONE	SO	SAIA-SB22-25	N	Arsenic	0.99	5.1	5.1	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EA8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB22-25	N	Barium	19.7	203	203	mg/kg	
E200.7/NONE	SO	SAIA-SB22-25	N	Beryllium	0.49	0.89	0.89	mg/kg	
E200.7/NONE	SO	SAIA-SB22-25	N	Calcium	493	10700 E	10700	mg/kg	
E200.7/NONE	SO	SAIA-SB22-25	N	Cadmium	0.49	0.34 J	0.34 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-25	N	Cobalt	4.9	14.9	14.9	mg/kg	
E200.7/NONE	SO	SAIA-SB22-25	N	Chromium	0.99	27.7 E	27.7	mg/kg	
E200.7/NONE	SO	SAIA-SB22-25	N	Copper	2.5	35.9	35.9	mg/kg	
E200.7/NONE	SO	SAIA-SB22-25	N	Iron	9.9	31900 E	31900	mg/kg	
E200.7/NONE	SO	SAIA-SB22-25	N	Potassium	493	5160	5160	mg/kg	
E200.7/NONE	SO	SAIA-SB22-25	N	Magnesium	493	11400	11400	mg/kg	
E200.7/NONE	SO	SAIA-SB22-25	N	Manganese	1.5	459 E	459	mg/kg	
E200.7/NONE	SO	SAIA-SB22-25	N	Sodium	493	648	648	mg/kg	
E200.7/NONE	SO	SAIA-SB22-25	N	Nickel	3.9	21.9	21.9	mg/kg	
E200.7/NONE	SO	SAIA-SB22-25	N	Lead	0.99	7.1	7.1	mg/kg	
E200.7/NONE	SO	SAIA-SB22-25	N	Antimony	5.9	0.80 JN	0.80 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-25	N	Selenium	3.5	4.4	4.4	mg/kg	
E200.7/NONE	SO	SAIA-SB22-25	N	Vanadium	4.9	64.4 E	64.4	mg/kg	
E200.7/NONE	SO	SAIA-SB22-25	N	Zinc	5.9	73.8	73.8	mg/kg	
E200.7/NONE	SO	SAIA-SB22-35	N	Aluminum	15.8	8810	8810	mg/kg	
E200.7/NONE	SO	SAIA-SB22-35	N	Arsenic	0.79	19.2	19.2	mg/kg	
E200.7/NONE	SO	SAIA-SB22-35	N	Barium	15.8	88.8	88.8	mg/kg	
E200.7/NONE	SO	SAIA-SB22-35	N	Beryllium	0.40	0.33 J	0.33 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-35	N	Calcium	396	4750 E	4750	mg/kg	
E200.7/NONE	SO	SAIA-SB22-35	N	Cadmium	0.40	0.040 J	0.040 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-35	N	Cobalt	4.0	6.3	6.3	mg/kg	
E200.7/NONE	SO	SAIA-SB22-35	N	Chromium	0.79	11.3 E	11.3	mg/kg	
E200.7/NONE	SO	SAIA-SB22-35	N	Copper	2.0	10.2	10.2	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB22-35	N	Iron	7.9	17200 E	17200	mg/kg	
E200.7/NONE	SO	SAIA-SB22-35	N	Potassium	396	2750	2750	mg/kg	
E200.7/NONE	SO	SAIA-SB22-35	N	Magnesium	396	5300	5300	mg/kg	
E200.7/NONE	SO	SAIA-SB22-35	N	Manganese	1.2	253 E	253	mg/kg	
E200.7/NONE	SO	SAIA-SB22-35	N	Sodium	396	308 J	308 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-35	N	Nickel	3.2	7.5	7.5	mg/kg	
E200.7/NONE	SO	SAIA-SB22-35	N	Lead	0.79	2.1	2.1	mg/kg	
E200.7/NONE	SO	SAIA-SB22-35	N	Antimony	4.8	0.43 JN	0.43 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-35	N	Selenium	2.8	2.4 J	2.4 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-35	N	Vanadium	4.0	31.7 E	31.7	mg/kg	
E200.7/NONE	SO	SAIA-SB22-35	N	Zinc	4.8	35.5	35.5	mg/kg	
E200.7/NONE	SO	SAIA-SB22-5	N	Aluminum	17.1	14900	14900	mg/kg	
E200.7/NONE	SO	SAIA-SB22-5	N	Arsenic	0.86	3.5	3.5	mg/kg	
E200.7/NONE	SO	SAIA-SB22-5	N	Barium	17.1	142	142	mg/kg	
E200.7/NONE	SO	SAIA-SB22-5	N	Beryllium	0.43	0.55	0.55	mg/kg	
E200.7/NONE	SO	SAIA-SB22-5	N	Calcium	428	10500 E	10500	mg/kg	
E200.7/NONE	SO	SAIA-SB22-5	N	Cadmium	0.43	0.22 J	0.22 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-5	N	Cobalt	4.3	9.7	9.7	mg/kg	
E200.7/NONE	SO	SAIA-SB22-5	N	Chromium	0.86	19.3 E	19.3	mg/kg	
E200.7/NONE	SO	SAIA-SB22-5	N	Copper	2.1	24.7	24.7	mg/kg	
E200.7/NONE	SO	SAIA-SB22-5	N	Iron	8.6	23700 E	23700	mg/kg	
E200.7/NONE	SO	SAIA-SB22-5	N	Potassium	428	4130	4130	mg/kg	
E200.7/NONE	SO	SAIA-SB22-5	N	Magnesium	428	7430	7430	mg/kg	
E200.7/NONE	SO	SAIA-SB22-5	N	Manganese	1.3	467 E	467	mg/kg	
E200.7/NONE	SO	SAIA-SB22-5	N	Sodium	428	326 J	326 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-5	N	Nickel	3.4	14.2	14.2	mg/kg	
E200.7/NONE	SO	SAIA-SB22-5	N	Lead	0.86	5.0	5.0	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB22-5	N	Antimony	5.1	0.69 JN	0.69 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB22-5	N	Selenium	3.0	3.5	3.5	mg/kg	
E200.7/NONE	SO	SAIA-SB22-5	N	Vanadium	4.3	43.9 E	43.9	mg/kg	
E200.7/NONE	SO	SAIA-SB22-5	N	Zinc	5.1	53.8	53.8	mg/kg	
E200.7/NONE	SO	SAIA-SB35-0.5	N	Aluminum	15.1	14400	14400	mg/kg	
E200.7/NONE	SO	SAIA-SB35-0.5	N	Arsenic	0.76	2.8	2.8	mg/kg	
E200.7/NONE	SO	SAIA-SB35-0.5	N	Barium	15.1	151	151	mg/kg	
E200.7/NONE	SO	SAIA-SB35-0.5	N	Beryllium	0.38	0.51	0.51	mg/kg	
E200.7/NONE	SO	SAIA-SB35-0.5	N	Calcium	378	8030 E	8030	mg/kg	
E200.7/NONE	SO	SAIA-SB35-0.5	N	Cadmium	0.38	0.29 J	0.29 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-0.5	N	Cobalt	3.8	10.7	10.7	mg/kg	
E200.7/NONE	SO	SAIA-SB35-0.5	N	Chromium	0.76	19.5 E	19.5	mg/kg	
E200.7/NONE	SO	SAIA-SB35-0.5	N	Copper	1.9	20.5	20.5	mg/kg	
E200.7/NONE	SO	SAIA-SB35-0.5	N	Iron	7.6	24700 E	24700	mg/kg	
E200.7/NONE	SO	SAIA-SB35-0.5	N	Potassium	378	5330	5330	mg/kg	
E200.7/NONE	SO	SAIA-SB35-0.5	N	Magnesium	378	7760	7760	mg/kg	
E200.7/NONE	SO	SAIA-SB35-0.5	N	Manganese	1.1	385 E	385	mg/kg	
E200.7/NONE	SO	SAIA-SB35-0.5	N	Sodium	378	324 J	324 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-0.5	N	Nickel	3.0	15.0	15.0	mg/kg	
E200.7/NONE	SO	SAIA-SB35-0.5	N	Lead	0.76	16.2	16.2	mg/kg	
E200.7/NONE	SO	SAIA-SB35-0.5	N	Antimony	4.5	0.92 JN	0.92 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-0.5	N	Selenium	2.6	3.7	3.7	mg/kg	
E200.7/NONE	SO	SAIA-SB35-0.5	N	Vanadium	3.8	45.3 E	45.3	mg/kg	
E200.7/NONE	SO	SAIA-SB35-0.5	N	Zinc	4.5	79.7	79.7	mg/kg	
E200.7/NONE	SO	SAIA-SB35-15	N	Aluminum	15.4	14100	14100	mg/kg	
E200.7/NONE	SO	SAIA-SB35-15	N	Arsenic	0.77	2.9	2.9	mg/kg	
E200.7/NONE	SO	SAIA-SB35-15	N	Barium	15.4	136	136	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EA8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB35-15	N	Beryllium	0.39	0.50	0.50	mg/kg	
E200.7/NONE	SO	SAIA-SB35-15	N	Calcium	385	6660 E	6660	mg/kg	
E200.7/NONE	SO	SAIA-SB35-15	N	Cadmium	0.39	0.17 J	0.17 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-15	N	Cobalt	3.9	10.0	10.0	mg/kg	
E200.7/NONE	SO	SAIA-SB35-15	N	Chromium	0.77	18.3 E	18.3	mg/kg	
E200.7/NONE	SO	SAIA-SB35-15	N	Copper	1.9	15.6	15.6	mg/kg	
E200.7/NONE	SO	SAIA-SB35-15	N	Iron	7.7	24400 E	24400	mg/kg	
E200.7/NONE	SO	SAIA-SB35-15	N	Potassium	385	4480	4480	mg/kg	
E200.7/NONE	SO	SAIA-SB35-15	N	Magnesium	385	8260	8260	mg/kg	
E200.7/NONE	SO	SAIA-SB35-15	N	Manganese	1.2	330 E	330	mg/kg	
E200.7/NONE	SO	SAIA-SB35-15	N	Sodium	385	1270	1270	mg/kg	
E200.7/NONE	SO	SAIA-SB35-15	N	Nickel	3.1	12.9	12.9	mg/kg	
E200.7/NONE	SO	SAIA-SB35-15	N	Lead	0.77	3.3	3.3	mg/kg	
E200.7/NONE	SO	SAIA-SB35-15	N	Antimony	4.6	0.59 JN	0.59 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-15	N	Selenium	2.7	3.7	3.7	mg/kg	
E200.7/NONE	SO	SAIA-SB35-15	N	Vanadium	3.9	49.2 E	49.2	mg/kg	
E200.7/NONE	SO	SAIA-SB35-15	N	Zinc	4.6	53.6	53.6	mg/kg	
E200.7/NONE	SO	SAIA-SB35-2	N	Aluminum	15.6	13100	13100	mg/kg	
E200.7/NONE	SO	SAIA-SB35-2	N	Arsenic	0.78	2.6	2.6	mg/kg	
E200.7/NONE	SO	SAIA-SB35-2	N	Barium	15.6	131	131	mg/kg	
E200.7/NONE	SO	SAIA-SB35-2	N	Beryllium	0.39	0.45	0.45	mg/kg	
E200.7/NONE	SO	SAIA-SB35-2	N	Calcium	390	7280 E	7280	mg/kg	
E200.7/NONE	SO	SAIA-SB35-2	N	Cadmium	0.39	0.21 J	0.21 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-2	N	Cobalt	3.9	9.3	9.3	mg/kg	
E200.7/NONE	SO	SAIA-SB35-2	N	Chromium	0.78	17.7 E	17.7	mg/kg	
E200.7/NONE	SO	SAIA-SB35-2	N	Copper	1.9	19.7	19.7	mg/kg	
E200.7/NONE	SO	SAIA-SB35-2	N	Iron	7.8	22100 E	22100	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB35-2	N	Potassium	390	4570	4570	mg/kg	
E200.7/NONE	SO	SAIA-SB35-2	N	Magnesium	390	6830	6830	mg/kg	
E200.7/NONE	SO	SAIA-SB35-2	N	Manganese	1.2	330 E	330	mg/kg	
E200.7/NONE	SO	SAIA-SB35-2	N	Sodium	390	299 J	299 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-2	N	Nickel	3.1	13.3	13.3	mg/kg	
E200.7/NONE	SO	SAIA-SB35-2	N	Lead	0.78	6.5	6.5	mg/kg	
E200.7/NONE	SO	SAIA-SB35-2	N	Antimony	4.7	0.69 JN	0.69 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-2	N	Selenium	2.7	3.4	3.4	mg/kg	
E200.7/NONE	SO	SAIA-SB35-2	N	Vanadium	3.9	41.6 E	41.6	mg/kg	
E200.7/NONE	SO	SAIA-SB35-2	N	Zinc	4.7	52.3	52.3	mg/kg	
E200.7/NONE	SO	SAIA-SB35-25	N	Aluminum	18.1	17600	17600	mg/kg	
E200.7/NONE	SO	SAIA-SB35-25	N	Arsenic	0.91	3.0	3.0	mg/kg	
E200.7/NONE	SO	SAIA-SB35-25	N	Barium	18.1	159	159	mg/kg	
E200.7/NONE	SO	SAIA-SB35-25	N	Beryllium	0.45	0.65	0.65	mg/kg	
E200.7/NONE	SO	SAIA-SB35-25	N	Calcium	453	9050 E	9050	mg/kg	
E200.7/NONE	SO	SAIA-SB35-25	N	Cadmium	0.45	0.23 J	0.23 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-25	N	Cobalt	4.5	10.8	10.8	mg/kg	
E200.7/NONE	SO	SAIA-SB35-25	N	Chromium	0.91	22.9 E	22.9	mg/kg	
E200.7/NONE	SO	SAIA-SB35-25	N	Copper	2.3	24.1	24.1	mg/kg	
E200.7/NONE	SO	SAIA-SB35-25	N	Iron	9.1	24700 E	24700	mg/kg	
E200.7/NONE	SO	SAIA-SB35-25	N	Potassium	453	4150	4150	mg/kg	
E200.7/NONE	SO	SAIA-SB35-25	N	Magnesium	453	8750	8750	mg/kg	
E200.7/NONE	SO	SAIA-SB35-25	N	Manganese	1.4	383 E	383	mg/kg	
E200.7/NONE	SO	SAIA-SB35-25	N	Sodium	453	1670	1670	mg/kg	
E200.7/NONE	SO	SAIA-SB35-25	N	Nickel	3.6	15.9	15.9	mg/kg	
E200.7/NONE	SO	SAIA-SB35-25	N	Lead	0.91	4.9	4.9	mg/kg	
E200.7/NONE	SO	SAIA-SB35-25	N	Antimony	5.4	0.58 JN	0.58 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9EA8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB35-25	N	Selenium	3.2	3.5	3.5	mg/kg	
E200.7/NONE	SO	SAIA-SB35-25	N	Vanadium	4.5	48.7 E	48.7	mg/kg	
E200.7/NONE	SO	SAIA-SB35-25	N	Zinc	5.4	57.6	57.6	mg/kg	
E200.7/NONE	SO	SAIA-SB35-3	FD	Aluminum	16.9	14400	14400	mg/kg	
E200.7/NONE	SO	SAIA-SB35-3	FD	Arsenic	0.84	2.6	2.6	mg/kg	
E200.7/NONE	SO	SAIA-SB35-3	FD	Barium	16.9	143	143	mg/kg	
E200.7/NONE	SO	SAIA-SB35-3	FD	Beryllium	0.42	0.51	0.51	mg/kg	
E200.7/NONE	SO	SAIA-SB35-3	FD	Calcium	422	7960 E	7960	mg/kg	
E200.7/NONE	SO	SAIA-SB35-3	FD	Cadmium	0.42	0.22 J	0.22 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-3	FD	Cobalt	4.2	10.2	10.2	mg/kg	
E200.7/NONE	SO	SAIA-SB35-3	FD	Chromium	0.84	19.3 E	19.3	mg/kg	
E200.7/NONE	SO	SAIA-SB35-3	FD	Copper	2.1	18.3	18.3	mg/kg	
E200.7/NONE	SO	SAIA-SB35-3	FD	Iron	8.4	24200 E	24200	mg/kg	
E200.7/NONE	SO	SAIA-SB35-3	FD	Potassium	422	5110	5110	mg/kg	
E200.7/NONE	SO	SAIA-SB35-3	FD	Magnesium	422	7560	7560	mg/kg	
E200.7/NONE	SO	SAIA-SB35-3	FD	Manganese	1.3	361 E	361	mg/kg	
E200.7/NONE	SO	SAIA-SB35-3	FD	Sodium	422	334 J	334 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-3	FD	Nickel	3.4	14.2	14.2	mg/kg	
E200.7/NONE	SO	SAIA-SB35-3	FD	Lead	0.84	5.4	5.4	mg/kg	
E200.7/NONE	SO	SAIA-SB35-3	FD	Antimony	5.1	0.69 JN	0.69 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-3	FD	Selenium	3.0	3.8	3.8	mg/kg	
E200.7/NONE	SO	SAIA-SB35-3	FD	Vanadium	4.2	44.5 E	44.5	mg/kg	
E200.7/NONE	SO	SAIA-SB35-3	FD	Zinc	5.1	59.0	59.0	mg/kg	
E200.7/NONE	SO	SAIA-SB35-35	N	Aluminum	14.5	6810	6810	mg/kg	
E200.7/NONE	SO	SAIA-SB35-35	N	Arsenic	0.72	6.8	6.8	mg/kg	
E200.7/NONE	SO	SAIA-SB35-35	N	Barium	14.5	56.0	56.0	mg/kg	
E200.7/NONE	SO	SAIA-SB35-35	N	Beryllium	0.36	0.24 J	0.24 J	mg/kg	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB35-35	N	Calcium	362	4740 E	4740	mg/kg	
E200.7/NONE	SO	SAIA-SB35-35	N	Cadmium	0.36	0.020 J	0.020 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-35	N	Cobalt	3.6	4.6	4.6	mg/kg	
E200.7/NONE	SO	SAIA-SB35-35	N	Chromium	0.72	9.0 E	9.0	mg/kg	
E200.7/NONE	SO	SAIA-SB35-35	N	Copper	1.8	6.7	6.7	mg/kg	
E200.7/NONE	SO	SAIA-SB35-35	N	Iron	7.2	13400 E	13400	mg/kg	
E200.7/NONE	SO	SAIA-SB35-35	N	Potassium	362	2020	2020	mg/kg	
E200.7/NONE	SO	SAIA-SB35-35	N	Magnesium	362	3860	3860	mg/kg	
E200.7/NONE	SO	SAIA-SB35-35	N	Manganese	1.1	190 E	190	mg/kg	
E200.7/NONE	SO	SAIA-SB35-35	N	Sodium	362	385	385	mg/kg	
E200.7/NONE	SO	SAIA-SB35-35	N	Nickel	2.9	5.6	5.6	mg/kg	
E200.7/NONE	SO	SAIA-SB35-35	N	Lead	0.72	1.8	1.8	mg/kg	
E200.7/NONE	SO	SAIA-SB35-35	N	Antimony	4.3	0.39 JN	0.39 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-35	N	Selenium	2.5	2.1 J	2.1 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-35	N	Vanadium	3.6	25.1 E	25.1	mg/kg	
E200.7/NONE	SO	SAIA-SB35-35	N	Zinc	4.3	25.8	25.8	mg/kg	
E200.7/NONE	SO	SAIA-SB35-5	N	Aluminum	16.6	14300	14300	mg/kg	
E200.7/NONE	SO	SAIA-SB35-5	N	Arsenic	0.83	2.8	2.8	mg/kg	
E200.7/NONE	SO	SAIA-SB35-5	N	Barium	16.6	127	127	mg/kg	
E200.7/NONE	SO	SAIA-SB35-5	N	Beryllium	0.42	0.55	0.55	mg/kg	
E200.7/NONE	SO	SAIA-SB35-5	N	Calcium	415	7930 E	7930	mg/kg	
E200.7/NONE	SO	SAIA-SB35-5	N	Cadmium	0.42	0.18 J	0.18 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-5	N	Cobalt	4.2	9.4	9.4	mg/kg	
E200.7/NONE	SO	SAIA-SB35-5	N	Chromium	0.83	17.5 E	17.5	mg/kg	
E200.7/NONE	SO	SAIA-SB35-5	N	Copper	2.1	17.5	17.5	mg/kg	
E200.7/NONE	SO	SAIA-SB35-5	N	Iron	8.3	23000 E	23000	mg/kg	
E200.7/NONE	SO	SAIA-SB35-5	N	Potassium	415	4050	4050	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EA8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB35-5	N	Magnesium	415	7130	7130	mg/kg	
E200.7/NONE	SO	SAIA-SB35-5	N	Manganese	1.2	354 E	354	mg/kg	
E200.7/NONE	SO	SAIA-SB35-5	N	Sodium	415	388 J	388 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-5	N	Nickel	3.3	12.9	12.9	mg/kg	
E200.7/NONE	SO	SAIA-SB35-5	N	Lead	0.83	4.4	4.4	mg/kg	
E200.7/NONE	SO	SAIA-SB35-5	N	Antimony	5.0	0.65 JN	0.65 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB35-5	N	Selenium	2.9	3.3	3.3	mg/kg	
E200.7/NONE	SO	SAIA-SB35-5	N	Vanadium	4.2	44.7 E	44.7	mg/kg	
E200.7/NONE	SO	SAIA-SB35-5	N	Zinc	5.0	51.5	51.5	mg/kg	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	SAIA-SB22-15	N	Mercury	0.10	0.32	0.32	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EA8

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9EB9

Facility: Southern Avenue Industrial Area

Soil Boring Sampling Event, April 2014

Guidance Document:

Contract Laboratory: CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ

Field Contractor:

Data Review Contractor: Gilbane

SDG: MY9EB9, Certified - 5/13/2014 by wtse

QC Level: S1BVEM

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: November 24, 2014

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG MY9EB9

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
E200.7/NONE	20	0
SW7471B/NONE	20	0

AUTOMATED DATA REVIEW SUMMARY for MY9EB9

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Field Duplicate RPD
- Initial Calibration Verification
- Material Blank
- MS RPD
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for MY9EB9

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 22 results (4.78%) out of the 460 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Gilbane reviewed the Chemtech lab report, COCs, case narrative, and EXES data review package.

No sample receipt issues or calibration anomalies were noted.

Qualifiers were added for lab blank (B2) detects, and minor matrix (M) effects.

Negative blank QC outliers were resolved.

24-Nov-2014

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for MY9EB9

Batch Report

AUTOMATED DATA REVIEW SUMMARY for MY9EB9

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70596-CC	PB76071	NA	LABQC	SQ	LABQC	PB76071BS	LB70596-S0	1/1	15-Apr-2014 12:00 PM	15-Apr-2014 12:00 PM	16-Apr-2014 5:42 PM	BS
	PB76071	NA	LABQC	SQ	LABQC	PB76071BL	LB70596-S0	1/1	15-Apr-2014 12:00 PM	15-Apr-2014 12:00 PM	16-Apr-2014 5:38 PM	LB
	PB76071	NA	SAIA-SB/SG23	SO	SAIA-SB23-0.5	F1997-01	LB70596-S0	1/1	14-Apr-2014 8:05 AM	15-Apr-2014 12:00 PM	16-Apr-2014 6:08 PM	N
	PB76071	NA	SAIA-SB/SG23	SO	SAIA-SB23-15	F1997-04	LB70596-S0	1/1	14-Apr-2014 8:30 AM	15-Apr-2014 12:00 PM	16-Apr-2014 6:20 PM	N
	PB76071	NA	SAIA-SB/SG23	SO	SAIA-SB23-2	F1997-02	LB70596-S0	1/1	14-Apr-2014 8:10 AM	15-Apr-2014 12:00 PM	16-Apr-2014 6:12 PM	N
	PB76071	NA	SAIA-SB/SG23	SO	SAIA-SB23-25	F1997-05	LB70596-S0	1/1	14-Apr-2014 8:45 AM	15-Apr-2014 12:00 PM	16-Apr-2014 6:24 PM	N
	PB76071	NA	SAIA-SB/SG23	SO	SAIA-SB23-35	F1997-07	LB70596-S0	1/1	14-Apr-2014 8:55 AM	15-Apr-2014 12:00 PM	16-Apr-2014 5:50 PM	LR
	PB76071	NA	SAIA-SB/SG23	SO	SAIA-SB23-35	F1997-08	LB70596-S0	1/1	14-Apr-2014 8:55 AM	15-Apr-2014 12:00 PM	16-Apr-2014 5:54 PM	MS
	PB76071	NA	SAIA-SB/SG23	SO	SAIA-SB23-35	F1997-06	LB70596-S0	1/1	14-Apr-2014 8:55 AM	15-Apr-2014 12:00 PM	16-Apr-2014 5:46 PM	N
	PB76071	NA	SAIA-SB/SG23	SO	SAIA-SB23-5	F1997-03	LB70596-S0	1/1	14-Apr-2014 8:15 AM	15-Apr-2014 12:00 PM	16-Apr-2014 6:16 PM	N
	PB76071	NA	SAIA-SB/SG25	SO	SAIA-SB25-0.5	F1997-09	LB70596-S0	1/1	14-Apr-2014 10:05 AM	15-Apr-2014 12:00 PM	16-Apr-2014 6:28 PM	N
	PB76071	NA	SAIA-SB/SG25	SO	SAIA-SB25-15	F1997-12	LB70596-S0	1/1	14-Apr-2014 10:25 AM	15-Apr-2014 12:00 PM	16-Apr-2014 6:39 PM	N
	PB76071	NA	SAIA-SB/SG25	SO	SAIA-SB25-2	F1997-10	LB70596-S0	1/1	14-Apr-2014 10:10 AM	15-Apr-2014 12:00 PM	16-Apr-2014 6:32 PM	N
	PB76071	NA	SAIA-SB/SG25	SO	SAIA-SB25-25	F1997-13	LB70596-S0	1/1	14-Apr-2014 10:35 AM	15-Apr-2014 12:00 PM	16-Apr-2014 6:43 PM	N
	PB76071	NA	SAIA-SB/SG25	SO	SAIA-SB25-35	F1997-14	LB70596-S0	1/1	14-Apr-2014 10:45 AM	15-Apr-2014 12:00 PM	16-Apr-2014 6:47 PM	N
	PB76071	NA	SAIA-SB/SG25	SO	SAIA-SB25-5	F1997-11	LB70596-S0	1/1	14-Apr-2014 10:15 AM	15-Apr-2014 12:00 PM	16-Apr-2014 6:35 PM	N
	PB76071	NA	SAIA-SB/SG27	SO	SAIA-SB27-0.5	F1997-15	LB70596-S0	1/1	14-Apr-2014 12:25 PM	15-Apr-2014 12:00 PM	16-Apr-2014 6:51 PM	N
	PB76071	NA	SAIA-SB/SG27	SO	SAIA-SB27-15	F1997-18	LB70596-S0	1/1	14-Apr-2014 12:45 PM	15-Apr-2014 12:00 PM	16-Apr-2014 7:11 PM	N
	PB76071	NA	SAIA-SB/SG27	SO	SAIA-SB27-2	F1997-16	LB70596-S0	1/1	14-Apr-2014 12:30 PM	15-Apr-2014 12:00 PM	16-Apr-2014 6:55 PM	N
	PB76071	NA	SAIA-SB/SG27	SO	SAIA-SB27-25	F1997-19	LB70596-S0	1/1	14-Apr-2014 12:55 PM	15-Apr-2014 12:00 PM	16-Apr-2014 7:15 PM	N
	PB76071	NA	SAIA-SB/SG27	SO	SAIA-SB27-35	F1997-20	LB70596-S0	1/1	14-Apr-2014 1:05 PM	15-Apr-2014 12:00 PM	16-Apr-2014 7:19 PM	N
	PB76071	NA	SAIA-SB/SG27	SO	SAIA-SB27-5	F1997-17	LB70596-S0	1/1	14-Apr-2014 12:35 PM	15-Apr-2014 12:00 PM	16-Apr-2014 6:59 PM	N

AUTOMATED DATA REVIEW SUMMARY for MY9EB9

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70596-CC	PB76071	NA	SAIA-SB/SG28	SO	SAIA-SB28-0.5	F1997-21	LB70596-S0	1/1	14-Apr-2014 2:00 PM	15-Apr-2014 12:00 PM	16-Apr-2014 7:23 PM	N
	PB76071	NA	SAIA-SB/SG28	SO	SAIA-SB28-2	F1997-22	LB70596-S0	1/1	14-Apr-2014 2:05 PM	15-Apr-2014 12:00 PM	16-Apr-2014 7:27 PM	N

Test Method: SW7471B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70597-CC	PB76093	NA	LABQC	SQ	LABQC	PB76093BL	LB70597-S0	1/1	16-Apr-2014 12:00 PM	16-Apr-2014 12:00 PM	17-Apr-2014 9:42 AM	LB
	PB76093	NA	SAIA-SB/SG23	SO	SAIA-SB23-0.5	F1997-01	LB70597-S0	1/1	14-Apr-2014 8:05 AM	16-Apr-2014 12:00 PM	17-Apr-2014 9:45 AM	N
	PB76093	NA	SAIA-SB/SG23	SO	SAIA-SB23-15	F1997-04	LB70597-S0	1/1	14-Apr-2014 8:30 AM	16-Apr-2014 12:00 PM	17-Apr-2014 9:51 AM	N
	PB76093	NA	SAIA-SB/SG23	SO	SAIA-SB23-2	F1997-02	LB70597-S0	1/1	14-Apr-2014 8:10 AM	16-Apr-2014 12:00 PM	17-Apr-2014 9:47 AM	N
	PB76093	NA	SAIA-SB/SG23	SO	SAIA-SB23-25	F1997-05	LB70597-S0	1/1	14-Apr-2014 8:45 AM	16-Apr-2014 12:00 PM	17-Apr-2014 9:53 AM	N
	PB76093	NA	SAIA-SB/SG23	SO	SAIA-SB23-35	F1997-07	LB70597-S0	1/1	14-Apr-2014 8:55 AM	16-Apr-2014 12:00 PM	17-Apr-2014 9:57 AM	LR
	PB76093	NA	SAIA-SB/SG23	SO	SAIA-SB23-35	F1997-08	LB70597-S0	1/1	14-Apr-2014 8:55 AM	16-Apr-2014 12:00 PM	17-Apr-2014 10:00 AM	MS
	PB76093	NA	SAIA-SB/SG23	SO	SAIA-SB23-35	F1997-06	LB70597-S0	1/1	14-Apr-2014 8:55 AM	16-Apr-2014 12:00 PM	17-Apr-2014 9:55 AM	N
	PB76093	NA	SAIA-SB/SG23	SO	SAIA-SB23-5	F1997-03	LB70597-S0	1/1	14-Apr-2014 8:15 AM	16-Apr-2014 12:00 PM	17-Apr-2014 9:49 AM	N
	PB76093	NA	SAIA-SB/SG25	SO	SAIA-SB25-0.5	F1997-09	LB70597-S0	1/1	14-Apr-2014 10:05 AM	16-Apr-2014 12:00 PM	17-Apr-2014 10:02 AM	N
	PB76093	NA	SAIA-SB/SG25	SO	SAIA-SB25-15	F1997-12	LB70597-S0	1/1	14-Apr-2014 10:25 AM	16-Apr-2014 12:00 PM	17-Apr-2014 10:08 AM	N
	PB76093	NA	SAIA-SB/SG25	SO	SAIA-SB25-2	F1997-10	LB70597-S0	1/1	14-Apr-2014 10:10 AM	16-Apr-2014 12:00 PM	17-Apr-2014 10:04 AM	N
	PB76093	NA	SAIA-SB/SG25	SO	SAIA-SB25-25	F1997-13	LB70597-S0	1/1	14-Apr-2014 10:35 AM	16-Apr-2014 12:00 PM	17-Apr-2014 10:10 AM	N
	PB76093	NA	SAIA-SB/SG25	SO	SAIA-SB25-35	F1997-14	LB70597-S0	1/1	14-Apr-2014 10:45 AM	16-Apr-2014 12:00 PM	17-Apr-2014 10:12 AM	N
	PB76093	NA	SAIA-SB/SG25	SO	SAIA-SB25-5	F1997-11	LB70597-S0	1/1	14-Apr-2014 10:15 AM	16-Apr-2014 12:00 PM	17-Apr-2014 10:06 AM	N
	PB76093	NA	SAIA-SB/SG27	SO	SAIA-SB27-0.5	F1997-15	LB70597-S0	1/1	14-Apr-2014 12:25 PM	16-Apr-2014 12:00 PM	17-Apr-2014 10:15 AM	N
	PB76093	NA	SAIA-SB/SG27	SO	SAIA-SB27-15	F1997-18	LB70597-S0	1/1	14-Apr-2014 12:45 PM	16-Apr-2014 12:00 PM	17-Apr-2014 10:21 AM	N

AUTOMATED DATA REVIEW SUMMARY for MY9EB9

Batch Report

Test Method: SW7471B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70597-CC	PB76093	NA	SAIA-SB/SG27	SO	SAIA-SB27-2	F1997-16	LB70597-S0	1/1	14-Apr-2014 12:30 PM	16-Apr-2014 12:00 PM	17-Apr-2014 10:17 AM	N
	PB76093	NA	SAIA-SB/SG27	SO	SAIA-SB27-25	F1997-19	LB70597-S0	1/1	14-Apr-2014 12:55 PM	16-Apr-2014 12:00 PM	17-Apr-2014 10:23 AM	N
	PB76093	NA	SAIA-SB/SG27	SO	SAIA-SB27-35	F1997-20	LB70597-S0	1/1	14-Apr-2014 1:05 PM	16-Apr-2014 12:00 PM	17-Apr-2014 10:30 AM	N
	PB76093	NA	SAIA-SB/SG27	SO	SAIA-SB27-5	F1997-17	LB70597-S0	1/1	14-Apr-2014 12:35 PM	16-Apr-2014 12:00 PM	17-Apr-2014 10:19 AM	N
	PB76093	NA	SAIA-SB/SG28	SO	SAIA-SB28-0.5	F1997-21	LB70597-S0	1/1	14-Apr-2014 2:00 PM	16-Apr-2014 12:00 PM	17-Apr-2014 10:32 AM	N
	PB76093	NA	SAIA-SB/SG28	SO	SAIA-SB28-2	F1997-22	LB70597-S0	1/1	14-Apr-2014 2:05 PM	16-Apr-2014 12:00 PM	17-Apr-2014 10:34 AM	N

AUTOMATED DATA REVIEW SUMMARY for MY9EB9

Field Batch Report

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9EB9

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
E200.7 / METHOD	MS Recovery	SAIA-SB23-35 (MS)	1 / 1.00	Antimony	59.4	Percent	J/UJ	75 - 125	50 - 140	M			
E200.7 / METHOD	MS Recovery	SAIA-SB23-35 (MS)	1 / 1.00	Thallium	46.7	Percent	J/R	75 - 125	50 - 140	M			
SW7471B / METHOD	Blank - Negative	PB76093BL (LB)	1 / 1.00	Mercury	-0.0100	mg/kg	J/UJ	< 0.002	< 0.1	L1			

AUTOMATED DATA REVIEW SUMMARY for MY9EB9

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB23-0.5	N	Antimony	4.9	0.42 JN	0.42 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB23-15	N	Antimony	5.7	0.66 JN	0.66 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB23-2	N	Antimony	4.9	0.49 JN	0.49 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB23-2	N	Selenium	2.9	2.5 J	2.5 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB23-25	N	Antimony	5.3	0.34 JN	0.34 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB23-25	N	Selenium	3.1	2.9 J	2.9 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB23-35	N	Antimony	4.7	0.20 JN	0.20 J	mg/kg	M/TR
E200.7/NONE	SO	SAIA-SB23-35	N	Beryllium	0.39	0.36 J	0.36 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB23-35	N	Selenium	2.7	1.6 J	1.6 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB23-35	N	Sodium	390	260 J	260 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB23-35	N	Thallium	1.9	1.9 UN	1.9 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB23-5	N	Antimony	5.0	0.34 JN	0.34 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB23-5	N	Selenium	2.9	2.1 J	2.1 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB23-5	N	Sodium	421	382 J	382 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB25-0.5	N	Antimony	4.6	1.4 JN	1.4 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB25-0.5	N	Selenium	2.7	2.1 J	2.1 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB25-0.5	N	Sodium	381	285 J	285 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB25-15	N	Antimony	5.1	0.59 JN	0.59 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB25-15	N	Selenium	3.0	2.9 J	2.9 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB25-2	N	Sodium	433	376 J	376 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB25-25	N	Antimony	5.1	0.43 JN	0.43 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB25-35	N	Beryllium	0.40	0.38 J	0.38 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB25-35	N	Selenium	2.8	1.5 J	1.5 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB25-5	N	Antimony	5.1	0.47 JN	0.47 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB25-5	N	Selenium	3.0	2.9 J	2.9 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB27-0.5	N	Cadmium	0.39	0.39 J	0.39 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB27-15	N	Antimony	5.0	0.44 JN	0.44 J	mg/kg	TR

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB27-2	N	Antimony	4.6	0.55 JN	0.55 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB27-2	N	Selenium	2.7	2.5 J	2.5 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB27-25	N	Antimony	5.6	0.33 JN	0.33 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB27-35	N	Antimony	4.6	0.14 JN	0.14 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB27-35	N	Selenium	2.7	1.8 J	1.8 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB27-5	N	Antimony	4.4	0.43 JN	0.43 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB28-0.5	N	Antimony	5.1	4.0 JN	4.0 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB28-0.5	N	Selenium	3.0	2.6 J	2.6 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB28-2	N	Antimony	4.5	0.32 JN	0.32 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB28-2	N	Selenium	2.6	2.5 J	2.5 J	mg/kg	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	SAIA-SB23-0.5	N	Mercury	0.11	0.11 J	0.11 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB23-15	N	Mercury	0.12	0.12 J	0.12 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB23-2	N	Mercury	0.10	0.10 J	0.10 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB23-25	N	Mercury	0.11	0.11 J	0.11 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB23-35	N	Mercury	0.11	0.11 J	0.11 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB23-5	N	Mercury	0.11	0.11 J	0.11 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB25-0.5	N	Mercury	0.11	0.11 J	0.11 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB25-15	N	Mercury	0.10	0.10 J	0.10 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB25-2	N	Mercury	0.11	0.11 J	0.11 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB25-25	N	Mercury	0.11	0.11 J	0.11 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB25-35	N	Mercury	0.11	0.11 J	0.11 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB25-5	N	Mercury	0.11	0.11 J	0.11 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB27-0.5	N	Mercury	0.094	0.094 J	0.094 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB27-15	N	Mercury	0.10	0.10 J	0.10 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB27-2	N	Mercury	0.10	0.10 J	0.10 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB27-35	N	Mercury	0.095	0.095 J	0.095 U	mg/kg	B2

AUTOMATED DATA REVIEW SUMMARY for MY9EB9

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	SAIA-SB27-5	N	Mercury	0.093	0.093 J	0.093 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB28-0.5	N	Mercury	0.10	0.10 J	0.10 U	mg/kg	B2
SW7471B/NONE	SO	SAIA-SB28-2	N	Mercury	0.097	0.097 J	0.097 U	mg/kg	B2

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB23-0.5	N	Aluminum	16.4	14600	14600	mg/kg	
E200.7/NONE	SO	SAIA-SB23-0.5	N	Arsenic	0.82	3.9	3.9	mg/kg	
E200.7/NONE	SO	SAIA-SB23-0.5	N	Barium	16.4	147	147	mg/kg	
E200.7/NONE	SO	SAIA-SB23-0.5	N	Beryllium	0.41	0.57	0.57	mg/kg	
E200.7/NONE	SO	SAIA-SB23-0.5	N	Calcium	410	6860	6860	mg/kg	
E200.7/NONE	SO	SAIA-SB23-0.5	N	Cobalt	4.1	11.9	11.9	mg/kg	
E200.7/NONE	SO	SAIA-SB23-0.5	N	Chromium	0.82	19.1	19.1	mg/kg	
E200.7/NONE	SO	SAIA-SB23-0.5	N	Copper	2.1	20.1	20.1	mg/kg	
E200.7/NONE	SO	SAIA-SB23-0.5	N	Iron	8.2	26100	26100	mg/kg	
E200.7/NONE	SO	SAIA-SB23-0.5	N	Potassium	410	5640	5640	mg/kg	
E200.7/NONE	SO	SAIA-SB23-0.5	N	Magnesium	410	8410	8410	mg/kg	
E200.7/NONE	SO	SAIA-SB23-0.5	N	Manganese	1.2	384	384	mg/kg	
E200.7/NONE	SO	SAIA-SB23-0.5	N	Sodium	410	475	475	mg/kg	
E200.7/NONE	SO	SAIA-SB23-0.5	N	Nickel	3.3	15.3	15.3	mg/kg	
E200.7/NONE	SO	SAIA-SB23-0.5	N	Lead	0.82	6.2	6.2	mg/kg	
E200.7/NONE	SO	SAIA-SB23-0.5	N	Antimony	4.9	0.42 JN	0.42 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB23-0.5	N	Selenium	2.9	2.9	2.9	mg/kg	
E200.7/NONE	SO	SAIA-SB23-0.5	N	Vanadium	4.1	46.1	46.1	mg/kg	
E200.7/NONE	SO	SAIA-SB23-0.5	N	Zinc	4.9	67.7	67.7	mg/kg	
E200.7/NONE	SO	SAIA-SB23-15	N	Aluminum	19.0	26100	26100	mg/kg	
E200.7/NONE	SO	SAIA-SB23-15	N	Arsenic	0.95	5.4	5.4	mg/kg	
E200.7/NONE	SO	SAIA-SB23-15	N	Barium	19.0	213	213	mg/kg	
E200.7/NONE	SO	SAIA-SB23-15	N	Beryllium	0.48	1.1	1.1	mg/kg	
E200.7/NONE	SO	SAIA-SB23-15	N	Calcium	476	24400	24400	mg/kg	
E200.7/NONE	SO	SAIA-SB23-15	N	Cobalt	4.8	18.4	18.4	mg/kg	
E200.7/NONE	SO	SAIA-SB23-15	N	Chromium	0.95	28.9	28.9	mg/kg	
E200.7/NONE	SO	SAIA-SB23-15	N	Copper	2.4	38.2	38.2	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EB9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB23-15	N	Iron	9.5	36100	36100	mg/kg	
E200.7/NONE	SO	SAIA-SB23-15	N	Potassium	476	5910	5910	mg/kg	
E200.7/NONE	SO	SAIA-SB23-15	N	Magnesium	476	13100	13100	mg/kg	
E200.7/NONE	SO	SAIA-SB23-15	N	Manganese	1.4	676	676	mg/kg	
E200.7/NONE	SO	SAIA-SB23-15	N	Sodium	476	665	665	mg/kg	
E200.7/NONE	SO	SAIA-SB23-15	N	Nickel	3.8	25.4	25.4	mg/kg	
E200.7/NONE	SO	SAIA-SB23-15	N	Lead	0.95	9.0	9.0	mg/kg	
E200.7/NONE	SO	SAIA-SB23-15	N	Antimony	5.7	0.66 JN	0.66 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB23-15	N	Selenium	3.3	3.6	3.6	mg/kg	
E200.7/NONE	SO	SAIA-SB23-15	N	Vanadium	4.8	68.2	68.2	mg/kg	
E200.7/NONE	SO	SAIA-SB23-15	N	Zinc	5.7	89.5	89.5	mg/kg	
E200.7/NONE	SO	SAIA-SB23-2	N	Aluminum	16.3	14300	14300	mg/kg	
E200.7/NONE	SO	SAIA-SB23-2	N	Arsenic	0.82	3.6	3.6	mg/kg	
E200.7/NONE	SO	SAIA-SB23-2	N	Barium	16.3	132	132	mg/kg	
E200.7/NONE	SO	SAIA-SB23-2	N	Beryllium	0.41	0.56	0.56	mg/kg	
E200.7/NONE	SO	SAIA-SB23-2	N	Calcium	408	8210	8210	mg/kg	
E200.7/NONE	SO	SAIA-SB23-2	N	Cobalt	4.1	11.1	11.1	mg/kg	
E200.7/NONE	SO	SAIA-SB23-2	N	Chromium	0.82	17.9	17.9	mg/kg	
E200.7/NONE	SO	SAIA-SB23-2	N	Copper	2.0	18.8	18.8	mg/kg	
E200.7/NONE	SO	SAIA-SB23-2	N	Iron	8.2	25000	25000	mg/kg	
E200.7/NONE	SO	SAIA-SB23-2	N	Potassium	408	4310	4310	mg/kg	
E200.7/NONE	SO	SAIA-SB23-2	N	Magnesium	408	7400	7400	mg/kg	
E200.7/NONE	SO	SAIA-SB23-2	N	Manganese	1.2	356	356	mg/kg	
E200.7/NONE	SO	SAIA-SB23-2	N	Sodium	408	415	415	mg/kg	
E200.7/NONE	SO	SAIA-SB23-2	N	Nickel	3.3	13.9	13.9	mg/kg	
E200.7/NONE	SO	SAIA-SB23-2	N	Lead	0.82	4.6	4.6	mg/kg	
E200.7/NONE	SO	SAIA-SB23-2	N	Antimony	4.9	0.49 JN	0.49 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9EB9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB23-2	N	Selenium	2.9	2.5 J	2.5 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB23-2	N	Vanadium	4.1	45.7	45.7	mg/kg	
E200.7/NONE	SO	SAIA-SB23-2	N	Zinc	4.9	57.1	57.1	mg/kg	
E200.7/NONE	SO	SAIA-SB23-25	N	Aluminum	17.7	19700	19700	mg/kg	
E200.7/NONE	SO	SAIA-SB23-25	N	Arsenic	0.89	5.9	5.9	mg/kg	
E200.7/NONE	SO	SAIA-SB23-25	N	Barium	17.7	178	178	mg/kg	
E200.7/NONE	SO	SAIA-SB23-25	N	Beryllium	0.44	0.75	0.75	mg/kg	
E200.7/NONE	SO	SAIA-SB23-25	N	Calcium	443	8110	8110	mg/kg	
E200.7/NONE	SO	SAIA-SB23-25	N	Cobalt	4.4	15.1	15.1	mg/kg	
E200.7/NONE	SO	SAIA-SB23-25	N	Chromium	0.89	24.6	24.6	mg/kg	
E200.7/NONE	SO	SAIA-SB23-25	N	Copper	2.2	29.3	29.3	mg/kg	
E200.7/NONE	SO	SAIA-SB23-25	N	Iron	8.9	29100	29100	mg/kg	
E200.7/NONE	SO	SAIA-SB23-25	N	Potassium	443	5260	5260	mg/kg	
E200.7/NONE	SO	SAIA-SB23-25	N	Magnesium	443	10900	10900	mg/kg	
E200.7/NONE	SO	SAIA-SB23-25	N	Manganese	1.3	482	482	mg/kg	
E200.7/NONE	SO	SAIA-SB23-25	N	Sodium	443	478	478	mg/kg	
E200.7/NONE	SO	SAIA-SB23-25	N	Nickel	3.5	20.4	20.4	mg/kg	
E200.7/NONE	SO	SAIA-SB23-25	N	Lead	0.89	5.1	5.1	mg/kg	
E200.7/NONE	SO	SAIA-SB23-25	N	Antimony	5.3	0.34 JN	0.34 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB23-25	N	Selenium	3.1	2.9 J	2.9 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB23-25	N	Vanadium	4.4	53.8	53.8	mg/kg	
E200.7/NONE	SO	SAIA-SB23-25	N	Zinc	5.3	75.5	75.5	mg/kg	
E200.7/NONE	SO	SAIA-SB23-35	N	Aluminum	15.6	7760	7760	mg/kg	
E200.7/NONE	SO	SAIA-SB23-35	N	Arsenic	0.78	9.1	9.1	mg/kg	
E200.7/NONE	SO	SAIA-SB23-35	N	Barium	15.6	75.7	75.7	mg/kg	
E200.7/NONE	SO	SAIA-SB23-35	N	Beryllium	0.39	0.36 J	0.36 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB23-35	N	Calcium	390	5600	5600	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB23-35	N	Cobalt	3.9	6.1	6.1	mg/kg	
E200.7/NONE	SO	SAIA-SB23-35	N	Chromium	0.78	9.3	9.3	mg/kg	
E200.7/NONE	SO	SAIA-SB23-35	N	Copper	1.9	9.6	9.6	mg/kg	
E200.7/NONE	SO	SAIA-SB23-35	N	Iron	7.8	15600	15600	mg/kg	
E200.7/NONE	SO	SAIA-SB23-35	N	Potassium	390	2380	2380	mg/kg	
E200.7/NONE	SO	SAIA-SB23-35	N	Magnesium	390	4690	4690	mg/kg	
E200.7/NONE	SO	SAIA-SB23-35	N	Manganese	1.2	235	235	mg/kg	
E200.7/NONE	SO	SAIA-SB23-35	N	Sodium	390	260 J	260 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB23-35	N	Nickel	3.1	6.9	6.9	mg/kg	
E200.7/NONE	SO	SAIA-SB23-35	N	Lead	0.78	2.2	2.2	mg/kg	
E200.7/NONE	SO	SAIA-SB23-35	N	Antimony	4.7	0.20 JN	0.20 J	mg/kg	M/TR
E200.7/NONE	SO	SAIA-SB23-35	N	Selenium	2.7	1.6 J	1.6 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB23-35	N	Vanadium	3.9	27.6	27.6	mg/kg	
E200.7/NONE	SO	SAIA-SB23-35	N	Zinc	4.7	34.0	34.0	mg/kg	
E200.7/NONE	SO	SAIA-SB23-5	N	Aluminum	16.8	12800	12800	mg/kg	
E200.7/NONE	SO	SAIA-SB23-5	N	Arsenic	0.84	3.6	3.6	mg/kg	
E200.7/NONE	SO	SAIA-SB23-5	N	Barium	16.8	113	113	mg/kg	
E200.7/NONE	SO	SAIA-SB23-5	N	Beryllium	0.42	0.54	0.54	mg/kg	
E200.7/NONE	SO	SAIA-SB23-5	N	Calcium	421	9220	9220	mg/kg	
E200.7/NONE	SO	SAIA-SB23-5	N	Cobalt	4.2	10.1	10.1	mg/kg	
E200.7/NONE	SO	SAIA-SB23-5	N	Chromium	0.84	16.6	16.6	mg/kg	
E200.7/NONE	SO	SAIA-SB23-5	N	Copper	2.1	17.9	17.9	mg/kg	
E200.7/NONE	SO	SAIA-SB23-5	N	Iron	8.4	22300	22300	mg/kg	
E200.7/NONE	SO	SAIA-SB23-5	N	Potassium	421	4020	4020	mg/kg	
E200.7/NONE	SO	SAIA-SB23-5	N	Magnesium	421	6900	6900	mg/kg	
E200.7/NONE	SO	SAIA-SB23-5	N	Manganese	1.3	382	382	mg/kg	
E200.7/NONE	SO	SAIA-SB23-5	N	Sodium	421	382 J	382 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9EB9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB23-5	N	Nickel	3.4	13.1	13.1	mg/kg	
E200.7/NONE	SO	SAIA-SB23-5	N	Lead	0.84	3.9	3.9	mg/kg	
E200.7/NONE	SO	SAIA-SB23-5	N	Antimony	5.0	0.34 JN	0.34 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB23-5	N	Selenium	2.9	2.1 J	2.1 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB23-5	N	Vanadium	4.2	40.4	40.4	mg/kg	
E200.7/NONE	SO	SAIA-SB23-5	N	Zinc	5.0	52.3	52.3	mg/kg	
E200.7/NONE	SO	SAIA-SB25-0.5	N	Aluminum	15.3	11800	11800	mg/kg	
E200.7/NONE	SO	SAIA-SB25-0.5	N	Arsenic	0.76	4.1	4.1	mg/kg	
E200.7/NONE	SO	SAIA-SB25-0.5	N	Barium	15.3	122	122	mg/kg	
E200.7/NONE	SO	SAIA-SB25-0.5	N	Beryllium	0.38	0.47	0.47	mg/kg	
E200.7/NONE	SO	SAIA-SB25-0.5	N	Calcium	381	15400	15400	mg/kg	
E200.7/NONE	SO	SAIA-SB25-0.5	N	Cobalt	3.8	9.4	9.4	mg/kg	
E200.7/NONE	SO	SAIA-SB25-0.5	N	Chromium	0.76	16.6	16.6	mg/kg	
E200.7/NONE	SO	SAIA-SB25-0.5	N	Copper	1.9	23.6	23.6	mg/kg	
E200.7/NONE	SO	SAIA-SB25-0.5	N	Iron	7.6	21100	21100	mg/kg	
E200.7/NONE	SO	SAIA-SB25-0.5	N	Potassium	381	3740	3740	mg/kg	
E200.7/NONE	SO	SAIA-SB25-0.5	N	Magnesium	381	6360	6360	mg/kg	
E200.7/NONE	SO	SAIA-SB25-0.5	N	Manganese	1.1	313	313	mg/kg	
E200.7/NONE	SO	SAIA-SB25-0.5	N	Sodium	381	285 J	285 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB25-0.5	N	Nickel	3.1	13.0	13.0	mg/kg	
E200.7/NONE	SO	SAIA-SB25-0.5	N	Lead	0.76	107	107	mg/kg	
E200.7/NONE	SO	SAIA-SB25-0.5	N	Antimony	4.6	1.4 JN	1.4 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB25-0.5	N	Selenium	2.7	2.1 J	2.1 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB25-0.5	N	Vanadium	3.8	36.8	36.8	mg/kg	
E200.7/NONE	SO	SAIA-SB25-0.5	N	Zinc	4.6	78.2	78.2	mg/kg	
E200.7/NONE	SO	SAIA-SB25-15	N	Aluminum	16.9	18400	18400	mg/kg	
E200.7/NONE	SO	SAIA-SB25-15	N	Arsenic	0.85	5.4	5.4	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EB9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB25-15	N	Barium	16.9	159	159	mg/kg	
E200.7/NONE	SO	SAIA-SB25-15	N	Beryllium	0.42	0.76	0.76	mg/kg	
E200.7/NONE	SO	SAIA-SB25-15	N	Calcium	423	12000	12000	mg/kg	
E200.7/NONE	SO	SAIA-SB25-15	N	Cobalt	4.2	13.7	13.7	mg/kg	
E200.7/NONE	SO	SAIA-SB25-15	N	Chromium	0.85	22.6	22.6	mg/kg	
E200.7/NONE	SO	SAIA-SB25-15	N	Copper	2.1	25.0	25.0	mg/kg	
E200.7/NONE	SO	SAIA-SB25-15	N	Iron	8.5	28700	28700	mg/kg	
E200.7/NONE	SO	SAIA-SB25-15	N	Potassium	423	5050	5050	mg/kg	
E200.7/NONE	SO	SAIA-SB25-15	N	Magnesium	423	9990	9990	mg/kg	
E200.7/NONE	SO	SAIA-SB25-15	N	Manganese	1.3	488	488	mg/kg	
E200.7/NONE	SO	SAIA-SB25-15	N	Sodium	423	658	658	mg/kg	
E200.7/NONE	SO	SAIA-SB25-15	N	Nickel	3.4	18.4	18.4	mg/kg	
E200.7/NONE	SO	SAIA-SB25-15	N	Lead	0.85	5.4	5.4	mg/kg	
E200.7/NONE	SO	SAIA-SB25-15	N	Antimony	5.1	0.59 JN	0.59 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB25-15	N	Selenium	3.0	2.9 J	2.9 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB25-15	N	Vanadium	4.2	53.0	53.0	mg/kg	
E200.7/NONE	SO	SAIA-SB25-15	N	Zinc	5.1	69.9	69.9	mg/kg	
E200.7/NONE	SO	SAIA-SB25-2	N	Aluminum	17.3	16800	16800	mg/kg	
E200.7/NONE	SO	SAIA-SB25-2	N	Barium	17.3	165	165	mg/kg	
E200.7/NONE	SO	SAIA-SB25-2	N	Beryllium	0.43	0.66	0.66	mg/kg	
E200.7/NONE	SO	SAIA-SB25-2	N	Calcium	433	9380	9380	mg/kg	
E200.7/NONE	SO	SAIA-SB25-2	N	Cobalt	4.3	11.4	11.4	mg/kg	
E200.7/NONE	SO	SAIA-SB25-2	N	Chromium	0.87	21.6	21.6	mg/kg	
E200.7/NONE	SO	SAIA-SB25-2	N	Copper	2.2	23.1	23.1	mg/kg	
E200.7/NONE	SO	SAIA-SB25-2	N	Iron	8.7	28600	28600	mg/kg	
E200.7/NONE	SO	SAIA-SB25-2	N	Potassium	433	5230	5230	mg/kg	
E200.7/NONE	SO	SAIA-SB25-2	N	Magnesium	433	8970	8970	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB25-2	N	Manganese	1.3	419	419	mg/kg	
E200.7/NONE	SO	SAIA-SB25-2	N	Sodium	433	376 J	376 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB25-2	N	Nickel	3.5	18.4	18.4	mg/kg	
E200.7/NONE	SO	SAIA-SB25-2	N	Lead	0.87	4.8	4.8	mg/kg	
E200.7/NONE	SO	SAIA-SB25-2	N	Antimony	5.2	11.8 N	11.8	mg/kg	
E200.7/NONE	SO	SAIA-SB25-2	N	Selenium	3.0	7.5	7.5	mg/kg	
E200.7/NONE	SO	SAIA-SB25-2	N	Thallium	2.2	12.6 N	12.6	mg/kg	
E200.7/NONE	SO	SAIA-SB25-2	N	Vanadium	4.3	49.8	49.8	mg/kg	
E200.7/NONE	SO	SAIA-SB25-2	N	Zinc	5.2	68.7	68.7	mg/kg	
E200.7/NONE	SO	SAIA-SB25-25	N	Aluminum	17.2	21500	21500	mg/kg	
E200.7/NONE	SO	SAIA-SB25-25	N	Arsenic	0.86	6.7	6.7	mg/kg	
E200.7/NONE	SO	SAIA-SB25-25	N	Barium	17.2	205	205	mg/kg	
E200.7/NONE	SO	SAIA-SB25-25	N	Beryllium	0.43	0.88	0.88	mg/kg	
E200.7/NONE	SO	SAIA-SB25-25	N	Calcium	429	8910	8910	mg/kg	
E200.7/NONE	SO	SAIA-SB25-25	N	Cobalt	4.3	17.8	17.8	mg/kg	
E200.7/NONE	SO	SAIA-SB25-25	N	Chromium	0.86	28.2	28.2	mg/kg	
E200.7/NONE	SO	SAIA-SB25-25	N	Copper	2.1	31.6	31.6	mg/kg	
E200.7/NONE	SO	SAIA-SB25-25	N	Iron	8.6	35200	35200	mg/kg	
E200.7/NONE	SO	SAIA-SB25-25	N	Potassium	429	5900	5900	mg/kg	
E200.7/NONE	SO	SAIA-SB25-25	N	Magnesium	429	11700	11700	mg/kg	
E200.7/NONE	SO	SAIA-SB25-25	N	Manganese	1.3	578	578	mg/kg	
E200.7/NONE	SO	SAIA-SB25-25	N	Sodium	429	1610	1610	mg/kg	
E200.7/NONE	SO	SAIA-SB25-25	N	Nickel	3.4	24.6	24.6	mg/kg	
E200.7/NONE	SO	SAIA-SB25-25	N	Lead	0.86	6.8	6.8	mg/kg	
E200.7/NONE	SO	SAIA-SB25-25	N	Antimony	5.1	0.43 JN	0.43 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB25-25	N	Selenium	3.0	4.1	4.1	mg/kg	
E200.7/NONE	SO	SAIA-SB25-25	N	Vanadium	4.3	59.9	59.9	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EB9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB25-25	N	Zinc	5.1	81.1	81.1	mg/kg	
E200.7/NONE	SO	SAIA-SB25-35	N	Aluminum	15.9	8300	8300	mg/kg	
E200.7/NONE	SO	SAIA-SB25-35	N	Arsenic	0.80	11.1	11.1	mg/kg	
E200.7/NONE	SO	SAIA-SB25-35	N	Barium	15.9	91.5	91.5	mg/kg	
E200.7/NONE	SO	SAIA-SB25-35	N	Beryllium	0.40	0.38 J	0.38 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB25-35	N	Calcium	398	4340	4340	mg/kg	
E200.7/NONE	SO	SAIA-SB25-35	N	Cobalt	4.0	6.7	6.7	mg/kg	
E200.7/NONE	SO	SAIA-SB25-35	N	Chromium	0.80	10.3	10.3	mg/kg	
E200.7/NONE	SO	SAIA-SB25-35	N	Copper	2.0	9.8	9.8	mg/kg	
E200.7/NONE	SO	SAIA-SB25-35	N	Iron	8.0	16800	16800	mg/kg	
E200.7/NONE	SO	SAIA-SB25-35	N	Potassium	398	2450	2450	mg/kg	
E200.7/NONE	SO	SAIA-SB25-35	N	Magnesium	398	4790	4790	mg/kg	
E200.7/NONE	SO	SAIA-SB25-35	N	Manganese	1.2	233	233	mg/kg	
E200.7/NONE	SO	SAIA-SB25-35	N	Sodium	398	520	520	mg/kg	
E200.7/NONE	SO	SAIA-SB25-35	N	Nickel	3.2	7.2	7.2	mg/kg	
E200.7/NONE	SO	SAIA-SB25-35	N	Lead	0.80	2.4	2.4	mg/kg	
E200.7/NONE	SO	SAIA-SB25-35	N	Selenium	2.8	1.5 J	1.5 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB25-35	N	Vanadium	4.0	30.0	30.0	mg/kg	
E200.7/NONE	SO	SAIA-SB25-35	N	Zinc	4.8	35.0	35.0	mg/kg	
E200.7/NONE	SO	SAIA-SB25-5	N	Aluminum	17.0	20200	20200	mg/kg	
E200.7/NONE	SO	SAIA-SB25-5	N	Arsenic	0.85	5.2	5.2	mg/kg	
E200.7/NONE	SO	SAIA-SB25-5	N	Barium	17.0	195	195	mg/kg	
E200.7/NONE	SO	SAIA-SB25-5	N	Beryllium	0.42	0.82	0.82	mg/kg	
E200.7/NONE	SO	SAIA-SB25-5	N	Calcium	425	12500	12500	mg/kg	
E200.7/NONE	SO	SAIA-SB25-5	N	Cobalt	4.2	16.6	16.6	mg/kg	
E200.7/NONE	SO	SAIA-SB25-5	N	Chromium	0.85	26.0	26.0	mg/kg	
E200.7/NONE	SO	SAIA-SB25-5	N	Copper	2.1	28.5	28.5	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EB9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB25-5	N	Iron	8.5	31800	31800	mg/kg	
E200.7/NONE	SO	SAIA-SB25-5	N	Potassium	425	5770	5770	mg/kg	
E200.7/NONE	SO	SAIA-SB25-5	N	Magnesium	425	11100	11100	mg/kg	
E200.7/NONE	SO	SAIA-SB25-5	N	Manganese	1.3	506	506	mg/kg	
E200.7/NONE	SO	SAIA-SB25-5	N	Sodium	425	453	453	mg/kg	
E200.7/NONE	SO	SAIA-SB25-5	N	Nickel	3.4	22.4	22.4	mg/kg	
E200.7/NONE	SO	SAIA-SB25-5	N	Lead	0.85	5.8	5.8	mg/kg	
E200.7/NONE	SO	SAIA-SB25-5	N	Antimony	5.1	0.47 JN	0.47 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB25-5	N	Selenium	3.0	2.9 J	2.9 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB25-5	N	Vanadium	4.2	59.5	59.5	mg/kg	
E200.7/NONE	SO	SAIA-SB25-5	N	Zinc	5.1	81.5	81.5	mg/kg	
E200.7/NONE	SO	SAIA-SB27-0.5	N	Aluminum	15.4	9650	9650	mg/kg	
E200.7/NONE	SO	SAIA-SB27-0.5	N	Arsenic	0.77	11.0	11.0	mg/kg	
E200.7/NONE	SO	SAIA-SB27-0.5	N	Barium	15.4	320	320	mg/kg	
E200.7/NONE	SO	SAIA-SB27-0.5	N	Beryllium	0.39	0.41	0.41	mg/kg	
E200.7/NONE	SO	SAIA-SB27-0.5	N	Calcium	385	7110	7110	mg/kg	
E200.7/NONE	SO	SAIA-SB27-0.5	N	Cobalt	3.9	8.4	8.4	mg/kg	
E200.7/NONE	SO	SAIA-SB27-0.5	N	Chromium	0.77	35.8	35.8	mg/kg	
E200.7/NONE	SO	SAIA-SB27-0.5	N	Copper	1.9	36.1	36.1	mg/kg	
E200.7/NONE	SO	SAIA-SB27-0.5	N	Iron	7.7	22900	22900	mg/kg	
E200.7/NONE	SO	SAIA-SB27-0.5	N	Potassium	385	3410	3410	mg/kg	
E200.7/NONE	SO	SAIA-SB27-0.5	N	Magnesium	385	4780	4780	mg/kg	
E200.7/NONE	SO	SAIA-SB27-0.5	N	Manganese	1.2	286	286	mg/kg	
E200.7/NONE	SO	SAIA-SB27-0.5	N	Sodium	385	752	752	mg/kg	
E200.7/NONE	SO	SAIA-SB27-0.5	N	Nickel	3.1	14.6	14.6	mg/kg	
E200.7/NONE	SO	SAIA-SB27-0.5	N	Lead	0.77	906	906	mg/kg	
E200.7/NONE	SO	SAIA-SB27-0.5	N	Antimony	4.6	21.0 N	21.0	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB27-0.5	N	Selenium	2.7	2.7 J	2.7	mg/kg	
E200.7/NONE	SO	SAIA-SB27-0.5	N	Vanadium	3.9	50.7	50.7	mg/kg	
E200.7/NONE	SO	SAIA-SB27-0.5	N	Zinc	4.6	531	531	mg/kg	
E200.7/NONE	SO	SAIA-SB27-15	N	Aluminum	16.7	16500	16500	mg/kg	
E200.7/NONE	SO	SAIA-SB27-15	N	Arsenic	0.83	5.1	5.1	mg/kg	
E200.7/NONE	SO	SAIA-SB27-15	N	Barium	16.7	142	142	mg/kg	
E200.7/NONE	SO	SAIA-SB27-15	N	Beryllium	0.42	0.69	0.69	mg/kg	
E200.7/NONE	SO	SAIA-SB27-15	N	Calcium	417	10200	10200	mg/kg	
E200.7/NONE	SO	SAIA-SB27-15	N	Cobalt	4.2	12.8	12.8	mg/kg	
E200.7/NONE	SO	SAIA-SB27-15	N	Chromium	0.83	22.7	22.7	mg/kg	
E200.7/NONE	SO	SAIA-SB27-15	N	Copper	2.1	23.0	23.0	mg/kg	
E200.7/NONE	SO	SAIA-SB27-15	N	Iron	8.3	29200	29200	mg/kg	
E200.7/NONE	SO	SAIA-SB27-15	N	Potassium	417	4270	4270	mg/kg	
E200.7/NONE	SO	SAIA-SB27-15	N	Magnesium	417	9000	9000	mg/kg	
E200.7/NONE	SO	SAIA-SB27-15	N	Manganese	1.3	407	407	mg/kg	
E200.7/NONE	SO	SAIA-SB27-15	N	Sodium	417	1690	1690	mg/kg	
E200.7/NONE	SO	SAIA-SB27-15	N	Nickel	3.3	18.2	18.2	mg/kg	
E200.7/NONE	SO	SAIA-SB27-15	N	Lead	0.83	10.2	10.2	mg/kg	
E200.7/NONE	SO	SAIA-SB27-15	N	Antimony	5.0	0.44 JN	0.44 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB27-15	N	Selenium	2.9	3.1	3.1	mg/kg	
E200.7/NONE	SO	SAIA-SB27-15	N	Vanadium	4.2	55.5	55.5	mg/kg	
E200.7/NONE	SO	SAIA-SB27-15	N	Zinc	5.0	67.9	67.9	mg/kg	
E200.7/NONE	SO	SAIA-SB27-2	N	Aluminum	15.4	14600	14600	mg/kg	
E200.7/NONE	SO	SAIA-SB27-2	N	Arsenic	0.77	3.5	3.5	mg/kg	
E200.7/NONE	SO	SAIA-SB27-2	N	Barium	15.4	148	148	mg/kg	
E200.7/NONE	SO	SAIA-SB27-2	N	Beryllium	0.38	0.58	0.58	mg/kg	
E200.7/NONE	SO	SAIA-SB27-2	N	Calcium	384	7870	7870	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EB9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB27-2	N	Cobalt	3.8	11.9	11.9	mg/kg	
E200.7/NONE	SO	SAIA-SB27-2	N	Chromium	0.77	19.4	19.4	mg/kg	
E200.7/NONE	SO	SAIA-SB27-2	N	Copper	1.9	19.5	19.5	mg/kg	
E200.7/NONE	SO	SAIA-SB27-2	N	Iron	7.7	25600	25600	mg/kg	
E200.7/NONE	SO	SAIA-SB27-2	N	Potassium	384	5040	5040	mg/kg	
E200.7/NONE	SO	SAIA-SB27-2	N	Magnesium	384	8050	8050	mg/kg	
E200.7/NONE	SO	SAIA-SB27-2	N	Manganese	1.2	365	365	mg/kg	
E200.7/NONE	SO	SAIA-SB27-2	N	Sodium	384	555	555	mg/kg	
E200.7/NONE	SO	SAIA-SB27-2	N	Nickel	3.1	15.5	15.5	mg/kg	
E200.7/NONE	SO	SAIA-SB27-2	N	Lead	0.77	6.7	6.7	mg/kg	
E200.7/NONE	SO	SAIA-SB27-2	N	Antimony	4.6	0.55 JN	0.55 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB27-2	N	Selenium	2.7	2.5 J	2.5 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB27-2	N	Vanadium	3.8	45.7	45.7	mg/kg	
E200.7/NONE	SO	SAIA-SB27-2	N	Zinc	4.6	64.2	64.2	mg/kg	
E200.7/NONE	SO	SAIA-SB27-25	N	Aluminum	18.5	27100	27100	mg/kg	
E200.7/NONE	SO	SAIA-SB27-25	N	Arsenic	0.93	7.0	7.0	mg/kg	
E200.7/NONE	SO	SAIA-SB27-25	N	Barium	18.5	233	233	mg/kg	
E200.7/NONE	SO	SAIA-SB27-25	N	Beryllium	0.46	1.1	1.1	mg/kg	
E200.7/NONE	SO	SAIA-SB27-25	N	Calcium	463	11700	11700	mg/kg	
E200.7/NONE	SO	SAIA-SB27-25	N	Cobalt	4.6	18.5	18.5	mg/kg	
E200.7/NONE	SO	SAIA-SB27-25	N	Chromium	0.93	31.9	31.9	mg/kg	
E200.7/NONE	SO	SAIA-SB27-25	N	Copper	2.3	42.3	42.3	mg/kg	
E200.7/NONE	SO	SAIA-SB27-25	N	Iron	9.3	36600	36600	mg/kg	
E200.7/NONE	SO	SAIA-SB27-25	N	Potassium	463	5230	5230	mg/kg	
E200.7/NONE	SO	SAIA-SB27-25	N	Magnesium	463	12600	12600	mg/kg	
E200.7/NONE	SO	SAIA-SB27-25	N	Manganese	1.4	531	531	mg/kg	
E200.7/NONE	SO	SAIA-SB27-25	N	Sodium	463	2020	2020	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EB9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB27-25	N	Nickel	3.7	27.1	27.1	mg/kg	
E200.7/NONE	SO	SAIA-SB27-25	N	Lead	0.93	9.2	9.2	mg/kg	
E200.7/NONE	SO	SAIA-SB27-25	N	Antimony	5.6	0.33 JN	0.33 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB27-25	N	Selenium	3.2	3.5	3.5	mg/kg	
E200.7/NONE	SO	SAIA-SB27-25	N	Vanadium	4.6	74.3	74.3	mg/kg	
E200.7/NONE	SO	SAIA-SB27-25	N	Zinc	5.6	88.2	88.2	mg/kg	
E200.7/NONE	SO	SAIA-SB27-35	N	Aluminum	15.2	9560	9560	mg/kg	
E200.7/NONE	SO	SAIA-SB27-35	N	Arsenic	0.76	13.1	13.1	mg/kg	
E200.7/NONE	SO	SAIA-SB27-35	N	Barium	15.2	104	104	mg/kg	
E200.7/NONE	SO	SAIA-SB27-35	N	Beryllium	0.38	0.40	0.40	mg/kg	
E200.7/NONE	SO	SAIA-SB27-35	N	Calcium	380	5120	5120	mg/kg	
E200.7/NONE	SO	SAIA-SB27-35	N	Cobalt	3.8	7.4	7.4	mg/kg	
E200.7/NONE	SO	SAIA-SB27-35	N	Chromium	0.76	11.4	11.4	mg/kg	
E200.7/NONE	SO	SAIA-SB27-35	N	Copper	1.9	11.9	11.9	mg/kg	
E200.7/NONE	SO	SAIA-SB27-35	N	Iron	7.6	17600	17600	mg/kg	
E200.7/NONE	SO	SAIA-SB27-35	N	Potassium	380	3030	3030	mg/kg	
E200.7/NONE	SO	SAIA-SB27-35	N	Magnesium	380	5740	5740	mg/kg	
E200.7/NONE	SO	SAIA-SB27-35	N	Manganese	1.1	279	279	mg/kg	
E200.7/NONE	SO	SAIA-SB27-35	N	Sodium	380	615	615	mg/kg	
E200.7/NONE	SO	SAIA-SB27-35	N	Nickel	3.0	8.5	8.5	mg/kg	
E200.7/NONE	SO	SAIA-SB27-35	N	Lead	0.76	2.3	2.3	mg/kg	
E200.7/NONE	SO	SAIA-SB27-35	N	Antimony	4.6	0.14 JN	0.14 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB27-35	N	Selenium	2.7	1.8 J	1.8 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB27-35	N	Vanadium	3.8	30.6	30.6	mg/kg	
E200.7/NONE	SO	SAIA-SB27-35	N	Zinc	4.6	40.6	40.6	mg/kg	
E200.7/NONE	SO	SAIA-SB27-5	N	Aluminum	14.6	17900	17900	mg/kg	
E200.7/NONE	SO	SAIA-SB27-5	N	Arsenic	0.73	4.5	4.5	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EB9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB27-5	N	Barium	14.6	186	186	mg/kg	
E200.7/NONE	SO	SAIA-SB27-5	N	Beryllium	0.37	0.68	0.68	mg/kg	
E200.7/NONE	SO	SAIA-SB27-5	N	Calcium	366	8710	8710	mg/kg	
E200.7/NONE	SO	SAIA-SB27-5	N	Cobalt	3.7	14.6	14.6	mg/kg	
E200.7/NONE	SO	SAIA-SB27-5	N	Chromium	0.73	23.5	23.5	mg/kg	
E200.7/NONE	SO	SAIA-SB27-5	N	Copper	1.8	23.7	23.7	mg/kg	
E200.7/NONE	SO	SAIA-SB27-5	N	Iron	7.3	29700	29700	mg/kg	
E200.7/NONE	SO	SAIA-SB27-5	N	Potassium	366	6290	6290	mg/kg	
E200.7/NONE	SO	SAIA-SB27-5	N	Magnesium	366	10500	10500	mg/kg	
E200.7/NONE	SO	SAIA-SB27-5	N	Manganese	1.1	469	469	mg/kg	
E200.7/NONE	SO	SAIA-SB27-5	N	Sodium	366	523	523	mg/kg	
E200.7/NONE	SO	SAIA-SB27-5	N	Nickel	2.9	19.2	19.2	mg/kg	
E200.7/NONE	SO	SAIA-SB27-5	N	Lead	0.73	7.7	7.7	mg/kg	
E200.7/NONE	SO	SAIA-SB27-5	N	Antimony	4.4	0.43 JN	0.43 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB27-5	N	Selenium	2.6	2.7	2.7	mg/kg	
E200.7/NONE	SO	SAIA-SB27-5	N	Vanadium	3.7	54.2	54.2	mg/kg	
E200.7/NONE	SO	SAIA-SB27-5	N	Zinc	4.4	76.9	76.9	mg/kg	
E200.7/NONE	SO	SAIA-SB28-0.5	N	Aluminum	16.9	13000	13000	mg/kg	
E200.7/NONE	SO	SAIA-SB28-0.5	N	Arsenic	0.85	3.9	3.9	mg/kg	
E200.7/NONE	SO	SAIA-SB28-0.5	N	Barium	16.9	128	128	mg/kg	
E200.7/NONE	SO	SAIA-SB28-0.5	N	Beryllium	0.42	0.51	0.51	mg/kg	
E200.7/NONE	SO	SAIA-SB28-0.5	N	Calcium	423	8690	8690	mg/kg	
E200.7/NONE	SO	SAIA-SB28-0.5	N	Cobalt	4.2	10.0	10.0	mg/kg	
E200.7/NONE	SO	SAIA-SB28-0.5	N	Chromium	0.85	17.9	17.9	mg/kg	
E200.7/NONE	SO	SAIA-SB28-0.5	N	Copper	2.1	19.3	19.3	mg/kg	
E200.7/NONE	SO	SAIA-SB28-0.5	N	Iron	8.5	24200	24200	mg/kg	
E200.7/NONE	SO	SAIA-SB28-0.5	N	Potassium	423	4760	4760	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB28-0.5	N	Magnesium	423	6890	6890	mg/kg	
E200.7/NONE	SO	SAIA-SB28-0.5	N	Manganese	1.3	305	305	mg/kg	
E200.7/NONE	SO	SAIA-SB28-0.5	N	Sodium	423	523	523	mg/kg	
E200.7/NONE	SO	SAIA-SB28-0.5	N	Nickel	3.4	13.6	13.6	mg/kg	
E200.7/NONE	SO	SAIA-SB28-0.5	N	Lead	0.85	93.9	93.9	mg/kg	
E200.7/NONE	SO	SAIA-SB28-0.5	N	Antimony	5.1	4.0 JN	4.0 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB28-0.5	N	Selenium	3.0	2.6 J	2.6 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB28-0.5	N	Vanadium	4.2	43.4	43.4	mg/kg	
E200.7/NONE	SO	SAIA-SB28-0.5	N	Zinc	5.1	70.6	70.6	mg/kg	
E200.7/NONE	SO	SAIA-SB28-2	N	Aluminum	15.1	11900	11900	mg/kg	
E200.7/NONE	SO	SAIA-SB28-2	N	Arsenic	0.75	3.4	3.4	mg/kg	
E200.7/NONE	SO	SAIA-SB28-2	N	Barium	15.1	115	115	mg/kg	
E200.7/NONE	SO	SAIA-SB28-2	N	Beryllium	0.38	0.47	0.47	mg/kg	
E200.7/NONE	SO	SAIA-SB28-2	N	Calcium	376	7530	7530	mg/kg	
E200.7/NONE	SO	SAIA-SB28-2	N	Cobalt	3.8	9.2	9.2	mg/kg	
E200.7/NONE	SO	SAIA-SB28-2	N	Chromium	0.75	16.0	16.0	mg/kg	
E200.7/NONE	SO	SAIA-SB28-2	N	Copper	1.9	14.3	14.3	mg/kg	
E200.7/NONE	SO	SAIA-SB28-2	N	Iron	7.5	21800	21800	mg/kg	
E200.7/NONE	SO	SAIA-SB28-2	N	Potassium	376	3980	3980	mg/kg	
E200.7/NONE	SO	SAIA-SB28-2	N	Magnesium	376	6360	6360	mg/kg	
E200.7/NONE	SO	SAIA-SB28-2	N	Manganese	1.1	288	288	mg/kg	
E200.7/NONE	SO	SAIA-SB28-2	N	Sodium	376	407	407	mg/kg	
E200.7/NONE	SO	SAIA-SB28-2	N	Nickel	3.0	11.9	11.9	mg/kg	
E200.7/NONE	SO	SAIA-SB28-2	N	Lead	0.75	6.7	6.7	mg/kg	
E200.7/NONE	SO	SAIA-SB28-2	N	Antimony	4.5	0.32 JN	0.32 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB28-2	N	Selenium	2.6	2.5 J	2.5 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB28-2	N	Vanadium	3.8	40.5	40.5	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EB9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB28-2	N	Zinc	4.5	49.4	49.4	mg/kg	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	SAIA-SB27-25	N	Mercury	0.11	0.23	0.23	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EB9

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9EF4

Facility: Southern Avenue Industrial Area

Soil Boring Sampling Event, April 2014

Guidance Document:

Contract Laboratory: CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ

Field Contractor:

Data Review Contractor: Gilbane

SDG: MY9EF4, Certified - 5/14/2014 by wtse

QC Level: S1BVEM

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: November 24, 2014

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG MY9EF4

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
E200.7/NONE	19	1
SW7471B/NONE	19	1

AUTOMATED DATA REVIEW SUMMARY for MY9EF4

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Material Blank
- MS RPD
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for MY9EF4

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 24 results (5.22%) out of the 460 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Gilbane reviewed the Chemtech lab report, COCs, case narrative, and EXES data review package.

No sample receipt issues or calibration anomalies were noted.

Qualifiers were added for lab blank (B2, B5) detects, and minor interference check (O), and matrix (M) effects.

24-Nov-2014

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for MY9EF4

Batch Report

AUTOMATED DATA REVIEW SUMMARY for MY9EF4

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70596-CC	PB76096	NA	LABQC	SQ	LABQC	PB76096BL	LB70596-S0	1/1	16-Apr-2014 12:00 PM	16-Apr-2014 12:00 PM	16-Apr-2014 7:31 PM	LB
	PB76096	NA	SAIA-SB/SG28	SO	SAIA-SB28-15	F1998-02	LB70596-S0	1/1	14-Apr-2014 2:20 PM	16-Apr-2014 12:00 PM	16-Apr-2014 7:44 PM	N
	PB76096	NA	SAIA-SB/SG28	SO	SAIA-SB28-25	F1998-03	LB70596-S0	1/1	14-Apr-2014 2:30 PM	16-Apr-2014 12:00 PM	16-Apr-2014 7:47 PM	N
	PB76096	NA	SAIA-SB/SG28	SO	SAIA-SB28-35	F1998-04	LB70596-S0	1/1	14-Apr-2014 2:40 PM	16-Apr-2014 12:00 PM	16-Apr-2014 7:51 PM	N
	PB76096	NA	SAIA-SB/SG28	SO	SAIA-SB28-5	F1998-01	LB70596-S0	1/1	14-Apr-2014 2:10 PM	16-Apr-2014 12:00 PM	16-Apr-2014 7:40 PM	N
	PB76096	NA	SAIA-SB/SG30	SO	SAIA-SB30-15	F1998-10	LB70596-S0	1/1	15-Apr-2014 8:00 AM	16-Apr-2014 12:00 PM	16-Apr-2014 8:15 PM	N
	PB76096	NA	SAIA-SB/SG30	SO	SAIA-SB30-2	F1998-07	LB70596-S0	1/1	15-Apr-2014 7:45 AM	16-Apr-2014 12:00 PM	16-Apr-2014 7:59 PM	LR
	PB76096	NA	SAIA-SB/SG30	SO	SAIA-SB30-2	F1998-08	LB70596-S0	1/1	15-Apr-2014 7:45 AM	16-Apr-2014 12:00 PM	16-Apr-2014 8:03 PM	MS
	PB76096	NA	SAIA-SB/SG30	SO	SAIA-SB30-2	F1998-06	LB70596-S0	1/1	15-Apr-2014 7:45 AM	16-Apr-2014 12:00 PM	16-Apr-2014 7:55 PM	N
	PB76096	NA	SAIA-SB/SG30	SO	SAIA-SB30-25	F1998-11	LB70596-S0	1/1	15-Apr-2014 8:10 AM	16-Apr-2014 12:00 PM	16-Apr-2014 8:19 PM	N
	PB76096	NA	SAIA-SB/SG30	SO	SAIA-SB30-35	F1998-12	LB70596-S0	1/1	15-Apr-2014 8:20 AM	16-Apr-2014 12:00 PM	16-Apr-2014 8:23 PM	N
	PB76096	NA	SAIA-SB/SG30	SO	SAIA-SB30-5	F1998-09	LB70596-S0	1/1	15-Apr-2014 7:50 AM	16-Apr-2014 12:00 PM	16-Apr-2014 8:11 PM	N
	PB76096	NA	SAIA-SB/SG31	SO	SAIA-SB31-0.5	F1998-13	LB70596-S0	1/1	15-Apr-2014 9:10 AM	16-Apr-2014 12:00 PM	16-Apr-2014 8:35 PM	N
	PB76096	NA	SAIA-SB/SG31	SO	SAIA-SB31-15	F1998-16	LB70596-S0	1/1	15-Apr-2014 9:30 AM	16-Apr-2014 12:00 PM	16-Apr-2014 8:47 PM	N
	PB76096	NA	SAIA-SB/SG31	SO	SAIA-SB31-2	F1998-14	LB70596-S0	1/1	15-Apr-2014 9:15 AM	16-Apr-2014 12:00 PM	16-Apr-2014 8:39 PM	N
	PB76096	NA	SAIA-SB/SG31	SO	SAIA-SB31-25	F1998-17	LB70596-S0	1/1	15-Apr-2014 9:40 AM	16-Apr-2014 12:00 PM	16-Apr-2014 8:51 PM	N
	PB76096	NA	SAIA-SB/SG31	SO	SAIA-SB31-35	F1998-19	LB70596-S0	1/1	15-Apr-2014 9:55 AM	16-Apr-2014 12:00 PM	16-Apr-2014 8:59 PM	N
	PB76096	NA	SAIA-SB/SG31	SO	SAIA-SB31-36	F1998-18	LB70596-S0	1/1	15-Apr-2014 10:00 AM	16-Apr-2014 12:00 PM	16-Apr-2014 8:55 PM	FD
	PB76096	NA	SAIA-SB/SG31	SO	SAIA-SB31-5	F1998-15	LB70596-S0	1/1	15-Apr-2014 9:20 AM	16-Apr-2014 12:00 PM	16-Apr-2014 8:43 PM	N
	PB76096	NA	SAIA-SB/SG32	SO	SAIA-SB32-0.5	F1998-20	LB70596-S0	1/1	15-Apr-2014 1:00 PM	16-Apr-2014 12:00 PM	16-Apr-2014 9:03 PM	N
	PB76096	NA	SAIA-SB/SG32	SO	SAIA-SB32-2	F1998-21	LB70596-S0	1/1	15-Apr-2014 1:05 PM	16-Apr-2014 12:00 PM	16-Apr-2014 9:07 PM	N
	PB76096	NA	SAIA-SB/SG32	SO	SAIA-SB32-5	F1998-22	LB70596-S0	1/1	15-Apr-2014 1:10 PM	16-Apr-2014 12:00 PM	16-Apr-2014 9:11 PM	N

AUTOMATED DATA REVIEW SUMMARY for MY9EF4

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70621-CC	PB76096	NA	LABQC	SQ	LABQC	PB76096BS	LB70621-S0	1/1	16-Apr-2014 12:00 PM	16-Apr-2014 12:00 PM	17-Apr-2014 1:32 PM	BS
	PB76096	NA	SAIA-SB/SG30	SO	SAIA-SB30-0.5	F1998-05	LB70621-S0	1/1	15-Apr-2014 7:40 AM	16-Apr-2014 12:00 PM	17-Apr-2014 1:40 PM	N

Test Method: SW7471B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70597-CC	PB76094	NA	LABQC	SQ	LABQC	PB76094BL	LB70597-S0	1/1	16-Apr-2014 12:00 PM	16-Apr-2014 12:00 PM	17-Apr-2014 10:36 AM	LB
	PB76094	NA	SAIA-SB/SG28	SO	SAIA-SB28-15	F1998-02	LB70597-S0	1/1	14-Apr-2014 2:20 PM	16-Apr-2014 12:00 PM	17-Apr-2014 10:41 AM	N
	PB76094	NA	SAIA-SB/SG28	SO	SAIA-SB28-25	F1998-03	LB70597-S0	1/1	14-Apr-2014 2:30 PM	16-Apr-2014 12:00 PM	17-Apr-2014 10:43 AM	N
	PB76094	NA	SAIA-SB/SG28	SO	SAIA-SB28-35	F1998-04	LB70597-S0	1/1	14-Apr-2014 2:40 PM	16-Apr-2014 12:00 PM	17-Apr-2014 10:45 AM	N
	PB76094	NA	SAIA-SB/SG28	SO	SAIA-SB28-5	F1998-01	LB70597-S0	1/1	14-Apr-2014 2:10 PM	16-Apr-2014 12:00 PM	17-Apr-2014 10:38 AM	N
	PB76094	NA	SAIA-SB/SG30	SO	SAIA-SB30-0.5	F1998-05	LB70597-S0	1/1	15-Apr-2014 7:40 AM	16-Apr-2014 12:00 PM	17-Apr-2014 10:47 AM	N
	PB76094	NA	SAIA-SB/SG30	SO	SAIA-SB30-15	F1998-10	LB70597-S0	1/1	15-Apr-2014 8:00 AM	16-Apr-2014 12:00 PM	17-Apr-2014 10:58 AM	N
	PB76094	NA	SAIA-SB/SG30	SO	SAIA-SB30-2	F1998-07	LB70597-S0	1/1	15-Apr-2014 7:45 AM	16-Apr-2014 12:00 PM	17-Apr-2014 11:01 AM	LR
	PB76094	NA	SAIA-SB/SG30	SO	SAIA-SB30-2	F1998-08	LB70597-S0	1/1	15-Apr-2014 7:45 AM	16-Apr-2014 12:00 PM	17-Apr-2014 10:53 AM	MS
	PB76094	NA	SAIA-SB/SG30	SO	SAIA-SB30-2	F1998-06	LB70597-S0	1/1	15-Apr-2014 7:45 AM	16-Apr-2014 12:00 PM	17-Apr-2014 10:49 AM	N
	PB76094	NA	SAIA-SB/SG30	SO	SAIA-SB30-25	F1998-11	LB70597-S0	1/1	15-Apr-2014 8:10 AM	16-Apr-2014 12:00 PM	17-Apr-2014 11:04 AM	N
	PB76094	NA	SAIA-SB/SG30	SO	SAIA-SB30-35	F1998-12	LB70597-S0	1/1	15-Apr-2014 8:20 AM	16-Apr-2014 12:00 PM	17-Apr-2014 11:06 AM	N
	PB76094	NA	SAIA-SB/SG30	SO	SAIA-SB30-5	F1998-09	LB70597-S0	1/1	15-Apr-2014 7:50 AM	16-Apr-2014 12:00 PM	17-Apr-2014 10:56 AM	N
	PB76094	NA	SAIA-SB/SG31	SO	SAIA-SB31-0.5	F1998-13	LB70597-S0	1/1	15-Apr-2014 9:10 AM	16-Apr-2014 12:00 PM	17-Apr-2014 11:08 AM	N
	PB76094	NA	SAIA-SB/SG31	SO	SAIA-SB31-15	F1998-16	LB70597-S0	1/1	15-Apr-2014 9:30 AM	16-Apr-2014 12:00 PM	17-Apr-2014 11:14 AM	N
	PB76094	NA	SAIA-SB/SG31	SO	SAIA-SB31-2	F1998-14	LB70597-S0	1/1	15-Apr-2014 9:15 AM	16-Apr-2014 12:00 PM	17-Apr-2014 11:10 AM	N
	PB76094	NA	SAIA-SB/SG31	SO	SAIA-SB31-25	F1998-17	LB70597-S0	1/1	15-Apr-2014 9:40 AM	16-Apr-2014 12:00 PM	17-Apr-2014 11:21 AM	N

AUTOMATED DATA REVIEW SUMMARY for MY9EF4

Batch Report

Test Method: SW7471B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70597-CC	PB76094	NA	SAIA-SB/SG31	SO	SAIA-SB31-35	F1998-19	LB70597-S0	1/1	15-Apr-2014 9:55 AM	16-Apr-2014 12:00 PM	17-Apr-2014 11:25 AM	N
	PB76094	NA	SAIA-SB/SG31	SO	SAIA-SB31-36	F1998-18	LB70597-S0	1/1	15-Apr-2014 10:00 AM	16-Apr-2014 12:00 PM	17-Apr-2014 11:23 AM	FD
	PB76094	NA	SAIA-SB/SG31	SO	SAIA-SB31-5	F1998-15	LB70597-S0	1/1	15-Apr-2014 9:20 AM	16-Apr-2014 12:00 PM	17-Apr-2014 11:12 AM	N
	PB76094	NA	SAIA-SB/SG32	SO	SAIA-SB32-0.5	F1998-20	LB70597-S0	1/1	15-Apr-2014 1:00 PM	16-Apr-2014 12:00 PM	17-Apr-2014 11:27 AM	N
	PB76094	NA	SAIA-SB/SG32	SO	SAIA-SB32-2	F1998-21	LB70597-S0	1/1	15-Apr-2014 1:05 PM	16-Apr-2014 12:00 PM	17-Apr-2014 11:30 AM	N
	PB76094	NA	SAIA-SB/SG32	SO	SAIA-SB32-5	F1998-22	LB70597-S0	1/1	15-Apr-2014 1:10 PM	16-Apr-2014 12:00 PM	17-Apr-2014 11:32 AM	N

AUTOMATED DATA REVIEW SUMMARY for MY9EF4

Field Batch Report

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9EF4

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
E200.7 / METHOD	MS Recovery	SAIA-SB30-2 (MS)	1 / 1.00	Antimony	48.9	Percent	J/R	75 - 125	50 - 140	M			
E200.7 / METHOD	MS Recovery	SAIA-SB30-2 (MS)	1 / 1.00	Thallium	32.9	Percent	J/R	75 - 125	50 - 140	M			

AUTOMATED DATA REVIEW SUMMARY for MY9EF4

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB28-15	N	Antimony	5.7	0.78 JN	0.78 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB28-25	N	Antimony	5.4	0.40 JN	0.40 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB28-25	N	Selenium	3.2	3.0 J	3.0 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB28-35	N	Antimony	4.6	0.19 JN	0.19 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB28-35	N	Selenium	2.7	2.1 J	2.1 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB28-5	N	Antimony	5.3	0.34 JN	0.34 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB28-5	N	Selenium	3.1	2.2 J	2.2 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB30-0.5	N	Antimony	4.7	0.99 JN	0.99 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB30-15	N	Antimony	4.7	0.45 JN	0.45 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB30-2	N	Antimony	4.5	0.70 JN	0.70 J	mg/kg	M/TR
E200.7/NONE	SO	SAIA-SB30-2	N	Iron	7.5	25300 E	25300 J	mg/kg	O
E200.7/NONE	SO	SAIA-SB30-2	N	Manganese	1.1	397 E	397 J	mg/kg	O
E200.7/NONE	SO	SAIA-SB30-2	N	Thallium	1.9	1.9 UN	1.9 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB30-2	N	Vanadium	3.8	45.6 E	45.6 J	mg/kg	O
E200.7/NONE	SO	SAIA-SB30-2	N	Zinc	4.5	64.9 E	64.9 J	mg/kg	O
E200.7/NONE	SO	SAIA-SB30-25	N	Antimony	4.8	0.60 JN	0.60 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB30-35	N	Beryllium	0.39	0.36 J	0.36 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB30-35	N	Selenium	2.7	1.8 J	1.8 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB30-5	N	Antimony	4.4	0.60 JN	0.60 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB30-5	N	Selenium	2.6	2.3 J	2.3 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-0.5	N	Antimony	4.9	1.5 JN	1.5 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-0.5	N	Selenium	2.9	2.3 J	2.3 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-0.5	N	Sodium	412	328 J	328 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-15	N	Antimony	5.3	0.33 JN	0.33 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-15	N	Selenium	3.1	2.9 J	2.9 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-2	N	Antimony	4.9	0.43 JN	0.43 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-2	N	Selenium	2.9	2.1 J	2.1 J	mg/kg	TR

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB31-2	N	Sodium	411	353 J	353 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-25	N	Antimony	5.7	0.85 JN	0.85 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-35	N	Beryllium	0.39	0.33 J	0.33 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-35	N	Selenium	2.7	1.4 J	1.4 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-35	N	Sodium	388	376 J	376 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-36	FD	Antimony	4.5	0.16 JN	0.16 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-36	FD	Beryllium	0.38	0.32 J	0.32 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-36	FD	Selenium	2.6	1.2 J	1.2 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-36	FD	Sodium	377	371 J	371 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-5	N	Antimony	5.1	0.36 JN	0.36 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-5	N	Selenium	3.0	2.3 J	2.3 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB32-0.5	N	Antimony	4.6	1.1 JN	1.1 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB32-0.5	N	Selenium	2.7	1.8 J	1.8 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB32-0.5	N	Sodium	383	272 J	272 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB32-2	N	Antimony	4.6	0.20 JN	0.20 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB32-2	N	Selenium	2.7	1.9 J	1.9 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB32-2	N	Sodium	382	281 J	281 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB32-5	N	Antimony	5.3	0.34 JN	0.34 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB32-5	N	Selenium	3.1	2.6 J	2.6 J	mg/kg	TR
Test Leach	**Matrix**	**FieldSample ID**	**Type**	**Analyte**	**RL**	**Lab Result**	**Qualified Result**	**Units**	**Reason**
SW7471B/NONE	SO	SAIA-SB28-25	N	Mercury	0.11	0.11 J	0.11 U	mg/kg	B2/B5
SW7471B/NONE	SO	SAIA-SB28-35	N	Mercury	0.10	0.10 J	0.10 U	mg/kg	B2/B5
SW7471B/NONE	SO	SAIA-SB28-5	N	Mercury	0.11	0.11 J	0.11 U	mg/kg	B2/B5
SW7471B/NONE	SO	SAIA-SB30-15	N	Mercury	0.095	0.095 J	0.095 U	mg/kg	B2/B5
SW7471B/NONE	SO	SAIA-SB30-2	N	Mercury	0.11	0.11 J	0.11 U	mg/kg	B2/B5
SW7471B/NONE	SO	SAIA-SB30-25	N	Mercury	0.10	0.10 J	0.10 U	mg/kg	B2/B5
SW7471B/NONE	SO	SAIA-SB30-35	N	Mercury	0.094	0.094 J	0.094 U	mg/kg	B2/B5

AUTOMATED DATA REVIEW SUMMARY for MY9EF4

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	SAIA-SB30-5	N	Mercury	0.090	0.090 J	0.090 U	mg/kg	B2/B5
SW7471B/NONE	SO	SAIA-SB31-0.5	N	Mercury	0.10	0.10 J	0.10 U	mg/kg	B2/B5
SW7471B/NONE	SO	SAIA-SB31-15	N	Mercury	0.11	0.11 J	0.11 U	mg/kg	B2/B5
SW7471B/NONE	SO	SAIA-SB31-2	N	Mercury	0.097	0.097 J	0.097 U	mg/kg	B2/B5
SW7471B/NONE	SO	SAIA-SB31-25	N	Mercury	0.11	0.11 J	0.11 U	mg/kg	B2/B5
SW7471B/NONE	SO	SAIA-SB31-35	N	Mercury	0.090	0.090 J	0.090 U	mg/kg	B2/B5
SW7471B/NONE	SO	SAIA-SB31-36	FD	Mercury	0.099	0.099 J	0.099 U	mg/kg	B2/B5
SW7471B/NONE	SO	SAIA-SB31-5	N	Mercury	0.11	0.11 J	0.11 U	mg/kg	B2/B5
SW7471B/NONE	SO	SAIA-SB32-0.5	N	Mercury	0.11	0.11 J	0.11 U	mg/kg	B2/B5
SW7471B/NONE	SO	SAIA-SB32-2	N	Mercury	0.096	0.096 J	0.096 U	mg/kg	B2/B5
SW7471B/NONE	SO	SAIA-SB32-5	N	Mercury	0.10	0.10 J	0.10 U	mg/kg	B2/B5

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB28-15	N	Aluminum	18.9	32000	32000	mg/kg	
E200.7/NONE	SO	SAIA-SB28-15	N	Arsenic	0.95	9.6	9.6	mg/kg	
E200.7/NONE	SO	SAIA-SB28-15	N	Barium	18.9	270	270	mg/kg	
E200.7/NONE	SO	SAIA-SB28-15	N	Beryllium	0.47	1.3	1.3	mg/kg	
E200.7/NONE	SO	SAIA-SB28-15	N	Calcium	473	19400	19400	mg/kg	
E200.7/NONE	SO	SAIA-SB28-15	N	Cobalt	4.7	21.3	21.3	mg/kg	
E200.7/NONE	SO	SAIA-SB28-15	N	Chromium	0.95	33.7	33.7	mg/kg	
E200.7/NONE	SO	SAIA-SB28-15	N	Copper	2.4	51.5	51.5	mg/kg	
E200.7/NONE	SO	SAIA-SB28-15	N	Iron	9.5	41700 E	41700	mg/kg	
E200.7/NONE	SO	SAIA-SB28-15	N	Potassium	473	5230	5230	mg/kg	
E200.7/NONE	SO	SAIA-SB28-15	N	Magnesium	473	13900	13900	mg/kg	
E200.7/NONE	SO	SAIA-SB28-15	N	Manganese	1.4	643 E	643	mg/kg	
E200.7/NONE	SO	SAIA-SB28-15	N	Sodium	473	2340	2340	mg/kg	
E200.7/NONE	SO	SAIA-SB28-15	N	Nickel	3.8	31.6	31.6	mg/kg	
E200.7/NONE	SO	SAIA-SB28-15	N	Lead	0.95	11.1	11.1	mg/kg	
E200.7/NONE	SO	SAIA-SB28-15	N	Antimony	5.7	0.78 JN	0.78 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB28-15	N	Selenium	3.3	4.3	4.3	mg/kg	
E200.7/NONE	SO	SAIA-SB28-15	N	Vanadium	4.7	82.4 E	82.4	mg/kg	
E200.7/NONE	SO	SAIA-SB28-15	N	Zinc	5.7	99.7 E	99.7	mg/kg	
E200.7/NONE	SO	SAIA-SB28-25	N	Aluminum	18.2	19300	19300	mg/kg	
E200.7/NONE	SO	SAIA-SB28-25	N	Arsenic	0.91	15.3	15.3	mg/kg	
E200.7/NONE	SO	SAIA-SB28-25	N	Barium	18.2	180	180	mg/kg	
E200.7/NONE	SO	SAIA-SB28-25	N	Beryllium	0.45	0.72	0.72	mg/kg	
E200.7/NONE	SO	SAIA-SB28-25	N	Calcium	454	22400	22400	mg/kg	
E200.7/NONE	SO	SAIA-SB28-25	N	Cobalt	4.5	14.1	14.1	mg/kg	
E200.7/NONE	SO	SAIA-SB28-25	N	Chromium	0.91	22.9	22.9	mg/kg	
E200.7/NONE	SO	SAIA-SB28-25	N	Copper	2.3	26.8	26.8	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB28-25	N	Iron	9.1	28900 E	28900	mg/kg	
E200.7/NONE	SO	SAIA-SB28-25	N	Potassium	454	4960	4960	mg/kg	
E200.7/NONE	SO	SAIA-SB28-25	N	Magnesium	454	10500	10500	mg/kg	
E200.7/NONE	SO	SAIA-SB28-25	N	Manganese	1.4	659 E	659	mg/kg	
E200.7/NONE	SO	SAIA-SB28-25	N	Sodium	454	1020	1020	mg/kg	
E200.7/NONE	SO	SAIA-SB28-25	N	Nickel	3.6	19.2	19.2	mg/kg	
E200.7/NONE	SO	SAIA-SB28-25	N	Lead	0.91	5.8	5.8	mg/kg	
E200.7/NONE	SO	SAIA-SB28-25	N	Antimony	5.4	0.40 JN	0.40 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB28-25	N	Selenium	3.2	3.0 J	3.0 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB28-25	N	Vanadium	4.5	53.4 E	53.4	mg/kg	
E200.7/NONE	SO	SAIA-SB28-25	N	Zinc	5.4	68.2 E	68.2	mg/kg	
E200.7/NONE	SO	SAIA-SB28-35	N	Aluminum	15.4	10800	10800	mg/kg	
E200.7/NONE	SO	SAIA-SB28-35	N	Arsenic	0.77	13.7	13.7	mg/kg	
E200.7/NONE	SO	SAIA-SB28-35	N	Barium	15.4	105	105	mg/kg	
E200.7/NONE	SO	SAIA-SB28-35	N	Beryllium	0.39	0.42	0.42	mg/kg	
E200.7/NONE	SO	SAIA-SB28-35	N	Calcium	385	13800	13800	mg/kg	
E200.7/NONE	SO	SAIA-SB28-35	N	Cobalt	3.9	8.6	8.6	mg/kg	
E200.7/NONE	SO	SAIA-SB28-35	N	Chromium	0.77	12.7	12.7	mg/kg	
E200.7/NONE	SO	SAIA-SB28-35	N	Copper	1.9	11.7	11.7	mg/kg	
E200.7/NONE	SO	SAIA-SB28-35	N	Iron	7.7	18900 E	18900	mg/kg	
E200.7/NONE	SO	SAIA-SB28-35	N	Potassium	385	3650	3650	mg/kg	
E200.7/NONE	SO	SAIA-SB28-35	N	Magnesium	385	6790	6790	mg/kg	
E200.7/NONE	SO	SAIA-SB28-35	N	Manganese	1.2	342 E	342	mg/kg	
E200.7/NONE	SO	SAIA-SB28-35	N	Sodium	385	577	577	mg/kg	
E200.7/NONE	SO	SAIA-SB28-35	N	Nickel	3.1	10.2	10.2	mg/kg	
E200.7/NONE	SO	SAIA-SB28-35	N	Lead	0.77	2.6	2.6	mg/kg	
E200.7/NONE	SO	SAIA-SB28-35	N	Antimony	4.6	0.19 JN	0.19 J	mg/kg	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB28-35	N	Selenium	2.7	2.1 J	2.1 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB28-35	N	Vanadium	3.9	32.8 E	32.8	mg/kg	
E200.7/NONE	SO	SAIA-SB28-35	N	Zinc	4.6	45.7 E	45.7	mg/kg	
E200.7/NONE	SO	SAIA-SB28-5	N	Aluminum	17.6	14700	14700	mg/kg	
E200.7/NONE	SO	SAIA-SB28-5	N	Arsenic	0.88	4.0	4.0	mg/kg	
E200.7/NONE	SO	SAIA-SB28-5	N	Barium	17.6	131	131	mg/kg	
E200.7/NONE	SO	SAIA-SB28-5	N	Beryllium	0.44	0.61	0.61	mg/kg	
E200.7/NONE	SO	SAIA-SB28-5	N	Calcium	440	9810	9810	mg/kg	
E200.7/NONE	SO	SAIA-SB28-5	N	Cobalt	4.4	11.5	11.5	mg/kg	
E200.7/NONE	SO	SAIA-SB28-5	N	Chromium	0.88	17.9	17.9	mg/kg	
E200.7/NONE	SO	SAIA-SB28-5	N	Copper	2.2	20.3	20.3	mg/kg	
E200.7/NONE	SO	SAIA-SB28-5	N	Iron	8.8	23400 E	23400	mg/kg	
E200.7/NONE	SO	SAIA-SB28-5	N	Potassium	440	4480	4480	mg/kg	
E200.7/NONE	SO	SAIA-SB28-5	N	Magnesium	440	7700	7700	mg/kg	
E200.7/NONE	SO	SAIA-SB28-5	N	Manganese	1.3	369 E	369	mg/kg	
E200.7/NONE	SO	SAIA-SB28-5	N	Sodium	440	592	592	mg/kg	
E200.7/NONE	SO	SAIA-SB28-5	N	Nickel	3.5	14.9	14.9	mg/kg	
E200.7/NONE	SO	SAIA-SB28-5	N	Lead	0.88	6.3	6.3	mg/kg	
E200.7/NONE	SO	SAIA-SB28-5	N	Antimony	5.3	0.34 JN	0.34 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB28-5	N	Selenium	3.1	2.2 J	2.2 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB28-5	N	Vanadium	4.4	44.2 E	44.2	mg/kg	
E200.7/NONE	SO	SAIA-SB28-5	N	Zinc	5.3	58.5 E	58.5	mg/kg	
E200.7/NONE	SO	SAIA-SB30-0.5	N	Aluminum	15.8	16800	16800	mg/kg	
E200.7/NONE	SO	SAIA-SB30-0.5	N	Arsenic	0.79	4.1	4.1	mg/kg	
E200.7/NONE	SO	SAIA-SB30-0.5	N	Barium	15.8	152	152	mg/kg	
E200.7/NONE	SO	SAIA-SB30-0.5	N	Beryllium	0.39	0.62	0.62	mg/kg	
E200.7/NONE	SO	SAIA-SB30-0.5	N	Calcium	394	11600	11600	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EF4

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB30-0.5	N	Cobalt	3.9	13.1	13.1	mg/kg	
E200.7/NONE	SO	SAIA-SB30-0.5	N	Chromium	0.79	22.1	22.1	mg/kg	
E200.7/NONE	SO	SAIA-SB30-0.5	N	Copper	2.0	21.3	21.3	mg/kg	
E200.7/NONE	SO	SAIA-SB30-0.5	N	Iron	7.9	28000 E	28000	mg/kg	
E200.7/NONE	SO	SAIA-SB30-0.5	N	Potassium	394	5320	5320	mg/kg	
E200.7/NONE	SO	SAIA-SB30-0.5	N	Magnesium	394	8610	8610	mg/kg	
E200.7/NONE	SO	SAIA-SB30-0.5	N	Manganese	1.2	421 E	421	mg/kg	
E200.7/NONE	SO	SAIA-SB30-0.5	N	Sodium	394	428	428	mg/kg	
E200.7/NONE	SO	SAIA-SB30-0.5	N	Nickel	3.2	17.4	17.4	mg/kg	
E200.7/NONE	SO	SAIA-SB30-0.5	N	Lead	0.79	16.6	16.6	mg/kg	
E200.7/NONE	SO	SAIA-SB30-0.5	N	Antimony	4.7	0.99 JN	0.99 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB30-0.5	N	Selenium	2.8	3.5	3.5	mg/kg	
E200.7/NONE	SO	SAIA-SB30-0.5	N	Vanadium	3.9	52.8 E	52.8	mg/kg	
E200.7/NONE	SO	SAIA-SB30-0.5	N	Zinc	4.7	71.9 E	71.9	mg/kg	
E200.7/NONE	SO	SAIA-SB30-15	N	Aluminum	15.6	20400	20400	mg/kg	
E200.7/NONE	SO	SAIA-SB30-15	N	Arsenic	0.78	5.5	5.5	mg/kg	
E200.7/NONE	SO	SAIA-SB30-15	N	Barium	15.6	167	167	mg/kg	
E200.7/NONE	SO	SAIA-SB30-15	N	Beryllium	0.39	0.81	0.81	mg/kg	
E200.7/NONE	SO	SAIA-SB30-15	N	Calcium	389	13500	13500	mg/kg	
E200.7/NONE	SO	SAIA-SB30-15	N	Cobalt	3.9	15.3	15.3	mg/kg	
E200.7/NONE	SO	SAIA-SB30-15	N	Chromium	0.78	23.5	23.5	mg/kg	
E200.7/NONE	SO	SAIA-SB30-15	N	Copper	1.9	26.9	26.9	mg/kg	
E200.7/NONE	SO	SAIA-SB30-15	N	Iron	7.8	30000 E	30000	mg/kg	
E200.7/NONE	SO	SAIA-SB30-15	N	Potassium	389	5030	5030	mg/kg	
E200.7/NONE	SO	SAIA-SB30-15	N	Magnesium	389	9850	9850	mg/kg	
E200.7/NONE	SO	SAIA-SB30-15	N	Manganese	1.2	440 E	440	mg/kg	
E200.7/NONE	SO	SAIA-SB30-15	N	Sodium	389	1850	1850	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EF4

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB30-15	N	Nickel	3.1	20.2	20.2	mg/kg	
E200.7/NONE	SO	SAIA-SB30-15	N	Lead	0.78	6.5	6.5	mg/kg	
E200.7/NONE	SO	SAIA-SB30-15	N	Antimony	4.7	0.45 JN	0.45 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB30-15	N	Selenium	2.7	2.8	2.8	mg/kg	
E200.7/NONE	SO	SAIA-SB30-15	N	Vanadium	3.9	55.7 E	55.7	mg/kg	
E200.7/NONE	SO	SAIA-SB30-15	N	Zinc	4.7	72.9 E	72.9	mg/kg	
E200.7/NONE	SO	SAIA-SB30-2	N	Aluminum	15.0	15800	15800	mg/kg	
E200.7/NONE	SO	SAIA-SB30-2	N	Arsenic	0.75	4.3	4.3	mg/kg	
E200.7/NONE	SO	SAIA-SB30-2	N	Barium	15.0	156	156	mg/kg	
E200.7/NONE	SO	SAIA-SB30-2	N	Beryllium	0.38	0.61	0.61	mg/kg	
E200.7/NONE	SO	SAIA-SB30-2	N	Calcium	376	9900	9900	mg/kg	
E200.7/NONE	SO	SAIA-SB30-2	N	Cobalt	3.8	12.1	12.1	mg/kg	
E200.7/NONE	SO	SAIA-SB30-2	N	Chromium	0.75	19.1	19.1	mg/kg	
E200.7/NONE	SO	SAIA-SB30-2	N	Copper	1.9	21.0	21.0	mg/kg	
E200.7/NONE	SO	SAIA-SB30-2	N	Iron	7.5	25300 E	25300 J	mg/kg	O
E200.7/NONE	SO	SAIA-SB30-2	N	Potassium	376	4960	4960	mg/kg	
E200.7/NONE	SO	SAIA-SB30-2	N	Magnesium	376	8360	8360	mg/kg	
E200.7/NONE	SO	SAIA-SB30-2	N	Manganese	1.1	397 E	397 J	mg/kg	O
E200.7/NONE	SO	SAIA-SB30-2	N	Sodium	376	603	603	mg/kg	
E200.7/NONE	SO	SAIA-SB30-2	N	Nickel	3.0	16.3	16.3	mg/kg	
E200.7/NONE	SO	SAIA-SB30-2	N	Lead	0.75	14.9	14.9	mg/kg	
E200.7/NONE	SO	SAIA-SB30-2	N	Antimony	4.5	0.70 JN	0.70 J	mg/kg	M/TR
E200.7/NONE	SO	SAIA-SB30-2	N	Selenium	2.6	2.6 J	2.6	mg/kg	
E200.7/NONE	SO	SAIA-SB30-2	N	Vanadium	3.8	45.6 E	45.6 J	mg/kg	O
E200.7/NONE	SO	SAIA-SB30-2	N	Zinc	4.5	64.9 E	64.9 J	mg/kg	O
E200.7/NONE	SO	SAIA-SB30-25	N	Aluminum	15.9	21500	21500	mg/kg	
E200.7/NONE	SO	SAIA-SB30-25	N	Arsenic	0.80	6.2	6.2	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EF4

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB30-25	N	Barium	15.9	182	182	mg/kg	
E200.7/NONE	SO	SAIA-SB30-25	N	Beryllium	0.40	0.80	0.80	mg/kg	
E200.7/NONE	SO	SAIA-SB30-25	N	Calcium	399	19500	19500	mg/kg	
E200.7/NONE	SO	SAIA-SB30-25	N	Cobalt	4.0	16.5	16.5	mg/kg	
E200.7/NONE	SO	SAIA-SB30-25	N	Chromium	0.80	25.9	25.9	mg/kg	
E200.7/NONE	SO	SAIA-SB30-25	N	Copper	2.0	31.4	31.4	mg/kg	
E200.7/NONE	SO	SAIA-SB30-25	N	Iron	8.0	31200 E	31200	mg/kg	
E200.7/NONE	SO	SAIA-SB30-25	N	Potassium	399	5170	5170	mg/kg	
E200.7/NONE	SO	SAIA-SB30-25	N	Magnesium	399	10800	10800	mg/kg	
E200.7/NONE	SO	SAIA-SB30-25	N	Manganese	1.2	570 E	570	mg/kg	
E200.7/NONE	SO	SAIA-SB30-25	N	Sodium	399	1430	1430	mg/kg	
E200.7/NONE	SO	SAIA-SB30-25	N	Nickel	3.2	23.0	23.0	mg/kg	
E200.7/NONE	SO	SAIA-SB30-25	N	Lead	0.80	6.4	6.4	mg/kg	
E200.7/NONE	SO	SAIA-SB30-25	N	Antimony	4.8	0.60 JN	0.60 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB30-25	N	Selenium	2.8	2.9	2.9	mg/kg	
E200.7/NONE	SO	SAIA-SB30-25	N	Vanadium	4.0	54.8 E	54.8	mg/kg	
E200.7/NONE	SO	SAIA-SB30-25	N	Zinc	4.8	77.9 E	77.9	mg/kg	
E200.7/NONE	SO	SAIA-SB30-35	N	Aluminum	15.4	8380	8380	mg/kg	
E200.7/NONE	SO	SAIA-SB30-35	N	Arsenic	0.77	10.0	10.0	mg/kg	
E200.7/NONE	SO	SAIA-SB30-35	N	Barium	15.4	76.6	76.6	mg/kg	
E200.7/NONE	SO	SAIA-SB30-35	N	Beryllium	0.39	0.36 J	0.36 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB30-35	N	Calcium	385	5660	5660	mg/kg	
E200.7/NONE	SO	SAIA-SB30-35	N	Cobalt	3.9	6.7	6.7	mg/kg	
E200.7/NONE	SO	SAIA-SB30-35	N	Chromium	0.77	10.1	10.1	mg/kg	
E200.7/NONE	SO	SAIA-SB30-35	N	Copper	1.9	10.3	10.3	mg/kg	
E200.7/NONE	SO	SAIA-SB30-35	N	Iron	7.7	15700 E	15700	mg/kg	
E200.7/NONE	SO	SAIA-SB30-35	N	Potassium	385	2620	2620	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB30-35	N	Magnesium	385	4990	4990	mg/kg	
E200.7/NONE	SO	SAIA-SB30-35	N	Manganese	1.2	233 E	233	mg/kg	
E200.7/NONE	SO	SAIA-SB30-35	N	Sodium	385	449	449	mg/kg	
E200.7/NONE	SO	SAIA-SB30-35	N	Nickel	3.1	7.6	7.6	mg/kg	
E200.7/NONE	SO	SAIA-SB30-35	N	Lead	0.77	2.3	2.3	mg/kg	
E200.7/NONE	SO	SAIA-SB30-35	N	Selenium	2.7	1.8 J	1.8 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB30-35	N	Vanadium	3.9	27.9 E	27.9	mg/kg	
E200.7/NONE	SO	SAIA-SB30-35	N	Zinc	4.6	34.9 E	34.9	mg/kg	
E200.7/NONE	SO	SAIA-SB30-5	N	Aluminum	14.6	14300	14300	mg/kg	
E200.7/NONE	SO	SAIA-SB30-5	N	Arsenic	0.73	3.8	3.8	mg/kg	
E200.7/NONE	SO	SAIA-SB30-5	N	Barium	14.6	143	143	mg/kg	
E200.7/NONE	SO	SAIA-SB30-5	N	Beryllium	0.37	0.58	0.58	mg/kg	
E200.7/NONE	SO	SAIA-SB30-5	N	Calcium	366	8890	8890	mg/kg	
E200.7/NONE	SO	SAIA-SB30-5	N	Cobalt	3.7	11.4	11.4	mg/kg	
E200.7/NONE	SO	SAIA-SB30-5	N	Chromium	0.73	18.0	18.0	mg/kg	
E200.7/NONE	SO	SAIA-SB30-5	N	Copper	1.8	18.5	18.5	mg/kg	
E200.7/NONE	SO	SAIA-SB30-5	N	Iron	7.3	23900 E	23900	mg/kg	
E200.7/NONE	SO	SAIA-SB30-5	N	Potassium	366	4700	4700	mg/kg	
E200.7/NONE	SO	SAIA-SB30-5	N	Magnesium	366	7900	7900	mg/kg	
E200.7/NONE	SO	SAIA-SB30-5	N	Manganese	1.1	345 E	345	mg/kg	
E200.7/NONE	SO	SAIA-SB30-5	N	Sodium	366	491	491	mg/kg	
E200.7/NONE	SO	SAIA-SB30-5	N	Nickel	2.9	15.3	15.3	mg/kg	
E200.7/NONE	SO	SAIA-SB30-5	N	Lead	0.73	11.9	11.9	mg/kg	
E200.7/NONE	SO	SAIA-SB30-5	N	Antimony	4.4	0.60 JN	0.60 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB30-5	N	Selenium	2.6	2.3 J	2.3 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB30-5	N	Vanadium	3.7	42.8 E	42.8	mg/kg	
E200.7/NONE	SO	SAIA-SB30-5	N	Zinc	4.4	62.8 E	62.8	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EF4

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB31-0.5	N	Aluminum	16.5	13900	13900	mg/kg	
E200.7/NONE	SO	SAIA-SB31-0.5	N	Arsenic	0.82	5.0	5.0	mg/kg	
E200.7/NONE	SO	SAIA-SB31-0.5	N	Barium	16.5	141	141	mg/kg	
E200.7/NONE	SO	SAIA-SB31-0.5	N	Beryllium	0.41	0.52	0.52	mg/kg	
E200.7/NONE	SO	SAIA-SB31-0.5	N	Calcium	412	6990	6990	mg/kg	
E200.7/NONE	SO	SAIA-SB31-0.5	N	Cobalt	4.1	10.8	10.8	mg/kg	
E200.7/NONE	SO	SAIA-SB31-0.5	N	Chromium	0.82	17.0	17.0	mg/kg	
E200.7/NONE	SO	SAIA-SB31-0.5	N	Copper	2.1	20.0	20.0	mg/kg	
E200.7/NONE	SO	SAIA-SB31-0.5	N	Iron	8.2	22500 E	22500	mg/kg	
E200.7/NONE	SO	SAIA-SB31-0.5	N	Potassium	412	4970	4970	mg/kg	
E200.7/NONE	SO	SAIA-SB31-0.5	N	Magnesium	412	7420	7420	mg/kg	
E200.7/NONE	SO	SAIA-SB31-0.5	N	Manganese	1.2	352 E	352	mg/kg	
E200.7/NONE	SO	SAIA-SB31-0.5	N	Sodium	412	328 J	328 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-0.5	N	Nickel	3.3	14.3	14.3	mg/kg	
E200.7/NONE	SO	SAIA-SB31-0.5	N	Lead	0.82	47.6	47.6	mg/kg	
E200.7/NONE	SO	SAIA-SB31-0.5	N	Antimony	4.9	1.5 JN	1.5 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-0.5	N	Selenium	2.9	2.3 J	2.3 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-0.5	N	Vanadium	4.1	39.3 E	39.3	mg/kg	
E200.7/NONE	SO	SAIA-SB31-0.5	N	Zinc	4.9	68.7 E	68.7	mg/kg	
E200.7/NONE	SO	SAIA-SB31-15	N	Aluminum	17.6	22200	22200	mg/kg	
E200.7/NONE	SO	SAIA-SB31-15	N	Arsenic	0.88	5.9	5.9	mg/kg	
E200.7/NONE	SO	SAIA-SB31-15	N	Barium	17.6	199	199	mg/kg	
E200.7/NONE	SO	SAIA-SB31-15	N	Beryllium	0.44	0.94	0.94	mg/kg	
E200.7/NONE	SO	SAIA-SB31-15	N	Calcium	440	10800	10800	mg/kg	
E200.7/NONE	SO	SAIA-SB31-15	N	Cobalt	4.4	15.1	15.1	mg/kg	
E200.7/NONE	SO	SAIA-SB31-15	N	Chromium	0.88	24.4	24.4	mg/kg	
E200.7/NONE	SO	SAIA-SB31-15	N	Copper	2.2	30.4	30.4	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB31-15	N	Iron	8.8	29900 E	29900	mg/kg	
E200.7/NONE	SO	SAIA-SB31-15	N	Potassium	440	4780	4780	mg/kg	
E200.7/NONE	SO	SAIA-SB31-15	N	Magnesium	440	10100	10100	mg/kg	
E200.7/NONE	SO	SAIA-SB31-15	N	Manganese	1.3	393 E	393	mg/kg	
E200.7/NONE	SO	SAIA-SB31-15	N	Sodium	440	955	955	mg/kg	
E200.7/NONE	SO	SAIA-SB31-15	N	Nickel	3.5	20.5	20.5	mg/kg	
E200.7/NONE	SO	SAIA-SB31-15	N	Lead	0.88	8.0	8.0	mg/kg	
E200.7/NONE	SO	SAIA-SB31-15	N	Antimony	5.3	0.33 JN	0.33 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-15	N	Selenium	3.1	2.9 J	2.9 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-15	N	Vanadium	4.4	57.9 E	57.9	mg/kg	
E200.7/NONE	SO	SAIA-SB31-15	N	Zinc	5.3	74.9 E	74.9	mg/kg	
E200.7/NONE	SO	SAIA-SB31-2	N	Aluminum	16.4	14400	14400	mg/kg	
E200.7/NONE	SO	SAIA-SB31-2	N	Arsenic	0.82	4.7	4.7	mg/kg	
E200.7/NONE	SO	SAIA-SB31-2	N	Barium	16.4	144	144	mg/kg	
E200.7/NONE	SO	SAIA-SB31-2	N	Beryllium	0.41	0.53	0.53	mg/kg	
E200.7/NONE	SO	SAIA-SB31-2	N	Calcium	411	7480	7480	mg/kg	
E200.7/NONE	SO	SAIA-SB31-2	N	Cobalt	4.1	11.3	11.3	mg/kg	
E200.7/NONE	SO	SAIA-SB31-2	N	Chromium	0.82	17.6	17.6	mg/kg	
E200.7/NONE	SO	SAIA-SB31-2	N	Copper	2.1	19.2	19.2	mg/kg	
E200.7/NONE	SO	SAIA-SB31-2	N	Iron	8.2	22900 E	22900	mg/kg	
E200.7/NONE	SO	SAIA-SB31-2	N	Potassium	411	5060	5060	mg/kg	
E200.7/NONE	SO	SAIA-SB31-2	N	Magnesium	411	7670	7670	mg/kg	
E200.7/NONE	SO	SAIA-SB31-2	N	Manganese	1.2	353 E	353	mg/kg	
E200.7/NONE	SO	SAIA-SB31-2	N	Sodium	411	353 J	353 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-2	N	Nickel	3.3	14.8	14.8	mg/kg	
E200.7/NONE	SO	SAIA-SB31-2	N	Lead	0.82	9.9	9.9	mg/kg	
E200.7/NONE	SO	SAIA-SB31-2	N	Antimony	4.9	0.43 JN	0.43 J	mg/kg	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB31-2	N	Selenium	2.9	2.1 J	2.1 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-2	N	Vanadium	4.1	40.4 E	40.4	mg/kg	
E200.7/NONE	SO	SAIA-SB31-2	N	Zinc	4.9	59.6 E	59.6	mg/kg	
E200.7/NONE	SO	SAIA-SB31-25	N	Aluminum	19.0	29300	29300	mg/kg	
E200.7/NONE	SO	SAIA-SB31-25	N	Arsenic	0.95	10.2	10.2	mg/kg	
E200.7/NONE	SO	SAIA-SB31-25	N	Barium	19.0	250	250	mg/kg	
E200.7/NONE	SO	SAIA-SB31-25	N	Beryllium	0.47	1.3	1.3	mg/kg	
E200.7/NONE	SO	SAIA-SB31-25	N	Calcium	474	13100	13100	mg/kg	
E200.7/NONE	SO	SAIA-SB31-25	N	Cobalt	4.7	22.0	22.0	mg/kg	
E200.7/NONE	SO	SAIA-SB31-25	N	Chromium	0.95	36.8	36.8	mg/kg	
E200.7/NONE	SO	SAIA-SB31-25	N	Copper	2.4	49.4	49.4	mg/kg	
E200.7/NONE	SO	SAIA-SB31-25	N	Iron	9.5	40000 E	40000	mg/kg	
E200.7/NONE	SO	SAIA-SB31-25	N	Potassium	474	4940	4940	mg/kg	
E200.7/NONE	SO	SAIA-SB31-25	N	Magnesium	474	13300	13300	mg/kg	
E200.7/NONE	SO	SAIA-SB31-25	N	Manganese	1.4	581 E	581	mg/kg	
E200.7/NONE	SO	SAIA-SB31-25	N	Sodium	474	1740	1740	mg/kg	
E200.7/NONE	SO	SAIA-SB31-25	N	Nickel	3.8	33.0	33.0	mg/kg	
E200.7/NONE	SO	SAIA-SB31-25	N	Lead	0.95	12.4	12.4	mg/kg	
E200.7/NONE	SO	SAIA-SB31-25	N	Antimony	5.7	0.85 JN	0.85 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-25	N	Selenium	3.3	3.5	3.5	mg/kg	
E200.7/NONE	SO	SAIA-SB31-25	N	Vanadium	4.7	76.8 E	76.8	mg/kg	
E200.7/NONE	SO	SAIA-SB31-25	N	Zinc	5.7	94.4 E	94.4	mg/kg	
E200.7/NONE	SO	SAIA-SB31-35	N	Aluminum	15.5	8090	8090	mg/kg	
E200.7/NONE	SO	SAIA-SB31-35	N	Arsenic	0.78	10.0	10.0	mg/kg	
E200.7/NONE	SO	SAIA-SB31-35	N	Barium	15.5	84.0	84.0	mg/kg	
E200.7/NONE	SO	SAIA-SB31-35	N	Beryllium	0.39	0.33 J	0.33 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-35	N	Calcium	388	4710	4710	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EF4

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB31-35	N	Cobalt	3.9	6.2	6.2	mg/kg	
E200.7/NONE	SO	SAIA-SB31-35	N	Chromium	0.78	8.8	8.8	mg/kg	
E200.7/NONE	SO	SAIA-SB31-35	N	Copper	1.9	8.5	8.5	mg/kg	
E200.7/NONE	SO	SAIA-SB31-35	N	Iron	7.8	14100 E	14100	mg/kg	
E200.7/NONE	SO	SAIA-SB31-35	N	Potassium	388	2400	2400	mg/kg	
E200.7/NONE	SO	SAIA-SB31-35	N	Magnesium	388	4560	4560	mg/kg	
E200.7/NONE	SO	SAIA-SB31-35	N	Manganese	1.2	221 E	221	mg/kg	
E200.7/NONE	SO	SAIA-SB31-35	N	Sodium	388	376 J	376 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-35	N	Nickel	3.1	7.0	7.0	mg/kg	
E200.7/NONE	SO	SAIA-SB31-35	N	Lead	0.78	2.1	2.1	mg/kg	
E200.7/NONE	SO	SAIA-SB31-35	N	Selenium	2.7	1.4 J	1.4 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-35	N	Vanadium	3.9	24.3 E	24.3	mg/kg	
E200.7/NONE	SO	SAIA-SB31-35	N	Zinc	4.7	33.7 E	33.7	mg/kg	
E200.7/NONE	SO	SAIA-SB31-36	FD	Aluminum	15.1	7570	7570	mg/kg	
E200.7/NONE	SO	SAIA-SB31-36	FD	Arsenic	0.75	9.1	9.1	mg/kg	
E200.7/NONE	SO	SAIA-SB31-36	FD	Barium	15.1	75.6	75.6	mg/kg	
E200.7/NONE	SO	SAIA-SB31-36	FD	Beryllium	0.38	0.32 J	0.32 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-36	FD	Calcium	377	4260	4260	mg/kg	
E200.7/NONE	SO	SAIA-SB31-36	FD	Cobalt	3.8	5.7	5.7	mg/kg	
E200.7/NONE	SO	SAIA-SB31-36	FD	Chromium	0.75	7.9	7.9	mg/kg	
E200.7/NONE	SO	SAIA-SB31-36	FD	Copper	1.9	8.2	8.2	mg/kg	
E200.7/NONE	SO	SAIA-SB31-36	FD	Iron	7.5	13000 E	13000	mg/kg	
E200.7/NONE	SO	SAIA-SB31-36	FD	Potassium	377	2230	2230	mg/kg	
E200.7/NONE	SO	SAIA-SB31-36	FD	Magnesium	377	4230	4230	mg/kg	
E200.7/NONE	SO	SAIA-SB31-36	FD	Manganese	1.1	200 E	200	mg/kg	
E200.7/NONE	SO	SAIA-SB31-36	FD	Sodium	377	371 J	371 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-36	FD	Nickel	3.0	6.4	6.4	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EF4

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB31-36	FD	Lead	0.75	2.1	2.1	mg/kg	
E200.7/NONE	SO	SAIA-SB31-36	FD	Antimony	4.5	0.16 JN	0.16 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-36	FD	Selenium	2.6	1.2 J	1.2 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-36	FD	Vanadium	3.8	22.3 E	22.3	mg/kg	
E200.7/NONE	SO	SAIA-SB31-36	FD	Zinc	4.5	31.3 E	31.3	mg/kg	
E200.7/NONE	SO	SAIA-SB31-5	N	Aluminum	16.9	15900	15900	mg/kg	
E200.7/NONE	SO	SAIA-SB31-5	N	Arsenic	0.85	4.0	4.0	mg/kg	
E200.7/NONE	SO	SAIA-SB31-5	N	Barium	16.9	152	152	mg/kg	
E200.7/NONE	SO	SAIA-SB31-5	N	Beryllium	0.42	0.63	0.63	mg/kg	
E200.7/NONE	SO	SAIA-SB31-5	N	Calcium	423	9460	9460	mg/kg	
E200.7/NONE	SO	SAIA-SB31-5	N	Cobalt	4.2	11.7	11.7	mg/kg	
E200.7/NONE	SO	SAIA-SB31-5	N	Chromium	0.85	19.2	19.2	mg/kg	
E200.7/NONE	SO	SAIA-SB31-5	N	Copper	2.1	21.0	21.0	mg/kg	
E200.7/NONE	SO	SAIA-SB31-5	N	Iron	8.5	24600 E	24600	mg/kg	
E200.7/NONE	SO	SAIA-SB31-5	N	Potassium	423	4120	4120	mg/kg	
E200.7/NONE	SO	SAIA-SB31-5	N	Magnesium	423	7820	7820	mg/kg	
E200.7/NONE	SO	SAIA-SB31-5	N	Manganese	1.3	368 E	368	mg/kg	
E200.7/NONE	SO	SAIA-SB31-5	N	Sodium	423	450	450	mg/kg	
E200.7/NONE	SO	SAIA-SB31-5	N	Nickel	3.4	15.1	15.1	mg/kg	
E200.7/NONE	SO	SAIA-SB31-5	N	Lead	0.85	6.3	6.3	mg/kg	
E200.7/NONE	SO	SAIA-SB31-5	N	Antimony	5.1	0.36 JN	0.36 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-5	N	Selenium	3.0	2.3 J	2.3 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB31-5	N	Vanadium	4.2	44.5 E	44.5	mg/kg	
E200.7/NONE	SO	SAIA-SB31-5	N	Zinc	5.1	59.1 E	59.1	mg/kg	
E200.7/NONE	SO	SAIA-SB32-0.5	N	Aluminum	15.3	12600	12600	mg/kg	
E200.7/NONE	SO	SAIA-SB32-0.5	N	Arsenic	0.77	4.2	4.2	mg/kg	
E200.7/NONE	SO	SAIA-SB32-0.5	N	Barium	15.3	138	138	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB32-0.5	N	Beryllium	0.38	0.49	0.49	mg/kg	
E200.7/NONE	SO	SAIA-SB32-0.5	N	Calcium	383	5530	5530	mg/kg	
E200.7/NONE	SO	SAIA-SB32-0.5	N	Cadmium	0.38	0.99	0.99	mg/kg	
E200.7/NONE	SO	SAIA-SB32-0.5	N	Cobalt	3.8	11.9	11.9	mg/kg	
E200.7/NONE	SO	SAIA-SB32-0.5	N	Chromium	0.77	16.3	16.3	mg/kg	
E200.7/NONE	SO	SAIA-SB32-0.5	N	Copper	1.9	18.3	18.3	mg/kg	
E200.7/NONE	SO	SAIA-SB32-0.5	N	Iron	7.7	20900 E	20900	mg/kg	
E200.7/NONE	SO	SAIA-SB32-0.5	N	Potassium	383	4780	4780	mg/kg	
E200.7/NONE	SO	SAIA-SB32-0.5	N	Magnesium	383	6800	6800	mg/kg	
E200.7/NONE	SO	SAIA-SB32-0.5	N	Manganese	1.1	411 E	411	mg/kg	
E200.7/NONE	SO	SAIA-SB32-0.5	N	Sodium	383	272 J	272 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB32-0.5	N	Nickel	3.1	24.1	24.1	mg/kg	
E200.7/NONE	SO	SAIA-SB32-0.5	N	Lead	0.77	45.1	45.1	mg/kg	
E200.7/NONE	SO	SAIA-SB32-0.5	N	Antimony	4.6	1.1 JN	1.1 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB32-0.5	N	Selenium	2.7	1.8 J	1.8 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB32-0.5	N	Vanadium	3.8	36.3 E	36.3	mg/kg	
E200.7/NONE	SO	SAIA-SB32-0.5	N	Zinc	4.6	470 E	470	mg/kg	
E200.7/NONE	SO	SAIA-SB32-2	N	Aluminum	15.3	11600	11600	mg/kg	
E200.7/NONE	SO	SAIA-SB32-2	N	Arsenic	0.76	3.7	3.7	mg/kg	
E200.7/NONE	SO	SAIA-SB32-2	N	Barium	15.3	114	114	mg/kg	
E200.7/NONE	SO	SAIA-SB32-2	N	Beryllium	0.38	0.43	0.43	mg/kg	
E200.7/NONE	SO	SAIA-SB32-2	N	Calcium	382	6060	6060	mg/kg	
E200.7/NONE	SO	SAIA-SB32-2	N	Cobalt	3.8	9.2	9.2	mg/kg	
E200.7/NONE	SO	SAIA-SB32-2	N	Chromium	0.76	14.3	14.3	mg/kg	
E200.7/NONE	SO	SAIA-SB32-2	N	Copper	1.9	13.8	13.8	mg/kg	
E200.7/NONE	SO	SAIA-SB32-2	N	Iron	7.6	19500 E	19500	mg/kg	
E200.7/NONE	SO	SAIA-SB32-2	N	Potassium	382	4100	4100	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EF4

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB32-2	N	Magnesium	382	6180	6180	mg/kg	
E200.7/NONE	SO	SAIA-SB32-2	N	Manganese	1.1	285 E	285	mg/kg	
E200.7/NONE	SO	SAIA-SB32-2	N	Sodium	382	281 J	281 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB32-2	N	Nickel	3.1	11.9	11.9	mg/kg	
E200.7/NONE	SO	SAIA-SB32-2	N	Lead	0.76	5.1	5.1	mg/kg	
E200.7/NONE	SO	SAIA-SB32-2	N	Antimony	4.6	0.20 JN	0.20 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB32-2	N	Selenium	2.7	1.9 J	1.9 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB32-2	N	Vanadium	3.8	35.6 E	35.6	mg/kg	
E200.7/NONE	SO	SAIA-SB32-2	N	Zinc	4.6	54.5 E	54.5	mg/kg	
E200.7/NONE	SO	SAIA-SB32-5	N	Aluminum	17.5	18600	18600	mg/kg	
E200.7/NONE	SO	SAIA-SB32-5	N	Arsenic	0.88	4.3	4.3	mg/kg	
E200.7/NONE	SO	SAIA-SB32-5	N	Barium	17.5	181	181	mg/kg	
E200.7/NONE	SO	SAIA-SB32-5	N	Beryllium	0.44	0.74	0.74	mg/kg	
E200.7/NONE	SO	SAIA-SB32-5	N	Calcium	439	10500	10500	mg/kg	
E200.7/NONE	SO	SAIA-SB32-5	N	Cobalt	4.4	14.5	14.5	mg/kg	
E200.7/NONE	SO	SAIA-SB32-5	N	Chromium	0.88	22.9	22.9	mg/kg	
E200.7/NONE	SO	SAIA-SB32-5	N	Copper	2.2	24.0	24.0	mg/kg	
E200.7/NONE	SO	SAIA-SB32-5	N	Iron	8.8	28300 E	28300	mg/kg	
E200.7/NONE	SO	SAIA-SB32-5	N	Potassium	439	5920	5920	mg/kg	
E200.7/NONE	SO	SAIA-SB32-5	N	Magnesium	439	10200	10200	mg/kg	
E200.7/NONE	SO	SAIA-SB32-5	N	Manganese	1.3	461 E	461	mg/kg	
E200.7/NONE	SO	SAIA-SB32-5	N	Sodium	439	492	492	mg/kg	
E200.7/NONE	SO	SAIA-SB32-5	N	Nickel	3.5	19.6	19.6	mg/kg	
E200.7/NONE	SO	SAIA-SB32-5	N	Lead	0.88	6.7	6.7	mg/kg	
E200.7/NONE	SO	SAIA-SB32-5	N	Antimony	5.3	0.34 JN	0.34 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB32-5	N	Selenium	3.1	2.6 J	2.6 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB32-5	N	Vanadium	4.4	50.8 E	50.8	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EF4

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB32-5	N	Zinc	5.3	85.3 E	85.3	mg/kg	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	SAIA-SB28-15	N	Mercury	0.12	0.18	0.18	mg/kg	
SW7471B/NONE	SO	SAIA-SB30-0.5	N	Mercury	0.092	0.11	0.11	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EF4

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9EF8

Facility: Southern Avenue Industrial Area

Soil Boring Sampling Event, April 2014

Guidance Document:

Contract Laboratory: CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ

Field Contractor:

Data Review Contractor: Gilbane

SDG: MY9EF8, Certified - 5/2/2014 by wtse

QC Level: S1BVEM

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: November 24, 2014

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG MY9EF8

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
E200.7/NONE	18	2
SW7471B/NONE	18	2

AUTOMATED DATA REVIEW SUMMARY for MY9EF8

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Material Blank
- MS RPD
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for MY9EF8

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 21 results (4.57%) out of the 460 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Gilbane reviewed the Chemtech lab report, COCs, case narrative, and EXES data review package.

No sample receipt issues or calibration anomalies were noted.

Qualifiers were added for lab blank (B2) detects, and minor interference check (O), and matrix (M) effects.

Low matrix recoveries and negative blank QC outliers were resolved.

24-Nov-2014

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70647-CC	PB76155	NA	LABQC	SQ	LABQC	PB76155BS	LB70647-S0	1/1	18-Apr-2014 12:00 PM	18-Apr-2014 12:00 PM	18-Apr-2014 4:34 PM	BS
	PB76155	NA	LABQC	SQ	LABQC	PB76155BL	LB70647-S0	1/1	18-Apr-2014 12:00 PM	18-Apr-2014 12:00 PM	18-Apr-2014 4:30 PM	LB
	PB76155	NA	SAIA-SB/SG29	SO	SAIA-SB29-0.5	F2031-02	LB70647-S0	1/1	16-Apr-2014 2:00 PM	18-Apr-2014 12:00 PM	18-Apr-2014 4:42 PM	LR
	PB76155	NA	SAIA-SB/SG29	SO	SAIA-SB29-0.5	F2031-03	LB70647-S0	1/1	16-Apr-2014 2:00 PM	18-Apr-2014 12:00 PM	18-Apr-2014 4:46 PM	MS
	PB76155	NA	SAIA-SB/SG29	SO	SAIA-SB29-0.5	F2031-01	LB70647-S0	1/1	16-Apr-2014 2:00 PM	18-Apr-2014 12:00 PM	18-Apr-2014 4:38 PM	N
	PB76155	NA	SAIA-SB/SG29	SO	SAIA-SB29-15	F2031-04	LB70647-S0	1/1	16-Apr-2014 2:30 PM	18-Apr-2014 12:00 PM	18-Apr-2014 4:54 PM	N
	PB76155	NA	SAIA-SB/SG29	SO	SAIA-SB29-25	F2031-05	LB70647-S0	1/1	16-Apr-2014 2:40 PM	18-Apr-2014 12:00 PM	18-Apr-2014 4:58 PM	N
	PB76155	NA	SAIA-SB/SG29	SO	SAIA-SB29-35	F2031-06	LB70647-S0	1/1	16-Apr-2014 2:50 PM	18-Apr-2014 12:00 PM	18-Apr-2014 5:01 PM	N
	PB76155	NA	SAIA-SB/SG36	SO	SAIA-SB36-0.5	F2031-08	LB70647-S0	1/1	17-Apr-2014 8:00 AM	18-Apr-2014 12:00 PM	18-Apr-2014 5:09 PM	N
	PB76155	NA	SAIA-SB/SG36	SO	SAIA-SB36-15	F2031-11	LB70647-S0	1/1	17-Apr-2014 8:35 AM	18-Apr-2014 12:00 PM	18-Apr-2014 5:21 PM	N
	PB76155	NA	SAIA-SB/SG36	SO	SAIA-SB36-2	F2031-09	LB70647-S0	1/1	17-Apr-2014 8:35 AM	18-Apr-2014 12:00 PM	18-Apr-2014 5:13 PM	N
	PB76155	NA	SAIA-SB/SG36	SO	SAIA-SB36-25	F2031-12	LB70647-S0	1/1	17-Apr-2014 8:45 AM	18-Apr-2014 12:00 PM	18-Apr-2014 5:25 PM	N
	PB76155	NA	SAIA-SB/SG36	SO	SAIA-SB36-26	F2031-13	LB70647-S0	1/1	17-Apr-2014 8:50 AM	18-Apr-2014 12:00 PM	18-Apr-2014 5:37 PM	FD
	PB76155	NA	SAIA-SB/SG36	SO	SAIA-SB36-35	F2031-14	LB70647-S0	1/1	17-Apr-2014 9:10 AM	18-Apr-2014 12:00 PM	18-Apr-2014 5:41 PM	N
	PB76155	NA	SAIA-SB/SG36	SO	SAIA-SB36-5	F2031-10	LB70647-S0	1/1	17-Apr-2014 8:10 AM	18-Apr-2014 12:00 PM	18-Apr-2014 5:17 PM	N
	PB76155	NA	SAIA-SB/SG37	SO	SAIA-SB37-0.5	F2031-15	LB70647-S0	1/1	17-Apr-2014 10:00 AM	18-Apr-2014 12:00 PM	18-Apr-2014 5:45 PM	N
	PB76155	NA	SAIA-SB/SG37	SO	SAIA-SB37-15	F2031-18	LB70647-S0	1/1	17-Apr-2014 10:25 AM	18-Apr-2014 12:00 PM	18-Apr-2014 5:57 PM	N
	PB76155	NA	SAIA-SB/SG37	SO	SAIA-SB37-2	F2031-16	LB70647-S0	1/1	17-Apr-2014 10:05 AM	18-Apr-2014 12:00 PM	18-Apr-2014 5:49 PM	N
	PB76155	NA	SAIA-SB/SG37	SO	SAIA-SB37-25	F2031-19	LB70647-S0	1/1	17-Apr-2014 10:35 AM	18-Apr-2014 12:00 PM	18-Apr-2014 6:01 PM	N
	PB76155	NA	SAIA-SB/SG37	SO	SAIA-SB37-35	F2031-20	LB70647-S0	1/1	17-Apr-2014 10:45 AM	18-Apr-2014 12:00 PM	18-Apr-2014 6:05 PM	N
	PB76155	NA	SAIA-SB/SG37	SO	SAIA-SB37-5	F2031-17	LB70647-S0	1/1	17-Apr-2014 10:10 AM	18-Apr-2014 12:00 PM	18-Apr-2014 5:53 PM	N

AUTOMATED DATA REVIEW SUMMARY for MY9EF8

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70647-CC	PB76155	NA	SAIA-SB/SG37	SO	SAIA-SB37-6	F2031-07	LB70647-S0	1/1	17-Apr-2014 10:15 AM	18-Apr-2014 12:00 PM	18-Apr-2014 5:05 PM	FD
	PB76155	NA	SAIA-SB/SG38	SO	SAIA-SB38-0.5	F2031-21	LB70647-S0	1/1	17-Apr-2014 12:55 PM	18-Apr-2014 12:00 PM	18-Apr-2014 6:09 PM	N
	PB76155	NA	SAIA-SB/SG38	SO	SAIA-SB38-2	F2031-22	LB70647-S0	1/1	17-Apr-2014 1:00 PM	18-Apr-2014 12:00 PM	18-Apr-2014 6:13 PM	N
LB70664-CC	PB76155	NA	SAIA-SB/SG37	SO	SAIA-SB37-0.5	F2031-15	LB70664-S0	1/10	17-Apr-2014 10:00 AM	18-Apr-2014 12:00 PM	21-Apr-2014 12:29 PM	N
	PB76155	NA	SAIA-SB/SG37	SO	SAIA-SB37-2	F2031-16	LB70664-S0	1/10	17-Apr-2014 10:05 AM	18-Apr-2014 12:00 PM	21-Apr-2014 12:33 PM	N

Test Method: SW7471B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70666-CC	PB76160	NA	LABQC	SQ	LABQC	PB76160BL	LB70666-S0	1/1	21-Apr-2014 12:00 PM	21-Apr-2014 12:00 PM	22-Apr-2014 9:09 AM	LB
	PB76160	NA	SAIA-SB/SG29	SO	SAIA-SB29-0.5	F2031-02	LB70666-S0	1/1	16-Apr-2014 2:00 PM	21-Apr-2014 12:00 PM	22-Apr-2014 9:15 AM	LR
	PB76160	NA	SAIA-SB/SG29	SO	SAIA-SB29-0.5	F2031-03	LB70666-S0	1/1	16-Apr-2014 2:00 PM	21-Apr-2014 12:00 PM	22-Apr-2014 9:18 AM	MS
	PB76160	NA	SAIA-SB/SG29	SO	SAIA-SB29-0.5	F2031-01	LB70666-S0	1/1	16-Apr-2014 2:00 PM	21-Apr-2014 12:00 PM	22-Apr-2014 9:11 AM	N
	PB76160	NA	SAIA-SB/SG29	SO	SAIA-SB29-15	F2031-04	LB70666-S0	1/1	16-Apr-2014 2:30 PM	21-Apr-2014 12:00 PM	22-Apr-2014 9:20 AM	N
	PB76160	NA	SAIA-SB/SG29	SO	SAIA-SB29-25	F2031-05	LB70666-S0	1/1	16-Apr-2014 2:40 PM	21-Apr-2014 12:00 PM	22-Apr-2014 9:22 AM	N
	PB76160	NA	SAIA-SB/SG29	SO	SAIA-SB29-35	F2031-06	LB70666-S0	1/1	16-Apr-2014 2:50 PM	21-Apr-2014 12:00 PM	22-Apr-2014 9:24 AM	N
	PB76160	NA	SAIA-SB/SG36	SO	SAIA-SB36-0.5	F2031-08	LB70666-S0	1/1	17-Apr-2014 8:00 AM	21-Apr-2014 12:00 PM	22-Apr-2014 9:28 AM	N
	PB76160	NA	SAIA-SB/SG36	SO	SAIA-SB36-15	F2031-11	LB70666-S0	1/1	17-Apr-2014 8:35 AM	21-Apr-2014 12:00 PM	22-Apr-2014 9:35 AM	N
	PB76160	NA	SAIA-SB/SG36	SO	SAIA-SB36-2	F2031-09	LB70666-S0	1/1	17-Apr-2014 8:35 AM	21-Apr-2014 12:00 PM	22-Apr-2014 9:31 AM	N
	PB76160	NA	SAIA-SB/SG36	SO	SAIA-SB36-25	F2031-12	LB70666-S0	1/1	17-Apr-2014 8:45 AM	21-Apr-2014 12:00 PM	22-Apr-2014 9:37 AM	N
	PB76160	NA	SAIA-SB/SG36	SO	SAIA-SB36-26	F2031-13	LB70666-S0	1/1	17-Apr-2014 8:50 AM	21-Apr-2014 12:00 PM	22-Apr-2014 9:39 AM	FD
	PB76160	NA	SAIA-SB/SG36	SO	SAIA-SB36-35	F2031-14	LB70666-S0	1/1	17-Apr-2014 9:10 AM	21-Apr-2014 12:00 PM	22-Apr-2014 9:41 AM	N
	PB76160	NA	SAIA-SB/SG36	SO	SAIA-SB36-5	F2031-10	LB70666-S0	1/1	17-Apr-2014 8:10 AM	21-Apr-2014 12:00 PM	22-Apr-2014 9:33 AM	N

AUTOMATED DATA REVIEW SUMMARY for MY9EF8

Batch Report

Test Method: SW7471B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70666-CC	PB76160	NA	SAIA-SB/SG37	SO	SAIA-SB37-0.5	F2031-15	LB70666-S0	1/1	17-Apr-2014 10:00 AM	21-Apr-2014 12:00 PM	22-Apr-2014 9:43 AM	N
	PB76160	NA	SAIA-SB/SG37	SO	SAIA-SB37-15	F2031-18	LB70666-S0	1/1	17-Apr-2014 10:25 AM	21-Apr-2014 12:00 PM	22-Apr-2014 9:50 AM	N
	PB76160	NA	SAIA-SB/SG37	SO	SAIA-SB37-2	F2031-16	LB70666-S0	1/1	17-Apr-2014 10:05 AM	21-Apr-2014 12:00 PM	22-Apr-2014 9:46 AM	N
	PB76160	NA	SAIA-SB/SG37	SO	SAIA-SB37-25	F2031-19	LB70666-S0	1/1	17-Apr-2014 10:35 AM	21-Apr-2014 12:00 PM	22-Apr-2014 9:52 AM	N
	PB76160	NA	SAIA-SB/SG37	SO	SAIA-SB37-35	F2031-20	LB70666-S0	1/1	17-Apr-2014 10:45 AM	21-Apr-2014 12:00 PM	22-Apr-2014 9:59 AM	N
	PB76160	NA	SAIA-SB/SG37	SO	SAIA-SB37-5	F2031-17	LB70666-S0	1/1	17-Apr-2014 10:10 AM	21-Apr-2014 12:00 PM	22-Apr-2014 9:48 AM	N
	PB76160	NA	SAIA-SB/SG37	SO	SAIA-SB37-6	F2031-07	LB70666-S0	1/1	17-Apr-2014 10:15 AM	21-Apr-2014 12:00 PM	22-Apr-2014 9:26 AM	FD
	PB76160	NA	SAIA-SB/SG38	SO	SAIA-SB38-0.5	F2031-21	LB70666-S0	1/1	17-Apr-2014 12:55 PM	21-Apr-2014 12:00 PM	22-Apr-2014 10:01 AM	N
	PB76160	NA	SAIA-SB/SG38	SO	SAIA-SB38-2	F2031-22	LB70666-S0	1/1	17-Apr-2014 1:00 PM	21-Apr-2014 12:00 PM	22-Apr-2014 10:03 AM	N

AUTOMATED DATA REVIEW SUMMARY for MY9EF8

Field Batch Report

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9EF8

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
E200.7 / METHOD	Blank - Negative	PB76155BL (LB)	1 / 1.00	Potassium	-11.0	mg/kg	J/UJ	< 10.8	< 500	L1			
E200.7 / METHOD	MS Recovery	SAIA-SB29-0.5 (MS)	1 / 1.00	Chromium	147	Percent	J/None	75 - 125	50 - 140	M			
E200.7 / METHOD	MS Recovery	SAIA-SB29-0.5 (MS)	1 / 1.00	Cobalt	69.4	Percent	J/UJ	75 - 125	50 - 140	M			
E200.7 / METHOD	MS Recovery	SAIA-SB29-0.5 (MS)	1 / 1.00	Lead	-143	Percent	J/R	75 - 125	50 - 140	M	Spike amount Insignificant	4.00	
E200.7 / METHOD	MS Recovery	SAIA-SB29-0.5 (MS)	1 / 1.00	Manganese	-78.9	Percent	J/R	75 - 125	50 - 140	M	Spike amount Insignificant	4.00	
E200.7 / METHOD	MS Recovery	SAIA-SB29-0.5 (MS)	1 / 1.00	Nickel	11.3	Percent	J/R	75 - 125	50 - 140	M			
E200.7 / METHOD	MS Recovery	SAIA-SB29-0.5 (MS)	1 / 1.00	Zinc	2.85	Percent	J/R	75 - 125	50 - 140	M	Spike amount Insignificant	4.00	
SW7471B / METHOD	Blank	PB76160BL (LB)	1 / 1.00	Mercury	0.00200	mg/kg	U/None	< 0.002	< 0.1	B1			

AUTOMATED DATA REVIEW SUMMARY for MY9EF8

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB29-0.5	N	Antimony	4.9	4.9 J	4.9 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB29-0.5	N	Cadmium	0.41	0.58 E	0.58 J	mg/kg	O
E200.7/NONE	SO	SAIA-SB29-0.5	N	Chromium	0.81	158 N	158 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB29-0.5	N	Cobalt	4.1	197 N	197 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB29-0.5	N	Sodium	407	297 J	297 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB29-15	N	Antimony	4.7	4.7 J	4.7 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB29-15	N	Silver	0.78	0.71 J	0.71 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB29-25	N	Antimony	5.3	5.3 J	5.3 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB29-25	N	Selenium	3.1	3.0 J	3.0 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB29-25	N	Silver	0.88	0.31 J	0.31 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB29-35	N	Antimony	4.7	4.7 J	4.7 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB29-35	N	Selenium	2.8	1.9 J	1.9 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB29-35	N	Silver	0.79	0.23 J	0.23 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-0.5	N	Antimony	4.8	4.8 J	4.8 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB36-0.5	N	Selenium	2.8	2.4 J	2.4 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-0.5	N	Silver	0.80	0.33 J	0.33 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-15	N	Antimony	5.9	5.9 J	5.9 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB36-15	N	Silver	0.98	0.37 J	0.37 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-2	N	Antimony	4.7	4.7 J	4.7 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB36-2	N	Silver	0.79	0.25 J	0.25 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-2	N	Sodium	394	300 J	300 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-2	N	Thallium	2.0	0.49 J	0.49 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-25	N	Antimony	5.2	5.2 J	5.2 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB36-25	N	Selenium	3.0	2.6 J	2.6 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-25	N	Silver	0.86	0.27 J	0.27 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-26	FD	Antimony	5.8	5.8 J	5.8 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB36-26	FD	Selenium	3.4	3.1 J	3.1 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9EF8

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB36-26	FD	Silver	0.97	0.29 J	0.29 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-26	FD	Sodium	484	481 J	481 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-35	N	Antimony	4.8	4.8 J	4.8 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB36-35	N	Selenium	2.8	1.7 J	1.7 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-35	N	Silver	0.79	0.13 J	0.13 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-35	N	Sodium	396	317 J	317 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-5	N	Antimony	4.5	4.5 J	4.5 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB36-5	N	Silver	0.74	0.40 J	0.40 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-5	N	Thallium	1.9	1.5 J	1.5 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-0.5	N	Silver	0.76	0.42 J	0.42 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-15	N	Antimony	5.4	5.4 J	5.4 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB37-15	N	Selenium	3.2	2.4 J	2.4 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-15	N	Silver	0.91	0.10 J	0.10 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-2	N	Silver	0.78	0.64 J	0.64 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-2	N	Thallium	2.0	1.6 J	1.6 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-25	N	Antimony	5.2	5.2 J	5.2 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB37-25	N	Selenium	3.0	2.8 J	2.8 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-25	N	Silver	0.86	0.17 J	0.17 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-35	N	Antimony	4.6	4.6 J	4.6 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB37-35	N	Beryllium	0.38	0.36 J	0.36 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-35	N	Selenium	2.7	1.5 J	1.5 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-35	N	Silver	0.77	0.090 J	0.090 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-5	N	Antimony	5.1	5.1 J	5.1 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB37-5	N	Selenium	2.9	1.9 J	1.9 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-5	N	Silver	0.84	0.14 J	0.14 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-5	N	Sodium	421	347 J	347 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-6	FD	Antimony	4.9	4.9 J	4.9 U	mg/kg	B2

AUTOMATED DATA REVIEW SUMMARY for MY9EF8

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB37-6	FD	Selenium	2.8	2.1 J	2.1 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-6	FD	Silver	0.81	0.13 J	0.13 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-6	FD	Sodium	405	337 J	337 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB38-0.5	N	Antimony	4.9	4.9 J	4.9 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB38-0.5	N	Selenium	2.9	2.0 J	2.0 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB38-0.5	N	Silver	0.82	0.21 J	0.21 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB38-2	N	Antimony	4.6	4.6 J	4.6 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB38-2	N	Selenium	2.7	1.7 J	1.7 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB38-2	N	Silver	0.77	0.060 J	0.060 J	mg/kg	TR
Test Leach	**Matrix**	**FieldSample ID**	**Type**	**Analyte**	**RL**	**Lab Result**	**Qualified Result**	**Units**	**Reason**
SW7471B/NONE	SO	SAIA-SB29-0.5	N	Mercury	0.11	0.041 J	0.041 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB29-15	N	Mercury	0.10	0.037 J	0.037 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB29-25	N	Mercury	0.12	0.066 J	0.066 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB29-35	N	Mercury	0.10	0.015 J	0.015 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB36-2	N	Mercury	0.095	0.046 J	0.046 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB36-25	N	Mercury	0.11	0.065 J	0.065 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB36-26	FD	Mercury	0.12	0.10 J	0.10 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB36-35	N	Mercury	0.099	0.058 J	0.058 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB37-0.5	N	Mercury	0.11	0.019 J	0.019 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB37-15	N	Mercury	0.12	0.068 J	0.068 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB37-25	N	Mercury	0.11	0.040 J	0.040 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB37-35	N	Mercury	0.10	0.039 J	0.039 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB37-5	N	Mercury	0.10	0.038 J	0.038 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB37-6	FD	Mercury	0.10	0.021 J	0.021 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB38-0.5	N	Mercury	0.10	0.071 J	0.071 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB38-2	N	Mercury	0.094	0.047 J	0.047 J	mg/kg	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB29-0.5	N	Silver	0.81	2.7	2.7	mg/kg	
E200.7/NONE	SO	SAIA-SB29-0.5	N	Aluminum	16.3	11300	11300	mg/kg	
E200.7/NONE	SO	SAIA-SB29-0.5	N	Arsenic	0.81	5.1	5.1	mg/kg	
E200.7/NONE	SO	SAIA-SB29-0.5	N	Barium	16.3	119	119	mg/kg	
E200.7/NONE	SO	SAIA-SB29-0.5	N	Beryllium	0.41	0.49	0.49	mg/kg	
E200.7/NONE	SO	SAIA-SB29-0.5	N	Calcium	407	5500	5500	mg/kg	
E200.7/NONE	SO	SAIA-SB29-0.5	N	Cadmium	0.41	0.58 E	0.58 J	mg/kg	O
E200.7/NONE	SO	SAIA-SB29-0.5	N	Cobalt	4.1	197 N	197 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB29-0.5	N	Chromium	0.81	158 N	158 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB29-0.5	N	Copper	2.0	89.9	89.9	mg/kg	
E200.7/NONE	SO	SAIA-SB29-0.5	N	Iron	8.1	30600	30600	mg/kg	
E200.7/NONE	SO	SAIA-SB29-0.5	N	Potassium	407	3450	3450	mg/kg	
E200.7/NONE	SO	SAIA-SB29-0.5	N	Magnesium	407	5960	5960	mg/kg	
E200.7/NONE	SO	SAIA-SB29-0.5	N	Manganese	1.2	944	944	mg/kg	
E200.7/NONE	SO	SAIA-SB29-0.5	N	Sodium	407	297 J	297 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB29-0.5	N	Nickel	3.3	49.8	49.8	mg/kg	
E200.7/NONE	SO	SAIA-SB29-0.5	N	Lead	0.81	209	209	mg/kg	
E200.7/NONE	SO	SAIA-SB29-0.5	N	Selenium	2.9	6.0	6.0	mg/kg	
E200.7/NONE	SO	SAIA-SB29-0.5	N	Vanadium	4.1	84.1	84.1	mg/kg	
E200.7/NONE	SO	SAIA-SB29-0.5	N	Zinc	4.9	441	441	mg/kg	
E200.7/NONE	SO	SAIA-SB29-15	N	Silver	0.78	0.71 J	0.71 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB29-15	N	Aluminum	15.5	14100	14100	mg/kg	
E200.7/NONE	SO	SAIA-SB29-15	N	Arsenic	0.78	2.9	2.9	mg/kg	
E200.7/NONE	SO	SAIA-SB29-15	N	Barium	15.5	120	120	mg/kg	
E200.7/NONE	SO	SAIA-SB29-15	N	Beryllium	0.39	0.59	0.59	mg/kg	
E200.7/NONE	SO	SAIA-SB29-15	N	Calcium	388	8130	8130	mg/kg	
E200.7/NONE	SO	SAIA-SB29-15	N	Cobalt	3.9	25.2 N	25.2	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EF8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB29-15	N	Chromium	0.78	53.0 N	53.0	mg/kg	
E200.7/NONE	SO	SAIA-SB29-15	N	Copper	1.9	27.4	27.4	mg/kg	
E200.7/NONE	SO	SAIA-SB29-15	N	Iron	7.8	23900	23900	mg/kg	
E200.7/NONE	SO	SAIA-SB29-15	N	Potassium	388	3890	3890	mg/kg	
E200.7/NONE	SO	SAIA-SB29-15	N	Magnesium	388	7050	7050	mg/kg	
E200.7/NONE	SO	SAIA-SB29-15	N	Manganese	1.2	340	340	mg/kg	
E200.7/NONE	SO	SAIA-SB29-15	N	Sodium	388	410	410	mg/kg	
E200.7/NONE	SO	SAIA-SB29-15	N	Nickel	3.1	19.6	19.6	mg/kg	
E200.7/NONE	SO	SAIA-SB29-15	N	Lead	0.78	32.3	32.3	mg/kg	
E200.7/NONE	SO	SAIA-SB29-15	N	Selenium	2.7	2.9	2.9	mg/kg	
E200.7/NONE	SO	SAIA-SB29-15	N	Vanadium	3.9	54.2	54.2	mg/kg	
E200.7/NONE	SO	SAIA-SB29-15	N	Zinc	4.7	110	110	mg/kg	
E200.7/NONE	SO	SAIA-SB29-25	N	Silver	0.88	0.31 J	0.31 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB29-25	N	Aluminum	17.6	21300	21300	mg/kg	
E200.7/NONE	SO	SAIA-SB29-25	N	Arsenic	0.88	4.7	4.7	mg/kg	
E200.7/NONE	SO	SAIA-SB29-25	N	Barium	17.6	188	188	mg/kg	
E200.7/NONE	SO	SAIA-SB29-25	N	Beryllium	0.44	0.81	0.81	mg/kg	
E200.7/NONE	SO	SAIA-SB29-25	N	Calcium	440	15300	15300	mg/kg	
E200.7/NONE	SO	SAIA-SB29-25	N	Cobalt	4.4	15.5 N	15.5	mg/kg	
E200.7/NONE	SO	SAIA-SB29-25	N	Chromium	0.88	26.7 N	26.7	mg/kg	
E200.7/NONE	SO	SAIA-SB29-25	N	Copper	2.2	28.8	28.8	mg/kg	
E200.7/NONE	SO	SAIA-SB29-25	N	Iron	8.8	33000	33000	mg/kg	
E200.7/NONE	SO	SAIA-SB29-25	N	Potassium	440	5460	5460	mg/kg	
E200.7/NONE	SO	SAIA-SB29-25	N	Magnesium	440	11100	11100	mg/kg	
E200.7/NONE	SO	SAIA-SB29-25	N	Manganese	1.3	550	550	mg/kg	
E200.7/NONE	SO	SAIA-SB29-25	N	Sodium	440	932	932	mg/kg	
E200.7/NONE	SO	SAIA-SB29-25	N	Nickel	3.5	21.1	21.1	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB29-25	N	Lead	0.88	6.0	6.0	mg/kg	
E200.7/NONE	SO	SAIA-SB29-25	N	Selenium	3.1	3.0 J	3.0 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB29-25	N	Vanadium	4.4	63.0	63.0	mg/kg	
E200.7/NONE	SO	SAIA-SB29-25	N	Zinc	5.3	77.4	77.4	mg/kg	
E200.7/NONE	SO	SAIA-SB29-35	N	Silver	0.79	0.23 J	0.23 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB29-35	N	Aluminum	15.8	11100	11100	mg/kg	
E200.7/NONE	SO	SAIA-SB29-35	N	Arsenic	0.79	12.9	12.9	mg/kg	
E200.7/NONE	SO	SAIA-SB29-35	N	Barium	15.8	104	104	mg/kg	
E200.7/NONE	SO	SAIA-SB29-35	N	Beryllium	0.40	0.42	0.42	mg/kg	
E200.7/NONE	SO	SAIA-SB29-35	N	Calcium	395	9900	9900	mg/kg	
E200.7/NONE	SO	SAIA-SB29-35	N	Cobalt	4.0	8.3 N	8.3	mg/kg	
E200.7/NONE	SO	SAIA-SB29-35	N	Chromium	0.79	13.7 N	13.7	mg/kg	
E200.7/NONE	SO	SAIA-SB29-35	N	Copper	2.0	11.2	11.2	mg/kg	
E200.7/NONE	SO	SAIA-SB29-35	N	Iron	7.9	19500	19500	mg/kg	
E200.7/NONE	SO	SAIA-SB29-35	N	Potassium	395	3780	3780	mg/kg	
E200.7/NONE	SO	SAIA-SB29-35	N	Magnesium	395	6630	6630	mg/kg	
E200.7/NONE	SO	SAIA-SB29-35	N	Manganese	1.2	337	337	mg/kg	
E200.7/NONE	SO	SAIA-SB29-35	N	Sodium	395	432	432	mg/kg	
E200.7/NONE	SO	SAIA-SB29-35	N	Nickel	3.2	9.8	9.8	mg/kg	
E200.7/NONE	SO	SAIA-SB29-35	N	Lead	0.79	2.7	2.7	mg/kg	
E200.7/NONE	SO	SAIA-SB29-35	N	Selenium	2.8	1.9 J	1.9 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB29-35	N	Vanadium	4.0	35.2	35.2	mg/kg	
E200.7/NONE	SO	SAIA-SB29-35	N	Zinc	4.7	46.2	46.2	mg/kg	
E200.7/NONE	SO	SAIA-SB36-0.5	N	Silver	0.80	0.33 J	0.33 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-0.5	N	Aluminum	16.0	10700	10700	mg/kg	
E200.7/NONE	SO	SAIA-SB36-0.5	N	Arsenic	0.80	4.9	4.9	mg/kg	
E200.7/NONE	SO	SAIA-SB36-0.5	N	Barium	16.0	104	104	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EF8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB36-0.5	N	Beryllium	0.40	0.52	0.52	mg/kg	
E200.7/NONE	SO	SAIA-SB36-0.5	N	Calcium	401	9730	9730	mg/kg	
E200.7/NONE	SO	SAIA-SB36-0.5	N	Cadmium	0.40	0.51 E	0.51	mg/kg	
E200.7/NONE	SO	SAIA-SB36-0.5	N	Cobalt	4.0	8.1 N	8.1	mg/kg	
E200.7/NONE	SO	SAIA-SB36-0.5	N	Chromium	0.80	19.8 N	19.8	mg/kg	
E200.7/NONE	SO	SAIA-SB36-0.5	N	Copper	2.0	46.1	46.1	mg/kg	
E200.7/NONE	SO	SAIA-SB36-0.5	N	Iron	8.0	24200	24200	mg/kg	
E200.7/NONE	SO	SAIA-SB36-0.5	N	Potassium	401	2990	2990	mg/kg	
E200.7/NONE	SO	SAIA-SB36-0.5	N	Magnesium	401	5480	5480	mg/kg	
E200.7/NONE	SO	SAIA-SB36-0.5	N	Manganese	1.2	413	413	mg/kg	
E200.7/NONE	SO	SAIA-SB36-0.5	N	Sodium	401	522	522	mg/kg	
E200.7/NONE	SO	SAIA-SB36-0.5	N	Nickel	3.2	16.3	16.3	mg/kg	
E200.7/NONE	SO	SAIA-SB36-0.5	N	Lead	0.80	237	237	mg/kg	
E200.7/NONE	SO	SAIA-SB36-0.5	N	Selenium	2.8	2.4 J	2.4 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-0.5	N	Vanadium	4.0	38.2	38.2	mg/kg	
E200.7/NONE	SO	SAIA-SB36-0.5	N	Zinc	4.8	257	257	mg/kg	
E200.7/NONE	SO	SAIA-SB36-15	N	Silver	0.98	0.37 J	0.37 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-15	N	Aluminum	19.5	33400	33400	mg/kg	
E200.7/NONE	SO	SAIA-SB36-15	N	Arsenic	0.98	7.2	7.2	mg/kg	
E200.7/NONE	SO	SAIA-SB36-15	N	Barium	19.5	260	260	mg/kg	
E200.7/NONE	SO	SAIA-SB36-15	N	Beryllium	0.49	1.4	1.4	mg/kg	
E200.7/NONE	SO	SAIA-SB36-15	N	Calcium	489	15500	15500	mg/kg	
E200.7/NONE	SO	SAIA-SB36-15	N	Cobalt	4.9	21.2 N	21.2	mg/kg	
E200.7/NONE	SO	SAIA-SB36-15	N	Chromium	0.98	38.0 N	38.0	mg/kg	
E200.7/NONE	SO	SAIA-SB36-15	N	Copper	2.4	51.4	51.4	mg/kg	
E200.7/NONE	SO	SAIA-SB36-15	N	Iron	9.8	41100	41100	mg/kg	
E200.7/NONE	SO	SAIA-SB36-15	N	Potassium	489	5130	5130	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB36-15	N	Magnesium	489	14200	14200	mg/kg	
E200.7/NONE	SO	SAIA-SB36-15	N	Manganese	1.5	600	600	mg/kg	
E200.7/NONE	SO	SAIA-SB36-15	N	Sodium	489	700	700	mg/kg	
E200.7/NONE	SO	SAIA-SB36-15	N	Nickel	3.9	30.9	30.9	mg/kg	
E200.7/NONE	SO	SAIA-SB36-15	N	Lead	0.98	13.0	13.0	mg/kg	
E200.7/NONE	SO	SAIA-SB36-15	N	Selenium	3.4	3.4 J	3.4	mg/kg	
E200.7/NONE	SO	SAIA-SB36-15	N	Vanadium	4.9	78.4	78.4	mg/kg	
E200.7/NONE	SO	SAIA-SB36-15	N	Zinc	5.9	98.0	98.0	mg/kg	
E200.7/NONE	SO	SAIA-SB36-2	N	Silver	0.79	0.25 J	0.25 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-2	N	Aluminum	15.7	4520	4520	mg/kg	
E200.7/NONE	SO	SAIA-SB36-2	N	Arsenic	0.79	4.7	4.7	mg/kg	
E200.7/NONE	SO	SAIA-SB36-2	N	Barium	15.7	41.2	41.2	mg/kg	
E200.7/NONE	SO	SAIA-SB36-2	N	Beryllium	0.39	0.45	0.45	mg/kg	
E200.7/NONE	SO	SAIA-SB36-2	N	Calcium	394	3920	3920	mg/kg	
E200.7/NONE	SO	SAIA-SB36-2	N	Cobalt	3.9	5.4 N	5.4	mg/kg	
E200.7/NONE	SO	SAIA-SB36-2	N	Chromium	0.79	19.2 N	19.2	mg/kg	
E200.7/NONE	SO	SAIA-SB36-2	N	Copper	2.0	60.2	60.2	mg/kg	
E200.7/NONE	SO	SAIA-SB36-2	N	Iron	7.9	32900	32900	mg/kg	
E200.7/NONE	SO	SAIA-SB36-2	N	Potassium	394	853	853	mg/kg	
E200.7/NONE	SO	SAIA-SB36-2	N	Magnesium	394	1740	1740	mg/kg	
E200.7/NONE	SO	SAIA-SB36-2	N	Manganese	1.2	467	467	mg/kg	
E200.7/NONE	SO	SAIA-SB36-2	N	Sodium	394	300 J	300 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-2	N	Nickel	3.1	26.5	26.5	mg/kg	
E200.7/NONE	SO	SAIA-SB36-2	N	Lead	0.79	57.0	57.0	mg/kg	
E200.7/NONE	SO	SAIA-SB36-2	N	Selenium	2.8	3.5	3.5	mg/kg	
E200.7/NONE	SO	SAIA-SB36-2	N	Thallium	2.0	0.49 J	0.49 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-2	N	Vanadium	3.9	19.7	19.7	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB36-2	N	Zinc	4.7	72.8	72.8	mg/kg	
E200.7/NONE	SO	SAIA-SB36-25	N	Silver	0.86	0.27 J	0.27 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-25	N	Aluminum	17.2	20000	20000	mg/kg	
E200.7/NONE	SO	SAIA-SB36-25	N	Arsenic	0.86	6.4	6.4	mg/kg	
E200.7/NONE	SO	SAIA-SB36-25	N	Barium	17.2	197	197	mg/kg	
E200.7/NONE	SO	SAIA-SB36-25	N	Beryllium	0.43	0.82	0.82	mg/kg	
E200.7/NONE	SO	SAIA-SB36-25	N	Calcium	430	13100	13100	mg/kg	
E200.7/NONE	SO	SAIA-SB36-25	N	Cobalt	4.3	14.3 N	14.3	mg/kg	
E200.7/NONE	SO	SAIA-SB36-25	N	Chromium	0.86	26.3 N	26.3	mg/kg	
E200.7/NONE	SO	SAIA-SB36-25	N	Copper	2.1	29.8	29.8	mg/kg	
E200.7/NONE	SO	SAIA-SB36-25	N	Iron	8.6	30400	30400	mg/kg	
E200.7/NONE	SO	SAIA-SB36-25	N	Potassium	430	4930	4930	mg/kg	
E200.7/NONE	SO	SAIA-SB36-25	N	Magnesium	430	10100	10100	mg/kg	
E200.7/NONE	SO	SAIA-SB36-25	N	Manganese	1.3	593	593	mg/kg	
E200.7/NONE	SO	SAIA-SB36-25	N	Sodium	430	482	482	mg/kg	
E200.7/NONE	SO	SAIA-SB36-25	N	Nickel	3.4	20.4	20.4	mg/kg	
E200.7/NONE	SO	SAIA-SB36-25	N	Lead	0.86	7.3	7.3	mg/kg	
E200.7/NONE	SO	SAIA-SB36-25	N	Selenium	3.0	2.6 J	2.6 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-25	N	Vanadium	4.3	57.2	57.2	mg/kg	
E200.7/NONE	SO	SAIA-SB36-25	N	Zinc	5.2	72.4	72.4	mg/kg	
E200.7/NONE	SO	SAIA-SB36-26	FD	Silver	0.97	0.29 J	0.29 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-26	FD	Aluminum	19.4	20400	20400	mg/kg	
E200.7/NONE	SO	SAIA-SB36-26	FD	Arsenic	0.97	8.3	8.3	mg/kg	
E200.7/NONE	SO	SAIA-SB36-26	FD	Barium	19.4	195	195	mg/kg	
E200.7/NONE	SO	SAIA-SB36-26	FD	Beryllium	0.48	0.85	0.85	mg/kg	
E200.7/NONE	SO	SAIA-SB36-26	FD	Calcium	484	14300	14300	mg/kg	
E200.7/NONE	SO	SAIA-SB36-26	FD	Cobalt	4.8	14.4 N	14.4	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EF8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB36-26	FD	Chromium	0.97	27.7 N	27.7	mg/kg	
E200.7/NONE	SO	SAIA-SB36-26	FD	Copper	2.4	33.8	33.8	mg/kg	
E200.7/NONE	SO	SAIA-SB36-26	FD	Iron	9.7	31200	31200	mg/kg	
E200.7/NONE	SO	SAIA-SB36-26	FD	Potassium	484	4580	4580	mg/kg	
E200.7/NONE	SO	SAIA-SB36-26	FD	Magnesium	484	10300	10300	mg/kg	
E200.7/NONE	SO	SAIA-SB36-26	FD	Manganese	1.5	573	573	mg/kg	
E200.7/NONE	SO	SAIA-SB36-26	FD	Sodium	484	481 J	481 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-26	FD	Nickel	3.9	22.2	22.2	mg/kg	
E200.7/NONE	SO	SAIA-SB36-26	FD	Lead	0.97	8.4	8.4	mg/kg	
E200.7/NONE	SO	SAIA-SB36-26	FD	Selenium	3.4	3.1 J	3.1 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-26	FD	Vanadium	4.8	58.1	58.1	mg/kg	
E200.7/NONE	SO	SAIA-SB36-26	FD	Zinc	5.8	71.9	71.9	mg/kg	
E200.7/NONE	SO	SAIA-SB36-35	N	Silver	0.79	0.13 J	0.13 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-35	N	Aluminum	15.8	8310	8310	mg/kg	
E200.7/NONE	SO	SAIA-SB36-35	N	Arsenic	0.79	8.7	8.7	mg/kg	
E200.7/NONE	SO	SAIA-SB36-35	N	Barium	15.8	72.4	72.4	mg/kg	
E200.7/NONE	SO	SAIA-SB36-35	N	Beryllium	0.40	0.40	0.40	mg/kg	
E200.7/NONE	SO	SAIA-SB36-35	N	Calcium	396	4720	4720	mg/kg	
E200.7/NONE	SO	SAIA-SB36-35	N	Cobalt	4.0	5.8 N	5.8	mg/kg	
E200.7/NONE	SO	SAIA-SB36-35	N	Chromium	0.79	11.2 N	11.2	mg/kg	
E200.7/NONE	SO	SAIA-SB36-35	N	Copper	2.0	13.1	13.1	mg/kg	
E200.7/NONE	SO	SAIA-SB36-35	N	Iron	7.9	17700	17700	mg/kg	
E200.7/NONE	SO	SAIA-SB36-35	N	Potassium	396	2320	2320	mg/kg	
E200.7/NONE	SO	SAIA-SB36-35	N	Magnesium	396	4260	4260	mg/kg	
E200.7/NONE	SO	SAIA-SB36-35	N	Manganese	1.2	248	248	mg/kg	
E200.7/NONE	SO	SAIA-SB36-35	N	Sodium	396	317 J	317 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-35	N	Nickel	3.2	7.5	7.5	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB36-35	N	Lead	0.79	4.4	4.4	mg/kg	
E200.7/NONE	SO	SAIA-SB36-35	N	Selenium	2.8	1.7 J	1.7 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-35	N	Vanadium	4.0	27.7	27.7	mg/kg	
E200.7/NONE	SO	SAIA-SB36-35	N	Zinc	4.8	32.6	32.6	mg/kg	
E200.7/NONE	SO	SAIA-SB36-5	N	Silver	0.74	0.40 J	0.40 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-5	N	Aluminum	14.9	6920	6920	mg/kg	
E200.7/NONE	SO	SAIA-SB36-5	N	Arsenic	0.74	9.3	9.3	mg/kg	
E200.7/NONE	SO	SAIA-SB36-5	N	Barium	14.9	48.6	48.6	mg/kg	
E200.7/NONE	SO	SAIA-SB36-5	N	Beryllium	0.37	0.60	0.60	mg/kg	
E200.7/NONE	SO	SAIA-SB36-5	N	Calcium	372	2310	2310	mg/kg	
E200.7/NONE	SO	SAIA-SB36-5	N	Cobalt	3.7	6.8 N	6.8	mg/kg	
E200.7/NONE	SO	SAIA-SB36-5	N	Chromium	0.74	38.6 N	38.6	mg/kg	
E200.7/NONE	SO	SAIA-SB36-5	N	Copper	1.9	128	128	mg/kg	
E200.7/NONE	SO	SAIA-SB36-5	N	Iron	7.4	50200	50200	mg/kg	
E200.7/NONE	SO	SAIA-SB36-5	N	Potassium	372	994	994	mg/kg	
E200.7/NONE	SO	SAIA-SB36-5	N	Magnesium	372	1810	1810	mg/kg	
E200.7/NONE	SO	SAIA-SB36-5	N	Manganese	1.1	503	503	mg/kg	
E200.7/NONE	SO	SAIA-SB36-5	N	Sodium	372	428	428	mg/kg	
E200.7/NONE	SO	SAIA-SB36-5	N	Nickel	3.0	37.9	37.9	mg/kg	
E200.7/NONE	SO	SAIA-SB36-5	N	Lead	0.74	45.3	45.3	mg/kg	
E200.7/NONE	SO	SAIA-SB36-5	N	Selenium	2.6	4.9	4.9	mg/kg	
E200.7/NONE	SO	SAIA-SB36-5	N	Thallium	1.9	1.5 J	1.5 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB36-5	N	Vanadium	3.7	29.2	29.2	mg/kg	
E200.7/NONE	SO	SAIA-SB36-5	N	Zinc	4.5	59.1	59.1	mg/kg	
E200.7/NONE	SO	SAIA-SB37-0.5	N	Silver	0.76	0.42 J	0.42 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-0.5	N	Aluminum	15.3	15000	15000	mg/kg	
E200.7/NONE	SO	SAIA-SB37-0.5	N	Arsenic	0.76	43.8	43.8	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EF8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB37-0.5	N	Barium	15.3	345	345	mg/kg	
E200.7/NONE	SO	SAIA-SB37-0.5	N	Beryllium	0.38	2.1	2.1	mg/kg	
E200.7/NONE	SO	SAIA-SB37-0.5	N	Calcium	382	33300	33300	mg/kg	
E200.7/NONE	SO	SAIA-SB37-0.5	N	Cobalt	3.8	21.4 N	21.4	mg/kg	
E200.7/NONE	SO	SAIA-SB37-0.5	N	Chromium	0.76	147 N	147	mg/kg	
E200.7/NONE	SO	SAIA-SB37-0.5	N	Copper	1.9	463	463	mg/kg	
E200.7/NONE	SO	SAIA-SB37-0.5	N	Iron	76.3	206000 D	206000	mg/kg	
E200.7/NONE	SO	SAIA-SB37-0.5	N	Potassium	382	2060	2060	mg/kg	
E200.7/NONE	SO	SAIA-SB37-0.5	N	Magnesium	382	3860	3860	mg/kg	
E200.7/NONE	SO	SAIA-SB37-0.5	N	Manganese	11.5	5120 D	5120	mg/kg	
E200.7/NONE	SO	SAIA-SB37-0.5	N	Sodium	382	1520	1520	mg/kg	
E200.7/NONE	SO	SAIA-SB37-0.5	N	Nickel	3.1	170	170	mg/kg	
E200.7/NONE	SO	SAIA-SB37-0.5	N	Lead	0.76	543	543	mg/kg	
E200.7/NONE	SO	SAIA-SB37-0.5	N	Antimony	4.6	48.9	48.9	mg/kg	
E200.7/NONE	SO	SAIA-SB37-0.5	N	Selenium	2.7	7.4	7.4	mg/kg	
E200.7/NONE	SO	SAIA-SB37-0.5	N	Thallium	1.9	5.0	5.0	mg/kg	
E200.7/NONE	SO	SAIA-SB37-0.5	N	Vanadium	3.8	81.7	81.7	mg/kg	
E200.7/NONE	SO	SAIA-SB37-0.5	N	Zinc	4.6	127	127	mg/kg	
E200.7/NONE	SO	SAIA-SB37-15	N	Silver	0.91	0.10 J	0.10 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-15	N	Aluminum	18.1	17400	17400	mg/kg	
E200.7/NONE	SO	SAIA-SB37-15	N	Arsenic	0.91	3.6	3.6	mg/kg	
E200.7/NONE	SO	SAIA-SB37-15	N	Barium	18.1	149	149	mg/kg	
E200.7/NONE	SO	SAIA-SB37-15	N	Beryllium	0.45	0.73	0.73	mg/kg	
E200.7/NONE	SO	SAIA-SB37-15	N	Calcium	453	9520	9520	mg/kg	
E200.7/NONE	SO	SAIA-SB37-15	N	Cobalt	4.5	12.1 N	12.1	mg/kg	
E200.7/NONE	SO	SAIA-SB37-15	N	Chromium	0.91	22.0 N	22.0	mg/kg	
E200.7/NONE	SO	SAIA-SB37-15	N	Copper	2.3	22.5	22.5	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EF8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB37-15	N	Iron	9.1	26500	26500	mg/kg	
E200.7/NONE	SO	SAIA-SB37-15	N	Potassium	453	4370	4370	mg/kg	
E200.7/NONE	SO	SAIA-SB37-15	N	Magnesium	453	8700	8700	mg/kg	
E200.7/NONE	SO	SAIA-SB37-15	N	Manganese	1.4	415	415	mg/kg	
E200.7/NONE	SO	SAIA-SB37-15	N	Sodium	453	454	454	mg/kg	
E200.7/NONE	SO	SAIA-SB37-15	N	Nickel	3.6	15.8	15.8	mg/kg	
E200.7/NONE	SO	SAIA-SB37-15	N	Lead	0.91	5.1	5.1	mg/kg	
E200.7/NONE	SO	SAIA-SB37-15	N	Selenium	3.2	2.4 J	2.4 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-15	N	Vanadium	4.5	52.4	52.4	mg/kg	
E200.7/NONE	SO	SAIA-SB37-15	N	Zinc	5.4	63.6	63.6	mg/kg	
E200.7/NONE	SO	SAIA-SB37-2	N	Silver	0.78	0.64 J	0.64 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-2	N	Aluminum	15.6	17700	17700	mg/kg	
E200.7/NONE	SO	SAIA-SB37-2	N	Arsenic	0.78	12.1	12.1	mg/kg	
E200.7/NONE	SO	SAIA-SB37-2	N	Barium	15.6	313	313	mg/kg	
E200.7/NONE	SO	SAIA-SB37-2	N	Beryllium	0.39	1.4	1.4	mg/kg	
E200.7/NONE	SO	SAIA-SB37-2	N	Calcium	390	34800	34800	mg/kg	
E200.7/NONE	SO	SAIA-SB37-2	N	Cobalt	3.9	10.6 N	10.6	mg/kg	
E200.7/NONE	SO	SAIA-SB37-2	N	Chromium	0.78	103 N	103	mg/kg	
E200.7/NONE	SO	SAIA-SB37-2	N	Copper	2.0	204	204	mg/kg	
E200.7/NONE	SO	SAIA-SB37-2	N	Iron	78.1	93100 D	93100	mg/kg	
E200.7/NONE	SO	SAIA-SB37-2	N	Potassium	390	2750	2750	mg/kg	
E200.7/NONE	SO	SAIA-SB37-2	N	Magnesium	390	3720	3720	mg/kg	
E200.7/NONE	SO	SAIA-SB37-2	N	Manganese	11.7	5260 D	5260	mg/kg	
E200.7/NONE	SO	SAIA-SB37-2	N	Sodium	390	1350	1350	mg/kg	
E200.7/NONE	SO	SAIA-SB37-2	N	Nickel	3.1	76.0	76.0	mg/kg	
E200.7/NONE	SO	SAIA-SB37-2	N	Lead	0.78	451	451	mg/kg	
E200.7/NONE	SO	SAIA-SB37-2	N	Antimony	4.7	13.2	13.2	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EF8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB37-2	N	Selenium	2.7	5.1	5.1	mg/kg	
E200.7/NONE	SO	SAIA-SB37-2	N	Thallium	2.0	1.6 J	1.6 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-2	N	Vanadium	3.9	56.3	56.3	mg/kg	
E200.7/NONE	SO	SAIA-SB37-2	N	Zinc	4.7	308	308	mg/kg	
E200.7/NONE	SO	SAIA-SB37-25	N	Silver	0.86	0.17 J	0.17 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-25	N	Aluminum	17.3	24200	24200	mg/kg	
E200.7/NONE	SO	SAIA-SB37-25	N	Arsenic	0.86	7.0	7.0	mg/kg	
E200.7/NONE	SO	SAIA-SB37-25	N	Barium	17.3	219	219	mg/kg	
E200.7/NONE	SO	SAIA-SB37-25	N	Beryllium	0.43	0.94	0.94	mg/kg	
E200.7/NONE	SO	SAIA-SB37-25	N	Calcium	432	21200	21200	mg/kg	
E200.7/NONE	SO	SAIA-SB37-25	N	Cobalt	4.3	15.1 N	15.1	mg/kg	
E200.7/NONE	SO	SAIA-SB37-25	N	Chromium	0.86	33.9 N	33.9	mg/kg	
E200.7/NONE	SO	SAIA-SB37-25	N	Copper	2.2	35.4	35.4	mg/kg	
E200.7/NONE	SO	SAIA-SB37-25	N	Iron	8.6	32600	32600	mg/kg	
E200.7/NONE	SO	SAIA-SB37-25	N	Potassium	432	5350	5350	mg/kg	
E200.7/NONE	SO	SAIA-SB37-25	N	Magnesium	432	10800	10800	mg/kg	
E200.7/NONE	SO	SAIA-SB37-25	N	Manganese	1.3	1080	1080	mg/kg	
E200.7/NONE	SO	SAIA-SB37-25	N	Sodium	432	1190	1190	mg/kg	
E200.7/NONE	SO	SAIA-SB37-25	N	Nickel	3.5	21.1	21.1	mg/kg	
E200.7/NONE	SO	SAIA-SB37-25	N	Lead	0.86	18.0	18.0	mg/kg	
E200.7/NONE	SO	SAIA-SB37-25	N	Selenium	3.0	2.8 J	2.8 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-25	N	Vanadium	4.3	66.9	66.9	mg/kg	
E200.7/NONE	SO	SAIA-SB37-25	N	Zinc	5.2	85.9	85.9	mg/kg	
E200.7/NONE	SO	SAIA-SB37-35	N	Silver	0.77	0.090 J	0.090 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-35	N	Aluminum	15.3	8260	8260	mg/kg	
E200.7/NONE	SO	SAIA-SB37-35	N	Arsenic	0.77	9.2	9.2	mg/kg	
E200.7/NONE	SO	SAIA-SB37-35	N	Barium	15.3	73.9	73.9	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EF8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB37-35	N	Beryllium	0.38	0.36 J	0.36 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-35	N	Calcium	383	4570	4570	mg/kg	
E200.7/NONE	SO	SAIA-SB37-35	N	Cobalt	3.8	6.0 N	6.0	mg/kg	
E200.7/NONE	SO	SAIA-SB37-35	N	Chromium	0.77	11.0 N	11.0	mg/kg	
E200.7/NONE	SO	SAIA-SB37-35	N	Copper	1.9	8.4	8.4	mg/kg	
E200.7/NONE	SO	SAIA-SB37-35	N	Iron	7.7	16100	16100	mg/kg	
E200.7/NONE	SO	SAIA-SB37-35	N	Potassium	383	2440	2440	mg/kg	
E200.7/NONE	SO	SAIA-SB37-35	N	Magnesium	383	4290	4290	mg/kg	
E200.7/NONE	SO	SAIA-SB37-35	N	Manganese	1.1	226	226	mg/kg	
E200.7/NONE	SO	SAIA-SB37-35	N	Sodium	383	397	397	mg/kg	
E200.7/NONE	SO	SAIA-SB37-35	N	Nickel	3.1	6.8	6.8	mg/kg	
E200.7/NONE	SO	SAIA-SB37-35	N	Lead	0.77	2.3	2.3	mg/kg	
E200.7/NONE	SO	SAIA-SB37-35	N	Selenium	2.7	1.5 J	1.5 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-35	N	Vanadium	3.8	32.3	32.3	mg/kg	
E200.7/NONE	SO	SAIA-SB37-35	N	Zinc	4.6	33.0	33.0	mg/kg	
E200.7/NONE	SO	SAIA-SB37-5	N	Silver	0.84	0.14 J	0.14 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-5	N	Aluminum	16.8	11600	11600	mg/kg	
E200.7/NONE	SO	SAIA-SB37-5	N	Arsenic	0.84	2.7	2.7	mg/kg	
E200.7/NONE	SO	SAIA-SB37-5	N	Barium	16.8	111	111	mg/kg	
E200.7/NONE	SO	SAIA-SB37-5	N	Beryllium	0.42	0.44	0.44	mg/kg	
E200.7/NONE	SO	SAIA-SB37-5	N	Calcium	421	11800	11800	mg/kg	
E200.7/NONE	SO	SAIA-SB37-5	N	Cobalt	4.2	8.5 N	8.5	mg/kg	
E200.7/NONE	SO	SAIA-SB37-5	N	Chromium	0.84	16.6 N	16.6	mg/kg	
E200.7/NONE	SO	SAIA-SB37-5	N	Copper	2.1	14.2	14.2	mg/kg	
E200.7/NONE	SO	SAIA-SB37-5	N	Iron	8.4	22100	22100	mg/kg	
E200.7/NONE	SO	SAIA-SB37-5	N	Potassium	421	3870	3870	mg/kg	
E200.7/NONE	SO	SAIA-SB37-5	N	Magnesium	421	6480	6480	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB37-5	N	Manganese	1.3	370	370	mg/kg	
E200.7/NONE	SO	SAIA-SB37-5	N	Sodium	421	347 J	347 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-5	N	Nickel	3.4	10.9	10.9	mg/kg	
E200.7/NONE	SO	SAIA-SB37-5	N	Lead	0.84	3.5	3.5	mg/kg	
E200.7/NONE	SO	SAIA-SB37-5	N	Selenium	2.9	1.9 J	1.9 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-5	N	Vanadium	4.2	44.2	44.2	mg/kg	
E200.7/NONE	SO	SAIA-SB37-5	N	Zinc	5.1	47.2	47.2	mg/kg	
E200.7/NONE	SO	SAIA-SB37-6	FD	Silver	0.81	0.13 J	0.13 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-6	FD	Aluminum	16.2	11100	11100	mg/kg	
E200.7/NONE	SO	SAIA-SB37-6	FD	Arsenic	0.81	2.5	2.5	mg/kg	
E200.7/NONE	SO	SAIA-SB37-6	FD	Barium	16.2	102	102	mg/kg	
E200.7/NONE	SO	SAIA-SB37-6	FD	Beryllium	0.40	0.48	0.48	mg/kg	
E200.7/NONE	SO	SAIA-SB37-6	FD	Calcium	405	11800	11800	mg/kg	
E200.7/NONE	SO	SAIA-SB37-6	FD	Cobalt	4.0	8.4 N	8.4	mg/kg	
E200.7/NONE	SO	SAIA-SB37-6	FD	Chromium	0.81	16.0 N	16.0	mg/kg	
E200.7/NONE	SO	SAIA-SB37-6	FD	Copper	2.0	13.4	13.4	mg/kg	
E200.7/NONE	SO	SAIA-SB37-6	FD	Iron	8.1	22200	22200	mg/kg	
E200.7/NONE	SO	SAIA-SB37-6	FD	Potassium	405	3700	3700	mg/kg	
E200.7/NONE	SO	SAIA-SB37-6	FD	Magnesium	405	6340	6340	mg/kg	
E200.7/NONE	SO	SAIA-SB37-6	FD	Manganese	1.2	370	370	mg/kg	
E200.7/NONE	SO	SAIA-SB37-6	FD	Sodium	405	337 J	337 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-6	FD	Nickel	3.2	10.6	10.6	mg/kg	
E200.7/NONE	SO	SAIA-SB37-6	FD	Lead	0.81	3.2	3.2	mg/kg	
E200.7/NONE	SO	SAIA-SB37-6	FD	Selenium	2.8	2.1 J	2.1 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB37-6	FD	Vanadium	4.0	44.5	44.5	mg/kg	
E200.7/NONE	SO	SAIA-SB37-6	FD	Zinc	4.9	46.3	46.3	mg/kg	
E200.7/NONE	SO	SAIA-SB38-0.5	N	Silver	0.82	0.21 J	0.21 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9EF8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB38-0.5	N	Aluminum	16.5	14200	14200	mg/kg	
E200.7/NONE	SO	SAIA-SB38-0.5	N	Arsenic	0.82	5.5	5.5	mg/kg	
E200.7/NONE	SO	SAIA-SB38-0.5	N	Barium	16.5	130	130	mg/kg	
E200.7/NONE	SO	SAIA-SB38-0.5	N	Beryllium	0.41	0.65	0.65	mg/kg	
E200.7/NONE	SO	SAIA-SB38-0.5	N	Calcium	412	17400	17400	mg/kg	
E200.7/NONE	SO	SAIA-SB38-0.5	N	Cobalt	4.1	9.8 N	9.8	mg/kg	
E200.7/NONE	SO	SAIA-SB38-0.5	N	Chromium	0.82	105 N	105	mg/kg	
E200.7/NONE	SO	SAIA-SB38-0.5	N	Copper	2.1	33.4	33.4	mg/kg	
E200.7/NONE	SO	SAIA-SB38-0.5	N	Iron	8.2	25600	25600	mg/kg	
E200.7/NONE	SO	SAIA-SB38-0.5	N	Potassium	412	3960	3960	mg/kg	
E200.7/NONE	SO	SAIA-SB38-0.5	N	Magnesium	412	6600	6600	mg/kg	
E200.7/NONE	SO	SAIA-SB38-0.5	N	Manganese	1.2	635	635	mg/kg	
E200.7/NONE	SO	SAIA-SB38-0.5	N	Sodium	412	725	725	mg/kg	
E200.7/NONE	SO	SAIA-SB38-0.5	N	Nickel	3.3	19.4	19.4	mg/kg	
E200.7/NONE	SO	SAIA-SB38-0.5	N	Lead	0.82	112	112	mg/kg	
E200.7/NONE	SO	SAIA-SB38-0.5	N	Selenium	2.9	2.0 J	2.0 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB38-0.5	N	Vanadium	4.1	43.8	43.8	mg/kg	
E200.7/NONE	SO	SAIA-SB38-0.5	N	Zinc	4.9	130	130	mg/kg	
E200.7/NONE	SO	SAIA-SB38-2	N	Silver	0.77	0.060 J	0.060 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB38-2	N	Aluminum	15.4	12200	12200	mg/kg	
E200.7/NONE	SO	SAIA-SB38-2	N	Arsenic	0.77	2.5	2.5	mg/kg	
E200.7/NONE	SO	SAIA-SB38-2	N	Barium	15.4	112	112	mg/kg	
E200.7/NONE	SO	SAIA-SB38-2	N	Beryllium	0.38	0.49	0.49	mg/kg	
E200.7/NONE	SO	SAIA-SB38-2	N	Calcium	384	7140	7140	mg/kg	
E200.7/NONE	SO	SAIA-SB38-2	N	Cobalt	3.8	8.6 N	8.6	mg/kg	
E200.7/NONE	SO	SAIA-SB38-2	N	Chromium	0.77	19.4 N	19.4	mg/kg	
E200.7/NONE	SO	SAIA-SB38-2	N	Copper	1.9	17.0	17.0	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB38-2	N	Iron	7.7	22100	22100	mg/kg	
E200.7/NONE	SO	SAIA-SB38-2	N	Potassium	384	4060	4060	mg/kg	
E200.7/NONE	SO	SAIA-SB38-2	N	Magnesium	384	6150	6150	mg/kg	
E200.7/NONE	SO	SAIA-SB38-2	N	Manganese	1.2	449	449	mg/kg	
E200.7/NONE	SO	SAIA-SB38-2	N	Sodium	384	391	391	mg/kg	
E200.7/NONE	SO	SAIA-SB38-2	N	Nickel	3.1	12.2	12.2	mg/kg	
E200.7/NONE	SO	SAIA-SB38-2	N	Lead	0.77	11.0	11.0	mg/kg	
E200.7/NONE	SO	SAIA-SB38-2	N	Selenium	2.7	1.7 J	1.7 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB38-2	N	Vanadium	3.8	41.9	41.9	mg/kg	
E200.7/NONE	SO	SAIA-SB38-2	N	Zinc	4.6	49.6	49.6	mg/kg	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	SAIA-SB29-0.5	N	Mercury	0.11	0.041 J	0.041 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB29-15	N	Mercury	0.10	0.037 J	0.037 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB29-25	N	Mercury	0.12	0.066 J	0.066 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB29-35	N	Mercury	0.10	0.015 J	0.015 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB36-0.5	N	Mercury	0.099	0.13	0.13	mg/kg	
SW7471B/NONE	SO	SAIA-SB36-15	N	Mercury	0.13	0.13 J	0.13	mg/kg	
SW7471B/NONE	SO	SAIA-SB36-2	N	Mercury	0.095	0.046 J	0.046 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB36-25	N	Mercury	0.11	0.065 J	0.065 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB36-26	FD	Mercury	0.12	0.10 J	0.10 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB36-35	N	Mercury	0.099	0.058 J	0.058 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB37-0.5	N	Mercury	0.11	0.019 J	0.019 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB37-15	N	Mercury	0.12	0.068 J	0.068 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB37-2	N	Mercury	0.094	0.17	0.17	mg/kg	
SW7471B/NONE	SO	SAIA-SB37-25	N	Mercury	0.11	0.040 J	0.040 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB37-35	N	Mercury	0.10	0.039 J	0.039 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9EF8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	SAIA-SB37-5	N	Mercury	0.10	0.038 J	0.038 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB37-6	FD	Mercury	0.10	0.021 J	0.021 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB38-0.5	N	Mercury	0.10	0.071 J	0.071 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB38-2	N	Mercury	0.094	0.047 J	0.047 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9EF8

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9EJ1

Facility: Southern Avenue Industrial Area

Soil Boring Sampling Event, April 2014

Guidance Document:

Contract Laboratory: CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ

Field Contractor:

Data Review Contractor: Gilbane

SDG: MY9EJ1, Certified - 5/13/2014 by wtse

QC Level: S1BVEM

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: November 24, 2014

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG MY9EJ1

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
E200.7/NONE	18	2
SW7471B/NONE	18	2

AUTOMATED DATA REVIEW SUMMARY for MY9EJ1

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Material Blank
- MS RPD
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for MY9EJ1

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 29 results (6.30%) out of the 460 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Gilbane reviewed the Chemtech lab report, COCs, case narrative, and EXES data review package.

No sample receipt issues or calibration anomalies were noted.

Qualifiers were added for lab blank (B2, B5) detects, field duplicate imprecision (D5), and minor interference check (O), and matrix (M) effects.

Low matrix recoveries and negative blank QC outliers were resolved.

24-Nov-2014

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for MY9EJ1

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70621-CC	PB76119	NA	LABQC	SQ	LABQC	PB76119BS	LB70621-S0	1/1	17-Apr-2014 12:00 PM	17-Apr-2014 12:00 PM	17-Apr-2014 4:44 PM	BS
	PB76119	NA	LABQC	SQ	LABQC	PB76119BL	LB70621-S0	1/1	17-Apr-2014 12:00 PM	17-Apr-2014 12:00 PM	17-Apr-2014 4:39 PM	LB
	PB76119	NA	SAIA-SB/SG19	SO	SAIA-SB19-0.5	F2018-19	LB70621-S0	1/1	16-Apr-2014 7:40 AM	17-Apr-2014 12:00 PM	17-Apr-2014 6:16 PM	N
	PB76119	NA	SAIA-SB/SG19	SO	SAIA-SB19-0.6	F2018-20	LB70621-S0	1/1	16-Apr-2014 7:45 AM	17-Apr-2014 12:00 PM	17-Apr-2014 6:28 PM	FD
	PB76119	NA	SAIA-SB/SG19	SO	SAIA-SB19-2	F2018-21	LB70621-S0	1/1	16-Apr-2014 7:50 AM	17-Apr-2014 12:00 PM	17-Apr-2014 6:32 PM	N
	PB76119	NA	SAIA-SB/SG19	SO	SAIA-SB19-5	F2018-22	LB70621-S0	1/1	16-Apr-2014 7:55 AM	17-Apr-2014 12:00 PM	17-Apr-2014 6:35 PM	N
	PB76119	NA	SAIA-SB/SG32	SO	SAIA-SB32-15	F2018-01	LB70621-S0	1/1	15-Apr-2014 1:30 PM	17-Apr-2014 12:00 PM	17-Apr-2014 5:12 PM	N
	PB76119	NA	SAIA-SB/SG32	SO	SAIA-SB32-25	F2018-02	LB70621-S0	1/1	15-Apr-2014 1:40 PM	17-Apr-2014 12:00 PM	17-Apr-2014 5:16 PM	N
	PB76119	NA	SAIA-SB/SG32	SO	SAIA-SB32-35	F2018-03	LB70621-S0	1/1	15-Apr-2014 1:50 PM	17-Apr-2014 12:00 PM	17-Apr-2014 5:20 PM	N
	PB76119	NA	SAIA-SB/SG33	SO	SAIA-SB33-0.5	F2018-04	LB70621-S0	1/1	15-Apr-2014 10:40 AM	17-Apr-2014 12:00 PM	17-Apr-2014 5:24 PM	N
	PB76119	NA	SAIA-SB/SG33	SO	SAIA-SB33-15	F2018-09	LB70621-S0	1/1	15-Apr-2014 11:00 AM	17-Apr-2014 12:00 PM	17-Apr-2014 5:32 PM	N
	PB76119	NA	SAIA-SB/SG33	SO	SAIA-SB33-2	F2018-05	LB70621-S0	1/1	15-Apr-2014 10:45 AM	17-Apr-2014 12:00 PM	17-Apr-2014 5:28 PM	N
	PB76119	NA	SAIA-SB/SG33	SO	SAIA-SB33-25	F2018-10	LB70621-S0	1/1	15-Apr-2014 11:10 AM	17-Apr-2014 12:00 PM	17-Apr-2014 5:36 PM	N
	PB76119	NA	SAIA-SB/SG33	SO	SAIA-SB33-35	F2018-11	LB70621-S0	1/1	15-Apr-2014 11:20 AM	17-Apr-2014 12:00 PM	17-Apr-2014 5:39 PM	N
	PB76119	NA	SAIA-SB/SG33	SO	SAIA-SB33-5	F2018-07	LB70621-S0	1/1	15-Apr-2014 10:50 AM	17-Apr-2014 12:00 PM	17-Apr-2014 5:00 PM	LR
	PB76119	NA	SAIA-SB/SG33	SO	SAIA-SB33-5	F2018-08	LB70621-S0	1/1	15-Apr-2014 10:50 AM	17-Apr-2014 12:00 PM	17-Apr-2014 5:04 PM	MS
	PB76119	NA	SAIA-SB/SG33	SO	SAIA-SB33-5	F2018-06	LB70621-S0	1/1	15-Apr-2014 10:50 AM	17-Apr-2014 12:00 PM	17-Apr-2014 4:56 PM	N
	PB76119	NA	SAIA-SB/SG34	SO	SAIA-SB34-0.5	F2018-12	LB70621-S0	1/1	15-Apr-2014 2:10 PM	17-Apr-2014 12:00 PM	17-Apr-2014 5:43 PM	N
	PB76119	NA	SAIA-SB/SG34	SO	SAIA-SB34-15	F2018-15	LB70621-S0	1/1	15-Apr-2014 2:40 PM	17-Apr-2014 12:00 PM	17-Apr-2014 6:00 PM	N
	PB76119	NA	SAIA-SB/SG34	SO	SAIA-SB34-16	F2018-16	LB70621-S0	1/1	15-Apr-2014 2:45 PM	17-Apr-2014 12:00 PM	17-Apr-2014 6:04 PM	FD
	PB76119	NA	SAIA-SB/SG34	SO	SAIA-SB34-2	F2018-13	LB70621-S0	1/1	15-Apr-2014 2:15 PM	17-Apr-2014 12:00 PM	17-Apr-2014 5:47 PM	N

AUTOMATED DATA REVIEW SUMMARY for MY9EJ1

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70621-CC	PB76119	NA	SAIA-SB/SG34	SO	SAIA-SB34-25	F2018-17	LB70621-S0	1/1	15-Apr-2014 2:55 PM	17-Apr-2014 12:00 PM	17-Apr-2014 6:08 PM	N
	PB76119	NA	SAIA-SB/SG34	SO	SAIA-SB34-35	F2018-18	LB70621-S0	1/1	15-Apr-2014 3:05 PM	17-Apr-2014 12:00 PM	17-Apr-2014 6:12 PM	N
	PB76119	NA	SAIA-SB/SG34	SO	SAIA-SB34-5	F2018-14	LB70621-S0	1/1	15-Apr-2014 2:20 PM	17-Apr-2014 12:00 PM	17-Apr-2014 5:56 PM	N
LB70645-CC	PB76119	NA	SAIA-SB/SG19	SO	SAIA-SB19-0.5	F2018-19	LB70645-S0	1/10	16-Apr-2014 7:40 AM	17-Apr-2014 12:00 PM	18-Apr-2014 11:52 AM	N
	PB76119	NA	SAIA-SB/SG19	SO	SAIA-SB19-2	F2018-21	LB70645-S0	1/10	16-Apr-2014 7:50 AM	17-Apr-2014 12:00 PM	18-Apr-2014 11:56 AM	N
	PB76119	NA	SAIA-SB/SG34	SO	SAIA-SB34-0.5	F2018-12	LB70645-S0	1/10	15-Apr-2014 2:10 PM	17-Apr-2014 12:00 PM	18-Apr-2014 11:48 AM	N

Test Method: SW7471B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70627-CC	PB76121	NA	LABQC	SQ	LABQC	PB76121BL	LB70627-S0	1/1	17-Apr-2014 12:00 PM	17-Apr-2014 12:00 PM	18-Apr-2014 12:31 PM	LB
	PB76121	NA	SAIA-SB/SG19	SO	SAIA-SB19-0.5	F2018-19	LB70627-S0	1/1	16-Apr-2014 7:40 AM	17-Apr-2014 12:00 PM	18-Apr-2014 1:14 PM	N
	PB76121	NA	SAIA-SB/SG19	SO	SAIA-SB19-0.6	F2018-20	LB70627-S0	1/1	16-Apr-2014 7:45 AM	17-Apr-2014 12:00 PM	18-Apr-2014 1:21 PM	FD
	PB76121	NA	SAIA-SB/SG19	SO	SAIA-SB19-2	F2018-21	LB70627-S0	1/1	16-Apr-2014 7:50 AM	17-Apr-2014 12:00 PM	18-Apr-2014 1:23 PM	N
	PB76121	NA	SAIA-SB/SG19	SO	SAIA-SB19-5	F2018-22	LB70627-S0	1/1	16-Apr-2014 7:55 AM	17-Apr-2014 12:00 PM	18-Apr-2014 1:25 PM	N
	PB76121	NA	SAIA-SB/SG32	SO	SAIA-SB32-15	F2018-01	LB70627-S0	1/1	15-Apr-2014 1:30 PM	17-Apr-2014 12:00 PM	18-Apr-2014 12:33 PM	N
	PB76121	NA	SAIA-SB/SG32	SO	SAIA-SB32-25	F2018-02	LB70627-S0	1/1	15-Apr-2014 1:40 PM	17-Apr-2014 12:00 PM	18-Apr-2014 12:35 PM	N
	PB76121	NA	SAIA-SB/SG32	SO	SAIA-SB32-35	F2018-03	LB70627-S0	1/1	15-Apr-2014 1:50 PM	17-Apr-2014 12:00 PM	18-Apr-2014 12:37 PM	N
	PB76121	NA	SAIA-SB/SG33	SO	SAIA-SB33-0.5	F2018-04	LB70627-S0	1/1	15-Apr-2014 10:40 AM	17-Apr-2014 12:00 PM	18-Apr-2014 12:39 PM	N
	PB76121	NA	SAIA-SB/SG33	SO	SAIA-SB33-15	F2018-09	LB70627-S0	1/1	15-Apr-2014 11:00 AM	17-Apr-2014 12:00 PM	18-Apr-2014 12:53 PM	N
	PB76121	NA	SAIA-SB/SG33	SO	SAIA-SB33-2	F2018-05	LB70627-S0	1/1	15-Apr-2014 10:45 AM	17-Apr-2014 12:00 PM	18-Apr-2014 12:41 PM	N
	PB76121	NA	SAIA-SB/SG33	SO	SAIA-SB33-25	F2018-10	LB70627-S0	1/1	15-Apr-2014 11:10 AM	17-Apr-2014 12:00 PM	18-Apr-2014 12:55 PM	N
	PB76121	NA	SAIA-SB/SG33	SO	SAIA-SB33-35	F2018-11	LB70627-S0	1/1	15-Apr-2014 11:20 AM	17-Apr-2014 12:00 PM	18-Apr-2014 12:57 PM	N

AUTOMATED DATA REVIEW SUMMARY for MY9EJ1

Batch Report

Test Method: SW7471B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70627-CC	PB76121	NA	SAIA-SB/SG33	SO	SAIA-SB33-5	F2018-07	LB70627-S0	1/1	15-Apr-2014 10:50 AM	17-Apr-2014 12:00 PM	18-Apr-2014 12:48 PM	LR
	PB76121	NA	SAIA-SB/SG33	SO	SAIA-SB33-5	F2018-08	LB70627-S0	1/1	15-Apr-2014 10:50 AM	17-Apr-2014 12:00 PM	18-Apr-2014 12:50 PM	MS
	PB76121	NA	SAIA-SB/SG33	SO	SAIA-SB33-5	F2018-06	LB70627-S0	1/1	15-Apr-2014 10:50 AM	17-Apr-2014 12:00 PM	18-Apr-2014 12:44 PM	N
	PB76121	NA	SAIA-SB/SG34	SO	SAIA-SB34-0.5	F2018-12	LB70627-S0	1/1	15-Apr-2014 2:10 PM	17-Apr-2014 12:00 PM	18-Apr-2014 12:59 PM	N
	PB76121	NA	SAIA-SB/SG34	SO	SAIA-SB34-15	F2018-15	LB70627-S0	1/1	15-Apr-2014 2:40 PM	17-Apr-2014 12:00 PM	18-Apr-2014 1:05 PM	N
	PB76121	NA	SAIA-SB/SG34	SO	SAIA-SB34-16	F2018-16	LB70627-S0	1/1	15-Apr-2014 2:45 PM	17-Apr-2014 12:00 PM	18-Apr-2014 1:08 PM	FD
	PB76121	NA	SAIA-SB/SG34	SO	SAIA-SB34-2	F2018-13	LB70627-S0	1/1	15-Apr-2014 2:15 PM	17-Apr-2014 12:00 PM	18-Apr-2014 1:01 PM	N
	PB76121	NA	SAIA-SB/SG34	SO	SAIA-SB34-25	F2018-17	LB70627-S0	1/1	15-Apr-2014 2:55 PM	17-Apr-2014 12:00 PM	18-Apr-2014 1:10 PM	N
	PB76121	NA	SAIA-SB/SG34	SO	SAIA-SB34-35	F2018-18	LB70627-S0	1/1	15-Apr-2014 3:05 PM	17-Apr-2014 12:00 PM	18-Apr-2014 1:12 PM	N
	PB76121	NA	SAIA-SB/SG34	SO	SAIA-SB34-5	F2018-14	LB70627-S0	1/1	15-Apr-2014 2:20 PM	17-Apr-2014 12:00 PM	18-Apr-2014 1:03 PM	N

AUTOMATED DATA REVIEW SUMMARY for MY9EJ1

Field Batch Report

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9EJ1

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
E200.7 / METHOD	Blank - Negative	PB76119BL (LB)	1 / 1.00	Selenium	-0.240	mg/kg	J/UJ	< 0.16	< 3.5	L1			
E200.7 / METHOD	Blank - Negative	PB76119BL (LB)	1 / 1.00	Silver	-0.0510	mg/kg	J/UJ	< 0.05	< 1	L1			
E200.7 / METHOD	MS Recovery	SAIA-SB33-5 (MS)	1 / 1.00	Antimony	45.6	Percent	J/R	75 - 125	50 - 140	M			
E200.7 / METHOD	MS Recovery	SAIA-SB33-5 (MS)	1 / 1.00	Lead	127	Percent	J/None	75 - 125	50 - 140	M			
E200.7 / METHOD	MS Recovery	SAIA-SB33-5 (MS)	1 / 1.00	Manganese	142	Percent	J/None	75 - 125	50 - 140	M	Spike amount Insignificant	4.00	
E200.7 / METHOD	MS Recovery	SAIA-SB33-5 (MS)	1 / 1.00	Thallium	24.9	Percent	J/R	75 - 125	50 - 140	M			
SW7471B / METHOD	Blank - Negative	PB76121BL (LB)	1 / 1.00	Mercury	-0.00760	mg/kg	J/UJ	< 0.002	< 0.1	L1			

AUTOMATED DATA REVIEW SUMMARY for MY9EJ1

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB19-0.5	N	Antimony	4.2	4.2 JN	4.2 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB19-0.5	N	Chromium	0.70	20.3	20.3 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB19-0.5	N	Copper	17.5	4350 D	4350 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB19-0.5	N	Sodium	350	332 J	332 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB19-0.6	FD	Antimony	4.5	4.5 JN	4.5 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB19-0.6	FD	Chromium	0.75	47.5	47.5 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB19-0.6	FD	Copper	1.9	1690	1690 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB19-0.6	FD	Sodium	377	326 J	326 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB19-2	N	Antimony	4.8	4.8 JN	4.8 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB19-2	N	Sodium	399	281 J	281 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB19-5	N	Antimony	4.2	4.2 JN	4.2 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB19-5	N	Lead	0.71	40.3 N	40.3 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB19-5	N	Selenium	2.5	2.2 J	2.2 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB19-5	N	Sodium	354	244 J	244 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB32-15	N	Antimony	4.7	4.7 JN	4.7 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB32-25	N	Antimony	5.2	5.2 JN	5.2 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB32-35	N	Antimony	4.4	4.4 JN	4.4 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB32-35	N	Beryllium	0.37	0.37 J	0.37 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB32-35	N	Selenium	2.6	1.9 J	1.9 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB32-35	N	Sodium	366	325 J	325 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB33-0.5	N	Antimony	4.7	4.7 JN	4.7 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB33-0.5	N	Selenium	2.7	2.3 J	2.3 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB33-0.5	N	Sodium	393	337 J	337 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB33-15	N	Antimony	4.6	4.6 JN	4.6 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB33-15	N	Selenium	2.7	2.6 J	2.6 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB33-2	N	Antimony	4.4	4.4 JN	4.4 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB33-2	N	Selenium	2.6	2.0 J	2.0 J	mg/kg	TR

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB33-2	N	Sodium	364	286 J	286 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB33-25	N	Antimony	5.3	5.3 JN	5.3 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB33-35	N	Antimony	4.8	4.8 JN	4.8 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB33-35	N	Beryllium	0.40	0.40 J	0.40 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB33-35	N	Selenium	2.8	2.3 J	2.3 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB33-5	N	Antimony	4.5	4.5 JN	4.5 UJ	mg/kg	M/B2/B5
E200.7/NONE	SO	SAIA-SB33-5	N	Cobalt	3.7	14.1 E	14.1 J	mg/kg	O
E200.7/NONE	SO	SAIA-SB33-5	N	Lead	0.74	5.1 N	5.1 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB33-5	N	Nickel	3.0	18.0 E	18.0 J	mg/kg	O
E200.7/NONE	SO	SAIA-SB33-5	N	Thallium	1.9	1.9 UN	1.9 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB34-0.5	N	Thallium	1.9	0.36 JN	0.36 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB34-15	N	Antimony	4.7	4.7 JN	4.7 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB34-15	N	Selenium	2.8	2.5 J	2.5 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB34-16	FD	Antimony	4.4	4.4 JN	4.4 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB34-2	N	Antimony	4.2	4.2 JN	4.2 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB34-2	N	Sodium	349	277 J	277 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB34-25	N	Antimony	5.7	5.7 JN	5.7 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB34-35	N	Cadmium	0.35	0.28 J	0.28 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB34-5	N	Antimony	4.8	4.8 JN	4.8 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB34-5	N	Sodium	404	338 J	338 J	mg/kg	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	SAIA-SB19-0.5	N	Mercury	0.10	0.032 J	0.032 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB19-0.6	FD	Mercury	0.10	0.034 J	0.034 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB19-2	N	Mercury	0.10	0.031 J	0.031 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB19-5	N	Mercury	0.094	0.023 J	0.023 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB32-15	N	Mercury	0.10	0.031 J	0.031 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB32-35	N	Mercury	0.093	0.032 J	0.032 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9EJ1

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	SAIA-SB33-0.5	N	Mercury	0.10	0.017 J	0.017 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB33-15	N	Mercury	0.11	0.026 J	0.026 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB33-2	N	Mercury	0.10	0.021 J	0.021 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB33-25	N	Mercury	0.11	0.10 J	0.10 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB33-35	N	Mercury	0.095	0.027 J	0.027 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB33-5	N	Mercury	0.10	0.041 J	0.041 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB34-0.5	N	Mercury	0.099	0.016 J	0.016 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB34-15	N	Mercury	0.095	0.027 J	0.027 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB34-16	FD	Mercury	0.095	0.027 J	0.027 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB34-2	N	Mercury	0.10	0.025 J	0.025 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB34-25	N	Mercury	0.12	0.020 J	0.020 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB34-35	N	Mercury	0.095	0.066 J	0.066 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB34-5	N	Mercury	0.10	0.024 J	0.024 J	mg/kg	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB19-0.5	N	Aluminum	14.0	11600	11600	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.5	N	Arsenic	0.70	3.3	3.3	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.5	N	Barium	14.0	108	108	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.5	N	Beryllium	0.35	0.47	0.47	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.5	N	Calcium	350	8200	8200	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.5	N	Cadmium	0.35	0.71	0.71	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.5	N	Cobalt	3.5	9.9 E	9.9	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.5	N	Chromium	0.70	20.3	20.3 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB19-0.5	N	Copper	17.5	4350 D	4350 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB19-0.5	N	Iron	7.0	21700	21700	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.5	N	Potassium	350	3600	3600	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.5	N	Magnesium	350	5740	5740	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.5	N	Manganese	1.1	278	278	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.5	N	Sodium	350	332 J	332 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB19-0.5	N	Nickel	2.8	46.3 E	46.3	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.5	N	Lead	0.70	198 N	198	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.5	N	Selenium	2.5	2.6	2.6	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.5	N	Vanadium	3.5	37.8	37.8	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.5	N	Zinc	4.2	891	891	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.6	FD	Aluminum	15.1	10900	10900	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.6	FD	Arsenic	0.75	3.4	3.4	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.6	FD	Barium	15.1	104	104	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.6	FD	Beryllium	0.38	0.44	0.44	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.6	FD	Calcium	377	8680	8680	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.6	FD	Cadmium	0.38	0.80	0.80	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.6	FD	Cobalt	3.8	9.8 E	9.8	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.6	FD	Chromium	0.75	47.5	47.5 J	mg/kg	D5

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB19-0.6	FD	Copper	1.9	1690	1690 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB19-0.6	FD	Iron	7.5	22700	22700	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.6	FD	Potassium	377	3430	3430	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.6	FD	Magnesium	377	5510	5510	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.6	FD	Manganese	1.1	287	287	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.6	FD	Sodium	377	326 J	326 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB19-0.6	FD	Nickel	3.0	32.8 E	32.8	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.6	FD	Lead	0.75	196 N	196	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.6	FD	Selenium	2.6	2.8	2.8	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.6	FD	Vanadium	3.8	37.2	37.2	mg/kg	
E200.7/NONE	SO	SAIA-SB19-0.6	FD	Zinc	4.5	885	885	mg/kg	
E200.7/NONE	SO	SAIA-SB19-2	N	Aluminum	15.9	13900	13900	mg/kg	
E200.7/NONE	SO	SAIA-SB19-2	N	Arsenic	0.80	3.9	3.9	mg/kg	
E200.7/NONE	SO	SAIA-SB19-2	N	Barium	15.9	121	121	mg/kg	
E200.7/NONE	SO	SAIA-SB19-2	N	Beryllium	0.40	0.59	0.59	mg/kg	
E200.7/NONE	SO	SAIA-SB19-2	N	Calcium	399	5560	5560	mg/kg	
E200.7/NONE	SO	SAIA-SB19-2	N	Cadmium	0.40	1.0	1.0	mg/kg	
E200.7/NONE	SO	SAIA-SB19-2	N	Cobalt	4.0	11.0 E	11.0	mg/kg	
E200.7/NONE	SO	SAIA-SB19-2	N	Chromium	0.80	35.8	35.8	mg/kg	
E200.7/NONE	SO	SAIA-SB19-2	N	Copper	19.9	3080 D	3080	mg/kg	
E200.7/NONE	SO	SAIA-SB19-2	N	Iron	8.0	24500	24500	mg/kg	
E200.7/NONE	SO	SAIA-SB19-2	N	Potassium	399	3860	3860	mg/kg	
E200.7/NONE	SO	SAIA-SB19-2	N	Magnesium	399	5800	5800	mg/kg	
E200.7/NONE	SO	SAIA-SB19-2	N	Manganese	1.2	293	293	mg/kg	
E200.7/NONE	SO	SAIA-SB19-2	N	Sodium	399	281 J	281 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB19-2	N	Nickel	3.2	36.1 E	36.1	mg/kg	
E200.7/NONE	SO	SAIA-SB19-2	N	Lead	0.80	337 N	337	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EJ1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB19-2	N	Selenium	2.8	2.8	2.8	mg/kg	
E200.7/NONE	SO	SAIA-SB19-2	N	Vanadium	4.0	42.4	42.4	mg/kg	
E200.7/NONE	SO	SAIA-SB19-2	N	Zinc	4.8	1250	1250	mg/kg	
E200.7/NONE	SO	SAIA-SB19-5	N	Aluminum	14.2	9800	9800	mg/kg	
E200.7/NONE	SO	SAIA-SB19-5	N	Arsenic	0.71	2.5	2.5	mg/kg	
E200.7/NONE	SO	SAIA-SB19-5	N	Barium	14.2	97.1	97.1	mg/kg	
E200.7/NONE	SO	SAIA-SB19-5	N	Beryllium	0.35	0.41	0.41	mg/kg	
E200.7/NONE	SO	SAIA-SB19-5	N	Calcium	354	5060	5060	mg/kg	
E200.7/NONE	SO	SAIA-SB19-5	N	Cobalt	3.5	7.8 E	7.8	mg/kg	
E200.7/NONE	SO	SAIA-SB19-5	N	Chromium	0.71	19.9	19.9	mg/kg	
E200.7/NONE	SO	SAIA-SB19-5	N	Copper	1.8	192	192	mg/kg	
E200.7/NONE	SO	SAIA-SB19-5	N	Iron	7.1	18200	18200	mg/kg	
E200.7/NONE	SO	SAIA-SB19-5	N	Potassium	354	3410	3410	mg/kg	
E200.7/NONE	SO	SAIA-SB19-5	N	Magnesium	354	5250	5250	mg/kg	
E200.7/NONE	SO	SAIA-SB19-5	N	Manganese	1.1	239	239	mg/kg	
E200.7/NONE	SO	SAIA-SB19-5	N	Sodium	354	244 J	244 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB19-5	N	Nickel	2.8	11.0 E	11.0	mg/kg	
E200.7/NONE	SO	SAIA-SB19-5	N	Lead	0.71	40.3 N	40.3 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB19-5	N	Selenium	2.5	2.2 J	2.2 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB19-5	N	Vanadium	3.5	32.0	32.0	mg/kg	
E200.7/NONE	SO	SAIA-SB19-5	N	Zinc	4.2	98.6	98.6	mg/kg	
E200.7/NONE	SO	SAIA-SB32-15	N	Aluminum	15.8	15600	15600	mg/kg	
E200.7/NONE	SO	SAIA-SB32-15	N	Arsenic	0.79	3.1	3.1	mg/kg	
E200.7/NONE	SO	SAIA-SB32-15	N	Barium	15.8	146	146	mg/kg	
E200.7/NONE	SO	SAIA-SB32-15	N	Beryllium	0.39	0.66	0.66	mg/kg	
E200.7/NONE	SO	SAIA-SB32-15	N	Calcium	395	7340	7340	mg/kg	
E200.7/NONE	SO	SAIA-SB32-15	N	Cobalt	3.9	12.2 E	12.2	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EJ1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB32-15	N	Chromium	0.79	22.0	22.0	mg/kg	
E200.7/NONE	SO	SAIA-SB32-15	N	Copper	2.0	20.9	20.9	mg/kg	
E200.7/NONE	SO	SAIA-SB32-15	N	Iron	7.9	24800	24800	mg/kg	
E200.7/NONE	SO	SAIA-SB32-15	N	Potassium	395	4260	4260	mg/kg	
E200.7/NONE	SO	SAIA-SB32-15	N	Magnesium	395	8140	8140	mg/kg	
E200.7/NONE	SO	SAIA-SB32-15	N	Manganese	1.2	323	323	mg/kg	
E200.7/NONE	SO	SAIA-SB32-15	N	Sodium	395	783	783	mg/kg	
E200.7/NONE	SO	SAIA-SB32-15	N	Nickel	3.2	15.8 E	15.8	mg/kg	
E200.7/NONE	SO	SAIA-SB32-15	N	Lead	0.79	4.8 N	4.8	mg/kg	
E200.7/NONE	SO	SAIA-SB32-15	N	Selenium	2.8	2.8 J	2.8	mg/kg	
E200.7/NONE	SO	SAIA-SB32-15	N	Vanadium	3.9	47.0	47.0	mg/kg	
E200.7/NONE	SO	SAIA-SB32-15	N	Zinc	4.7	60.4	60.4	mg/kg	
E200.7/NONE	SO	SAIA-SB32-25	N	Aluminum	17.3	20700	20700	mg/kg	
E200.7/NONE	SO	SAIA-SB32-25	N	Arsenic	0.86	5.7	5.7	mg/kg	
E200.7/NONE	SO	SAIA-SB32-25	N	Barium	17.3	211	211	mg/kg	
E200.7/NONE	SO	SAIA-SB32-25	N	Beryllium	0.43	0.85	0.85	mg/kg	
E200.7/NONE	SO	SAIA-SB32-25	N	Calcium	432	11600	11600	mg/kg	
E200.7/NONE	SO	SAIA-SB32-25	N	Cobalt	4.3	16.9 E	16.9	mg/kg	
E200.7/NONE	SO	SAIA-SB32-25	N	Chromium	0.86	28.4	28.4	mg/kg	
E200.7/NONE	SO	SAIA-SB32-25	N	Copper	2.2	34.6	34.6	mg/kg	
E200.7/NONE	SO	SAIA-SB32-25	N	Iron	8.6	30800	30800	mg/kg	
E200.7/NONE	SO	SAIA-SB32-25	N	Potassium	432	4560	4560	mg/kg	
E200.7/NONE	SO	SAIA-SB32-25	N	Magnesium	432	10700	10700	mg/kg	
E200.7/NONE	SO	SAIA-SB32-25	N	Manganese	1.3	508	508	mg/kg	
E200.7/NONE	SO	SAIA-SB32-25	N	Sodium	432	1220	1220	mg/kg	
E200.7/NONE	SO	SAIA-SB32-25	N	Nickel	3.5	25.1 E	25.1	mg/kg	
E200.7/NONE	SO	SAIA-SB32-25	N	Lead	0.86	7.3 N	7.3	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EJ1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB32-25	N	Selenium	3.0	3.2	3.2	mg/kg	
E200.7/NONE	SO	SAIA-SB32-25	N	Vanadium	4.3	53.7	53.7	mg/kg	
E200.7/NONE	SO	SAIA-SB32-25	N	Zinc	5.2	75.5	75.5	mg/kg	
E200.7/NONE	SO	SAIA-SB32-35	N	Aluminum	14.6	7840	7840	mg/kg	
E200.7/NONE	SO	SAIA-SB32-35	N	Arsenic	0.73	8.9	8.9	mg/kg	
E200.7/NONE	SO	SAIA-SB32-35	N	Barium	14.6	73.8	73.8	mg/kg	
E200.7/NONE	SO	SAIA-SB32-35	N	Calcium	366	4340	4340	mg/kg	
E200.7/NONE	SO	SAIA-SB32-35	N	Cobalt	3.7	6.7 E	6.7	mg/kg	
E200.7/NONE	SO	SAIA-SB32-35	N	Chromium	0.73	10.2	10.2	mg/kg	
E200.7/NONE	SO	SAIA-SB32-35	N	Copper	1.8	9.4	9.4	mg/kg	
E200.7/NONE	SO	SAIA-SB32-35	N	Iron	7.3	15500	15500	mg/kg	
E200.7/NONE	SO	SAIA-SB32-35	N	Potassium	366	2440	2440	mg/kg	
E200.7/NONE	SO	SAIA-SB32-35	N	Magnesium	366	4540	4540	mg/kg	
E200.7/NONE	SO	SAIA-SB32-35	N	Manganese	1.1	224	224	mg/kg	
E200.7/NONE	SO	SAIA-SB32-35	N	Sodium	366	325 J	325 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB32-35	N	Nickel	2.9	7.1 E	7.1	mg/kg	
E200.7/NONE	SO	SAIA-SB32-35	N	Lead	0.73	2.0 N	2.0	mg/kg	
E200.7/NONE	SO	SAIA-SB32-35	N	Selenium	2.6	1.9 J	1.9 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB32-35	N	Vanadium	3.7	28.7	28.7	mg/kg	
E200.7/NONE	SO	SAIA-SB32-35	N	Zinc	4.4	33.2	33.2	mg/kg	
E200.7/NONE	SO	SAIA-SB33-0.5	N	Aluminum	15.7	10500	10500	mg/kg	
E200.7/NONE	SO	SAIA-SB33-0.5	N	Arsenic	0.79	3.3	3.3	mg/kg	
E200.7/NONE	SO	SAIA-SB33-0.5	N	Barium	15.7	115	115	mg/kg	
E200.7/NONE	SO	SAIA-SB33-0.5	N	Beryllium	0.39	0.41	0.41	mg/kg	
E200.7/NONE	SO	SAIA-SB33-0.5	N	Calcium	393	6050	6050	mg/kg	
E200.7/NONE	SO	SAIA-SB33-0.5	N	Cobalt	3.9	8.7 E	8.7	mg/kg	
E200.7/NONE	SO	SAIA-SB33-0.5	N	Chromium	0.79	15.3	15.3	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB33-0.5	N	Copper	2.0	25.8	25.8	mg/kg	
E200.7/NONE	SO	SAIA-SB33-0.5	N	Iron	7.9	20300	20300	mg/kg	
E200.7/NONE	SO	SAIA-SB33-0.5	N	Potassium	393	4000	4000	mg/kg	
E200.7/NONE	SO	SAIA-SB33-0.5	N	Magnesium	393	5710	5710	mg/kg	
E200.7/NONE	SO	SAIA-SB33-0.5	N	Manganese	1.2	323	323	mg/kg	
E200.7/NONE	SO	SAIA-SB33-0.5	N	Sodium	393	337 J	337 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB33-0.5	N	Nickel	3.1	12.4 E	12.4	mg/kg	
E200.7/NONE	SO	SAIA-SB33-0.5	N	Lead	0.79	59.0 N	59.0	mg/kg	
E200.7/NONE	SO	SAIA-SB33-0.5	N	Selenium	2.7	2.3 J	2.3 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB33-0.5	N	Vanadium	3.9	34.4	34.4	mg/kg	
E200.7/NONE	SO	SAIA-SB33-0.5	N	Zinc	4.7	103	103	mg/kg	
E200.7/NONE	SO	SAIA-SB33-15	N	Aluminum	15.4	13900	13900	mg/kg	
E200.7/NONE	SO	SAIA-SB33-15	N	Arsenic	0.77	2.8	2.8	mg/kg	
E200.7/NONE	SO	SAIA-SB33-15	N	Barium	15.4	128	128	mg/kg	
E200.7/NONE	SO	SAIA-SB33-15	N	Beryllium	0.38	0.57	0.57	mg/kg	
E200.7/NONE	SO	SAIA-SB33-15	N	Calcium	384	6640	6640	mg/kg	
E200.7/NONE	SO	SAIA-SB33-15	N	Cobalt	3.8	11.1 E	11.1	mg/kg	
E200.7/NONE	SO	SAIA-SB33-15	N	Chromium	0.77	18.6	18.6	mg/kg	
E200.7/NONE	SO	SAIA-SB33-15	N	Copper	1.9	17.6	17.6	mg/kg	
E200.7/NONE	SO	SAIA-SB33-15	N	Iron	7.7	23400	23400	mg/kg	
E200.7/NONE	SO	SAIA-SB33-15	N	Potassium	384	4450	4450	mg/kg	
E200.7/NONE	SO	SAIA-SB33-15	N	Magnesium	384	8030	8030	mg/kg	
E200.7/NONE	SO	SAIA-SB33-15	N	Manganese	1.2	323	323	mg/kg	
E200.7/NONE	SO	SAIA-SB33-15	N	Sodium	384	462	462	mg/kg	
E200.7/NONE	SO	SAIA-SB33-15	N	Nickel	3.1	14.5 E	14.5	mg/kg	
E200.7/NONE	SO	SAIA-SB33-15	N	Lead	0.77	4.1 N	4.1	mg/kg	
E200.7/NONE	SO	SAIA-SB33-15	N	Selenium	2.7	2.6 J	2.6 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9EJ1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB33-15	N	Vanadium	3.8	44.2	44.2	mg/kg	
E200.7/NONE	SO	SAIA-SB33-15	N	Zinc	4.6	57.9	57.9	mg/kg	
E200.7/NONE	SO	SAIA-SB33-2	N	Aluminum	14.6	10600	10600	mg/kg	
E200.7/NONE	SO	SAIA-SB33-2	N	Arsenic	0.73	2.8	2.8	mg/kg	
E200.7/NONE	SO	SAIA-SB33-2	N	Barium	14.6	111	111	mg/kg	
E200.7/NONE	SO	SAIA-SB33-2	N	Beryllium	0.36	0.42	0.42	mg/kg	
E200.7/NONE	SO	SAIA-SB33-2	N	Calcium	364	6450	6450	mg/kg	
E200.7/NONE	SO	SAIA-SB33-2	N	Cobalt	3.6	8.6 E	8.6	mg/kg	
E200.7/NONE	SO	SAIA-SB33-2	N	Chromium	0.73	14.4	14.4	mg/kg	
E200.7/NONE	SO	SAIA-SB33-2	N	Copper	1.8	14.9	14.9	mg/kg	
E200.7/NONE	SO	SAIA-SB33-2	N	Iron	7.3	18700	18700	mg/kg	
E200.7/NONE	SO	SAIA-SB33-2	N	Potassium	364	4090	4090	mg/kg	
E200.7/NONE	SO	SAIA-SB33-2	N	Magnesium	364	5910	5910	mg/kg	
E200.7/NONE	SO	SAIA-SB33-2	N	Manganese	1.1	291	291	mg/kg	
E200.7/NONE	SO	SAIA-SB33-2	N	Sodium	364	286 J	286 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB33-2	N	Nickel	2.9	11.0 E	11.0	mg/kg	
E200.7/NONE	SO	SAIA-SB33-2	N	Lead	0.73	12.5 N	12.5	mg/kg	
E200.7/NONE	SO	SAIA-SB33-2	N	Selenium	2.6	2.0 J	2.0 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB33-2	N	Vanadium	3.6	34.0	34.0	mg/kg	
E200.7/NONE	SO	SAIA-SB33-2	N	Zinc	4.4	56.0	56.0	mg/kg	
E200.7/NONE	SO	SAIA-SB33-25	N	Aluminum	17.5	25000	25000	mg/kg	
E200.7/NONE	SO	SAIA-SB33-25	N	Arsenic	0.88	10.3	10.3	mg/kg	
E200.7/NONE	SO	SAIA-SB33-25	N	Barium	17.5	239	239	mg/kg	
E200.7/NONE	SO	SAIA-SB33-25	N	Beryllium	0.44	1.1	1.1	mg/kg	
E200.7/NONE	SO	SAIA-SB33-25	N	Calcium	438	14400	14400	mg/kg	
E200.7/NONE	SO	SAIA-SB33-25	N	Cobalt	4.4	19.8 E	19.8	mg/kg	
E200.7/NONE	SO	SAIA-SB33-25	N	Chromium	0.88	33.9	33.9	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EJ1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB33-25	N	Copper	2.2	43.8	43.8	mg/kg	
E200.7/NONE	SO	SAIA-SB33-25	N	Iron	8.8	35600	35600	mg/kg	
E200.7/NONE	SO	SAIA-SB33-25	N	Potassium	438	4970	4970	mg/kg	
E200.7/NONE	SO	SAIA-SB33-25	N	Magnesium	438	12200	12200	mg/kg	
E200.7/NONE	SO	SAIA-SB33-25	N	Manganese	1.3	596	596	mg/kg	
E200.7/NONE	SO	SAIA-SB33-25	N	Sodium	438	1460	1460	mg/kg	
E200.7/NONE	SO	SAIA-SB33-25	N	Nickel	3.5	29.5 E	29.5	mg/kg	
E200.7/NONE	SO	SAIA-SB33-25	N	Lead	0.88	11.1 N	11.1	mg/kg	
E200.7/NONE	SO	SAIA-SB33-25	N	Selenium	3.1	3.9	3.9	mg/kg	
E200.7/NONE	SO	SAIA-SB33-25	N	Vanadium	4.4	64.9	64.9	mg/kg	
E200.7/NONE	SO	SAIA-SB33-25	N	Zinc	5.3	84.9	84.9	mg/kg	
E200.7/NONE	SO	SAIA-SB33-35	N	Aluminum	15.9	9910	9910	mg/kg	
E200.7/NONE	SO	SAIA-SB33-35	N	Arsenic	0.80	10.1	10.1	mg/kg	
E200.7/NONE	SO	SAIA-SB33-35	N	Barium	15.9	101	101	mg/kg	
E200.7/NONE	SO	SAIA-SB33-35	N	Calcium	398	8470	8470	mg/kg	
E200.7/NONE	SO	SAIA-SB33-35	N	Cobalt	4.0	8.2 E	8.2	mg/kg	
E200.7/NONE	SO	SAIA-SB33-35	N	Chromium	0.80	12.0	12.0	mg/kg	
E200.7/NONE	SO	SAIA-SB33-35	N	Copper	2.0	11.9	11.9	mg/kg	
E200.7/NONE	SO	SAIA-SB33-35	N	Iron	8.0	17100	17100	mg/kg	
E200.7/NONE	SO	SAIA-SB33-35	N	Potassium	398	3540	3540	mg/kg	
E200.7/NONE	SO	SAIA-SB33-35	N	Magnesium	398	6260	6260	mg/kg	
E200.7/NONE	SO	SAIA-SB33-35	N	Manganese	1.2	291	291	mg/kg	
E200.7/NONE	SO	SAIA-SB33-35	N	Sodium	398	502	502	mg/kg	
E200.7/NONE	SO	SAIA-SB33-35	N	Nickel	3.2	9.0 E	9.0	mg/kg	
E200.7/NONE	SO	SAIA-SB33-35	N	Lead	0.80	2.0 N	2.0	mg/kg	
E200.7/NONE	SO	SAIA-SB33-35	N	Selenium	2.8	2.3 J	2.3 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB33-35	N	Vanadium	4.0	30.6	30.6	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB33-35	N	Zinc	4.8	43.5	43.5	mg/kg	
E200.7/NONE	SO	SAIA-SB33-5	N	Aluminum	14.9	18000	18000	mg/kg	
E200.7/NONE	SO	SAIA-SB33-5	N	Arsenic	0.74	3.9	3.9	mg/kg	
E200.7/NONE	SO	SAIA-SB33-5	N	Barium	14.9	178	178	mg/kg	
E200.7/NONE	SO	SAIA-SB33-5	N	Beryllium	0.37	0.73	0.73	mg/kg	
E200.7/NONE	SO	SAIA-SB33-5	N	Calcium	372	9800	9800	mg/kg	
E200.7/NONE	SO	SAIA-SB33-5	N	Cobalt	3.7	14.1 E	14.1 J	mg/kg	O
E200.7/NONE	SO	SAIA-SB33-5	N	Chromium	0.74	22.3	22.3	mg/kg	
E200.7/NONE	SO	SAIA-SB33-5	N	Copper	1.9	22.7	22.7	mg/kg	
E200.7/NONE	SO	SAIA-SB33-5	N	Iron	7.4	27500	27500	mg/kg	
E200.7/NONE	SO	SAIA-SB33-5	N	Potassium	372	5560	5560	mg/kg	
E200.7/NONE	SO	SAIA-SB33-5	N	Magnesium	372	10000	10000	mg/kg	
E200.7/NONE	SO	SAIA-SB33-5	N	Manganese	1.1	460	460	mg/kg	
E200.7/NONE	SO	SAIA-SB33-5	N	Sodium	372	531	531	mg/kg	
E200.7/NONE	SO	SAIA-SB33-5	N	Nickel	3.0	18.0 E	18.0 J	mg/kg	O
E200.7/NONE	SO	SAIA-SB33-5	N	Lead	0.74	5.1 N	5.1 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB33-5	N	Selenium	2.6	3.2	3.2	mg/kg	
E200.7/NONE	SO	SAIA-SB33-5	N	Vanadium	3.7	50.5	50.5	mg/kg	
E200.7/NONE	SO	SAIA-SB33-5	N	Zinc	4.5	72.7	72.7	mg/kg	
E200.7/NONE	SO	SAIA-SB34-0.5	N	Aluminum	15.4	9600	9600	mg/kg	
E200.7/NONE	SO	SAIA-SB34-0.5	N	Arsenic	0.77	12.1	12.1	mg/kg	
E200.7/NONE	SO	SAIA-SB34-0.5	N	Barium	15.4	156	156	mg/kg	
E200.7/NONE	SO	SAIA-SB34-0.5	N	Beryllium	0.39	0.88	0.88	mg/kg	
E200.7/NONE	SO	SAIA-SB34-0.5	N	Calcium	385	14300	14300	mg/kg	
E200.7/NONE	SO	SAIA-SB34-0.5	N	Cobalt	3.9	16.3 E	16.3	mg/kg	
E200.7/NONE	SO	SAIA-SB34-0.5	N	Chromium	0.77	1020	1020	mg/kg	
E200.7/NONE	SO	SAIA-SB34-0.5	N	Copper	1.9	212	212	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EJ1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB34-0.5	N	Iron	7.7	55400	55400	mg/kg	
E200.7/NONE	SO	SAIA-SB34-0.5	N	Potassium	385	1470	1470	mg/kg	
E200.7/NONE	SO	SAIA-SB34-0.5	N	Magnesium	385	2460	2460	mg/kg	
E200.7/NONE	SO	SAIA-SB34-0.5	N	Manganese	1.2	1920	1920	mg/kg	
E200.7/NONE	SO	SAIA-SB34-0.5	N	Sodium	385	566	566	mg/kg	
E200.7/NONE	SO	SAIA-SB34-0.5	N	Nickel	30.8	585 ED	585	mg/kg	
E200.7/NONE	SO	SAIA-SB34-0.5	N	Lead	0.77	184 N	184	mg/kg	
E200.7/NONE	SO	SAIA-SB34-0.5	N	Antimony	4.6	10.0 N	10.0	mg/kg	
E200.7/NONE	SO	SAIA-SB34-0.5	N	Selenium	2.7	5.9	5.9	mg/kg	
E200.7/NONE	SO	SAIA-SB34-0.5	N	Thallium	1.9	0.36 JN	0.36 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB34-0.5	N	Vanadium	3.9	39.6	39.6	mg/kg	
E200.7/NONE	SO	SAIA-SB34-0.5	N	Zinc	4.6	268	268	mg/kg	
E200.7/NONE	SO	SAIA-SB34-15	N	Aluminum	15.7	12100	12100	mg/kg	
E200.7/NONE	SO	SAIA-SB34-15	N	Arsenic	0.79	3.4	3.4	mg/kg	
E200.7/NONE	SO	SAIA-SB34-15	N	Barium	15.7	111	111	mg/kg	
E200.7/NONE	SO	SAIA-SB34-15	N	Beryllium	0.39	0.52	0.52	mg/kg	
E200.7/NONE	SO	SAIA-SB34-15	N	Calcium	393	20200	20200	mg/kg	
E200.7/NONE	SO	SAIA-SB34-15	N	Cobalt	3.9	9.6 E	9.6	mg/kg	
E200.7/NONE	SO	SAIA-SB34-15	N	Chromium	0.79	16.4	16.4	mg/kg	
E200.7/NONE	SO	SAIA-SB34-15	N	Copper	2.0	14.0	14.0	mg/kg	
E200.7/NONE	SO	SAIA-SB34-15	N	Iron	7.9	21200	21200	mg/kg	
E200.7/NONE	SO	SAIA-SB34-15	N	Potassium	393	3690	3690	mg/kg	
E200.7/NONE	SO	SAIA-SB34-15	N	Magnesium	393	7370	7370	mg/kg	
E200.7/NONE	SO	SAIA-SB34-15	N	Manganese	1.2	343	343	mg/kg	
E200.7/NONE	SO	SAIA-SB34-15	N	Sodium	393	1170	1170	mg/kg	
E200.7/NONE	SO	SAIA-SB34-15	N	Nickel	3.1	12.6 E	12.6	mg/kg	
E200.7/NONE	SO	SAIA-SB34-15	N	Lead	0.79	3.1 N	3.1	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EJ1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB34-15	N	Selenium	2.8	2.5 J	2.5 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB34-15	N	Vanadium	3.9	40.9	40.9	mg/kg	
E200.7/NONE	SO	SAIA-SB34-15	N	Zinc	4.7	49.9	49.9	mg/kg	
E200.7/NONE	SO	SAIA-SB34-16	FD	Aluminum	14.6	13900	13900	mg/kg	
E200.7/NONE	SO	SAIA-SB34-16	FD	Arsenic	0.73	3.7	3.7	mg/kg	
E200.7/NONE	SO	SAIA-SB34-16	FD	Barium	14.6	129	129	mg/kg	
E200.7/NONE	SO	SAIA-SB34-16	FD	Beryllium	0.37	0.58	0.58	mg/kg	
E200.7/NONE	SO	SAIA-SB34-16	FD	Calcium	366	12300	12300	mg/kg	
E200.7/NONE	SO	SAIA-SB34-16	FD	Cobalt	3.7	11.3 E	11.3	mg/kg	
E200.7/NONE	SO	SAIA-SB34-16	FD	Chromium	0.73	18.8	18.8	mg/kg	
E200.7/NONE	SO	SAIA-SB34-16	FD	Copper	1.8	16.2	16.2	mg/kg	
E200.7/NONE	SO	SAIA-SB34-16	FD	Iron	7.3	23200	23200	mg/kg	
E200.7/NONE	SO	SAIA-SB34-16	FD	Potassium	366	4070	4070	mg/kg	
E200.7/NONE	SO	SAIA-SB34-16	FD	Magnesium	366	7960	7960	mg/kg	
E200.7/NONE	SO	SAIA-SB34-16	FD	Manganese	1.1	344	344	mg/kg	
E200.7/NONE	SO	SAIA-SB34-16	FD	Sodium	366	1360	1360	mg/kg	
E200.7/NONE	SO	SAIA-SB34-16	FD	Nickel	2.9	15.0 E	15.0	mg/kg	
E200.7/NONE	SO	SAIA-SB34-16	FD	Lead	0.73	3.6 N	3.6	mg/kg	
E200.7/NONE	SO	SAIA-SB34-16	FD	Selenium	2.6	2.9	2.9	mg/kg	
E200.7/NONE	SO	SAIA-SB34-16	FD	Vanadium	3.7	44.9	44.9	mg/kg	
E200.7/NONE	SO	SAIA-SB34-16	FD	Zinc	4.4	56.1	56.1	mg/kg	
E200.7/NONE	SO	SAIA-SB34-2	N	Aluminum	14.0	11600	11600	mg/kg	
E200.7/NONE	SO	SAIA-SB34-2	N	Arsenic	0.70	3.0	3.0	mg/kg	
E200.7/NONE	SO	SAIA-SB34-2	N	Barium	14.0	118	118	mg/kg	
E200.7/NONE	SO	SAIA-SB34-2	N	Beryllium	0.35	0.44	0.44	mg/kg	
E200.7/NONE	SO	SAIA-SB34-2	N	Calcium	349	7910	7910	mg/kg	
E200.7/NONE	SO	SAIA-SB34-2	N	Cobalt	3.5	9.9 E	9.9	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EJ1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB34-2	N	Chromium	0.70	17.5	17.5	mg/kg	
E200.7/NONE	SO	SAIA-SB34-2	N	Copper	1.7	18.9	18.9	mg/kg	
E200.7/NONE	SO	SAIA-SB34-2	N	Iron	7.0	21300	21300	mg/kg	
E200.7/NONE	SO	SAIA-SB34-2	N	Potassium	349	4600	4600	mg/kg	
E200.7/NONE	SO	SAIA-SB34-2	N	Magnesium	349	6360	6360	mg/kg	
E200.7/NONE	SO	SAIA-SB34-2	N	Manganese	1.0	350	350	mg/kg	
E200.7/NONE	SO	SAIA-SB34-2	N	Sodium	349	277 J	277 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB34-2	N	Nickel	2.8	13.4 E	13.4	mg/kg	
E200.7/NONE	SO	SAIA-SB34-2	N	Lead	0.70	22.1 N	22.1	mg/kg	
E200.7/NONE	SO	SAIA-SB34-2	N	Selenium	2.4	2.4 J	2.4	mg/kg	
E200.7/NONE	SO	SAIA-SB34-2	N	Vanadium	3.5	38.0	38.0	mg/kg	
E200.7/NONE	SO	SAIA-SB34-2	N	Zinc	4.2	70.2	70.2	mg/kg	
E200.7/NONE	SO	SAIA-SB34-25	N	Aluminum	19.0	28800	28800	mg/kg	
E200.7/NONE	SO	SAIA-SB34-25	N	Arsenic	0.95	10.7	10.7	mg/kg	
E200.7/NONE	SO	SAIA-SB34-25	N	Barium	19.0	240	240	mg/kg	
E200.7/NONE	SO	SAIA-SB34-25	N	Beryllium	0.47	1.3	1.3	mg/kg	
E200.7/NONE	SO	SAIA-SB34-25	N	Calcium	474	15500	15500	mg/kg	
E200.7/NONE	SO	SAIA-SB34-25	N	Cobalt	4.7	24.6 E	24.6	mg/kg	
E200.7/NONE	SO	SAIA-SB34-25	N	Chromium	0.95	36.1	36.1	mg/kg	
E200.7/NONE	SO	SAIA-SB34-25	N	Copper	2.4	55.2	55.2	mg/kg	
E200.7/NONE	SO	SAIA-SB34-25	N	Iron	9.5	41900	41900	mg/kg	
E200.7/NONE	SO	SAIA-SB34-25	N	Potassium	474	4560	4560	mg/kg	
E200.7/NONE	SO	SAIA-SB34-25	N	Magnesium	474	13500	13500	mg/kg	
E200.7/NONE	SO	SAIA-SB34-25	N	Manganese	1.4	751	751	mg/kg	
E200.7/NONE	SO	SAIA-SB34-25	N	Sodium	474	2200	2200	mg/kg	
E200.7/NONE	SO	SAIA-SB34-25	N	Nickel	3.8	36.1 E	36.1	mg/kg	
E200.7/NONE	SO	SAIA-SB34-25	N	Lead	0.95	13.9 N	13.9	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EJ1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB34-25	N	Selenium	3.3	4.5	4.5	mg/kg	
E200.7/NONE	SO	SAIA-SB34-25	N	Vanadium	4.7	79.3	79.3	mg/kg	
E200.7/NONE	SO	SAIA-SB34-25	N	Zinc	5.7	92.2	92.2	mg/kg	
E200.7/NONE	SO	SAIA-SB34-35	N	Aluminum	14.1	7760	7760	mg/kg	
E200.7/NONE	SO	SAIA-SB34-35	N	Barium	14.1	73.8	73.8	mg/kg	
E200.7/NONE	SO	SAIA-SB34-35	N	Beryllium	0.35	0.36	0.36	mg/kg	
E200.7/NONE	SO	SAIA-SB34-35	N	Calcium	353	3730	3730	mg/kg	
E200.7/NONE	SO	SAIA-SB34-35	N	Cadmium	0.35	0.28 J	0.28 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB34-35	N	Cobalt	3.5	4.4 E	4.4	mg/kg	
E200.7/NONE	SO	SAIA-SB34-35	N	Chromium	0.71	9.3	9.3	mg/kg	
E200.7/NONE	SO	SAIA-SB34-35	N	Copper	1.8	8.0	8.0	mg/kg	
E200.7/NONE	SO	SAIA-SB34-35	N	Iron	7.1	13700	13700	mg/kg	
E200.7/NONE	SO	SAIA-SB34-35	N	Potassium	353	2510	2510	mg/kg	
E200.7/NONE	SO	SAIA-SB34-35	N	Magnesium	353	4410	4410	mg/kg	
E200.7/NONE	SO	SAIA-SB34-35	N	Manganese	1.1	214	214	mg/kg	
E200.7/NONE	SO	SAIA-SB34-35	N	Sodium	353	407	407	mg/kg	
E200.7/NONE	SO	SAIA-SB34-35	N	Nickel	2.8	8.7 E	8.7	mg/kg	
E200.7/NONE	SO	SAIA-SB34-35	N	Antimony	4.2	19.1 N	19.1	mg/kg	
E200.7/NONE	SO	SAIA-SB34-35	N	Selenium	2.5	11.3	11.3	mg/kg	
E200.7/NONE	SO	SAIA-SB34-35	N	Thallium	1.8	26.2 N	26.2	mg/kg	
E200.7/NONE	SO	SAIA-SB34-35	N	Vanadium	3.5	24.2	24.2	mg/kg	
E200.7/NONE	SO	SAIA-SB34-35	N	Zinc	4.2	31.0	31.0	mg/kg	
E200.7/NONE	SO	SAIA-SB34-5	N	Aluminum	16.1	17100	17100	mg/kg	
E200.7/NONE	SO	SAIA-SB34-5	N	Arsenic	0.81	3.5	3.5	mg/kg	
E200.7/NONE	SO	SAIA-SB34-5	N	Barium	16.1	174	174	mg/kg	
E200.7/NONE	SO	SAIA-SB34-5	N	Beryllium	0.40	0.69	0.69	mg/kg	
E200.7/NONE	SO	SAIA-SB34-5	N	Calcium	404	8390	8390	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB34-5	N	Cobalt	4.0	13.8 E	13.8	mg/kg	
E200.7/NONE	SO	SAIA-SB34-5	N	Chromium	0.81	22.4	22.4	mg/kg	
E200.7/NONE	SO	SAIA-SB34-5	N	Copper	2.0	22.1	22.1	mg/kg	
E200.7/NONE	SO	SAIA-SB34-5	N	Iron	8.1	28100	28100	mg/kg	
E200.7/NONE	SO	SAIA-SB34-5	N	Potassium	404	7750	7750	mg/kg	
E200.7/NONE	SO	SAIA-SB34-5	N	Magnesium	404	9820	9820	mg/kg	
E200.7/NONE	SO	SAIA-SB34-5	N	Manganese	1.2	475	475	mg/kg	
E200.7/NONE	SO	SAIA-SB34-5	N	Sodium	404	338 J	338 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB34-5	N	Nickel	3.2	18.1 E	18.1	mg/kg	
E200.7/NONE	SO	SAIA-SB34-5	N	Lead	0.81	8.6 N	8.6	mg/kg	
E200.7/NONE	SO	SAIA-SB34-5	N	Selenium	2.8	3.2	3.2	mg/kg	
E200.7/NONE	SO	SAIA-SB34-5	N	Vanadium	4.0	51.6	51.6	mg/kg	
E200.7/NONE	SO	SAIA-SB34-5	N	Zinc	4.8	80.8	80.8	mg/kg	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	SAIA-SB19-0.5	N	Mercury	0.10	0.032 J	0.032 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB19-0.6	FD	Mercury	0.10	0.034 J	0.034 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB19-2	N	Mercury	0.10	0.031 J	0.031 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB19-5	N	Mercury	0.094	0.023 J	0.023 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB32-15	N	Mercury	0.10	0.031 J	0.031 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB32-25	N	Mercury	0.12	0.12	0.12	mg/kg	
SW7471B/NONE	SO	SAIA-SB32-35	N	Mercury	0.093	0.032 J	0.032 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB33-0.5	N	Mercury	0.10	0.017 J	0.017 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB33-15	N	Mercury	0.11	0.026 J	0.026 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB33-2	N	Mercury	0.10	0.021 J	0.021 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB33-25	N	Mercury	0.11	0.10 J	0.10 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB33-35	N	Mercury	0.095	0.027 J	0.027 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9EJ1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	SAIA-SB33-5	N	Mercury	0.10	0.041 J	0.041 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB34-0.5	N	Mercury	0.099	0.016 J	0.016 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB34-15	N	Mercury	0.095	0.027 J	0.027 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB34-16	FD	Mercury	0.095	0.027 J	0.027 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB34-2	N	Mercury	0.10	0.025 J	0.025 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB34-25	N	Mercury	0.12	0.020 J	0.020 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB34-35	N	Mercury	0.095	0.066 J	0.066 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB34-5	N	Mercury	0.10	0.024 J	0.024 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9EJ1

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9EM9

Facility: Southern Avenue Industrial Area

Soil Boring Sampling Event, April 2014

Guidance Document:

Contract Laboratory: CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ

Field Contractor:

Data Review Contractor: Gilbane

SDG: MY9EM9, Certified - 5/2/2014 by wtse

QC Level: S1BVEM

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: November 24, 2014

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG MY9EM9

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
E200.7/NONE	18	2
SW7471B/NONE	18	2

AUTOMATED DATA REVIEW SUMMARY for MY9EM9

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Material Blank
- MS RPD
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for MY9EM9

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 32 results (6.96%) out of the 460 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Gilbane reviewed the Chemtech lab report, COCs, case narrative, and EXES data review package.

No sample receipt issues or calibration anomalies were noted.

Qualifiers were added for lab blank (B2, B5) detects, field duplicate imprecision (D5), and minor interference check (O), and matrix (M) effects.

Low matrix QC outliers were resolved.

24-Nov-2014

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for MY9EM9

Batch Report

AUTOMATED DATA REVIEW SUMMARY for MY9EM9

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70665-CC	PB76163	NA	LABQC	SQ	LABQC	PB76163BS	LB70665-S0	1/1	21-Apr-2014 12:00 PM	21-Apr-2014 12:00 PM	21-Apr-2014 3:04 PM	BS
	PB76163	NA	LABQC	SQ	LABQC	PB76163BL	LB70665-S0	1/1	21-Apr-2014 12:00 PM	21-Apr-2014 12:00 PM	21-Apr-2014 3:00 PM	LB
	PB76163	NA	SAIA-SB/SG20	SO	SAIA-SB20-0.5	F2057-14	LB70665-S0	1/1	18-Apr-2014 8:45 AM	21-Apr-2014 12:00 PM	21-Apr-2014 4:20 PM	N
	PB76163	NA	SAIA-SB/SG20	SO	SAIA-SB20-15	F2057-17	LB70665-S0	1/1	18-Apr-2014 9:05 AM	21-Apr-2014 12:00 PM	21-Apr-2014 4:32 PM	N
	PB76163	NA	SAIA-SB/SG20	SO	SAIA-SB20-2	F2057-15	LB70665-S0	1/1	18-Apr-2014 8:50 AM	21-Apr-2014 12:00 PM	21-Apr-2014 4:24 PM	N
	PB76163	NA	SAIA-SB/SG20	SO	SAIA-SB20-25	F2057-18	LB70665-S0	1/1	18-Apr-2014 9:15 AM	21-Apr-2014 12:00 PM	21-Apr-2014 4:36 PM	N
	PB76163	NA	SAIA-SB/SG20	SO	SAIA-SB20-35	F2057-19	LB70665-S0	1/1	18-Apr-2014 9:20 AM	21-Apr-2014 12:00 PM	21-Apr-2014 4:40 PM	N
	PB76163	NA	SAIA-SB/SG20	SO	SAIA-SB20-5	F2057-16	LB70665-S0	1/1	18-Apr-2014 8:55 AM	21-Apr-2014 12:00 PM	21-Apr-2014 4:28 PM	N
	PB76163	NA	SAIA-SB/SG21	SO	SAIA-SB21-0.5	F2057-20	LB70665-S0	1/1	18-Apr-2014 9:50 AM	21-Apr-2014 12:00 PM	21-Apr-2014 4:44 PM	N
	PB76163	NA	SAIA-SB/SG21	SO	SAIA-SB21-2	F2057-21	LB70665-S0	1/1	18-Apr-2014 10:00 AM	21-Apr-2014 12:00 PM	21-Apr-2014 4:48 PM	N
	PB76163	NA	SAIA-SB/SG21	SO	SAIA-SB21-3	F2057-22	LB70665-S0	1/1	18-Apr-2014 10:05 AM	21-Apr-2014 12:00 PM	21-Apr-2014 4:52 PM	FD
	PB76163	NA	SAIA-SB/SG38	SO	SAIA-SB38-15	F2057-03	LB70665-S0	1/1	17-Apr-2014 1:15 PM	21-Apr-2014 12:00 PM	21-Apr-2014 3:16 PM	LR
	PB76163	NA	SAIA-SB/SG38	SO	SAIA-SB38-15	F2057-04	LB70665-S0	1/1	17-Apr-2014 1:15 PM	21-Apr-2014 12:00 PM	21-Apr-2014 3:20 PM	MS
	PB76163	NA	SAIA-SB/SG38	SO	SAIA-SB38-15	F2057-02	LB70665-S0	1/1	17-Apr-2014 1:15 PM	21-Apr-2014 12:00 PM	21-Apr-2014 3:12 PM	N
	PB76163	NA	SAIA-SB/SG38	SO	SAIA-SB38-25	F2057-05	LB70665-S0	1/1	17-Apr-2014 1:25 PM	21-Apr-2014 12:00 PM	21-Apr-2014 3:28 PM	N
	PB76163	NA	SAIA-SB/SG38	SO	SAIA-SB38-35	F2057-06	LB70665-S0	1/1	17-Apr-2014 1:35 PM	21-Apr-2014 12:00 PM	21-Apr-2014 3:48 PM	N
	PB76163	NA	SAIA-SB/SG38	SO	SAIA-SB38-5	F2057-01	LB70665-S0	1/1	17-Apr-2014 1:05 PM	21-Apr-2014 12:00 PM	21-Apr-2014 3:08 PM	N
	PB76163	NA	SAIA-SB/SG39	SO	SAIA-SB39-0.5	F2057-07	LB70665-S0	1/1	17-Apr-2014 2:00 PM	21-Apr-2014 12:00 PM	21-Apr-2014 3:52 PM	N
	PB76163	NA	SAIA-SB/SG39	SO	SAIA-SB39-15	F2057-11	LB70665-S0	1/1	17-Apr-2014 2:30 PM	21-Apr-2014 12:00 PM	21-Apr-2014 4:08 PM	N
	PB76163	NA	SAIA-SB/SG39	SO	SAIA-SB39-2	F2057-08	LB70665-S0	1/1	17-Apr-2014 2:05 PM	21-Apr-2014 12:00 PM	21-Apr-2014 3:56 PM	N
	PB76163	NA	SAIA-SB/SG39	SO	SAIA-SB39-25	F2057-12	LB70665-S0	1/1	17-Apr-2014 2:40 PM	21-Apr-2014 12:00 PM	21-Apr-2014 4:12 PM	N
	PB76163	NA	SAIA-SB/SG39	SO	SAIA-SB39-3	F2057-09	LB70665-S0	1/1	17-Apr-2014 2:10 PM	21-Apr-2014 12:00 PM	21-Apr-2014 4:00 PM	FD

AUTOMATED DATA REVIEW SUMMARY for MY9EM9

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70665-CC	PB76163	NA	SAIA-SB/SG39	SO	SAIA-SB39-35	F2057-13	LB70665-S0	1/1	17-Apr-2014 2:50 PM	21-Apr-2014 12:00 PM	21-Apr-2014 4:16 PM	N
	PB76163	NA	SAIA-SB/SG39	SO	SAIA-SB39-5	F2057-10	LB70665-S0	1/1	17-Apr-2014 2:20 PM	21-Apr-2014 12:00 PM	21-Apr-2014 4:04 PM	N

Test Method: SW7471B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70666-CC	PB76164	NA	LABQC	SQ	LABQC	PB76164BL	LB70666-S0	1/1	21-Apr-2014 12:00 AM	21-Apr-2014 12:00 AM	22-Apr-2014 10:05 AM	LB
	PB76164	NA	SAIA-SB/SG20	SO	SAIA-SB20-0.5	F2057-14	LB70666-S0	1/1	18-Apr-2014 8:45 AM	21-Apr-2014 12:00 AM	22-Apr-2014 10:35 AM	N
	PB76164	NA	SAIA-SB/SG20	SO	SAIA-SB20-15	F2057-17	LB70666-S0	1/1	18-Apr-2014 9:05 AM	21-Apr-2014 12:00 AM	22-Apr-2014 10:46 AM	N
	PB76164	NA	SAIA-SB/SG20	SO	SAIA-SB20-2	F2057-15	LB70666-S0	1/1	18-Apr-2014 8:50 AM	21-Apr-2014 12:00 AM	22-Apr-2014 10:37 AM	N
	PB76164	NA	SAIA-SB/SG20	SO	SAIA-SB20-25	F2057-18	LB70666-S0	1/1	18-Apr-2014 9:15 AM	21-Apr-2014 12:00 AM	22-Apr-2014 10:48 AM	N
	PB76164	NA	SAIA-SB/SG20	SO	SAIA-SB20-35	F2057-19	LB70666-S0	1/1	18-Apr-2014 9:20 AM	21-Apr-2014 12:00 AM	22-Apr-2014 10:50 AM	N
	PB76164	NA	SAIA-SB/SG20	SO	SAIA-SB20-5	F2057-16	LB70666-S0	1/1	18-Apr-2014 8:55 AM	21-Apr-2014 12:00 AM	22-Apr-2014 10:39 AM	N
	PB76164	NA	SAIA-SB/SG21	SO	SAIA-SB21-0.5	F2057-20	LB70666-S0	1/1	18-Apr-2014 9:50 AM	21-Apr-2014 12:00 AM	22-Apr-2014 10:52 AM	N
	PB76164	NA	SAIA-SB/SG21	SO	SAIA-SB21-2	F2057-21	LB70666-S0	1/1	18-Apr-2014 10:00 AM	21-Apr-2014 12:00 AM	22-Apr-2014 10:55 AM	N
	PB76164	NA	SAIA-SB/SG21	SO	SAIA-SB21-3	F2057-22	LB70666-S0	1/1	18-Apr-2014 10:05 AM	21-Apr-2014 12:00 AM	22-Apr-2014 10:57 AM	FD
	PB76164	NA	SAIA-SB/SG38	SO	SAIA-SB38-15	F2057-03	LB70666-S0	1/1	17-Apr-2014 1:15 PM	21-Apr-2014 12:00 AM	22-Apr-2014 10:11 AM	LR
	PB76164	NA	SAIA-SB/SG38	SO	SAIA-SB38-15	F2057-04	LB70666-S0	1/1	17-Apr-2014 1:15 PM	21-Apr-2014 12:00 AM	22-Apr-2014 10:14 AM	MS
	PB76164	NA	SAIA-SB/SG38	SO	SAIA-SB38-15	F2057-02	LB70666-S0	1/1	17-Apr-2014 1:15 PM	21-Apr-2014 12:00 AM	22-Apr-2014 10:09 AM	N
	PB76164	NA	SAIA-SB/SG38	SO	SAIA-SB38-25	F2057-05	LB70666-S0	1/1	17-Apr-2014 1:25 PM	21-Apr-2014 12:00 AM	22-Apr-2014 10:16 AM	N
	PB76164	NA	SAIA-SB/SG38	SO	SAIA-SB38-35	F2057-06	LB70666-S0	1/1	17-Apr-2014 1:35 PM	21-Apr-2014 12:00 AM	22-Apr-2014 10:18 AM	N
	PB76164	NA	SAIA-SB/SG38	SO	SAIA-SB38-5	F2057-01	LB70666-S0	1/1	17-Apr-2014 1:05 PM	21-Apr-2014 12:00 AM	22-Apr-2014 10:07 AM	N
	PB76164	NA	SAIA-SB/SG39	SO	SAIA-SB39-0.5	F2057-07	LB70666-S0	1/1	17-Apr-2014 2:00 PM	21-Apr-2014 12:00 AM	22-Apr-2014 10:20 AM	N

AUTOMATED DATA REVIEW SUMMARY for MY9EM9

Batch Report

Test Method: SW7471B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70666-CC	PB76164	NA	SAIA-SB/SG39	SO	SAIA-SB39-15	F2057-11	LB70666-S0	1/1	17-Apr-2014 2:30 PM	21-Apr-2014 12:00 AM	22-Apr-2014 10:29 AM	N
	PB76164	NA	SAIA-SB/SG39	SO	SAIA-SB39-2	F2057-08	LB70666-S0	1/1	17-Apr-2014 2:05 PM	21-Apr-2014 12:00 AM	22-Apr-2014 10:22 AM	N
	PB76164	NA	SAIA-SB/SG39	SO	SAIA-SB39-25	F2057-12	LB70666-S0	1/1	17-Apr-2014 2:40 PM	21-Apr-2014 12:00 AM	22-Apr-2014 10:31 AM	N
	PB76164	NA	SAIA-SB/SG39	SO	SAIA-SB39-3	F2057-09	LB70666-S0	1/1	17-Apr-2014 2:10 PM	21-Apr-2014 12:00 AM	22-Apr-2014 10:24 AM	FD
	PB76164	NA	SAIA-SB/SG39	SO	SAIA-SB39-35	F2057-13	LB70666-S0	1/1	17-Apr-2014 2:50 PM	21-Apr-2014 12:00 AM	22-Apr-2014 10:33 AM	N
	PB76164	NA	SAIA-SB/SG39	SO	SAIA-SB39-5	F2057-10	LB70666-S0	1/1	17-Apr-2014 2:20 PM	21-Apr-2014 12:00 AM	22-Apr-2014 10:27 AM	N

AUTOMATED DATA REVIEW SUMMARY for MY9EM9

Field Batch Report

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9EM9

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
E200.7 / METHOD	MS Recovery	SAIA-SB38-15 (MS)	1 / 1.00	Antimony	46.4	Percent	J/R	75 - 125	50 - 140	M			
E200.7 / METHOD	MS Recovery	SAIA-SB38-15 (MS)	1 / 1.00	Manganese	73.7	Percent	J/UJ	75 - 125	50 - 140	M	Spike amount Insignificant	4.00	
E200.7 / METHOD	MS Recovery	SAIA-SB38-15 (MS)	1 / 1.00	Thallium	33.1	Percent	J/R	75 - 125	50 - 140	M			

AUTOMATED DATA REVIEW SUMMARY for MY9EM9

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB20-0.5	N	Antimony	5.0	5.0 JN	5.0 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB20-0.5	N	Selenium	2.9	1.7 J	1.7 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB20-15	N	Antimony	4.8	4.8 JN	4.8 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB20-15	N	Selenium	2.8	1.1 J	1.1 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB20-2	N	Antimony	5.0	5.0 JN	5.0 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB20-2	N	Beryllium	0.41	0.37 J	0.37 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB20-2	N	Cadmium	0.41	0.41 JE	0.41 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB20-2	N	Selenium	2.9	0.93 J	0.93 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB20-25	N	Antimony	4.9	4.9 JN	4.9 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB20-25	N	Cadmium	0.41	0.41 JE	0.41 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB20-25	N	Selenium	2.9	0.84 J	0.84 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB20-25	N	Sodium	412	348 J	348 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB20-35	N	Antimony	4.4	4.4 JN	4.4 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB20-35	N	Cadmium	0.37	0.37 JE	0.37 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB20-35	N	Selenium	2.6	0.33 J	0.33 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB20-35	N	Sodium	368	351 J	351 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB20-5	N	Antimony	5.4	5.4 JN	5.4 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB20-5	N	Selenium	3.1	0.74 J	0.74 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-0.5	N	Antimony	4.8	4.8 JN	4.8 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB21-0.5	N	Selenium	2.8	1.6 J	1.6 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-0.5	N	Sodium	398	311 J	311 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-2	N	Antimony	4.8	4.8 JN	4.8 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB21-2	N	Chromium	0.80	357 E	357 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB21-2	N	Nickel	3.2	223	223 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB21-2	N	Sodium	398	314 J	314 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-3	FD	Antimony	4.7	4.7 JN	4.7 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB21-3	FD	Chromium	0.78	210 E	210 J	mg/kg	D5

AUTOMATED DATA REVIEW SUMMARY for MY9EM9

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB21-3	FD	Nickel	3.1	103	103 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB21-3	FD	Selenium	2.7	2.5 J	2.5 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-3	FD	Sodium	389	304 J	304 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB38-15	N	Antimony	5.5	5.5 JN	5.5 UJ	mg/kg	M/B2/B5
E200.7/NONE	SO	SAIA-SB38-15	N	Cadmium	0.46	0.54 E	0.54 J	mg/kg	O
E200.7/NONE	SO	SAIA-SB38-15	N	Chromium	0.92	26.2 E	26.2 J	mg/kg	O
E200.7/NONE	SO	SAIA-SB38-15	N	Iron	9.2	30700 E	30700 J	mg/kg	O
E200.7/NONE	SO	SAIA-SB38-15	N	Selenium	3.2	1.7 J	1.7 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB38-15	N	Silver	0.92	0.060 J	0.060 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB38-15	N	Thallium	2.3	2.3 UN	2.3 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB38-25	N	Antimony	5.3	5.3 JN	5.3 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB38-25	N	Selenium	3.1	1.7 J	1.7 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB38-35	N	Antimony	4.4	4.4 JN	4.4 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB38-35	N	Beryllium	0.36	0.25 J	0.25 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB38-35	N	Cadmium	0.36	0.36 JE	0.36 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB38-35	N	Selenium	2.6	0.96 J	0.96 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB38-35	N	Sodium	365	352 J	352 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB38-5	N	Antimony	5.5	5.5 JN	5.5 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB38-5	N	Selenium	3.2	1.2 J	1.2 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB39-0.5	N	Selenium	2.7	1.3 J	1.3 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB39-15	N	Antimony	5.4	5.4 JN	5.4 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB39-15	N	Selenium	3.1	0.88 J	0.88 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB39-2	N	Antimony	4.7	4.7 JN	4.7 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB39-2	N	Beryllium	0.39	0.38 J	0.38 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB39-2	N	Selenium	2.7	0.73 J	0.73 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB39-25	N	Antimony	5.8	5.8 JN	5.8 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB39-25	N	Selenium	3.4	0.98 J	0.98 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9EM9

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB39-3	FD	Antimony	4.5	4.5 JN	4.5 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB39-3	FD	Selenium	2.6	0.83 J	0.83 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB39-3	FD	Silver	0.75	0.070 J	0.070 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB39-35	N	Antimony	4.4	4.4 JN	4.4 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB39-35	N	Beryllium	0.37	0.32 J	0.32 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB39-35	N	Cadmium	0.37	0.37 JE	0.37 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB39-35	N	Selenium	2.6	0.79 J	0.79 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB39-5	N	Antimony	4.6	4.6 JN	4.6 U	mg/kg	B2/B5
E200.7/NONE	SO	SAIA-SB39-5	N	Selenium	2.7	0.75 J	0.75 J	mg/kg	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	SAIA-SB20-0.5	N	Mercury	0.099	0.015 J	0.015 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB20-2	N	Mercury	0.10	0.015 J	0.015 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB20-25	N	Mercury	0.11	0.058 J	0.058 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB20-35	N	Mercury	0.094	0.025 J	0.025 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB20-5	N	Mercury	0.11	0.046 J	0.046 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB21-0.5	N	Mercury	0.11	0.031 J	0.031 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB21-2	N	Mercury	0.11	0.024 J	0.024 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB21-3	FD	Mercury	0.10	0.023 J	0.023 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB38-15	N	Mercury	0.12	0.079 J	0.079 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB38-35	N	Mercury	0.10	0.015 J	0.015 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB38-5	N	Mercury	0.11	0.071 J	0.071 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB39-15	N	Mercury	0.11	0.072 J	0.072 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB39-25	N	Mercury	0.13	0.070 J	0.070 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB39-35	N	Mercury	0.10	0.020 J	0.020 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB39-5	N	Mercury	0.098	0.045 J	0.045 J	mg/kg	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB20-0.5	N	Aluminum	16.6	10500	10500	mg/kg	
E200.7/NONE	SO	SAIA-SB20-0.5	N	Arsenic	0.83	12.7	12.7	mg/kg	
E200.7/NONE	SO	SAIA-SB20-0.5	N	Barium	16.6	101	101	mg/kg	
E200.7/NONE	SO	SAIA-SB20-0.5	N	Beryllium	0.42	0.50	0.50	mg/kg	
E200.7/NONE	SO	SAIA-SB20-0.5	N	Calcium	415	8620	8620	mg/kg	
E200.7/NONE	SO	SAIA-SB20-0.5	N	Cadmium	0.42	0.92 E	0.92	mg/kg	
E200.7/NONE	SO	SAIA-SB20-0.5	N	Cobalt	4.2	11.6	11.6	mg/kg	
E200.7/NONE	SO	SAIA-SB20-0.5	N	Chromium	0.83	289 E	289	mg/kg	
E200.7/NONE	SO	SAIA-SB20-0.5	N	Copper	2.1	1690	1690	mg/kg	
E200.7/NONE	SO	SAIA-SB20-0.5	N	Iron	8.3	42800 E	42800	mg/kg	
E200.7/NONE	SO	SAIA-SB20-0.5	N	Potassium	415	3880	3880	mg/kg	
E200.7/NONE	SO	SAIA-SB20-0.5	N	Magnesium	415	5720	5720	mg/kg	
E200.7/NONE	SO	SAIA-SB20-0.5	N	Manganese	1.2	477	477	mg/kg	
E200.7/NONE	SO	SAIA-SB20-0.5	N	Sodium	415	481	481	mg/kg	
E200.7/NONE	SO	SAIA-SB20-0.5	N	Nickel	3.3	196	196	mg/kg	
E200.7/NONE	SO	SAIA-SB20-0.5	N	Lead	0.83	420	420	mg/kg	
E200.7/NONE	SO	SAIA-SB20-0.5	N	Selenium	2.9	1.7 J	1.7 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB20-0.5	N	Vanadium	4.2	36.6	36.6	mg/kg	
E200.7/NONE	SO	SAIA-SB20-0.5	N	Zinc	5.0	241	241	mg/kg	
E200.7/NONE	SO	SAIA-SB20-15	N	Aluminum	16.1	20000	20000	mg/kg	
E200.7/NONE	SO	SAIA-SB20-15	N	Arsenic	0.80	7.7	7.7	mg/kg	
E200.7/NONE	SO	SAIA-SB20-15	N	Barium	16.1	177	177	mg/kg	
E200.7/NONE	SO	SAIA-SB20-15	N	Beryllium	0.40	0.74	0.74	mg/kg	
E200.7/NONE	SO	SAIA-SB20-15	N	Calcium	402	12600	12600	mg/kg	
E200.7/NONE	SO	SAIA-SB20-15	N	Cadmium	0.40	0.45 E	0.45	mg/kg	
E200.7/NONE	SO	SAIA-SB20-15	N	Cobalt	4.0	14.9	14.9	mg/kg	
E200.7/NONE	SO	SAIA-SB20-15	N	Chromium	0.80	27.3 E	27.3	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EM9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB20-15	N	Copper	2.0	26.0	26.0	mg/kg	
E200.7/NONE	SO	SAIA-SB20-15	N	Iron	8.0	30300 E	30300	mg/kg	
E200.7/NONE	SO	SAIA-SB20-15	N	Potassium	402	4830	4830	mg/kg	
E200.7/NONE	SO	SAIA-SB20-15	N	Magnesium	402	10700	10700	mg/kg	
E200.7/NONE	SO	SAIA-SB20-15	N	Manganese	1.2	555	555	mg/kg	
E200.7/NONE	SO	SAIA-SB20-15	N	Sodium	402	584	584	mg/kg	
E200.7/NONE	SO	SAIA-SB20-15	N	Nickel	3.2	19.5	19.5	mg/kg	
E200.7/NONE	SO	SAIA-SB20-15	N	Lead	0.80	6.4	6.4	mg/kg	
E200.7/NONE	SO	SAIA-SB20-15	N	Selenium	2.8	1.1 J	1.1 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB20-15	N	Vanadium	4.0	57.0	57.0	mg/kg	
E200.7/NONE	SO	SAIA-SB20-15	N	Zinc	4.8	78.6	78.6	mg/kg	
E200.7/NONE	SO	SAIA-SB20-2	N	Aluminum	16.5	11000	11000	mg/kg	
E200.7/NONE	SO	SAIA-SB20-2	N	Arsenic	0.83	3.5	3.5	mg/kg	
E200.7/NONE	SO	SAIA-SB20-2	N	Barium	16.5	105	105	mg/kg	
E200.7/NONE	SO	SAIA-SB20-2	N	Beryllium	0.41	0.37 J	0.37 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB20-2	N	Calcium	414	9620	9620	mg/kg	
E200.7/NONE	SO	SAIA-SB20-2	N	Cobalt	4.1	8.7	8.7	mg/kg	
E200.7/NONE	SO	SAIA-SB20-2	N	Chromium	0.83	39.4 E	39.4	mg/kg	
E200.7/NONE	SO	SAIA-SB20-2	N	Copper	2.1	138	138	mg/kg	
E200.7/NONE	SO	SAIA-SB20-2	N	Iron	8.3	21600 E	21600	mg/kg	
E200.7/NONE	SO	SAIA-SB20-2	N	Potassium	414	4170	4170	mg/kg	
E200.7/NONE	SO	SAIA-SB20-2	N	Magnesium	414	6130	6130	mg/kg	
E200.7/NONE	SO	SAIA-SB20-2	N	Manganese	1.2	326	326	mg/kg	
E200.7/NONE	SO	SAIA-SB20-2	N	Sodium	414	420	420	mg/kg	
E200.7/NONE	SO	SAIA-SB20-2	N	Nickel	3.3	19.7	19.7	mg/kg	
E200.7/NONE	SO	SAIA-SB20-2	N	Lead	0.83	24.0	24.0	mg/kg	
E200.7/NONE	SO	SAIA-SB20-2	N	Selenium	2.9	0.93 J	0.93 J	mg/kg	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB20-2	N	Vanadium	4.1	36.2	36.2	mg/kg	
E200.7/NONE	SO	SAIA-SB20-2	N	Zinc	5.0	67.9	67.9	mg/kg	
E200.7/NONE	SO	SAIA-SB20-25	N	Aluminum	16.5	13800	13800	mg/kg	
E200.7/NONE	SO	SAIA-SB20-25	N	Arsenic	0.82	9.0	9.0	mg/kg	
E200.7/NONE	SO	SAIA-SB20-25	N	Barium	16.5	138	138	mg/kg	
E200.7/NONE	SO	SAIA-SB20-25	N	Beryllium	0.41	0.51	0.51	mg/kg	
E200.7/NONE	SO	SAIA-SB20-25	N	Calcium	412	11600	11600	mg/kg	
E200.7/NONE	SO	SAIA-SB20-25	N	Cobalt	4.1	12.5	12.5	mg/kg	
E200.7/NONE	SO	SAIA-SB20-25	N	Chromium	0.82	24.8 E	24.8	mg/kg	
E200.7/NONE	SO	SAIA-SB20-25	N	Copper	2.1	26.3	26.3	mg/kg	
E200.7/NONE	SO	SAIA-SB20-25	N	Iron	8.2	25200 E	25200	mg/kg	
E200.7/NONE	SO	SAIA-SB20-25	N	Potassium	412	3110	3110	mg/kg	
E200.7/NONE	SO	SAIA-SB20-25	N	Magnesium	412	8550	8550	mg/kg	
E200.7/NONE	SO	SAIA-SB20-25	N	Manganese	1.2	541	541	mg/kg	
E200.7/NONE	SO	SAIA-SB20-25	N	Sodium	412	348 J	348 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB20-25	N	Nickel	3.3	19.8	19.8	mg/kg	
E200.7/NONE	SO	SAIA-SB20-25	N	Lead	0.82	6.1	6.1	mg/kg	
E200.7/NONE	SO	SAIA-SB20-25	N	Selenium	2.9	0.84 J	0.84 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB20-25	N	Vanadium	4.1	43.1	43.1	mg/kg	
E200.7/NONE	SO	SAIA-SB20-25	N	Zinc	4.9	57.6	57.6	mg/kg	
E200.7/NONE	SO	SAIA-SB20-35	N	Aluminum	14.7	10200	10200	mg/kg	
E200.7/NONE	SO	SAIA-SB20-35	N	Arsenic	0.74	27.1	27.1	mg/kg	
E200.7/NONE	SO	SAIA-SB20-35	N	Barium	14.7	96.3	96.3	mg/kg	
E200.7/NONE	SO	SAIA-SB20-35	N	Beryllium	0.37	0.38	0.38	mg/kg	
E200.7/NONE	SO	SAIA-SB20-35	N	Calcium	368	4790	4790	mg/kg	
E200.7/NONE	SO	SAIA-SB20-35	N	Cobalt	3.7	8.2	8.2	mg/kg	
E200.7/NONE	SO	SAIA-SB20-35	N	Chromium	0.74	14.4 E	14.4	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB20-35	N	Copper	1.8	10.0	10.0	mg/kg	
E200.7/NONE	SO	SAIA-SB20-35	N	Iron	7.4	19700 E	19700	mg/kg	
E200.7/NONE	SO	SAIA-SB20-35	N	Potassium	368	3070	3070	mg/kg	
E200.7/NONE	SO	SAIA-SB20-35	N	Magnesium	368	6120	6120	mg/kg	
E200.7/NONE	SO	SAIA-SB20-35	N	Manganese	1.1	328	328	mg/kg	
E200.7/NONE	SO	SAIA-SB20-35	N	Sodium	368	351 J	351 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB20-35	N	Nickel	2.9	9.4	9.4	mg/kg	
E200.7/NONE	SO	SAIA-SB20-35	N	Lead	0.74	3.0	3.0	mg/kg	
E200.7/NONE	SO	SAIA-SB20-35	N	Selenium	2.6	0.33 J	0.33 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB20-35	N	Vanadium	3.7	34.8	34.8	mg/kg	
E200.7/NONE	SO	SAIA-SB20-35	N	Zinc	4.4	44.8	44.8	mg/kg	
E200.7/NONE	SO	SAIA-SB20-5	N	Aluminum	17.9	18600	18600	mg/kg	
E200.7/NONE	SO	SAIA-SB20-5	N	Arsenic	0.89	5.5	5.5	mg/kg	
E200.7/NONE	SO	SAIA-SB20-5	N	Barium	17.9	160	160	mg/kg	
E200.7/NONE	SO	SAIA-SB20-5	N	Beryllium	0.45	0.68	0.68	mg/kg	
E200.7/NONE	SO	SAIA-SB20-5	N	Calcium	447	15700	15700	mg/kg	
E200.7/NONE	SO	SAIA-SB20-5	N	Cadmium	0.45	0.56 E	0.56	mg/kg	
E200.7/NONE	SO	SAIA-SB20-5	N	Cobalt	4.5	13.8	13.8	mg/kg	
E200.7/NONE	SO	SAIA-SB20-5	N	Chromium	0.89	28.2 E	28.2	mg/kg	
E200.7/NONE	SO	SAIA-SB20-5	N	Copper	2.2	30.4	30.4	mg/kg	
E200.7/NONE	SO	SAIA-SB20-5	N	Iron	8.9	28300 E	28300	mg/kg	
E200.7/NONE	SO	SAIA-SB20-5	N	Potassium	447	3860	3860	mg/kg	
E200.7/NONE	SO	SAIA-SB20-5	N	Magnesium	447	8960	8960	mg/kg	
E200.7/NONE	SO	SAIA-SB20-5	N	Manganese	1.3	864	864	mg/kg	
E200.7/NONE	SO	SAIA-SB20-5	N	Sodium	447	494	494	mg/kg	
E200.7/NONE	SO	SAIA-SB20-5	N	Nickel	3.6	19.8	19.8	mg/kg	
E200.7/NONE	SO	SAIA-SB20-5	N	Lead	0.89	8.0	8.0	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EM9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB20-5	N	Selenium	3.1	0.74 J	0.74 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB20-5	N	Vanadium	4.5	52.7	52.7	mg/kg	
E200.7/NONE	SO	SAIA-SB20-5	N	Zinc	5.4	76.0	76.0	mg/kg	
E200.7/NONE	SO	SAIA-SB21-0.5	N	Aluminum	15.9	12200	12200	mg/kg	
E200.7/NONE	SO	SAIA-SB21-0.5	N	Arsenic	0.80	5.2	5.2	mg/kg	
E200.7/NONE	SO	SAIA-SB21-0.5	N	Barium	15.9	122	122	mg/kg	
E200.7/NONE	SO	SAIA-SB21-0.5	N	Beryllium	0.40	0.43	0.43	mg/kg	
E200.7/NONE	SO	SAIA-SB21-0.5	N	Calcium	398	5090	5090	mg/kg	
E200.7/NONE	SO	SAIA-SB21-0.5	N	Cadmium	0.40	1.4 E	1.4	mg/kg	
E200.7/NONE	SO	SAIA-SB21-0.5	N	Cobalt	4.0	11.3	11.3	mg/kg	
E200.7/NONE	SO	SAIA-SB21-0.5	N	Chromium	0.80	79.8 E	79.8	mg/kg	
E200.7/NONE	SO	SAIA-SB21-0.5	N	Copper	2.0	108	108	mg/kg	
E200.7/NONE	SO	SAIA-SB21-0.5	N	Iron	8.0	26400 E	26400	mg/kg	
E200.7/NONE	SO	SAIA-SB21-0.5	N	Potassium	398	4410	4410	mg/kg	
E200.7/NONE	SO	SAIA-SB21-0.5	N	Magnesium	398	6640	6640	mg/kg	
E200.7/NONE	SO	SAIA-SB21-0.5	N	Manganese	1.2	535	535	mg/kg	
E200.7/NONE	SO	SAIA-SB21-0.5	N	Sodium	398	311 J	311 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-0.5	N	Nickel	3.2	100	100	mg/kg	
E200.7/NONE	SO	SAIA-SB21-0.5	N	Lead	0.80	31.5	31.5	mg/kg	
E200.7/NONE	SO	SAIA-SB21-0.5	N	Selenium	2.8	1.6 J	1.6 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-0.5	N	Vanadium	4.0	39.6	39.6	mg/kg	
E200.7/NONE	SO	SAIA-SB21-0.5	N	Zinc	4.8	138	138	mg/kg	
E200.7/NONE	SO	SAIA-SB21-2	N	Aluminum	15.9	11700	11700	mg/kg	
E200.7/NONE	SO	SAIA-SB21-2	N	Arsenic	0.80	5.3	5.3	mg/kg	
E200.7/NONE	SO	SAIA-SB21-2	N	Barium	15.9	115	115	mg/kg	
E200.7/NONE	SO	SAIA-SB21-2	N	Beryllium	0.40	0.44	0.44	mg/kg	
E200.7/NONE	SO	SAIA-SB21-2	N	Calcium	398	4900	4900	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EM9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB21-2	N	Cadmium	0.40	2.4 E	2.4	mg/kg	
E200.7/NONE	SO	SAIA-SB21-2	N	Cobalt	4.0	12.6	12.6	mg/kg	
E200.7/NONE	SO	SAIA-SB21-2	N	Chromium	0.80	357 E	357 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB21-2	N	Copper	2.0	176	176	mg/kg	
E200.7/NONE	SO	SAIA-SB21-2	N	Iron	8.0	29200 E	29200	mg/kg	
E200.7/NONE	SO	SAIA-SB21-2	N	Potassium	398	4230	4230	mg/kg	
E200.7/NONE	SO	SAIA-SB21-2	N	Magnesium	398	6610	6610	mg/kg	
E200.7/NONE	SO	SAIA-SB21-2	N	Manganese	1.2	432	432	mg/kg	
E200.7/NONE	SO	SAIA-SB21-2	N	Sodium	398	314 J	314 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-2	N	Nickel	3.2	223	223 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB21-2	N	Lead	0.80	20.9	20.9	mg/kg	
E200.7/NONE	SO	SAIA-SB21-2	N	Selenium	2.8	4.3	4.3	mg/kg	
E200.7/NONE	SO	SAIA-SB21-2	N	Vanadium	4.0	36.9	36.9	mg/kg	
E200.7/NONE	SO	SAIA-SB21-2	N	Zinc	4.8	142	142	mg/kg	
E200.7/NONE	SO	SAIA-SB21-3	FD	Aluminum	15.6	11700	11700	mg/kg	
E200.7/NONE	SO	SAIA-SB21-3	FD	Arsenic	0.78	5.2	5.2	mg/kg	
E200.7/NONE	SO	SAIA-SB21-3	FD	Barium	15.6	114	114	mg/kg	
E200.7/NONE	SO	SAIA-SB21-3	FD	Beryllium	0.39	0.41	0.41	mg/kg	
E200.7/NONE	SO	SAIA-SB21-3	FD	Calcium	389	4910	4910	mg/kg	
E200.7/NONE	SO	SAIA-SB21-3	FD	Cadmium	0.39	2.3 E	2.3	mg/kg	
E200.7/NONE	SO	SAIA-SB21-3	FD	Cobalt	3.9	11.4	11.4	mg/kg	
E200.7/NONE	SO	SAIA-SB21-3	FD	Chromium	0.78	210 E	210 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB21-3	FD	Copper	1.9	246	246	mg/kg	
E200.7/NONE	SO	SAIA-SB21-3	FD	Iron	7.8	28400 E	28400	mg/kg	
E200.7/NONE	SO	SAIA-SB21-3	FD	Potassium	389	4190	4190	mg/kg	
E200.7/NONE	SO	SAIA-SB21-3	FD	Magnesium	389	6540	6540	mg/kg	
E200.7/NONE	SO	SAIA-SB21-3	FD	Manganese	1.2	420	420	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EM9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB21-3	FD	Sodium	389	304 J	304 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-3	FD	Nickel	3.1	103	103 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB21-3	FD	Lead	0.78	26.5	26.5	mg/kg	
E200.7/NONE	SO	SAIA-SB21-3	FD	Selenium	2.7	2.5 J	2.5 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB21-3	FD	Vanadium	3.9	35.7	35.7	mg/kg	
E200.7/NONE	SO	SAIA-SB21-3	FD	Zinc	4.7	170	170	mg/kg	
E200.7/NONE	SO	SAIA-SB38-15	N	Silver	0.92	0.060 J	0.060 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB38-15	N	Aluminum	18.5	20000	20000	mg/kg	
E200.7/NONE	SO	SAIA-SB38-15	N	Arsenic	0.92	7.1	7.1	mg/kg	
E200.7/NONE	SO	SAIA-SB38-15	N	Barium	18.5	184	184	mg/kg	
E200.7/NONE	SO	SAIA-SB38-15	N	Beryllium	0.46	0.72	0.72	mg/kg	
E200.7/NONE	SO	SAIA-SB38-15	N	Calcium	462	16300	16300	mg/kg	
E200.7/NONE	SO	SAIA-SB38-15	N	Cadmium	0.46	0.54 E	0.54 J	mg/kg	O
E200.7/NONE	SO	SAIA-SB38-15	N	Cobalt	4.6	14.8	14.8	mg/kg	
E200.7/NONE	SO	SAIA-SB38-15	N	Chromium	0.92	26.2 E	26.2 J	mg/kg	O
E200.7/NONE	SO	SAIA-SB38-15	N	Copper	2.3	26.9	26.9	mg/kg	
E200.7/NONE	SO	SAIA-SB38-15	N	Iron	9.2	30700 E	30700 J	mg/kg	O
E200.7/NONE	SO	SAIA-SB38-15	N	Potassium	462	4690	4690	mg/kg	
E200.7/NONE	SO	SAIA-SB38-15	N	Magnesium	462	10100	10100	mg/kg	
E200.7/NONE	SO	SAIA-SB38-15	N	Manganese	1.4	588	588	mg/kg	
E200.7/NONE	SO	SAIA-SB38-15	N	Sodium	462	1240	1240	mg/kg	
E200.7/NONE	SO	SAIA-SB38-15	N	Nickel	3.7	20.1	20.1	mg/kg	
E200.7/NONE	SO	SAIA-SB38-15	N	Lead	0.92	6.4	6.4	mg/kg	
E200.7/NONE	SO	SAIA-SB38-15	N	Selenium	3.2	1.7 J	1.7 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB38-15	N	Vanadium	4.6	59.2	59.2	mg/kg	
E200.7/NONE	SO	SAIA-SB38-15	N	Zinc	5.5	74.7	74.7	mg/kg	
E200.7/NONE	SO	SAIA-SB38-25	N	Aluminum	17.7	21500	21500	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EM9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB38-25	N	Arsenic	0.88	7.4	7.4	mg/kg	
E200.7/NONE	SO	SAIA-SB38-25	N	Barium	17.7	186	186	mg/kg	
E200.7/NONE	SO	SAIA-SB38-25	N	Beryllium	0.44	0.83	0.83	mg/kg	
E200.7/NONE	SO	SAIA-SB38-25	N	Calcium	442	10200	10200	mg/kg	
E200.7/NONE	SO	SAIA-SB38-25	N	Cadmium	0.44	0.59 E	0.59	mg/kg	
E200.7/NONE	SO	SAIA-SB38-25	N	Cobalt	4.4	16.0	16.0	mg/kg	
E200.7/NONE	SO	SAIA-SB38-25	N	Chromium	0.88	32.4 E	32.4	mg/kg	
E200.7/NONE	SO	SAIA-SB38-25	N	Copper	2.2	33.0	33.0	mg/kg	
E200.7/NONE	SO	SAIA-SB38-25	N	Iron	8.8	31600 E	31600	mg/kg	
E200.7/NONE	SO	SAIA-SB38-25	N	Potassium	442	4470	4470	mg/kg	
E200.7/NONE	SO	SAIA-SB38-25	N	Magnesium	442	9920	9920	mg/kg	
E200.7/NONE	SO	SAIA-SB38-25	N	Manganese	1.3	468	468	mg/kg	
E200.7/NONE	SO	SAIA-SB38-25	N	Sodium	442	1180	1180	mg/kg	
E200.7/NONE	SO	SAIA-SB38-25	N	Nickel	3.5	23.0	23.0	mg/kg	
E200.7/NONE	SO	SAIA-SB38-25	N	Lead	0.88	9.0	9.0	mg/kg	
E200.7/NONE	SO	SAIA-SB38-25	N	Selenium	3.1	1.7 J	1.7 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB38-25	N	Vanadium	4.4	59.6	59.6	mg/kg	
E200.7/NONE	SO	SAIA-SB38-25	N	Zinc	5.3	81.1	81.1	mg/kg	
E200.7/NONE	SO	SAIA-SB38-35	N	Aluminum	14.6	6870	6870	mg/kg	
E200.7/NONE	SO	SAIA-SB38-35	N	Arsenic	0.73	10.0	10.0	mg/kg	
E200.7/NONE	SO	SAIA-SB38-35	N	Barium	14.6	61.7	61.7	mg/kg	
E200.7/NONE	SO	SAIA-SB38-35	N	Beryllium	0.36	0.25 J	0.25 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB38-35	N	Calcium	365	6190	6190	mg/kg	
E200.7/NONE	SO	SAIA-SB38-35	N	Cobalt	3.6	5.6	5.6	mg/kg	
E200.7/NONE	SO	SAIA-SB38-35	N	Chromium	0.73	10.4 E	10.4	mg/kg	
E200.7/NONE	SO	SAIA-SB38-35	N	Copper	1.8	7.0	7.0	mg/kg	
E200.7/NONE	SO	SAIA-SB38-35	N	Iron	7.3	16000 E	16000	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB38-35	N	Potassium	365	2060	2060	mg/kg	
E200.7/NONE	SO	SAIA-SB38-35	N	Magnesium	365	4240	4240	mg/kg	
E200.7/NONE	SO	SAIA-SB38-35	N	Manganese	1.1	231	231	mg/kg	
E200.7/NONE	SO	SAIA-SB38-35	N	Sodium	365	352 J	352 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB38-35	N	Nickel	2.9	6.3	6.3	mg/kg	
E200.7/NONE	SO	SAIA-SB38-35	N	Lead	0.73	2.0	2.0	mg/kg	
E200.7/NONE	SO	SAIA-SB38-35	N	Selenium	2.6	0.96 J	0.96 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB38-35	N	Vanadium	3.6	29.7	29.7	mg/kg	
E200.7/NONE	SO	SAIA-SB38-35	N	Zinc	4.4	41.9	41.9	mg/kg	
E200.7/NONE	SO	SAIA-SB38-5	N	Aluminum	18.5	25800	25800	mg/kg	
E200.7/NONE	SO	SAIA-SB38-5	N	Arsenic	0.92	7.1	7.1	mg/kg	
E200.7/NONE	SO	SAIA-SB38-5	N	Barium	18.5	220	220	mg/kg	
E200.7/NONE	SO	SAIA-SB38-5	N	Beryllium	0.46	0.92	0.92	mg/kg	
E200.7/NONE	SO	SAIA-SB38-5	N	Calcium	462	13600	13600	mg/kg	
E200.7/NONE	SO	SAIA-SB38-5	N	Cadmium	0.46	0.88 E	0.88	mg/kg	
E200.7/NONE	SO	SAIA-SB38-5	N	Cobalt	4.6	19.5	19.5	mg/kg	
E200.7/NONE	SO	SAIA-SB38-5	N	Chromium	0.92	33.6 E	33.6	mg/kg	
E200.7/NONE	SO	SAIA-SB38-5	N	Copper	2.3	37.4	37.4	mg/kg	
E200.7/NONE	SO	SAIA-SB38-5	N	Iron	9.2	36600 E	36600	mg/kg	
E200.7/NONE	SO	SAIA-SB38-5	N	Potassium	462	5970	5970	mg/kg	
E200.7/NONE	SO	SAIA-SB38-5	N	Magnesium	462	11600	11600	mg/kg	
E200.7/NONE	SO	SAIA-SB38-5	N	Manganese	1.4	556	556	mg/kg	
E200.7/NONE	SO	SAIA-SB38-5	N	Sodium	462	842	842	mg/kg	
E200.7/NONE	SO	SAIA-SB38-5	N	Nickel	3.7	27.2	27.2	mg/kg	
E200.7/NONE	SO	SAIA-SB38-5	N	Lead	0.92	10.3	10.3	mg/kg	
E200.7/NONE	SO	SAIA-SB38-5	N	Selenium	3.2	1.2 J	1.2 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB38-5	N	Vanadium	4.6	66.5	66.5	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB38-5	N	Zinc	5.5	92.6	92.6	mg/kg	
E200.7/NONE	SO	SAIA-SB39-0.5	N	Aluminum	15.2	9880	9880	mg/kg	
E200.7/NONE	SO	SAIA-SB39-0.5	N	Arsenic	0.76	9.5	9.5	mg/kg	
E200.7/NONE	SO	SAIA-SB39-0.5	N	Barium	15.2	106	106	mg/kg	
E200.7/NONE	SO	SAIA-SB39-0.5	N	Beryllium	0.38	0.48	0.48	mg/kg	
E200.7/NONE	SO	SAIA-SB39-0.5	N	Calcium	380	14600	14600	mg/kg	
E200.7/NONE	SO	SAIA-SB39-0.5	N	Cadmium	0.38	1.9 E	1.9	mg/kg	
E200.7/NONE	SO	SAIA-SB39-0.5	N	Cobalt	3.8	9.0	9.0	mg/kg	
E200.7/NONE	SO	SAIA-SB39-0.5	N	Chromium	0.76	26.5 E	26.5	mg/kg	
E200.7/NONE	SO	SAIA-SB39-0.5	N	Copper	1.9	55.8	55.8	mg/kg	
E200.7/NONE	SO	SAIA-SB39-0.5	N	Iron	7.6	34000 E	34000	mg/kg	
E200.7/NONE	SO	SAIA-SB39-0.5	N	Potassium	380	2650	2650	mg/kg	
E200.7/NONE	SO	SAIA-SB39-0.5	N	Magnesium	380	5170	5170	mg/kg	
E200.7/NONE	SO	SAIA-SB39-0.5	N	Manganese	1.1	540	540	mg/kg	
E200.7/NONE	SO	SAIA-SB39-0.5	N	Sodium	380	579	579	mg/kg	
E200.7/NONE	SO	SAIA-SB39-0.5	N	Nickel	3.0	20.8	20.8	mg/kg	
E200.7/NONE	SO	SAIA-SB39-0.5	N	Lead	0.76	205	205	mg/kg	
E200.7/NONE	SO	SAIA-SB39-0.5	N	Antimony	4.6	5.3 N	5.3	mg/kg	
E200.7/NONE	SO	SAIA-SB39-0.5	N	Selenium	2.7	1.3 J	1.3 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB39-0.5	N	Vanadium	3.8	37.3	37.3	mg/kg	
E200.7/NONE	SO	SAIA-SB39-0.5	N	Zinc	4.6	369	369	mg/kg	
E200.7/NONE	SO	SAIA-SB39-15	N	Aluminum	17.9	18800	18800	mg/kg	
E200.7/NONE	SO	SAIA-SB39-15	N	Arsenic	0.89	5.7	5.7	mg/kg	
E200.7/NONE	SO	SAIA-SB39-15	N	Barium	17.9	163	163	mg/kg	
E200.7/NONE	SO	SAIA-SB39-15	N	Beryllium	0.45	0.66	0.66	mg/kg	
E200.7/NONE	SO	SAIA-SB39-15	N	Calcium	446	8170	8170	mg/kg	
E200.7/NONE	SO	SAIA-SB39-15	N	Cadmium	0.45	0.52 E	0.52	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB39-15	N	Cobalt	4.5	14.1	14.1	mg/kg	
E200.7/NONE	SO	SAIA-SB39-15	N	Chromium	0.89	25.9 E	25.9	mg/kg	
E200.7/NONE	SO	SAIA-SB39-15	N	Copper	2.2	25.3	25.3	mg/kg	
E200.7/NONE	SO	SAIA-SB39-15	N	Iron	8.9	28700 E	28700	mg/kg	
E200.7/NONE	SO	SAIA-SB39-15	N	Potassium	446	4950	4950	mg/kg	
E200.7/NONE	SO	SAIA-SB39-15	N	Magnesium	446	9830	9830	mg/kg	
E200.7/NONE	SO	SAIA-SB39-15	N	Manganese	1.3	442	442	mg/kg	
E200.7/NONE	SO	SAIA-SB39-15	N	Sodium	446	607	607	mg/kg	
E200.7/NONE	SO	SAIA-SB39-15	N	Nickel	3.6	19.9	19.9	mg/kg	
E200.7/NONE	SO	SAIA-SB39-15	N	Lead	0.89	7.6	7.6	mg/kg	
E200.7/NONE	SO	SAIA-SB39-15	N	Selenium	3.1	0.88 J	0.88 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB39-15	N	Vanadium	4.5	54.5	54.5	mg/kg	
E200.7/NONE	SO	SAIA-SB39-15	N	Zinc	5.4	75.5	75.5	mg/kg	
E200.7/NONE	SO	SAIA-SB39-2	N	Aluminum	15.5	8490	8490	mg/kg	
E200.7/NONE	SO	SAIA-SB39-2	N	Arsenic	0.78	7.4	7.4	mg/kg	
E200.7/NONE	SO	SAIA-SB39-2	N	Barium	15.5	95.4	95.4	mg/kg	
E200.7/NONE	SO	SAIA-SB39-2	N	Beryllium	0.39	0.38 J	0.38 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB39-2	N	Calcium	388	10800	10800	mg/kg	
E200.7/NONE	SO	SAIA-SB39-2	N	Cadmium	0.39	1.1 E	1.1	mg/kg	
E200.7/NONE	SO	SAIA-SB39-2	N	Cobalt	3.9	7.4	7.4	mg/kg	
E200.7/NONE	SO	SAIA-SB39-2	N	Chromium	0.78	28.9 E	28.9	mg/kg	
E200.7/NONE	SO	SAIA-SB39-2	N	Copper	1.9	50.5	50.5	mg/kg	
E200.7/NONE	SO	SAIA-SB39-2	N	Iron	7.8	20900 E	20900	mg/kg	
E200.7/NONE	SO	SAIA-SB39-2	N	Potassium	388	2090	2090	mg/kg	
E200.7/NONE	SO	SAIA-SB39-2	N	Magnesium	388	4250	4250	mg/kg	
E200.7/NONE	SO	SAIA-SB39-2	N	Manganese	1.2	510	510	mg/kg	
E200.7/NONE	SO	SAIA-SB39-2	N	Sodium	388	396	396	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB39-2	N	Nickel	3.1	20.5	20.5	mg/kg	
E200.7/NONE	SO	SAIA-SB39-2	N	Lead	0.78	200	200	mg/kg	
E200.7/NONE	SO	SAIA-SB39-2	N	Selenium	2.7	0.73 J	0.73 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB39-2	N	Vanadium	3.9	31.9	31.9	mg/kg	
E200.7/NONE	SO	SAIA-SB39-2	N	Zinc	4.7	207	207	mg/kg	
E200.7/NONE	SO	SAIA-SB39-25	N	Aluminum	19.2	27000	27000	mg/kg	
E200.7/NONE	SO	SAIA-SB39-25	N	Arsenic	0.96	9.0	9.0	mg/kg	
E200.7/NONE	SO	SAIA-SB39-25	N	Barium	19.2	244	244	mg/kg	
E200.7/NONE	SO	SAIA-SB39-25	N	Beryllium	0.48	1.0	1.0	mg/kg	
E200.7/NONE	SO	SAIA-SB39-25	N	Calcium	481	11300	11300	mg/kg	
E200.7/NONE	SO	SAIA-SB39-25	N	Cadmium	0.48	0.78 E	0.78	mg/kg	
E200.7/NONE	SO	SAIA-SB39-25	N	Cobalt	4.8	24.3	24.3	mg/kg	
E200.7/NONE	SO	SAIA-SB39-25	N	Chromium	0.96	50.3 E	50.3	mg/kg	
E200.7/NONE	SO	SAIA-SB39-25	N	Copper	2.4	61.4	61.4	mg/kg	
E200.7/NONE	SO	SAIA-SB39-25	N	Iron	9.6	38900 E	38900	mg/kg	
E200.7/NONE	SO	SAIA-SB39-25	N	Potassium	481	4070	4070	mg/kg	
E200.7/NONE	SO	SAIA-SB39-25	N	Magnesium	481	14100	14100	mg/kg	
E200.7/NONE	SO	SAIA-SB39-25	N	Manganese	1.4	693	693	mg/kg	
E200.7/NONE	SO	SAIA-SB39-25	N	Sodium	481	1190	1190	mg/kg	
E200.7/NONE	SO	SAIA-SB39-25	N	Nickel	3.8	40.8	40.8	mg/kg	
E200.7/NONE	SO	SAIA-SB39-25	N	Lead	0.96	17.6	17.6	mg/kg	
E200.7/NONE	SO	SAIA-SB39-25	N	Selenium	3.4	0.98 J	0.98 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB39-25	N	Vanadium	4.8	71.4	71.4	mg/kg	
E200.7/NONE	SO	SAIA-SB39-25	N	Zinc	5.8	93.7	93.7	mg/kg	
E200.7/NONE	SO	SAIA-SB39-3	FD	Silver	0.75	0.070 J	0.070 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB39-3	FD	Aluminum	14.9	8330	8330	mg/kg	
E200.7/NONE	SO	SAIA-SB39-3	FD	Arsenic	0.75	7.1	7.1	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EM9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB39-3	FD	Barium	14.9	94.0	94.0	mg/kg	
E200.7/NONE	SO	SAIA-SB39-3	FD	Beryllium	0.37	0.37	0.37	mg/kg	
E200.7/NONE	SO	SAIA-SB39-3	FD	Calcium	373	12500	12500	mg/kg	
E200.7/NONE	SO	SAIA-SB39-3	FD	Cadmium	0.37	1.6 E	1.6	mg/kg	
E200.7/NONE	SO	SAIA-SB39-3	FD	Cobalt	3.7	7.0	7.0	mg/kg	
E200.7/NONE	SO	SAIA-SB39-3	FD	Chromium	0.75	25.2 E	25.2	mg/kg	
E200.7/NONE	SO	SAIA-SB39-3	FD	Copper	1.9	47.4	47.4	mg/kg	
E200.7/NONE	SO	SAIA-SB39-3	FD	Iron	7.5	22200 E	22200	mg/kg	
E200.7/NONE	SO	SAIA-SB39-3	FD	Potassium	373	2090	2090	mg/kg	
E200.7/NONE	SO	SAIA-SB39-3	FD	Magnesium	373	4190	4190	mg/kg	
E200.7/NONE	SO	SAIA-SB39-3	FD	Manganese	1.1	467	467	mg/kg	
E200.7/NONE	SO	SAIA-SB39-3	FD	Sodium	373	441	441	mg/kg	
E200.7/NONE	SO	SAIA-SB39-3	FD	Nickel	3.0	17.6	17.6	mg/kg	
E200.7/NONE	SO	SAIA-SB39-3	FD	Lead	0.75	213	213	mg/kg	
E200.7/NONE	SO	SAIA-SB39-3	FD	Selenium	2.6	0.83 J	0.83 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB39-3	FD	Vanadium	3.7	30.8	30.8	mg/kg	
E200.7/NONE	SO	SAIA-SB39-3	FD	Zinc	4.5	257	257	mg/kg	
E200.7/NONE	SO	SAIA-SB39-35	N	Aluminum	14.7	8380	8380	mg/kg	
E200.7/NONE	SO	SAIA-SB39-35	N	Arsenic	0.73	11.4	11.4	mg/kg	
E200.7/NONE	SO	SAIA-SB39-35	N	Barium	14.7	73.7	73.7	mg/kg	
E200.7/NONE	SO	SAIA-SB39-35	N	Beryllium	0.37	0.32 J	0.32 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB39-35	N	Calcium	367	9930	9930	mg/kg	
E200.7/NONE	SO	SAIA-SB39-35	N	Cobalt	3.7	6.8	6.8	mg/kg	
E200.7/NONE	SO	SAIA-SB39-35	N	Chromium	0.73	12.2 E	12.2	mg/kg	
E200.7/NONE	SO	SAIA-SB39-35	N	Copper	1.8	8.8	8.8	mg/kg	
E200.7/NONE	SO	SAIA-SB39-35	N	Iron	7.3	16700 E	16700	mg/kg	
E200.7/NONE	SO	SAIA-SB39-35	N	Potassium	367	2600	2600	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB39-35	N	Magnesium	367	5160	5160	mg/kg	
E200.7/NONE	SO	SAIA-SB39-35	N	Manganese	1.1	286	286	mg/kg	
E200.7/NONE	SO	SAIA-SB39-35	N	Sodium	367	391	391	mg/kg	
E200.7/NONE	SO	SAIA-SB39-35	N	Nickel	2.9	7.9	7.9	mg/kg	
E200.7/NONE	SO	SAIA-SB39-35	N	Lead	0.73	2.4	2.4	mg/kg	
E200.7/NONE	SO	SAIA-SB39-35	N	Selenium	2.6	0.79 J	0.79 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB39-35	N	Vanadium	3.7	30.1	30.1	mg/kg	
E200.7/NONE	SO	SAIA-SB39-35	N	Zinc	4.4	37.9	37.9	mg/kg	
E200.7/NONE	SO	SAIA-SB39-5	N	Aluminum	15.3	12600	12600	mg/kg	
E200.7/NONE	SO	SAIA-SB39-5	N	Arsenic	0.77	4.0	4.0	mg/kg	
E200.7/NONE	SO	SAIA-SB39-5	N	Barium	15.3	117	117	mg/kg	
E200.7/NONE	SO	SAIA-SB39-5	N	Beryllium	0.38	0.44	0.44	mg/kg	
E200.7/NONE	SO	SAIA-SB39-5	N	Calcium	383	8870	8870	mg/kg	
E200.7/NONE	SO	SAIA-SB39-5	N	Cadmium	0.38	0.40 E	0.40	mg/kg	
E200.7/NONE	SO	SAIA-SB39-5	N	Cobalt	3.8	10.2	10.2	mg/kg	
E200.7/NONE	SO	SAIA-SB39-5	N	Chromium	0.77	19.4 E	19.4	mg/kg	
E200.7/NONE	SO	SAIA-SB39-5	N	Copper	1.9	15.2	15.2	mg/kg	
E200.7/NONE	SO	SAIA-SB39-5	N	Iron	7.7	23100 E	23100	mg/kg	
E200.7/NONE	SO	SAIA-SB39-5	N	Potassium	383	4190	4190	mg/kg	
E200.7/NONE	SO	SAIA-SB39-5	N	Magnesium	383	6980	6980	mg/kg	
E200.7/NONE	SO	SAIA-SB39-5	N	Manganese	1.1	429	429	mg/kg	
E200.7/NONE	SO	SAIA-SB39-5	N	Sodium	383	426	426	mg/kg	
E200.7/NONE	SO	SAIA-SB39-5	N	Nickel	3.1	13.4	13.4	mg/kg	
E200.7/NONE	SO	SAIA-SB39-5	N	Lead	0.77	10.4	10.4	mg/kg	
E200.7/NONE	SO	SAIA-SB39-5	N	Selenium	2.7	0.75 J	0.75 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB39-5	N	Vanadium	3.8	42.6	42.6	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9EM9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB39-5	N	Zinc	4.6	60.7	60.7	mg/kg	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	SAIA-SB20-0.5	N	Mercury	0.099	0.015 J	0.015 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB20-15	N	Mercury	0.10	0.21	0.21	mg/kg	
SW7471B/NONE	SO	SAIA-SB20-2	N	Mercury	0.10	0.015 J	0.015 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB20-25	N	Mercury	0.11	0.058 J	0.058 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB20-35	N	Mercury	0.094	0.025 J	0.025 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB20-5	N	Mercury	0.11	0.046 J	0.046 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB21-0.5	N	Mercury	0.11	0.031 J	0.031 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB21-2	N	Mercury	0.11	0.024 J	0.024 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB21-3	FD	Mercury	0.10	0.023 J	0.023 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB38-15	N	Mercury	0.12	0.079 J	0.079 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB38-25	N	Mercury	0.12	0.12 J	0.12	mg/kg	
SW7471B/NONE	SO	SAIA-SB38-35	N	Mercury	0.10	0.015 J	0.015 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB38-5	N	Mercury	0.11	0.071 J	0.071 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB39-0.5	N	Mercury	0.096	0.11	0.11	mg/kg	
SW7471B/NONE	SO	SAIA-SB39-15	N	Mercury	0.11	0.072 J	0.072 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB39-2	N	Mercury	0.098	0.46	0.46	mg/kg	
SW7471B/NONE	SO	SAIA-SB39-25	N	Mercury	0.13	0.070 J	0.070 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB39-3	FD	Mercury	0.10	0.11	0.11	mg/kg	
SW7471B/NONE	SO	SAIA-SB39-35	N	Mercury	0.10	0.020 J	0.020 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB39-5	N	Mercury	0.098	0.045 J	0.045 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9EM9

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for Y9EA8

Facility: Southern Avenue Industrial Area

Soil Borings Sampling Event, April 2014

Guidance Document:

Contract Laboratory: KAP TECHNOLOGIES INC., THE WOODLANDS, TX

Field Contractor:

Data Review Contractor: Gilbane

SDG: Y9EA8, Certified - 5/15/2014 by wtse

QC Level: S1BVEM

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: November 17, 2014

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG Y9EA8

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
SW8082/NONE	16	2
SW8260B/NONE	16	2
SW8270D/NONE	16	2

AUTOMATED DATA REVIEW SUMMARY for Y9EA8

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by KAP TECHNOLOGIES INC., THE WOODLANDS, TX and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- Negative Blank
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for Y9EA8

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 85 results (3.66%) out of the 2322 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Gilbane reviewed the KAP Tech lab report, COCs, case narrative, and EXES data review package.

No sample receipt or calibration issues were noted.

Qualifiers were added for lab blank (B1, B5) detects, poor surrogate recoveries (S), and minor internal standards recoveries (I) and matrix (M) effects.

17-Nov-2014

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

Batch Report

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
A44228-1	A44289	NA	SAIA-SB/SG21	SO	SAIA-SB21-25	S-6431.04	A44222-1	1/1	18-Apr-2014 10:55 AM	26-Apr-2014 7:35 PM	02-May-2014 10:22 AM	N
	A44289	NA	SAIA-SB/SG21	SO	SAIA-SB21-35	S-6431.05	A44222-1	1/1	18-Apr-2014 11:05 AM	26-Apr-2014 7:35 PM	02-May-2014 10:50 AM	N
	A44289	NA	SAIA-SB/SG21	SO	SAIA-SB21-5	S-6431.01	A44222-1	1/1	18-Apr-2014 10:10 AM	26-Apr-2014 7:35 PM	02-May-2014 8:49 AM	N
	A44289	NA	SAIA-SB/SG22	SO	SAIA-SB22-0.5	S-6431.06	A44222-1	1/1	18-Apr-2014 12:05 PM	26-Apr-2014 7:35 PM	02-May-2014 11:19 AM	N
	A44289	NA	SAIA-SB/SG22	SO	SAIA-SB22-15	S-6431.09	A44222-1	1/1	18-Apr-2014 12:30 PM	26-Apr-2014 7:35 PM	02-May-2014 12:48 PM	N
	A44289	NA	SAIA-SB/SG22	SO	SAIA-SB22-25	S-6431.10	A44222-1	1/1	18-Apr-2014 12:40 PM	26-Apr-2014 7:35 PM	02-May-2014 1:17 PM	N
	A44289	NA	SAIA-SB/SG22	SO	SAIA-SB22-35	S-6431.11	A44222-1	1/1	18-Apr-2014 12:50 PM	26-Apr-2014 7:35 PM	02-May-2014 1:47 PM	N
	A44289	NA	SAIA-SB/SG22	SO	SAIA-SB22-5	S-6431.08	A44222-1	1/1	18-Apr-2014 12:15 PM	26-Apr-2014 7:35 PM	02-May-2014 12:18 PM	N
	A44289	NA	SAIA-SB/SG35	SO	SAIA-SB35-0.5	S-6431.12	A44222-1	1/1	18-Apr-2014 7:05 AM	26-Apr-2014 7:35 PM	02-May-2014 2:16 PM	N
	A44289	NA	SAIA-SB/SG35	SO	SAIA-SB35-15	S-6431.16	A44222-1	1/1	18-Apr-2014 7:40 AM	26-Apr-2014 7:35 PM	02-May-2014 4:14 PM	N
	A44289	NA	SAIA-SB/SG35	SO	SAIA-SB35-2	S-6431.13	A44222-1	1/1	18-Apr-2014 7:10 AM	26-Apr-2014 7:35 PM	02-May-2014 2:45 PM	N
	A44289	NA	SAIA-SB/SG35	SO	SAIA-SB35-25	S-6431.17	A44222-1	1/1	18-Apr-2014 7:50 AM	26-Apr-2014 7:35 PM	02-May-2014 4:43 PM	N
	A44289	NA	SAIA-SB/SG35	SO	SAIA-SB35-3	S-6431.14	A44222-1	1/1	18-Apr-2014 7:15 AM	26-Apr-2014 7:35 PM	02-May-2014 3:16 PM	FD
	A44289	NA	SAIA-SB/SG35	SO	SAIA-SB35-35	S-6431.18	A44222-1	1/1	18-Apr-2014 8:00 AM	26-Apr-2014 7:35 PM	02-May-2014 5:13 PM	N
	A44289	NA	SAIA-SB/SG35	SO	SAIA-SB35-5	S-6431.15	A44222-1	1/1	18-Apr-2014 7:20 AM	26-Apr-2014 7:35 PM	02-May-2014 3:44 PM	N
A44228-2	A44289	NA	SAIA-SB/SG21	SO	SAIA-SB21-25	S-6431.04	A44222-2	1/1	18-Apr-2014 10:55 AM	26-Apr-2014 7:35 PM	02-May-2014 10:50 AM	N
	A44289	NA	SAIA-SB/SG21	SO	SAIA-SB21-35	S-6431.05	A44222-2	1/1	18-Apr-2014 11:05 AM	26-Apr-2014 7:35 PM	02-May-2014 11:19 AM	N
	A44289	NA	SAIA-SB/SG21	SO	SAIA-SB21-5	S-6431.01	A44222-2	1/1	18-Apr-2014 10:10 AM	26-Apr-2014 7:35 PM	02-May-2014 9:24 AM	N
	A44289	NA	SAIA-SB/SG22	SO	SAIA-SB22-0.5	S-6431.06	A44222-2	1/1	18-Apr-2014 12:05 PM	26-Apr-2014 7:35 PM	02-May-2014 11:49 AM	N
	A44289	NA	SAIA-SB/SG22	SO	SAIA-SB22-15	S-6431.09	A44222-2	1/1	18-Apr-2014 12:30 PM	26-Apr-2014 7:35 PM	02-May-2014 1:17 PM	N
	A44289	NA	SAIA-SB/SG22	SO	SAIA-SB22-25	S-6431.10	A44222-2	1/1	18-Apr-2014 12:40 PM	26-Apr-2014 7:35 PM	02-May-2014 1:47 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9EA8

Batch Report

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
A44228-2	A44289	NA	SAIA-SB/SG22	SO	SAIA-SB22-35	S-6431.11	A44222-2	1/1	18-Apr-2014 12:50 PM	26-Apr-2014 7:35 PM	02-May-2014 2:16 PM	N
	A44289	NA	SAIA-SB/SG22	SO	SAIA-SB22-5	S-6431.08	A44222-2	1/1	18-Apr-2014 12:15 PM	26-Apr-2014 7:35 PM	02-May-2014 12:48 PM	N
	A44289	NA	SAIA-SB/SG35	SO	SAIA-SB35-0.5	S-6431.12	A44222-2	1/1	18-Apr-2014 7:05 AM	26-Apr-2014 7:35 PM	02-May-2014 2:45 PM	N
	A44289	NA	SAIA-SB/SG35	SO	SAIA-SB35-15	S-6431.16	A44222-2	1/1	18-Apr-2014 7:40 AM	26-Apr-2014 7:35 PM	02-May-2014 4:43 PM	N
	A44289	NA	SAIA-SB/SG35	SO	SAIA-SB35-2	S-6431.13	A44222-2	1/1	18-Apr-2014 7:10 AM	26-Apr-2014 7:35 PM	02-May-2014 3:16 PM	N
	A44289	NA	SAIA-SB/SG35	SO	SAIA-SB35-25	S-6431.17	A44222-2	1/1	18-Apr-2014 7:50 AM	26-Apr-2014 7:35 PM	02-May-2014 5:13 PM	N
	A44289	NA	SAIA-SB/SG35	SO	SAIA-SB35-3	S-6431.14	A44222-2	1/1	18-Apr-2014 7:15 AM	26-Apr-2014 7:35 PM	02-May-2014 3:44 PM	FD
	A44289	NA	SAIA-SB/SG35	SO	SAIA-SB35-35	S-6431.18	A44222-2	1/1	18-Apr-2014 8:00 AM	26-Apr-2014 7:35 PM	02-May-2014 5:42 PM	N
	A44289	NA	SAIA-SB/SG35	SO	SAIA-SB35-5	S-6431.15	A44222-2	1/1	18-Apr-2014 7:20 AM	26-Apr-2014 7:35 PM	02-May-2014 4:14 PM	N
A44285-1	A44289	NA	LABQC	SQ	LABQC	ALCS29	A44268-1	1/1	26-Apr-2014 7:35 PM	26-Apr-2014 7:35 PM	08-May-2014 5:40 AM	BS
	A44289	NA	LABQC	SQ	LABQC	ABLK29	A44268-1	1/1	26-Apr-2014 7:35 PM	26-Apr-2014 7:35 PM	08-May-2014 5:11 AM	LB
	A44289	NA	SAIA-SB/SG21	SO	SAIA-SB21-15	S-6431.02	A44268-1	1/1	18-Apr-2014 10:40 AM	26-Apr-2014 7:35 PM	08-May-2014 6:09 AM	N
	A44289	NA	SAIA-SB/SG21	SO	SAIA-SB21-16	S-6431.03	A44268-1	1/1	18-Apr-2014 10:45 AM	26-Apr-2014 7:35 PM	08-May-2014 6:39 AM	FD
	A44289	NA	SAIA-SB/SG22	SO	SAIA-SB22-2	S-6431.07	A44268-1	1/1	18-Apr-2014 12:10 PM	26-Apr-2014 7:35 PM	08-May-2014 7:38 AM	MS
	A44289	NA	SAIA-SB/SG22	SO	SAIA-SB22-2	S-6431.07	A44268-1	1/1	18-Apr-2014 12:10 PM	26-Apr-2014 7:35 PM	08-May-2014 7:08 AM	N
	A44289	NA	SAIA-SB/SG22	SO	SAIA-SB22-2	S-6431.07	A44268-1	1/1	18-Apr-2014 12:10 PM	26-Apr-2014 7:35 PM	08-May-2014 8:07 AM	SD
A44285-2	A44289	NA	LABQC	SQ	LABQC	ALCS29	A44268-2	1/1	26-Apr-2014 7:35 PM	26-Apr-2014 7:35 PM	08-May-2014 6:09 AM	BS
	A44289	NA	LABQC	SQ	LABQC	ABLK29	A44268-2	1/1	26-Apr-2014 7:35 PM	26-Apr-2014 7:35 PM	08-May-2014 5:40 AM	LB
	A44289	NA	SAIA-SB/SG21	SO	SAIA-SB21-15	S-6431.02	A44268-2	1/1	18-Apr-2014 10:40 AM	26-Apr-2014 7:35 PM	08-May-2014 6:39 AM	N
	A44289	NA	SAIA-SB/SG21	SO	SAIA-SB21-16	S-6431.03	A44268-2	1/1	18-Apr-2014 10:45 AM	26-Apr-2014 7:35 PM	08-May-2014 7:08 AM	FD
	A44289	NA	SAIA-SB/SG22	SO	SAIA-SB22-2	S-6431.07	A44268-2	1/1	18-Apr-2014 12:10 PM	26-Apr-2014 7:35 PM	08-May-2014 8:07 AM	MS
	A44289	NA	SAIA-SB/SG22	SO	SAIA-SB22-2	S-6431.07	A44268-2	1/1	18-Apr-2014 12:10 PM	26-Apr-2014 7:35 PM	08-May-2014 7:38 AM	N

AUTOMATED DATA REVIEW SUMMARY for Y9EA8

Batch Report

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
A44285-2	A44289	NA	SAIA-SB/SG22	SO	SAIA-SB22-2	S-6431.07	A44268-2	1/1	18-Apr-2014 12:10 PM	26-Apr-2014 7:35 PM	08-May-2014 8:36 AM	SD
A44308-1	A44289	NA	SAIA-SB/SG21	SO	SAIA-SB21-15	S-6431.02	A44268-1	1/50	18-Apr-2014 10:40 AM	26-Apr-2014 7:35 PM	08-May-2014 7:52 PM	N
	A44289	NA	SAIA-SB/SG21	SO	SAIA-SB21-16	S-6431.03	A44268-1	1/50	18-Apr-2014 10:45 AM	26-Apr-2014 7:35 PM	08-May-2014 8:21 PM	FD
A44308-2	A44289	NA	SAIA-SB/SG21	SO	SAIA-SB21-16	S-6431.03	A44268-2	1/50	18-Apr-2014 10:45 AM	26-Apr-2014 7:35 PM	08-May-2014 8:50 PM	FD

Test Method: SW8260B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
G28674	G28676	NA	LABQC	SQ	LABQC	VBLK1A	G28651	1/1	25-Apr-2014 10:40 AM	25-Apr-2014 10:40 AM	25-Apr-2014 10:40 AM	LB
	G28676	NA	SAIA-SB/SG21	SO	SAIA-SB21-15	S-6431.02	G28651	1/1	18-Apr-2014 10:40 AM	25-Apr-2014 4:00 PM	25-Apr-2014 4:00 PM	N
	G28676	NA	SAIA-SB/SG21	SO	SAIA-SB21-16	S-6431.03	G28651	1/1	18-Apr-2014 10:45 AM	25-Apr-2014 4:32 PM	25-Apr-2014 4:32 PM	FD
	G28676	NA	SAIA-SB/SG21	SO	SAIA-SB21-25	S-6431.04	G28651	1/1	18-Apr-2014 10:55 AM	25-Apr-2014 5:04 PM	25-Apr-2014 5:04 PM	N
	G28676	NA	SAIA-SB/SG21	SO	SAIA-SB21-5	S-6431.01	G28651	1/1	18-Apr-2014 10:10 AM	25-Apr-2014 3:27 PM	25-Apr-2014 3:27 PM	N
G28690	G28693	NA	LABQC	SQ	LABQC	VBLK1C	G28651	1/1	28-Apr-2014 11:01 AM	28-Apr-2014 11:01 AM	28-Apr-2014 11:01 AM	LB
	G28693	NA	SAIA-SB/SG21	SO	SAIA-SB21-35	S-6431.05	G28651	1/1	18-Apr-2014 11:05 AM	28-Apr-2014 11:34 AM	28-Apr-2014 11:34 AM	N
	G28693	NA	SAIA-SB/SG22	SO	SAIA-SB22-0.5	S-6431.06	G28651	1/1	18-Apr-2014 12:05 PM	28-Apr-2014 12:06 PM	28-Apr-2014 12:06 PM	N
	G28693	NA	SAIA-SB/SG22	SO	SAIA-SB22-15	S-6431.09	G28651	1/1	18-Apr-2014 12:30 PM	28-Apr-2014 1:44 PM	28-Apr-2014 1:44 PM	N
	G28693	NA	SAIA-SB/SG22	SO	SAIA-SB22-2	S-6431.07MS	G28651	1/1	18-Apr-2014 12:10 PM	28-Apr-2014 7:40 PM	28-Apr-2014 7:40 PM	MS
	G28693	NA	SAIA-SB/SG22	SO	SAIA-SB22-2	S-6431.07	G28651	1/1	18-Apr-2014 12:10 PM	28-Apr-2014 12:38 PM	28-Apr-2014 12:38 PM	N
	G28693	NA	SAIA-SB/SG22	SO	SAIA-SB22-2	S-6431.07MSD	G28651	1/1	18-Apr-2014 12:10 PM	28-Apr-2014 8:13 PM	28-Apr-2014 8:13 PM	SD
	G28693	NA	SAIA-SB/SG22	SO	SAIA-SB22-25	S-6431.10	G28651	1/1	18-Apr-2014 12:40 PM	28-Apr-2014 2:16 PM	28-Apr-2014 2:16 PM	N
	G28693	NA	SAIA-SB/SG22	SO	SAIA-SB22-35	S-6431.11	G28651	1/1	18-Apr-2014 12:50 PM	28-Apr-2014 2:49 PM	28-Apr-2014 2:49 PM	N
	G28693	NA	SAIA-SB/SG22	SO	SAIA-SB22-5	S-6431.08	G28651	1/1	18-Apr-2014 12:15 PM	28-Apr-2014 1:11 PM	28-Apr-2014 1:11 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9EA8

Batch Report

Test Method: SW8260B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
G28690	G28693	NA	SAIA-SB/SG35	SO	SAIA-SB35-0.5	S-6431.12	G28651	1/1	18-Apr-2014 7:05 AM	28-Apr-2014 3:22 PM	28-Apr-2014 3:22 PM	N
	G28693	NA	SAIA-SB/SG35	SO	SAIA-SB35-15	S-6431.16	G28651	1/1	18-Apr-2014 7:40 AM	28-Apr-2014 5:32 PM	28-Apr-2014 5:32 PM	N
	G28693	NA	SAIA-SB/SG35	SO	SAIA-SB35-2	S-6431.13	G28651	1/1	18-Apr-2014 7:10 AM	28-Apr-2014 3:54 PM	28-Apr-2014 3:54 PM	N
	G28693	NA	SAIA-SB/SG35	SO	SAIA-SB35-25	S-6431.17	G28651	1/1	18-Apr-2014 7:50 AM	28-Apr-2014 6:36 PM	28-Apr-2014 6:36 PM	N
	G28693	NA	SAIA-SB/SG35	SO	SAIA-SB35-3	S-6431.14	G28651	1/1	18-Apr-2014 7:15 AM	28-Apr-2014 4:26 PM	28-Apr-2014 4:26 PM	FD
	G28693	NA	SAIA-SB/SG35	SO	SAIA-SB35-35	S-6431.18	G28651	1/1	18-Apr-2014 8:00 AM	28-Apr-2014 7:08 PM	28-Apr-2014 7:08 PM	N
	G28693	NA	SAIA-SB/SG35	SO	SAIA-SB35-5	S-6431.15	G28651	1/1	18-Apr-2014 7:20 AM	28-Apr-2014 4:59 PM	28-Apr-2014 4:59 PM	N
G28712	G28714	NA	LABQC	SQ	LABQC	VBLK1E	G28651	1/1	29-Apr-2014 10:35 AM	29-Apr-2014 10:35 AM	29-Apr-2014 10:35 AM	LB
	G28714	NA	LABQC	SQ	LABQC	S-6431.19	G28651	1/1	29-Apr-2014 11:08 AM	29-Apr-2014 11:08 AM	29-Apr-2014 11:08 AM	LB

AUTOMATED DATA REVIEW SUMMARY for Y9EA8

Batch Report

Test Method: SW8270D; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
D13421	D13428	NA	LABQC	SQ	LABQC	SBLK04	D13421	1/1	26-Apr-2014 8:45 AM	26-Apr-2014 8:45 AM	01-May-2014 6:41 PM	LB
	D13428	NA	SAIA-SB/SG21	SO	SAIA-SB21-25	S-6431.04	D13421	1/1	18-Apr-2014 10:55 AM	26-Apr-2014 8:45 AM	01-May-2014 7:08 PM	N
	D13428	NA	SAIA-SB/SG21	SO	SAIA-SB21-35	S-6431.05	D13421	1/1	18-Apr-2014 11:05 AM	26-Apr-2014 8:45 AM	01-May-2014 7:34 PM	N
	D13428	NA	SAIA-SB/SG22	SO	SAIA-SB22-15	S-6431.09	D13421	1/1	18-Apr-2014 12:30 PM	26-Apr-2014 8:45 AM	01-May-2014 8:00 PM	N
	D13428	NA	SAIA-SB/SG22	SO	SAIA-SB22-25	S-6431.10	D13421	1/1	18-Apr-2014 12:40 PM	26-Apr-2014 8:45 AM	01-May-2014 8:26 PM	N
	D13428	NA	SAIA-SB/SG22	SO	SAIA-SB22-35	S-6431.11	D13421	1/1	18-Apr-2014 12:50 PM	26-Apr-2014 8:45 AM	01-May-2014 8:52 PM	N
	D13428	NA	SAIA-SB/SG35	SO	SAIA-SB35-15	S-6431.16	D13421	1/1	18-Apr-2014 7:40 AM	26-Apr-2014 8:45 AM	01-May-2014 10:37 PM	N
	D13428	NA	SAIA-SB/SG35	SO	SAIA-SB35-2	S-6431.13	D13421	1/1	18-Apr-2014 7:10 AM	26-Apr-2014 8:45 AM	01-May-2014 9:18 PM	N
	D13428	NA	SAIA-SB/SG35	SO	SAIA-SB35-25	S-6431.17	D13421	1/1	18-Apr-2014 7:50 AM	26-Apr-2014 8:45 AM	01-May-2014 11:03 PM	N
	D13428	NA	SAIA-SB/SG35	SO	SAIA-SB35-3	S-6431.14	D13421	1/1	18-Apr-2014 7:15 AM	26-Apr-2014 8:45 AM	01-May-2014 9:44 PM	FD
	D13428	NA	SAIA-SB/SG35	SO	SAIA-SB35-35	S-6431.18	D13421	1/1	18-Apr-2014 8:00 AM	26-Apr-2014 8:45 AM	01-May-2014 11:29 PM	N
	D13428	NA	SAIA-SB/SG35	SO	SAIA-SB35-5	S-6431.15	D13421	1/1	18-Apr-2014 7:20 AM	26-Apr-2014 8:45 AM	01-May-2014 10:10 PM	N
D13441	D13428	NA	SAIA-SB/SG21	SO	SAIA-SB21-5	S-6431.01	D13421	1/1	18-Apr-2014 10:10 AM	26-Apr-2014 8:45 AM	02-May-2014 1:47 PM	N
	D13428	NA	SAIA-SB/SG22	SO	SAIA-SB22-2	S-6431.07	D13421	1/1	18-Apr-2014 12:10 PM	26-Apr-2014 8:45 AM	02-May-2014 11:37 AM	N
	D13428	NA	SAIA-SB/SG22	SO	SAIA-SB22-2	S-6431.07MSD	D13421	1/1	18-Apr-2014 12:10 PM	26-Apr-2014 8:45 AM	02-May-2014 12:54 PM	SD
	D13428	NA	SAIA-SB/SG35	SO	SAIA-SB35-0.5	S-6431.12	D13421	1/1	18-Apr-2014 7:05 AM	26-Apr-2014 8:45 AM	02-May-2014 1:20 PM	N
D13463	D13428	NA	SAIA-SB/SG21	SO	SAIA-SB21-15	S-6431.02	D13421	1/1	18-Apr-2014 10:40 AM	26-Apr-2014 8:45 AM	05-May-2014 1:31 PM	N
	D13428	NA	SAIA-SB/SG21	SO	SAIA-SB21-16	S-6431.03	D13421	1/1	18-Apr-2014 10:45 AM	26-Apr-2014 8:45 AM	05-May-2014 1:57 PM	FD
	D13428	NA	SAIA-SB/SG22	SO	SAIA-SB22-0.5	S-6431.06	D13421	1/1	18-Apr-2014 12:05 PM	26-Apr-2014 8:45 AM	05-May-2014 2:23 PM	N
	D13428	NA	SAIA-SB/SG22	SO	SAIA-SB22-2	S-6431.07MS	D13421	1/1	18-Apr-2014 12:10 PM	26-Apr-2014 8:45 AM	05-May-2014 3:40 PM	MS
	D13428	NA	SAIA-SB/SG22	SO	SAIA-SB22-5	S-6431.08	D13421	1/1	18-Apr-2014 12:15 PM	26-Apr-2014 8:45 AM	05-May-2014 2:50 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9EA8

Field Batch Report

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for Y9EA8

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
SW8082 / SW3550B	MS Recovery	SAIA-SB22-2 (SD)	1 / 1.00	PCB-1254 (Arochlor 1254)	235	Percent	J/None	29 - 135	20 - 145	M	Spike amount Insignificant	4.00	
SW8260B / SW5035	Blank	S-6431.19 (LB)	1 / 1.00	Bromomethane	1.20	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	S-6431.19 (LB)	1 / 1.00	Methylene Chloride	1.30	UG/KG	U/None	< 1	< 5	B1			
SW8260B / SW5035	Blank	S-6431.19 (LB)	1 / 1.00	Toluene	0.750	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLK1A (LB)	1 / 1.00	Methylene Chloride	3.10	UG/KG	U/None	< 1	< 5	B1			
SW8260B / SW5035	Blank	VBLK1C (LB)	1 / 1.00	1,2,3-Trichlorobenzene	0.710	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLK1C (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.420	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLK1C (LB)	1 / 1.00	Bromomethane	1.50	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLK1C (LB)	1 / 1.00	Methylene Chloride	1.40	UG/KG	U/None	< 1	< 5	B1			
SW8260B / SW5035	Blank	VBLK1C (LB)	1 / 1.00	Toluene	0.590	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLK1E (LB)	1 / 1.00	Bromomethane	1.20	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLK1E (LB)	1 / 1.00	Methylene Chloride	1.30	UG/KG	U/None	< 1	< 5	B1			
SW8260B / SW5035	Blank	VBLK1E (LB)	1 / 1.00	Toluene	0.670	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Surrogate	SAIA-SB21-15 (N)	1 / 1.00	1,2-Dichloroethane-d4	129	Percent	J/None	78 - 129	20 - 129	S			
SW8260B / SW5035	Surrogate	SAIA-SB22-15 (N)	1 / 1.00	1,2-Dichlorobenzene-d4	76.4	Percent	J/UJ	80 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB22-25 (N)	1 / 1.00	1,2-Dichloroethane-d4	129	Percent	J/None	78 - 129	20 - 129	S			
SW8260B / SW5035	Surrogate	SAIA-SB35-25 (N)	1 / 1.00	Chloroethane-d5	136	Percent	J/None	71 - 131	20 - 131	S			
SW8270D / SW3550B	MS Recovery	SAIA-SB22-2 (SD)	1 / 1.00	2,4-Dinitrotoluene	55.7	PERCENT	J/UJ	60 - 140	55 - 145	M			
SW8270D / SW3550B	MS Recovery	SAIA-SB22-2 (MS)	1 / 1.00	4-Nitrophenol	178	PERCENT	J/None	60 - 140	55 - 145	M			
SW8270D / SW3550B	MS Recovery	SAIA-SB22-2 (SD)	1 / 1.00	Pentachlorophenol	156	PERCENT	J/None	60 - 140	55 - 145	M			

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8082/NONE	SO	SAIA-SB21-16	FD	PCB-1248 (Arochlor 1248)	1900	9000 DP	9000 J	UG/KG	S
SW8082/NONE	SO	SAIA-SB21-16	FD	PCB-1260 (Arochlor 1260)	1900	2400 DP	2400 J	UG/KG	S
SW8082/NONE	SO	SAIA-SB22-25	N	PCB-1016 (Arochlor 1016)	42.0	42.0 U	42.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB22-25	N	PCB-1221 (Arochlor 1221)	42.0	42.0 U	42.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB22-25	N	PCB-1232 (Arochlor 1232)	42.0	42.0 U	42.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB22-25	N	PCB-1242 (Arochlor 1242)	42.0	42.0 U	42.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB22-25	N	PCB-1248 (Arochlor 1248)	42.0	42.0 U	42.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB22-25	N	PCB-1254 (Arochlor 1254)	42.0	42.0 U	42.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB22-25	N	PCB-1260 (Arochlor 1260)	42.0	42.0 U	42.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB22-25	N	PCB-1262 (Arochlor 1262)	42.0	42.0 U	42.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB22-25	N	PCB-1268 (Arochlor 1268)	42.0	42.0 U	42.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB22-5	N	PCB-1016 (Arochlor 1016)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB22-5	N	PCB-1221 (Arochlor 1221)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB22-5	N	PCB-1232 (Arochlor 1232)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB22-5	N	PCB-1242 (Arochlor 1242)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB22-5	N	PCB-1248 (Arochlor 1248)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB22-5	N	PCB-1254 (Arochlor 1254)	39.0	140	140 J	UG/KG	S
SW8082/NONE	SO	SAIA-SB22-5	N	PCB-1260 (Arochlor 1260)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB22-5	N	PCB-1262 (Arochlor 1262)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB22-5	N	PCB-1268 (Arochlor 1268)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB35-2	N	PCB-1016 (Arochlor 1016)	35.0	35.0 U	35.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB35-2	N	PCB-1221 (Arochlor 1221)	35.0	35.0 U	35.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB35-2	N	PCB-1232 (Arochlor 1232)	35.0	35.0 U	35.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB35-2	N	PCB-1242 (Arochlor 1242)	35.0	35.0 U	35.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB35-2	N	PCB-1248 (Arochlor 1248)	35.0	35.0 U	35.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB35-2	N	PCB-1254 (Arochlor 1254)	35.0	35.0 U	35.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB35-2	N	PCB-1260 (Arochlor 1260)	35.0	35.0 U	35.0 UJ	UG/KG	S

AUTOMATED DATA REVIEW SUMMARY for Y9EA8

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8082/NONE	SO	SAIA-SB35-2	N	PCB-1262 (Arochlor 1262)	35.0	35.0 U	35.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB35-2	N	PCB-1268 (Arochlor 1268)	35.0	35.0 U	35.0 UJ	UG/KG	S

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8260B/NONE	SO	SAIA-SB21-15	N	cis-1,2-Dichloroethylene	6.3	1.9 J	1.9 J	UG/KG	S/TR
SW8260B/NONE	SO	SAIA-SB21-15	N	Ethylbenzene	6.3	1.2 J	1.2 J	UG/KG	S/TR
SW8260B/NONE	SO	SAIA-SB21-15	N	m,p-Xylene	6.3	4.0 J	4.0 J	UG/KG	S/TR
SW8260B/NONE	SO	SAIA-SB21-15	N	Methylene Chloride	6.3	6.3 JB	6.3 U	UG/KG	B5
SW8260B/NONE	SO	SAIA-SB21-15	N	o-Xylene	6.3	1.5 J	1.5 J	UG/KG	S/TR
SW8260B/NONE	SO	SAIA-SB21-15	N	Tetrachloroethene (PCE)	6.3	1.1 J	1.1 J	UG/KG	S/TR
SW8260B/NONE	SO	SAIA-SB21-15	N	Toluene	6.3	6.3 J	6.3 U	UG/KG	B5
SW8260B/NONE	SO	SAIA-SB21-15	N	Trichloroethene (TCE)	6.3	2.1 J	2.1 J	UG/KG	S/TR
SW8260B/NONE	SO	SAIA-SB21-16	FD	Ethylbenzene	5.8	0.94 J	0.94 J	UG/KG	TR
SW8260B/NONE	SO	SAIA-SB21-16	FD	m,p-Xylene	5.8	3.3 J	3.3 J	UG/KG	TR
SW8260B/NONE	SO	SAIA-SB21-16	FD	Methylene Chloride	5.8	5.8 JB	5.8 U	UG/KG	B5
SW8260B/NONE	SO	SAIA-SB21-16	FD	o-Xylene	5.8	1.1 J	1.1 J	UG/KG	TR
SW8260B/NONE	SO	SAIA-SB21-16	FD	Tetrachloroethene (PCE)	5.8	0.95 J	0.95 J	UG/KG	TR
SW8260B/NONE	SO	SAIA-SB21-16	FD	Toluene	5.8	5.8 J	5.8 U	UG/KG	B5
SW8260B/NONE	SO	SAIA-SB21-16	FD	Trichloroethene (TCE)	5.8	1.2 J	1.2 J	UG/KG	TR
SW8260B/NONE	SO	SAIA-SB21-25	N	Methylene Chloride	6.7	6.7 JB	6.7 U	UG/KG	B5
SW8260B/NONE	SO	SAIA-SB21-35	N	Bromomethane	6.1	6.1 JB	6.1 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB21-35	N	Methylene Chloride	6.1	6.1 JB	6.1 U	UG/KG	B5
SW8260B/NONE	SO	SAIA-SB21-5	N	Methylene Chloride	5.4	5.4 JB	5.4 U	UG/KG	B5
SW8260B/NONE	SO	SAIA-SB22-0.5	N	Bromomethane	5.6	5.6 JB	5.6 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB22-0.5	N	Methylene Chloride	5.6	5.6 JB	5.6 U	UG/KG	B5
SW8260B/NONE	SO	SAIA-SB22-0.5	N	Toluene	5.6	5.6 JB	5.6 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB22-15	N	1,2,3-Trichlorobenzene	5.3	5.3 U	5.3 UJ	UG/KG	S
SW8260B/NONE	SO	SAIA-SB22-15	N	1,2,4-Trichlorobenzene	5.3	5.3 U	5.3 UJ	UG/KG	S

AUTOMATED DATA REVIEW SUMMARY for Y9EA8

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8260B/NONE	SO	SAIA-SB22-15	N	1,2-Dichlorobenzene	5.3	5.3 U	5.3 UJ	UG/KG	S
SW8260B/NONE	SO	SAIA-SB22-15	N	1,3-Dichlorobenzene	5.3	5.3 U	5.3 UJ	UG/KG	S
SW8260B/NONE	SO	SAIA-SB22-15	N	1,4-Dichlorobenzene	5.3	5.3 U	5.3 UJ	UG/KG	S
SW8260B/NONE	SO	SAIA-SB22-15	N	Bromomethane	5.3	5.3 JB	5.3 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB22-15	N	Chlorobenzene	5.3	5.3 U	5.3 UJ	UG/KG	S
SW8260B/NONE	SO	SAIA-SB22-15	N	Methylene Chloride	5.3	5.3 JB	5.3 U	UG/KG	B5
SW8260B/NONE	SO	SAIA-SB22-15	N	Toluene	5.3	5.3 JB	5.3 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB22-2	N	Methylene Chloride	6.2	6.2 JB	6.2 U	UG/KG	B5
SW8260B/NONE	SO	SAIA-SB22-25	N	Methylene Chloride	6.3	6.3 JB	6.3 U	UG/KG	B5
SW8260B/NONE	SO	SAIA-SB22-25	N	Toluene	6.3	6.3 JB	6.3 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB22-35	N	Methylene Chloride	5.9	5.9 JB	5.9 U	UG/KG	B5
SW8260B/NONE	SO	SAIA-SB22-35	N	Toluene	5.9	5.9 JB	5.9 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB22-5	N	Methylene Chloride	6.2	6.2 JB	6.2 U	UG/KG	B5
SW8260B/NONE	SO	SAIA-SB35-0.5	N	Methylene Chloride	5.4	5.4 JB	5.4 U	UG/KG	B5
SW8260B/NONE	SO	SAIA-SB35-15	N	Methylene Chloride	6.2	6.2 JB	6.2 U	UG/KG	B5
SW8260B/NONE	SO	SAIA-SB35-15	N	Toluene	6.2	6.2 JB	6.2 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB35-2	N	Methylene Chloride	5.1	5.1 JB	5.1 U	UG/KG	B5
SW8260B/NONE	SO	SAIA-SB35-25	N	1,2,3-Trichlorobenzene	6.4	6.4 JB	6.4 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB35-25	N	1,2,4-Trichlorobenzene	6.4	6.4 JB	6.4 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB35-25	N	Methylene Chloride	6.4	6.4 JB	6.4 U	UG/KG	B5
SW8260B/NONE	SO	SAIA-SB35-25	N	Toluene	6.4	6.4 JB	6.4 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB35-3	FD	Bromomethane	5.7	5.7 JB	5.7 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB35-3	FD	Methylene Chloride	5.7	5.7 JB	5.7 U	UG/KG	B5
SW8260B/NONE	SO	SAIA-SB35-35	N	Methylene Chloride	5.3	5.3 JB	5.3 U	UG/KG	B5
SW8260B/NONE	SO	SAIA-SB35-35	N	Toluene	5.3	5.3 JB	5.3 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB35-5	N	Methylene Chloride	5.7	5.7 JB	5.7 U	UG/KG	B5

AUTOMATED DATA REVIEW SUMMARY for Y9EA8

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8270D/NONE	SO	SAIA-SB21-15	N	Acenaphthene	200	81.0 J	81.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB21-15	N	Fluorene	200	150 J	150 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB21-15	N	Naphthalene	200	110 J	110 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB21-16	FD	Acenaphthene	190	92.0 J	92.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB21-16	FD	Anthracene	190	92.0 J	92.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB21-16	FD	Naphthalene	190	140 J	140 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB21-5	N	Di-n-Butyl Phthalate	190	93.0 J	93.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB22-15	N	Di-n-Butyl Phthalate	190	91.0 J	91.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB22-2	N	2,4-Dinitrotoluene	190	190 U	190 UJ	UG/KG	M
SW8270D/NONE	SO	SAIA-SB22-2	N	2-Chlorophenol	190	190 U	190 UJ	UG/KG	I
SW8270D/NONE	SO	SAIA-SB22-2	N	2-Methylphenol (o-Cresol)	190	190 U	190 UJ	UG/KG	I
SW8270D/NONE	SO	SAIA-SB22-2	N	4-Methylphenol (p-Cresol)	190	190 U	190 UJ	UG/KG	I
SW8270D/NONE	SO	SAIA-SB22-2	N	Acetophenone	190	190 U	190 UJ	UG/KG	I
SW8270D/NONE	SO	SAIA-SB22-2	N	Benzaldehyde	190	190 U	190 UJ	UG/KG	I
SW8270D/NONE	SO	SAIA-SB22-2	N	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	190	190 U	190 UJ	UG/KG	I
SW8270D/NONE	SO	SAIA-SB22-2	N	bis(2-Chloroisopropyl) Ether	190	190 U	190 UJ	UG/KG	I
SW8270D/NONE	SO	SAIA-SB22-2	N	Hexachloroethane	190	190 U	190 UJ	UG/KG	I
SW8270D/NONE	SO	SAIA-SB22-2	N	n-Nitrosodi-n-propylamine	190	190 U	190 UJ	UG/KG	I
SW8270D/NONE	SO	SAIA-SB22-2	N	Phenol	190	190 U	190 UJ	UG/KG	I
SW8270D/NONE	SO	SAIA-SB35-25	N	bis(2-Ethylhexyl) Phthalate	200	120 J	120 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB35-3	FD	bis(2-Ethylhexyl) Phthalate	190	87.0 J	87.0 J	UG/KG	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8082/NONE	SO	SAIA-SB21-15	N	PCB-1248 (Arochlor 1248)	1900	7200 D	7200	UG/KG	
SW8082/NONE	SO	SAIA-SB21-16	FD	PCB-1248 (Arochlor 1248)	1900	9000 DP	9000 J	UG/KG	S
SW8082/NONE	SO	SAIA-SB21-16	FD	PCB-1260 (Arochlor 1260)	1900	2400 DP	2400 J	UG/KG	S
SW8082/NONE	SO	SAIA-SB21-5	N	PCB-1254 (Arochlor 1254)	38.0	170	170	UG/KG	
SW8082/NONE	SO	SAIA-SB21-5	N	PCB-1260 (Arochlor 1260)	38.0	150 P	150	UG/KG	
SW8082/NONE	SO	SAIA-SB22-0.5	N	PCB-1254 (Arochlor 1254)	37.0	260	260	UG/KG	
SW8082/NONE	SO	SAIA-SB22-15	N	PCB-1254 (Arochlor 1254)	37.0	45.0	45.0	UG/KG	
SW8082/NONE	SO	SAIA-SB22-2	N	PCB-1254 (Arochlor 1254)	36.0	130	130	UG/KG	
SW8082/NONE	SO	SAIA-SB22-5	N	PCB-1254 (Arochlor 1254)	39.0	140	140 J	UG/KG	S

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8260B/NONE	SO	SAIA-SB21-15	N	cis-1,2-Dichloroethylene	6.3	1.9 J	1.9 J	UG/KG	S/TR
SW8260B/NONE	SO	SAIA-SB21-15	N	Ethylbenzene	6.3	1.2 J	1.2 J	UG/KG	S/TR
SW8260B/NONE	SO	SAIA-SB21-15	N	Tetrachloroethene (PCE)	6.3	1.1 J	1.1 J	UG/KG	S/TR
SW8260B/NONE	SO	SAIA-SB21-15	N	Trichloroethene (TCE)	6.3	2.1 J	2.1 J	UG/KG	S/TR
SW8260B/NONE	SO	SAIA-SB21-15	N	m,p-Xylene	6.3	4.0 J	4.0 J	UG/KG	S/TR
SW8260B/NONE	SO	SAIA-SB21-15	N	o-Xylene	6.3	1.5 J	1.5 J	UG/KG	S/TR
SW8260B/NONE	SO	SAIA-SB21-16	FD	Ethylbenzene	5.8	0.94 J	0.94 J	UG/KG	TR
SW8260B/NONE	SO	SAIA-SB21-16	FD	Tetrachloroethene (PCE)	5.8	0.95 J	0.95 J	UG/KG	TR
SW8260B/NONE	SO	SAIA-SB21-16	FD	Trichloroethene (TCE)	5.8	1.2 J	1.2 J	UG/KG	TR
SW8260B/NONE	SO	SAIA-SB21-16	FD	m,p-Xylene	5.8	3.3 J	3.3 J	UG/KG	TR
SW8260B/NONE	SO	SAIA-SB21-16	FD	o-Xylene	5.8	1.1 J	1.1 J	UG/KG	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8270D/NONE	SO	SAIA-SB21-15	N	Acenaphthene	200	81.0 J	81.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB21-15	N	Fluorene	200	150 J	150 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB21-15	N	2-Methylnaphthalene	200	200	200	UG/KG	

AUTOMATED DATA REVIEW SUMMARY for Y9EA8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8270D/NONE	SO	SAIA-SB21-15	N	Naphthalene	200	110 J	110 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB21-15	N	Phenanthrene	200	510	510	UG/KG	
SW8270D/NONE	SO	SAIA-SB21-16	FD	Acenaphthene	190	92.0 J	92.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB21-16	FD	Anthracene	190	92.0 J	92.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB21-16	FD	Fluorene	190	190 J	190	UG/KG	
SW8270D/NONE	SO	SAIA-SB21-16	FD	2-Methylnaphthalene	190	240	240	UG/KG	
SW8270D/NONE	SO	SAIA-SB21-16	FD	Naphthalene	190	140 J	140 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB21-16	FD	Phenanthrene	190	650	650	UG/KG	
SW8270D/NONE	SO	SAIA-SB21-5	N	bis(2-Ethylhexyl) Phthalate	190	370	370	UG/KG	
SW8270D/NONE	SO	SAIA-SB21-5	N	Di-n-Butyl Phthalate	190	93.0 J	93.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB22-15	N	Di-n-Butyl Phthalate	190	91.0 J	91.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB35-25	N	bis(2-Ethylhexyl) Phthalate	200	120 J	120 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB35-3	FD	bis(2-Ethylhexyl) Phthalate	190	87.0 J	87.0 J	UG/KG	TR

AUTOMATED DATA REVIEW SUMMARY for Y9EA8

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for Y9EF4

Facility: Southern Avenue Industrial Area

Soil Borings Sampling Event, April 2014

Guidance Document:

Contract Laboratory: KAP TECHNOLOGIES INC., THE WOODLANDS, TX

Field Contractor:

Data Review Contractor: Gilbane

SDG: Y9EF4, Certified - 5/14/2014 by wtse

QC Level: S1BVEM

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: November 19, 2014

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG Y9EF4

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
SW8082/NONE	19	1
SW8260B/NONE	19	1
SW8270D/NONE	19	1

AUTOMATED DATA REVIEW SUMMARY for Y9EF4

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by KAP TECHNOLOGIES INC., THE WOODLANDS, TX and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- Negative Blank
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for Y9EF4

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 68 results (2.64%) out of the 2580 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Gilbane reviewed the KAP Tech lab report, COCs, case narrative, and EXES data review package.

Qualifiers were added for calibration anomalies (C11), but no sample receipt issues were noted.

Qualifiers were also added for lab blank (B1, B5) detects, poor surrogate recoveries (S), and minor matrix (M) effects.

19-Nov-2014

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

Batch Report

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
A44080-1	A44184	NA	LABQC	SQ	LABQC	ALCS24	A44068-1	1/1	18-Apr-2014 7:55 PM	18-Apr-2014 7:55 PM	25-Apr-2014 8:20 PM	BS
	A44184	NA	SAIA-SB/SG28	SO	SAIA-SB28-15	S-6421.02	A44068-1	1/1	14-Apr-2014 2:20 PM	18-Apr-2014 7:55 PM	25-Apr-2014 9:19 PM	N
	A44184	NA	SAIA-SB/SG28	SO	SAIA-SB28-25	S-6421.03	A44068-1	1/1	14-Apr-2014 2:30 PM	18-Apr-2014 7:55 PM	25-Apr-2014 9:48 PM	N
	A44184	NA	SAIA-SB/SG28	SO	SAIA-SB28-35	S-6421.04	A44068-1	1/1	14-Apr-2014 2:40 PM	18-Apr-2014 7:55 PM	25-Apr-2014 10:17 PM	N
	A44184	NA	SAIA-SB/SG28	SO	SAIA-SB28-5	S-6421.01	A44068-1	1/1	14-Apr-2014 2:10 PM	18-Apr-2014 7:55 PM	25-Apr-2014 8:49 PM	N
	A44184	NA	SAIA-SB/SG30	SO	SAIA-SB30-0.5	S-6422.01	A44068-1	1/1	15-Apr-2014 7:40 AM	18-Apr-2014 7:55 PM	25-Apr-2014 10:47 PM	N
	A44184	NA	SAIA-SB/SG30	SO	SAIA-SB30-15	S-6422.04	A44068-1	1/1	15-Apr-2014 8:00 AM	18-Apr-2014 7:55 PM	26-Apr-2014 12:15 AM	N
	A44184	NA	SAIA-SB/SG30	SO	SAIA-SB30-2	S-6422.02	A44068-1	1/1	15-Apr-2014 7:45 AM	18-Apr-2014 7:55 PM	25-Apr-2014 11:16 PM	N
	A44184	NA	SAIA-SB/SG30	SO	SAIA-SB30-25	S-6422.05	A44068-1	1/1	15-Apr-2014 8:10 AM	18-Apr-2014 7:55 PM	26-Apr-2014 12:44 AM	N
	A44184	NA	SAIA-SB/SG30	SO	SAIA-SB30-35	S-6422.06	A44068-1	1/1	15-Apr-2014 8:20 AM	18-Apr-2014 7:55 PM	26-Apr-2014 1:13 AM	N
	A44184	NA	SAIA-SB/SG30	SO	SAIA-SB30-5	S-6422.03	A44068-1	1/1	15-Apr-2014 7:50 AM	18-Apr-2014 7:55 PM	25-Apr-2014 11:45 PM	N
	A44184	NA	SAIA-SB/SG31	SO	SAIA-SB31-0.5	S-6422.07	A44068-1	1/1	15-Apr-2014 9:10 AM	18-Apr-2014 7:55 PM	26-Apr-2014 1:43 AM	N
	A44184	NA	SAIA-SB/SG31	SO	SAIA-SB31-15	S-6422.10	A44068-1	1/1	15-Apr-2014 9:30 AM	18-Apr-2014 7:55 PM	26-Apr-2014 3:11 AM	N
	A44184	NA	SAIA-SB/SG31	SO	SAIA-SB31-2	S-6422.08	A44068-1	1/1	15-Apr-2014 9:15 AM	18-Apr-2014 7:55 PM	26-Apr-2014 2:12 AM	N
	A44184	NA	SAIA-SB/SG31	SO	SAIA-SB31-25	S-6422.11	A44068-1	1/1	15-Apr-2014 9:40 AM	18-Apr-2014 7:55 PM	26-Apr-2014 3:40 AM	N
	A44184	NA	SAIA-SB/SG31	SO	SAIA-SB31-35	S-6422.13	A44068-1	1/1	15-Apr-2014 9:55 AM	18-Apr-2014 7:55 PM	26-Apr-2014 4:39 AM	N
	A44184	NA	SAIA-SB/SG31	SO	SAIA-SB31-36	S-6422.12	A44068-1	1/1	15-Apr-2014 10:00 AM	18-Apr-2014 7:55 PM	26-Apr-2014 4:09 AM	FD
	A44184	NA	SAIA-SB/SG31	SO	SAIA-SB31-5	S-6422.09	A44068-1	1/1	15-Apr-2014 9:20 AM	18-Apr-2014 7:55 PM	26-Apr-2014 2:41 AM	N
A44080-2	A44184	NA	LABQC	SQ	LABQC	ALCS24	A44068-2	1/1	18-Apr-2014 7:55 PM	18-Apr-2014 7:55 PM	25-Apr-2014 8:49 PM	BS
	A44184	NA	SAIA-SB/SG28	SO	SAIA-SB28-15	S-6421.02	A44068-2	1/1	14-Apr-2014 2:20 PM	18-Apr-2014 7:55 PM	25-Apr-2014 9:48 PM	N
	A44184	NA	SAIA-SB/SG28	SO	SAIA-SB28-25	S-6421.03	A44068-2	1/1	14-Apr-2014 2:30 PM	18-Apr-2014 7:55 PM	25-Apr-2014 10:17 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9EF4

Batch Report

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
A44080-2	A44184	NA	SAIA-SB/SG28	SO	SAIA-SB28-35	S-6421.04	A44068-2	1/1	14-Apr-2014 2:40 PM	18-Apr-2014 7:55 PM	25-Apr-2014 10:47 PM	N
	A44184	NA	SAIA-SB/SG28	SO	SAIA-SB28-5	S-6421.01	A44068-2	1/1	14-Apr-2014 2:10 PM	18-Apr-2014 7:55 PM	25-Apr-2014 9:19 PM	N
	A44184	NA	SAIA-SB/SG30	SO	SAIA-SB30-0.5	S-6422.01	A44068-2	1/1	15-Apr-2014 7:40 AM	18-Apr-2014 7:55 PM	25-Apr-2014 11:16 PM	N
	A44184	NA	SAIA-SB/SG30	SO	SAIA-SB30-15	S-6422.04	A44068-2	1/1	15-Apr-2014 8:00 AM	18-Apr-2014 7:55 PM	26-Apr-2014 12:44 AM	N
	A44184	NA	SAIA-SB/SG30	SO	SAIA-SB30-2	S-6422.02	A44068-2	1/1	15-Apr-2014 7:45 AM	18-Apr-2014 7:55 PM	25-Apr-2014 11:45 PM	N
	A44184	NA	SAIA-SB/SG30	SO	SAIA-SB30-25	S-6422.05	A44068-2	1/1	15-Apr-2014 8:10 AM	18-Apr-2014 7:55 PM	26-Apr-2014 1:13 AM	N
	A44184	NA	SAIA-SB/SG30	SO	SAIA-SB30-35	S-6422.06	A44068-2	1/1	15-Apr-2014 8:20 AM	18-Apr-2014 7:55 PM	26-Apr-2014 1:43 AM	N
	A44184	NA	SAIA-SB/SG30	SO	SAIA-SB30-5	S-6422.03	A44068-2	1/1	15-Apr-2014 7:50 AM	18-Apr-2014 7:55 PM	26-Apr-2014 12:15 AM	N
	A44184	NA	SAIA-SB/SG31	SO	SAIA-SB31-0.5	S-6422.07	A44068-2	1/1	15-Apr-2014 9:10 AM	18-Apr-2014 7:55 PM	26-Apr-2014 2:12 AM	N
	A44184	NA	SAIA-SB/SG31	SO	SAIA-SB31-15	S-6422.10	A44068-2	1/1	15-Apr-2014 9:30 AM	18-Apr-2014 7:55 PM	26-Apr-2014 3:40 AM	N
	A44184	NA	SAIA-SB/SG31	SO	SAIA-SB31-2	S-6422.08	A44068-2	1/1	15-Apr-2014 9:15 AM	18-Apr-2014 7:55 PM	26-Apr-2014 2:41 AM	N
	A44184	NA	SAIA-SB/SG31	SO	SAIA-SB31-25	S-6422.11	A44068-2	1/1	15-Apr-2014 9:40 AM	18-Apr-2014 7:55 PM	26-Apr-2014 4:09 AM	N
	A44184	NA	SAIA-SB/SG31	SO	SAIA-SB31-35	S-6422.13	A44068-2	1/1	15-Apr-2014 9:55 AM	18-Apr-2014 7:55 PM	26-Apr-2014 5:08 AM	N
	A44184	NA	SAIA-SB/SG31	SO	SAIA-SB31-36	S-6422.12	A44068-2	1/1	15-Apr-2014 10:00 AM	18-Apr-2014 7:55 PM	26-Apr-2014 4:39 AM	FD
	A44184	NA	SAIA-SB/SG31	SO	SAIA-SB31-5	S-6422.09	A44068-2	1/1	15-Apr-2014 9:20 AM	18-Apr-2014 7:55 PM	26-Apr-2014 3:11 AM	N
A44179-1	A44184	NA	LABQC	SQ	LABQC	ABLK24	A44173-1	1/1	18-Apr-2014 7:55 PM	18-Apr-2014 7:55 PM	28-Apr-2014 5:10 PM	LB
	A44184	NA	SAIA-SB/SG30	SO	SAIA-SB30-2	S-6422.02	A44173-1	1/1	15-Apr-2014 7:45 AM	18-Apr-2014 7:55 PM	29-Apr-2014 12:02 AM	MS
	A44184	NA	SAIA-SB/SG30	SO	SAIA-SB30-2	S-6422.02	A44173-1	1/1	15-Apr-2014 7:45 AM	18-Apr-2014 7:55 PM	29-Apr-2014 12:31 AM	SD
	A44184	NA	SAIA-SB/SG32	SO	SAIA-SB32-0.5	S-6422.14	A44173-1	1/1	15-Apr-2014 1:00 PM	18-Apr-2014 7:55 PM	28-Apr-2014 5:40 PM	N
	A44184	NA	SAIA-SB/SG32	SO	SAIA-SB32-2	S-6422.15	A44173-1	1/1	15-Apr-2014 1:05 PM	18-Apr-2014 7:55 PM	28-Apr-2014 6:09 PM	N
	A44184	NA	SAIA-SB/SG32	SO	SAIA-SB32-5	S-6422.16	A44173-1	1/1	15-Apr-2014 1:10 PM	18-Apr-2014 7:55 PM	28-Apr-2014 6:39 PM	N
A44179-2	A44184	NA	LABQC	SQ	LABQC	ABLK24	A44173-2	1/1	18-Apr-2014 7:55 PM	18-Apr-2014 7:55 PM	28-Apr-2014 5:40 PM	LB

AUTOMATED DATA REVIEW SUMMARY for Y9EF4

Batch Report

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
A44179-2	A44184	NA	SAIA-SB/SG30	SO	SAIA-SB30-2	S-6422.02	A44173-2	1/1	15-Apr-2014 7:45 AM	18-Apr-2014 7:55 PM	29-Apr-2014 12:31 AM	MS
	A44184	NA	SAIA-SB/SG30	SO	SAIA-SB30-2	S-6422.02	A44173-2	1/1	15-Apr-2014 7:45 AM	18-Apr-2014 7:55 PM	29-Apr-2014 1:01 AM	SD
	A44184	NA	SAIA-SB/SG32	SO	SAIA-SB32-0.5	S-6422.14	A44173-2	1/1	15-Apr-2014 1:00 PM	18-Apr-2014 7:55 PM	28-Apr-2014 6:09 PM	N
	A44184	NA	SAIA-SB/SG32	SO	SAIA-SB32-2	S-6422.15	A44173-2	1/1	15-Apr-2014 1:05 PM	18-Apr-2014 7:55 PM	28-Apr-2014 6:39 PM	N
	A44184	NA	SAIA-SB/SG32	SO	SAIA-SB32-5	S-6422.16	A44173-2	1/1	15-Apr-2014 1:10 PM	18-Apr-2014 7:55 PM	28-Apr-2014 7:08 PM	N

Test Method: SW8260B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
A39767	A39769	NA	LABQC	SQ	LABQC	VBLKQH	A39737	1/1	18-Apr-2014 10:01 AM	18-Apr-2014 10:01 AM	18-Apr-2014 10:01 AM	LB
	A39769	NA	SAIA-SB/SG28	SO	SAIA-SB28-15	S-6421.02	A39737	1/1	14-Apr-2014 2:20 PM	18-Apr-2014 1:46 PM	18-Apr-2014 1:46 PM	N
	A39769	NA	SAIA-SB/SG28	SO	SAIA-SB28-25	S-6421.03	A39737	1/1	14-Apr-2014 2:30 PM	18-Apr-2014 2:19 PM	18-Apr-2014 2:19 PM	N
	A39769	NA	SAIA-SB/SG28	SO	SAIA-SB28-35	S-6421.04	A39737	1/1	14-Apr-2014 2:40 PM	18-Apr-2014 2:50 PM	18-Apr-2014 2:50 PM	N
	A39769	NA	SAIA-SB/SG28	SO	SAIA-SB28-5	S-6421.01	A39737	1/1	14-Apr-2014 2:10 PM	18-Apr-2014 1:14 PM	18-Apr-2014 1:14 PM	N
	A39769	NA	SAIA-SB/SG30	SO	SAIA-SB30-0.5	S-6422.01	A39737	1/1	15-Apr-2014 7:40 AM	18-Apr-2014 3:22 PM	18-Apr-2014 3:22 PM	N
	A39769	NA	SAIA-SB/SG30	SO	SAIA-SB30-15	S-6422.04	A39737	1/1	15-Apr-2014 8:00 AM	18-Apr-2014 5:31 PM	18-Apr-2014 5:31 PM	N
	A39769	NA	SAIA-SB/SG30	SO	SAIA-SB30-2	S-6422.02	A39737	1/1	15-Apr-2014 7:45 AM	18-Apr-2014 3:55 PM	18-Apr-2014 3:55 PM	N
	A39769	NA	SAIA-SB/SG30	SO	SAIA-SB30-25	S-6422.05	A39737	1/1	15-Apr-2014 8:10 AM	18-Apr-2014 6:03 PM	18-Apr-2014 6:03 PM	N
	A39769	NA	SAIA-SB/SG30	SO	SAIA-SB30-35	S-6422.06	A39737	1/1	15-Apr-2014 8:20 AM	18-Apr-2014 6:35 PM	18-Apr-2014 6:35 PM	N
	A39769	NA	SAIA-SB/SG30	SO	SAIA-SB30-5	S-6422.03	A39737	1/1	15-Apr-2014 7:50 AM	18-Apr-2014 4:27 PM	18-Apr-2014 4:27 PM	N
	A39769	NA	SAIA-SB/SG31	SO	SAIA-SB31-0.5	S-6422.07	A39737	1/1	15-Apr-2014 9:10 AM	18-Apr-2014 7:06 PM	18-Apr-2014 7:06 PM	N
	A39769	NA	SAIA-SB/SG31	SO	SAIA-SB31-2	S-6422.08	A39737	1/1	15-Apr-2014 9:15 AM	18-Apr-2014 7:39 PM	18-Apr-2014 7:39 PM	N
A39790	A39792	NA	LABQC	SQ	LABQC	VBLKQK	A39737	1/1	19-Apr-2014 9:32 AM	19-Apr-2014 9:32 AM	19-Apr-2014 9:32 AM	LB

AUTOMATED DATA REVIEW SUMMARY for Y9EF4

Batch Report

Test Method: SW8260B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
A39790	A39792	NA	LABQC	SQ	LABQC	S-6421.05	A39737	1/1	19-Apr-2014 6:07 PM	19-Apr-2014 6:07 PM	19-Apr-2014 6:07 PM	LB
	A39792	NA	SAIA-SB/SG30	SO	SAIA-SB30-2	S-6422.02MS	A39737	1/1	15-Apr-2014 7:45 AM	19-Apr-2014 2:22 PM	19-Apr-2014 2:22 PM	MS
	A39792	NA	SAIA-SB/SG30	SO	SAIA-SB30-2	S-6422.02MSD	A39737	1/1	15-Apr-2014 7:45 AM	19-Apr-2014 2:53 PM	19-Apr-2014 2:53 PM	SD
	A39792	NA	SAIA-SB/SG31	SO	SAIA-SB31-15	S-6422.10	A39737	1/1	15-Apr-2014 9:30 AM	19-Apr-2014 10:37 AM	19-Apr-2014 10:37 AM	N
	A39792	NA	SAIA-SB/SG31	SO	SAIA-SB31-25	S-6422.11	A39737	1/1	15-Apr-2014 9:40 AM	19-Apr-2014 11:10 AM	19-Apr-2014 11:10 AM	N
	A39792	NA	SAIA-SB/SG31	SO	SAIA-SB31-35	S-6422.13	A39737	1/1	15-Apr-2014 9:55 AM	19-Apr-2014 12:14 PM	19-Apr-2014 12:14 PM	N
	A39792	NA	SAIA-SB/SG31	SO	SAIA-SB31-36	S-6422.12	A39737	1/1	15-Apr-2014 10:00 AM	19-Apr-2014 11:42 AM	19-Apr-2014 11:42 AM	FD
	A39792	NA	SAIA-SB/SG31	SO	SAIA-SB31-5	S-6422.09	A39737	1/1	15-Apr-2014 9:20 AM	19-Apr-2014 10:05 AM	19-Apr-2014 10:05 AM	N
	A39792	NA	SAIA-SB/SG32	SO	SAIA-SB32-0.5	S-6422.14	A39737	1/1	15-Apr-2014 1:00 PM	19-Apr-2014 12:45 PM	19-Apr-2014 12:45 PM	N
	A39792	NA	SAIA-SB/SG32	SO	SAIA-SB32-2	S-6422.15	A39737	1/1	15-Apr-2014 1:05 PM	19-Apr-2014 1:17 PM	19-Apr-2014 1:17 PM	N
	A39792	NA	SAIA-SB/SG32	SO	SAIA-SB32-5	S-6422.16	A39737	1/1	15-Apr-2014 1:10 PM	19-Apr-2014 1:49 PM	19-Apr-2014 1:49 PM	N

Test Method: SW8270D; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
D13231	D13234	NA	LABQC	SQ	LABQC	SBLK98	D13220	1/1	18-Apr-2014 8:15 AM	18-Apr-2014 8:15 AM	24-Apr-2014 3:57 PM	LB
	D13234	NA	SAIA-SB/SG28	SO	SAIA-SB28-15	S-6421.02	D13220	1/1	14-Apr-2014 2:20 PM	18-Apr-2014 8:15 AM	24-Apr-2014 10:32 PM	N
	D13234	NA	SAIA-SB/SG28	SO	SAIA-SB28-25	S-6421.03	D13220	1/1	14-Apr-2014 2:30 PM	18-Apr-2014 8:15 AM	24-Apr-2014 10:58 PM	N
	D13234	NA	SAIA-SB/SG28	SO	SAIA-SB28-35	S-6421.04	D13220	1/1	14-Apr-2014 2:40 PM	18-Apr-2014 8:15 AM	24-Apr-2014 11:24 PM	N
	D13234	NA	SAIA-SB/SG28	SO	SAIA-SB28-5	S-6421.01	D13220	1/1	14-Apr-2014 2:10 PM	18-Apr-2014 8:15 AM	24-Apr-2014 10:06 PM	N
D13253	D13234	NA	SAIA-SB/SG30	SO	SAIA-SB30-15	S-6422.04	D13220	1/1	15-Apr-2014 8:00 AM	18-Apr-2014 8:15 AM	25-Apr-2014 2:07 AM	N
	D13234	NA	SAIA-SB/SG30	SO	SAIA-SB30-2	S-6422.02	D13220	1/1	15-Apr-2014 7:45 AM	18-Apr-2014 8:15 AM	25-Apr-2014 1:15 AM	N
	D13234	NA	SAIA-SB/SG30	SO	SAIA-SB30-25	S-6422.05	D13220	1/1	15-Apr-2014 8:10 AM	18-Apr-2014 8:15 AM	25-Apr-2014 2:33 AM	N

Batch Report

Test Method: SW8270D; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
D13253	D13234	NA	SAIA-SB/SG30	SO	SAIA-SB30-35	S-6422.06	D13220	1/1	15-Apr-2014 8:20 AM	18-Apr-2014 8:15 AM	25-Apr-2014 3:00 AM	N
	D13234	NA	SAIA-SB/SG30	SO	SAIA-SB30-5	S-6422.03	D13220	1/1	15-Apr-2014 7:50 AM	18-Apr-2014 8:15 AM	25-Apr-2014 1:41 AM	N
	D13234	NA	SAIA-SB/SG31	SO	SAIA-SB31-0.5	S-6422.07	D13220	1/1	15-Apr-2014 9:10 AM	18-Apr-2014 8:15 AM	25-Apr-2014 3:26 AM	N
	D13234	NA	SAIA-SB/SG31	SO	SAIA-SB31-15	S-6422.10	D13220	1/1	15-Apr-2014 9:30 AM	18-Apr-2014 8:15 AM	25-Apr-2014 4:44 AM	N
	D13234	NA	SAIA-SB/SG31	SO	SAIA-SB31-2	S-6422.08	D13220	1/1	15-Apr-2014 9:15 AM	18-Apr-2014 8:15 AM	25-Apr-2014 3:52 AM	N
	D13234	NA	SAIA-SB/SG31	SO	SAIA-SB31-25	S-6422.11	D13220	1/1	15-Apr-2014 9:40 AM	18-Apr-2014 8:15 AM	25-Apr-2014 5:11 AM	N
	D13234	NA	SAIA-SB/SG31	SO	SAIA-SB31-35	S-6422.13	D13220	1/1	15-Apr-2014 9:55 AM	18-Apr-2014 8:15 AM	25-Apr-2014 6:03 AM	N
	D13234	NA	SAIA-SB/SG31	SO	SAIA-SB31-36	S-6422.12	D13220	1/1	15-Apr-2014 10:00 AM	18-Apr-2014 8:15 AM	25-Apr-2014 5:37 AM	FD
	D13234	NA	SAIA-SB/SG31	SO	SAIA-SB31-5	S-6422.09	D13220	1/1	15-Apr-2014 9:20 AM	18-Apr-2014 8:15 AM	25-Apr-2014 4:18 AM	N
	D13234	NA	SAIA-SB/SG32	SO	SAIA-SB32-0.5	S-6422.14	D13220	1/1	15-Apr-2014 1:00 PM	18-Apr-2014 8:15 AM	25-Apr-2014 6:30 AM	N
	D13234	NA	SAIA-SB/SG32	SO	SAIA-SB32-2	S-6422.15	D13220	1/1	15-Apr-2014 1:05 PM	18-Apr-2014 8:15 AM	25-Apr-2014 6:56 AM	N
	D13234	NA	SAIA-SB/SG32	SO	SAIA-SB32-5	S-6422.16	D13220	1/1	15-Apr-2014 1:10 PM	18-Apr-2014 8:15 AM	25-Apr-2014 7:22 AM	N
D13299	D13234	NA	SAIA-SB/SG30	SO	SAIA-SB30-2	S-6422.02MS	D13220	1/1	15-Apr-2014 7:45 AM	18-Apr-2014 8:15 AM	28-Apr-2014 1:12 PM	MS
	D13234	NA	SAIA-SB/SG30	SO	SAIA-SB30-2	S-6422.02MSD	D13220	1/1	15-Apr-2014 7:45 AM	18-Apr-2014 8:15 AM	28-Apr-2014 1:39 PM	SD
D13361	D13234	NA	SAIA-SB/SG30	SO	SAIA-SB30-0.5	S-6422.01	D13220	1/1	15-Apr-2014 7:40 AM	18-Apr-2014 8:15 AM	29-Apr-2014 12:11 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9EF4

Field Batch Report

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for Y9EF4

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
SW8082 / SW3550B	Surrogate	SAIA-SB32-0.5 (N)	1 / 1.00	2,4,5,6-Tetrachloro-meta-xylene	175	Percent	J/None	30 - 150	20 - 160	S			
SW8082 / SW3550B	Surrogate	SAIA-SB32-2 (N)	1 / 1.00	2,4,5,6-Tetrachloro-meta-xylene	185	Percent	J/None	30 - 150	20 - 160	S			
SW8082 / SW3550B	Surrogate	SAIA-SB32-5 (N)	1 / 1.00	2,4,5,6-Tetrachloro-meta-xylene	220	Percent	J/None	30 - 150	20 - 160	S			
SW8260B / SW5035	Blank	S-6421.05 (LB)	1 / 1.00	Bromomethane	2.20	UG/KG	U/None	< 2	< 5	B1			
SW8260B / SW5035	Blank	S-6421.05 (LB)	1 / 1.00	Methylene Chloride	2.00	UG/KG	U/None	< 1	< 5	B1			
SW8260B / SW5035	Blank	VBLKQH (LB)	1 / 1.00	1,2,3-Trichlorobenzene	1.10	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQH (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.830	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQH (LB)	1 / 1.00	1,3-Dichlorobenzene	0.620	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQH (LB)	1 / 1.00	Bromomethane	0.960	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQH (LB)	1 / 1.00	Ethylbenzene	0.210	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQH (LB)	1 / 1.00	Isopropylbenzene (Cumene)	0.190	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQH (LB)	1 / 1.00	m,p-Xylene	0.250	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQH (LB)	1 / 1.00	Methylene Chloride	3.30	UG/KG	U/None	< 1	< 5	B1			
SW8260B / SW5035	Blank	VBLKQH (LB)	1 / 1.00	o-Xylene	0.230	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQH (LB)	1 / 1.00	Styrene	0.240	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQH (LB)	1 / 1.00	Toluene	0.450	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQK (LB)	1 / 1.00	1,2,3-Trichlorobenzene	1.10	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQK (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.940	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQK (LB)	1 / 1.00	1,3-Dichlorobenzene	0.510	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQK (LB)	1 / 1.00	Acetone	4.10	UG/KG	U/None	< 0	< 10	B1			
SW8260B / SW5035	Blank	VBLKQK (LB)	1 / 1.00	Bromomethane	1.90	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQK (LB)	1 / 1.00	Ethylbenzene	0.180	UG/KG	U/None	< 0	< 5	B1			

AUTOMATED DATA REVIEW SUMMARY for Y9EF4

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
SW8260B / SW5035	Blank	VBLKQK (LB)	1 / 1.00	Isopropylbenzene (Cumene)	0.160	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQK (LB)	1 / 1.00	m,p-Xylene	0.300	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQK (LB)	1 / 1.00	Methylene Chloride	1.40	UG/KG	U/None	< 1	< 5	B1			
SW8260B / SW5035	Blank	VBLKQK (LB)	1 / 1.00	o-Xylene	0.170	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQK (LB)	1 / 1.00	Styrene	0.250	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	MS Recovery	SAIA-SB30-2 (MS)	1 / 1.00	Benzene	60.8	Percent	J/UJ	76 - 127	76 - 127	M			
SW8260B / SW5035	MS Recovery	SAIA-SB30-2 (SD)	1 / 1.00	Benzene	63.3	Percent	J/UJ	76 - 127	76 - 127	M			
SW8260B / SW5035	MS Recovery	SAIA-SB30-2 (MS)	1 / 1.00	Trichloroethene (TCE)	62.7	Percent	J/UJ	71 - 120	71 - 120	M			
SW8260B / SW5035	MS Recovery	SAIA-SB30-2 (SD)	1 / 1.00	Trichloroethene (TCE)	63.3	Percent	J/UJ	71 - 120	71 - 120	M			
SW8260B / SW5035	Surrogate	SAIA-SB28-15 (N)	1 / 1.00	1,2-Dichloroethane-d4	138	Percent	J/None	78 - 129	20 - 129	S			
SW8260B / SW5035	Surrogate	SAIA-SB28-15 (N)	1 / 1.00	Chloroethane-d5	162	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB28-15 (N)	1 / 1.00	Chloroform-d	130	Percent	J/None	78 - 121	20 - 121	S			
SW8260B / SW5035	Surrogate	SAIA-SB28-15 (N)	1 / 1.00	Toluene-d8	124	Percent	J/None	77 - 121	20 - 121	S			
SW8260B / SW5035	Surrogate	SAIA-SB28-25 (N)	1 / 1.00	1,2-Dichloroethane-d4	132	Percent	J/None	78 - 129	20 - 129	S			
SW8260B / SW5035	Surrogate	SAIA-SB28-25 (N)	1 / 1.00	Chloroethane-d5	152	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB28-35 (N)	1 / 1.00	1,2-Dichloroethane-d4	138	Percent	J/None	78 - 129	20 - 129	S			
SW8260B / SW5035	Surrogate	SAIA-SB28-35 (N)	1 / 1.00	Chloroethane-d5	176	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB28-35 (N)	1 / 1.00	Chloroform-d	126	Percent	J/None	78 - 121	20 - 121	S			
SW8260B / SW5035	Surrogate	SAIA-SB28-35 (N)	1 / 1.00	Vinyl Chloride-d3	148	Percent	J/None	65 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB28-5 (N)	1 / 1.00	Chloroethane-d5	156	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB30-0.5 (N)	1 / 1.00	Chloroform-d	62.0	Percent	J/UJ	78 - 121	20 - 121	S			
SW8260B / SW5035	Surrogate	SAIA-SB30-15 (N)	1 / 1.00	1,1-Dichloroethene-d2	106	Percent	J/None	55 - 104	20 - 104	S			

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
SW8260B / SW5035	Surrogate	SAIA-SB30-15 (N)	1 / 1.00	1,2-Dichloroethane-d4	136	Percent	J/None	78 - 129	20 - 129	S			
SW8260B / SW5035	Surrogate	SAIA-SB30-15 (N)	1 / 1.00	Chloroethane-d5	168	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB30-15 (N)	1 / 1.00	Toluene-d8	128	Percent	J/None	77 - 121	20 - 121	S			
SW8260B / SW5035	Surrogate	SAIA-SB30-2 (MS)	1 / 1.00	1,1-Dichloroethene-d2	108	Percent	J/None	55 - 104	20 - 104	S			
SW8260B / SW5035	Surrogate	SAIA-SB30-2 (N)	1 / 1.00	Chloroethane-d5	132	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB30-2 (MS)	1 / 1.00	Chloroform-d	64.0	Percent	J/UJ	78 - 121	20 - 121	S			
SW8260B / SW5035	Surrogate	SAIA-SB30-2 (SD)	1 / 1.00	Chloroform-d	66.0	Percent	J/UJ	78 - 121	20 - 121	S			
SW8260B / SW5035	Surrogate	SAIA-SB30-25 (N)	1 / 1.00	Chloroethane-d5	150	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB31-0.5 (N)	1 / 1.00	1,1-Dichloroethene-d2	110	Percent	J/None	55 - 104	20 - 104	S			
SW8260B / SW5035	Surrogate	SAIA-SB31-0.5 (N)	1 / 1.00	1,2-Dichloroethane-d4	146	Percent	J/None	78 - 129	20 - 129	S			
SW8260B / SW5035	Surrogate	SAIA-SB31-0.5 (N)	1 / 1.00	Chloroethane-d5	160	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB31-0.5 (N)	1 / 1.00	Toluene-d8	122	Percent	J/None	77 - 121	20 - 121	S			
SW8260B / SW5035	Surrogate	SAIA-SB31-0.5 (N)	1 / 1.00	Vinyl Chloride-d3	132	Percent	J/None	65 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB31-15 (N)	1 / 1.00	1,2-Dichloroethane-d4	136	Percent	J/None	78 - 129	20 - 129	S			
SW8260B / SW5035	Surrogate	SAIA-SB31-15 (N)	1 / 1.00	Chloroethane-d5	150	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB31-2 (N)	1 / 1.00	Chloroethane-d5	152	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB31-25 (N)	1 / 1.00	1,1-Dichloroethene-d2	112	Percent	J/None	55 - 104	20 - 104	S			
SW8260B / SW5035	Surrogate	SAIA-SB31-25 (N)	1 / 1.00	1,2-Dichlorobenzene-d4	138	Percent	J/None	80 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB31-25 (N)	1 / 1.00	1,2-Dichloroethane-d4	142	Percent	J/None	78 - 129	20 - 129	S			
SW8260B / SW5035	Surrogate	SAIA-SB31-25 (N)	1 / 1.00	Benzene-d6	128	Percent	J/None	77 - 124	20 - 124	S			
SW8260B / SW5035	Surrogate	SAIA-SB31-25 (N)	1 / 1.00	Chloroethane-d5	166	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB31-25 (N)	1 / 1.00	Toluene-d8	126	Percent	J/None	77 - 121	20 - 121	S			

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
SW8260B / SW5035	Surrogate	SAIA-SB31-25 (N)	1 / 1.00	trans-1,3-Dichloropropene-d4	122	Percent	J/None	73 - 121	20 - 121	S			
SW8260B / SW5035	Surrogate	SAIA-SB31-25 (N)	1 / 1.00	Vinyl Chloride-d3	134	Percent	J/None	65 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB31-35 (N)	1 / 1.00	Chloroethane-d5	148	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB31-36 (FD)	1 / 1.00	Chloroethane-d5	138	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB31-5 (N)	1 / 1.00	1,2-Dichloroethane-d4	138	Percent	J/None	78 - 129	20 - 129	S			
SW8260B / SW5035	Surrogate	SAIA-SB31-5 (N)	1 / 1.00	Chloroethane-d5	156	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB32-0.5 (N)	1 / 1.00	Chloroethane-d5	134	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB32-5 (N)	1 / 1.00	1,2-Dichloroethane-d4	134	Percent	J/None	78 - 129	20 - 129	S			
SW8260B / SW5035	Surrogate	SAIA-SB32-5 (N)	1 / 1.00	Chloroethane-d5	160	Percent	J/None	71 - 131	20 - 131	S			

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8082/NONE	SO	SAIA-SB28-15	N	PCB-1016 (Arochlor 1016)	44.0	44.0 U	44.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB28-15	N	PCB-1221 (Arochlor 1221)	44.0	44.0 U	44.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB28-15	N	PCB-1232 (Arochlor 1232)	44.0	44.0 U	44.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB28-15	N	PCB-1242 (Arochlor 1242)	44.0	44.0 U	44.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB28-15	N	PCB-1248 (Arochlor 1248)	44.0	44.0 U	44.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB28-15	N	PCB-1254 (Arochlor 1254)	44.0	44.0 U	44.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB28-15	N	PCB-1260 (Arochlor 1260)	44.0	44.0 U	44.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB28-15	N	PCB-1262 (Arochlor 1262)	44.0	44.0 U	44.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB28-15	N	PCB-1268 (Arochlor 1268)	44.0	44.0 U	44.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB32-0.5	N	PCB-1254 (Arochlor 1254)	36.0	47.0	47.0 J	UG/KG	S
SW8082/NONE	SO	SAIA-SB32-0.5	N	PCB-1260 (Arochlor 1260)	36.0	12.0 JP	12.0 J	UG/KG	S/TR
SW8082/NONE	SO	SAIA-SB32-2	N	PCB-1254 (Arochlor 1254)	36.0	49.0	49.0 J	UG/KG	S
SW8082/NONE	SO	SAIA-SB32-2	N	PCB-1260 (Arochlor 1260)	36.0	12.0 J	12.0 J	UG/KG	S/TR
SW8082/NONE	SO	SAIA-SB32-5	N	PCB-1254 (Arochlor 1254)	40.0	16.0 JP	16.0 J	UG/KG	S/TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8260B/NONE	SO	SAIA-SB28-15	N	Bromomethane	6.3	6.3 JB	6.3 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB28-15	N	Methylene Chloride	6.3	6.3 JB	6.3 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB28-25	N	Bromomethane	6.1	6.1 JB	6.1 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB28-25	N	Methylene Chloride	6.1	6.1 JB	6.1 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB28-35	N	Bromomethane	6.2	6.2 JB	6.2 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB28-35	N	Methylene Chloride	6.2	6.2 JB	6.2 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB28-5	N	Bromomethane	6.2	6.2 JB	6.2 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB28-5	N	Methylene Chloride	6.2	6.2 JB	6.2 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB30-0.5	N	1,1-Dichloroethane	5.7	5.7 U	5.7 UJ	UG/KG	S
SW8260B/NONE	SO	SAIA-SB30-0.5	N	Bromochloromethane	5.7	5.7 U	5.7 UJ	UG/KG	S
SW8260B/NONE	SO	SAIA-SB30-0.5	N	Bromoform	5.7	5.7 U	5.7 UJ	UG/KG	S
SW8260B/NONE	SO	SAIA-SB30-0.5	N	Bromomethane	5.7	5.7 JB	5.7 U	UG/KG	B1/B5

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8260B/NONE	SO	SAIA-SB30-0.5	N	Chloroform	5.7	5.7 U	5.7 UJ	UG/KG	S
SW8260B/NONE	SO	SAIA-SB30-0.5	N	Dibromochloromethane	5.7	5.7 U	5.7 UJ	UG/KG	S
SW8260B/NONE	SO	SAIA-SB30-0.5	N	Methylene Chloride	5.7	5.7 B	5.7 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB30-15	N	1,2,3-Trichlorobenzene	6.9	6.9 JB	6.9 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB30-15	N	1,2,4-Trichlorobenzene	6.9	6.9 JB	6.9 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB30-15	N	1,3-Dichlorobenzene	6.9	6.9 JB	6.9 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB30-15	N	Bromomethane	6.9	6.9 JB	6.9 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB30-15	N	Methylene Chloride	6.9	6.9 JB	6.9 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB30-2	N	Benzene	5.4	5.4 U	5.4 UJ	UG/KG	M
SW8260B/NONE	SO	SAIA-SB30-2	N	Bromomethane	5.4	5.4 JB	5.4 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB30-2	N	Methylene Chloride	5.4	5.4 JB	5.4 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB30-2	N	Trichloroethene (TCE)	5.4	5.4 U	5.4 UJ	UG/KG	M
SW8260B/NONE	SO	SAIA-SB30-25	N	Bromomethane	5.9	5.9 JB	5.9 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB30-25	N	Methylene Chloride	5.9	5.9 JB	5.9 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB30-35	N	Bromomethane	4.9	4.9 JB	4.9 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB30-35	N	Methylene Chloride	4.9	4.9 JB	4.9 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB30-5	N	Bromomethane	5.1	5.1 JB	5.1 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB30-5	N	Methylene Chloride	5.1	5.1 JB	5.1 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB31-0.5	N	Bromomethane	6.4	6.4 JB	6.4 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB31-0.5	N	Methylene Chloride	6.4	6.4 JB	6.4 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB31-15	N	Bromomethane	5.9	5.9 JB	5.9 UJ	UG/KG	B1/B5/C11
SW8260B/NONE	SO	SAIA-SB31-15	N	Methylene Chloride	5.9	5.9 JB	5.9 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB31-2	N	Bromomethane	5.3	5.3 JB	5.3 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB31-2	N	Methylene Chloride	5.3	5.3 JB	5.3 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB31-25	N	Bromomethane	6.2	6.2 JB	6.2 UJ	UG/KG	B1/B5/C11
SW8260B/NONE	SO	SAIA-SB31-25	N	Methylene Chloride	6.2	6.2 JB	6.2 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB31-35	N	1,1,2-Trichloro-1,2,2-trifluoroethane	5.6	1.0 J	1.0 J	UG/KG	TR

AUTOMATED DATA REVIEW SUMMARY for Y9EF4

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8260B/NONE	SO	SAIA-SB31-35	N	Bromomethane	5.6	5.6 JB	5.6 UJ	UG/KG	B1/B5/C11
SW8260B/NONE	SO	SAIA-SB31-35	N	m,p-Xylene	5.6	5.6 JB	5.6 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB31-35	N	Methylene Chloride	5.6	5.6 JB	5.6 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB31-36	FD	Bromomethane	5.4	5.4 JB	5.4 UJ	UG/KG	B1/B5/C11
SW8260B/NONE	SO	SAIA-SB31-36	FD	Methylene Chloride	5.4	5.4 JB	5.4 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB31-5	N	1,2,3-Trichlorobenzene	5.9	5.9 JB	5.9 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB31-5	N	1,2,4-Trichlorobenzene	5.9	5.9 JB	5.9 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB31-5	N	Bromomethane	5.9	5.9 JB	5.9 UJ	UG/KG	B1/B5/C11
SW8260B/NONE	SO	SAIA-SB31-5	N	Methylene Chloride	5.9	5.9 JB	5.9 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB32-0.5	N	1,2,4-Trichlorobenzene	5.6	5.6 JB	5.6 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB32-0.5	N	Bromomethane	5.6	5.6 JB	5.6 UJ	UG/KG	B1/B5/C11
SW8260B/NONE	SO	SAIA-SB32-0.5	N	Methylene Chloride	5.6	5.6 JB	5.6 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB32-2	N	Bromomethane	5.1	5.1 U	5.1 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB32-2	N	Methylene Chloride	5.1	5.1 JB	5.1 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB32-5	N	Bromomethane	5.9	5.9 U	5.9 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB32-5	N	Methylene Chloride	5.9	5.9 JB	5.9 U	UG/KG	B1/B5

AUTOMATED DATA REVIEW SUMMARY for Y9EF4

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8082/NONE	SO	SAIA-SB32-0.5	N	PCB-1254 (Arochlor 1254)	36.0	47.0	47.0 J	UG/KG	S
SW8082/NONE	SO	SAIA-SB32-0.5	N	PCB-1260 (Arochlor 1260)	36.0	12.0 JP	12.0 J	UG/KG	S/TR
SW8082/NONE	SO	SAIA-SB32-2	N	PCB-1254 (Arochlor 1254)	36.0	49.0	49.0 J	UG/KG	S
SW8082/NONE	SO	SAIA-SB32-2	N	PCB-1260 (Arochlor 1260)	36.0	12.0 J	12.0 J	UG/KG	S/TR
SW8082/NONE	SO	SAIA-SB32-5	N	PCB-1254 (Arochlor 1254)	40.0	16.0 JP	16.0 J	UG/KG	S/TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8260B/NONE	SO	SAIA-SB31-35	N	1,1,2-Trichloro-1,2,2-trifluoroethane	5.6	1.0 J	1.0 J	UG/KG	TR

AUTOMATED DATA REVIEW SUMMARY for Y9EF4

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for Y9EJ1

Facility: Southern Avenue Industrial Area

Soil Borings Sampling Event, April 2014

Guidance Document:

Contract Laboratory: KAP TECHNOLOGIES INC., THE WOODLANDS, TX

Field Contractor:

Data Review Contractor: Gilbane

SDG: Y9EJ1, Certified - 5/15/2014 by wtse

QC Level: S1BVEM

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: November 25, 2014

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG Y9EJ1

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
SW8082/NONE	18	2
SW8260B/NONE	18	2
SW8270D/NONE	18	2

AUTOMATED DATA REVIEW SUMMARY for Y9EJ1

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by KAP TECHNOLOGIES INC., THE WOODLANDS, TX and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- Negative Blank
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for Y9EJ1

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 72 results (2.79%) out of the 2580 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Gilbane reviewed the KAP Tech lab report, COCs, case narrative, and EXES data review package.

Qualifiers were added for calibration anomalies (C11), but no sample receipt issues were noted.

Qualifiers were also added for lab blank (B1, B5) detects, poor surrogate recoveries (S), and minor matrix (M) effects.

25-Nov-2014

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for Y9EJ1

Batch Report

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
A44103-1	A44182	NA	SAIA-SB/SG32	SO	SAIA-SB32-25	S-6423.02	A44068-1	1/1	15-Apr-2014 1:40 PM	19-Apr-2014 6:55 PM	26-Apr-2014 10:02 AM	N
	A44182	NA	SAIA-SB/SG32	SO	SAIA-SB32-35	S-6423.03	A44068-1	1/1	15-Apr-2014 1:50 PM	19-Apr-2014 6:55 PM	26-Apr-2014 10:32 AM	N
	A44182	NA	SAIA-SB/SG33	SO	SAIA-SB33-0.5	S-6423.04	A44068-1	1/1	15-Apr-2014 10:40 AM	19-Apr-2014 6:55 PM	26-Apr-2014 11:01 AM	N
	A44182	NA	SAIA-SB/SG33	SO	SAIA-SB33-15	S-6423.07	A44068-1	1/1	15-Apr-2014 11:00 AM	19-Apr-2014 6:55 PM	26-Apr-2014 12:29 PM	N
	A44182	NA	SAIA-SB/SG33	SO	SAIA-SB33-2	S-6423.05	A44068-1	1/1	15-Apr-2014 10:45 AM	19-Apr-2014 6:55 PM	26-Apr-2014 11:31 AM	N
	A44182	NA	SAIA-SB/SG33	SO	SAIA-SB33-25	S-6423.08	A44068-1	1/1	15-Apr-2014 11:10 AM	19-Apr-2014 6:55 PM	26-Apr-2014 12:59 PM	N
	A44182	NA	SAIA-SB/SG33	SO	SAIA-SB33-35	S-6423.09	A44068-1	1/1	15-Apr-2014 11:20 AM	19-Apr-2014 6:55 PM	26-Apr-2014 1:28 PM	N
	A44182	NA	SAIA-SB/SG33	SO	SAIA-SB33-5	S-6423.06	A44068-1	1/1	15-Apr-2014 10:50 AM	19-Apr-2014 6:55 PM	26-Apr-2014 12:00 PM	N
	A44182	NA	SAIA-SB/SG34	SO	SAIA-SB34-0.5	S-6423.10	A44068-1	1/1	15-Apr-2014 2:10 PM	19-Apr-2014 6:55 PM	26-Apr-2014 1:58 PM	N
	A44182	NA	SAIA-SB/SG34	SO	SAIA-SB34-15	S-6423.13	A44068-1	1/1	15-Apr-2014 2:40 PM	19-Apr-2014 6:55 PM	26-Apr-2014 3:26 PM	N
	A44182	NA	SAIA-SB/SG34	SO	SAIA-SB34-16	S-6423.14	A44068-1	1/1	15-Apr-2014 2:45 PM	19-Apr-2014 6:55 PM	26-Apr-2014 3:55 PM	FD
	A44182	NA	SAIA-SB/SG34	SO	SAIA-SB34-2	S-6423.11	A44068-1	1/1	15-Apr-2014 2:15 PM	19-Apr-2014 6:55 PM	26-Apr-2014 2:27 PM	N
	A44182	NA	SAIA-SB/SG34	SO	SAIA-SB34-25	S-6423.15	A44068-1	1/1	15-Apr-2014 2:55 PM	19-Apr-2014 6:55 PM	26-Apr-2014 4:25 PM	N
	A44182	NA	SAIA-SB/SG34	SO	SAIA-SB34-5	S-6423.12	A44068-1	1/1	15-Apr-2014 2:20 PM	19-Apr-2014 6:55 PM	26-Apr-2014 2:56 PM	N
A44103-2	A44182	NA	SAIA-SB/SG32	SO	SAIA-SB32-25	S-6423.02	A44068-2	1/1	15-Apr-2014 1:40 PM	19-Apr-2014 6:55 PM	26-Apr-2014 10:32 AM	N
	A44182	NA	SAIA-SB/SG32	SO	SAIA-SB32-35	S-6423.03	A44068-2	1/1	15-Apr-2014 1:50 PM	19-Apr-2014 6:55 PM	26-Apr-2014 11:01 AM	N
	A44182	NA	SAIA-SB/SG33	SO	SAIA-SB33-0.5	S-6423.04	A44068-2	1/1	15-Apr-2014 10:40 AM	19-Apr-2014 6:55 PM	26-Apr-2014 11:31 AM	N
	A44182	NA	SAIA-SB/SG33	SO	SAIA-SB33-15	S-6423.07	A44068-2	1/1	15-Apr-2014 11:00 AM	19-Apr-2014 6:55 PM	26-Apr-2014 12:59 PM	N
	A44182	NA	SAIA-SB/SG33	SO	SAIA-SB33-2	S-6423.05	A44068-2	1/1	15-Apr-2014 10:45 AM	19-Apr-2014 6:55 PM	26-Apr-2014 12:00 PM	N
	A44182	NA	SAIA-SB/SG33	SO	SAIA-SB33-25	S-6423.08	A44068-2	1/1	15-Apr-2014 11:10 AM	19-Apr-2014 6:55 PM	26-Apr-2014 1:28 PM	N
	A44182	NA	SAIA-SB/SG33	SO	SAIA-SB33-35	S-6423.09	A44068-2	1/1	15-Apr-2014 11:20 AM	19-Apr-2014 6:55 PM	26-Apr-2014 1:58 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9EJ1

Batch Report

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
A44103-2	A44182	NA	SAIA-SB/SG33	SO	SAIA-SB33-5	S-6423.06	A44068-2	1/1	15-Apr-2014 10:50 AM	19-Apr-2014 6:55 PM	26-Apr-2014 12:29 PM	N
	A44182	NA	SAIA-SB/SG34	SO	SAIA-SB34-0.5	S-6423.10	A44068-2	1/1	15-Apr-2014 2:10 PM	19-Apr-2014 6:55 PM	26-Apr-2014 2:27 PM	N
	A44182	NA	SAIA-SB/SG34	SO	SAIA-SB34-15	S-6423.13	A44068-2	1/1	15-Apr-2014 2:40 PM	19-Apr-2014 6:55 PM	26-Apr-2014 3:55 PM	N
	A44182	NA	SAIA-SB/SG34	SO	SAIA-SB34-16	S-6423.14	A44068-2	1/1	15-Apr-2014 2:45 PM	19-Apr-2014 6:55 PM	26-Apr-2014 4:25 PM	FD
	A44182	NA	SAIA-SB/SG34	SO	SAIA-SB34-2	S-6423.11	A44068-2	1/1	15-Apr-2014 2:15 PM	19-Apr-2014 6:55 PM	26-Apr-2014 2:56 PM	N
	A44182	NA	SAIA-SB/SG34	SO	SAIA-SB34-25	S-6423.15	A44068-2	1/1	15-Apr-2014 2:55 PM	19-Apr-2014 6:55 PM	26-Apr-2014 4:54 PM	N
	A44182	NA	SAIA-SB/SG34	SO	SAIA-SB34-5	S-6423.12	A44068-2	1/1	15-Apr-2014 2:20 PM	19-Apr-2014 6:55 PM	26-Apr-2014 3:26 PM	N
A44125-1	A44182	NA	LABQC	SQ	LABQC	ALCS25	A44068-1	1/1	19-Apr-2014 6:55 PM	19-Apr-2014 6:55 PM	26-Apr-2014 9:18 PM	BS
	A44182	NA	SAIA-SB/SG33	SO	SAIA-SB33-5	S-6423.06	A44068-1	1/1	15-Apr-2014 10:50 AM	19-Apr-2014 6:55 PM	26-Apr-2014 8:19 PM	MS
	A44182	NA	SAIA-SB/SG33	SO	SAIA-SB33-5	S-6423.06	A44068-1	1/1	15-Apr-2014 10:50 AM	19-Apr-2014 6:55 PM	26-Apr-2014 8:49 PM	SD
	A44182	NA	SAIA-SB/SG34	SO	SAIA-SB34-35	S-6423.16	A44068-1	1/1	15-Apr-2014 3:05 PM	19-Apr-2014 6:55 PM	26-Apr-2014 5:53 PM	N
A44125-2	A44182	NA	LABQC	SQ	LABQC	ALCS25	A44068-2	1/1	19-Apr-2014 6:55 PM	19-Apr-2014 6:55 PM	26-Apr-2014 9:48 PM	BS
	A44182	NA	SAIA-SB/SG33	SO	SAIA-SB33-5	S-6423.06	A44068-2	1/1	15-Apr-2014 10:50 AM	19-Apr-2014 6:55 PM	26-Apr-2014 8:49 PM	MS
	A44182	NA	SAIA-SB/SG33	SO	SAIA-SB33-5	S-6423.06	A44068-2	1/1	15-Apr-2014 10:50 AM	19-Apr-2014 6:55 PM	26-Apr-2014 9:18 PM	SD
	A44182	NA	SAIA-SB/SG34	SO	SAIA-SB34-35	S-6423.16	A44068-2	1/1	15-Apr-2014 3:05 PM	19-Apr-2014 6:55 PM	26-Apr-2014 6:22 PM	N
A44179-1	A44182	NA	LABQC	SQ	LABQC	ABLK25	A44173-1	1/1	19-Apr-2014 6:55 PM	19-Apr-2014 6:55 PM	28-Apr-2014 4:11 PM	LB
	A44182	NA	SAIA-SB/SG19	SO	SAIA-SB19-0.5	S-6424.01	A44173-1	1/1	16-Apr-2014 7:40 AM	19-Apr-2014 6:55 PM	28-Apr-2014 7:38 PM	N
	A44182	NA	SAIA-SB/SG19	SO	SAIA-SB19-0.6	S-6424.02	A44173-1	1/1	16-Apr-2014 7:45 AM	19-Apr-2014 6:55 PM	28-Apr-2014 8:07 PM	FD
	A44182	NA	SAIA-SB/SG19	SO	SAIA-SB19-2	S-6424.03	A44173-1	1/1	16-Apr-2014 7:50 AM	19-Apr-2014 6:55 PM	28-Apr-2014 8:36 PM	N
	A44182	NA	SAIA-SB/SG19	SO	SAIA-SB19-5	S-6424.04	A44173-1	1/1	16-Apr-2014 7:55 AM	19-Apr-2014 6:55 PM	28-Apr-2014 9:06 PM	N
	A44182	NA	SAIA-SB/SG32	SO	SAIA-SB32-15	S-6423.01	A44173-1	1/1	15-Apr-2014 1:30 PM	19-Apr-2014 6:55 PM	28-Apr-2014 7:08 PM	N
A44179-2	A44182	NA	LABQC	SQ	LABQC	ABLK25	A44173-2	1/1	19-Apr-2014 6:55 PM	19-Apr-2014 6:55 PM	28-Apr-2014 4:41 PM	LB

AUTOMATED DATA REVIEW SUMMARY for Y9EJ1

Batch Report

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
A44179-2	A44182	NA	SAIA-SB/SG19	SO	SAIA-SB19-0.5	S-6424.01	A44173-2	1/1	16-Apr-2014 7:40 AM	19-Apr-2014 6:55 PM	28-Apr-2014 8:07 PM	N
	A44182	NA	SAIA-SB/SG19	SO	SAIA-SB19-0.6	S-6424.02	A44173-2	1/1	16-Apr-2014 7:45 AM	19-Apr-2014 6:55 PM	28-Apr-2014 8:36 PM	FD
	A44182	NA	SAIA-SB/SG19	SO	SAIA-SB19-2	S-6424.03	A44173-2	1/1	16-Apr-2014 7:50 AM	19-Apr-2014 6:55 PM	28-Apr-2014 9:06 PM	N
	A44182	NA	SAIA-SB/SG19	SO	SAIA-SB19-5	S-6424.04	A44173-2	1/1	16-Apr-2014 7:55 AM	19-Apr-2014 6:55 PM	28-Apr-2014 9:35 PM	N
	A44182	NA	SAIA-SB/SG32	SO	SAIA-SB32-15	S-6423.01	A44173-2	1/1	15-Apr-2014 1:30 PM	19-Apr-2014 6:55 PM	28-Apr-2014 7:38 PM	N

Test Method: SW8260B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
A39790	A39792	NA	LABQC	SQ	LABQC	VBLKQK	A39737	1/1	19-Apr-2014 9:32 AM	19-Apr-2014 9:32 AM	19-Apr-2014 9:32 AM	LB
	A39792	NA	SAIA-SB/SG32	SO	SAIA-SB32-15	S-6423.01	A39737	1/1	15-Apr-2014 1:30 PM	19-Apr-2014 5:03 PM	19-Apr-2014 5:03 PM	N
	A39792	NA	SAIA-SB/SG32	SO	SAIA-SB32-25	S-6423.02	A39737	1/1	15-Apr-2014 1:40 PM	19-Apr-2014 5:35 PM	19-Apr-2014 5:35 PM	N
	A39792	NA	SAIA-SB/SG32	SO	SAIA-SB32-35	S-6423.03	A39737	1/1	15-Apr-2014 1:50 PM	19-Apr-2014 3:58 PM	19-Apr-2014 3:58 PM	N
	A39792	NA	SAIA-SB/SG33	SO	SAIA-SB33-0.5	S-6423.04	A39737	1/1	15-Apr-2014 10:40 AM	19-Apr-2014 6:40 PM	19-Apr-2014 6:40 PM	N
A39810	A39813	NA	LABQC	SQ	LABQC	VBLKQM	A39737	1/1	21-Apr-2014 10:27 AM	21-Apr-2014 10:27 AM	21-Apr-2014 10:27 AM	LB
	A39813	NA	SAIA-SB/SG33	SO	SAIA-SB33-15	S-6423.07	A39737	1/1	15-Apr-2014 11:00 AM	21-Apr-2014 12:05 PM	21-Apr-2014 12:05 PM	N
	A39813	NA	SAIA-SB/SG33	SO	SAIA-SB33-2	S-6423.05	A39737	1/1	15-Apr-2014 10:45 AM	21-Apr-2014 11:00 AM	21-Apr-2014 11:00 AM	N
	A39813	NA	SAIA-SB/SG33	SO	SAIA-SB33-25	S-6423.08	A39737	1/1	15-Apr-2014 11:10 AM	21-Apr-2014 12:38 PM	21-Apr-2014 12:38 PM	N
	A39813	NA	SAIA-SB/SG33	SO	SAIA-SB33-35	S-6423.09	A39737	1/1	15-Apr-2014 11:20 AM	21-Apr-2014 1:10 PM	21-Apr-2014 1:10 PM	N
	A39813	NA	SAIA-SB/SG33	SO	SAIA-SB33-5	S-6423.06	A39737	1/1	15-Apr-2014 10:50 AM	21-Apr-2014 11:33 AM	21-Apr-2014 11:33 AM	N
	A39813	NA	SAIA-SB/SG34	SO	SAIA-SB34-0.5	S-6423.10	A39737	1/1	15-Apr-2014 2:10 PM	21-Apr-2014 1:42 PM	21-Apr-2014 1:42 PM	N
	A39813	NA	SAIA-SB/SG34	SO	SAIA-SB34-15	S-6423.13	A39737	1/1	15-Apr-2014 2:40 PM	21-Apr-2014 3:18 PM	21-Apr-2014 3:18 PM	N
	A39813	NA	SAIA-SB/SG34	SO	SAIA-SB34-16	S-6423.14	A39737	1/1	15-Apr-2014 2:45 PM	21-Apr-2014 3:50 PM	21-Apr-2014 3:50 PM	FD

AUTOMATED DATA REVIEW SUMMARY for Y9EJ1

Batch Report

Test Method: SW8260B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
A39810	A39813	NA	SAIA-SB/SG34	SO	SAIA-SB34-2	S-6423.11	A39737	1/1	15-Apr-2014 2:15 PM	21-Apr-2014 2:14 PM	21-Apr-2014 2:14 PM	N
	A39813	NA	SAIA-SB/SG34	SO	SAIA-SB34-35	S-6423.16	A39737	1/1	15-Apr-2014 3:05 PM	21-Apr-2014 4:55 PM	21-Apr-2014 4:55 PM	N
	A39813	NA	SAIA-SB/SG34	SO	SAIA-SB34-5	S-6423.12	A39737	1/1	15-Apr-2014 2:20 PM	21-Apr-2014 2:46 PM	21-Apr-2014 2:46 PM	N
A39833	A39835	NA	LABQC	SQ	LABQC	VBLKQP	A39737	1/1	22-Apr-2014 10:09 AM	22-Apr-2014 10:09 AM	22-Apr-2014 10:09 AM	LB
	A39835	NA	LABQC	SQ	LABQC	S-6423.17	A39737	1/1	22-Apr-2014 2:28 PM	22-Apr-2014 2:28 PM	22-Apr-2014 2:28 PM	LB
	A39835	NA	SAIA-SB/SG19	SO	SAIA-SB19-0.5	S-6424.01	A39737	1/1	16-Apr-2014 7:40 AM	22-Apr-2014 11:14 AM	22-Apr-2014 11:14 AM	N
	A39835	NA	SAIA-SB/SG19	SO	SAIA-SB19-0.6	S-6424.02	A39737	1/1	16-Apr-2014 7:45 AM	22-Apr-2014 11:47 AM	22-Apr-2014 11:47 AM	FD
	A39835	NA	SAIA-SB/SG19	SO	SAIA-SB19-2	S-6424.03	A39737	1/1	16-Apr-2014 7:50 AM	22-Apr-2014 12:19 PM	22-Apr-2014 12:19 PM	N
	A39835	NA	SAIA-SB/SG19	SO	SAIA-SB19-5	S-6424.04	A39737	1/1	16-Apr-2014 7:55 AM	22-Apr-2014 12:51 PM	22-Apr-2014 12:51 PM	N
	A39835	NA	SAIA-SB/SG33	SO	SAIA-SB33-5	S-6423.06MS	A39737	1/1	15-Apr-2014 10:50 AM	22-Apr-2014 1:24 PM	22-Apr-2014 1:24 PM	MS
	A39835	NA	SAIA-SB/SG33	SO	SAIA-SB33-5	S-6423.06MSD	A39737	1/1	15-Apr-2014 10:50 AM	22-Apr-2014 1:55 PM	22-Apr-2014 1:55 PM	SD
	A39835	NA	SAIA-SB/SG34	SO	SAIA-SB34-25	S-6423.15	A39737	1/1	15-Apr-2014 2:55 PM	22-Apr-2014 10:43 AM	22-Apr-2014 10:43 AM	N

Test Method: SW8270D; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
D13317	D13320	NA	LABQC	SQ	LABQC	SBLK99	D13220	1/1	19-Apr-2014 7:45 AM	19-Apr-2014 7:45 AM	28-Apr-2014 4:43 PM	LB
	D13320	NA	SAIA-SB/SG32	SO	SAIA-SB32-15	S-6423.01	D13220	1/1	15-Apr-2014 1:30 PM	19-Apr-2014 7:45 AM	28-Apr-2014 5:10 PM	N
	D13320	NA	SAIA-SB/SG32	SO	SAIA-SB32-25	S-6423.02	D13220	1/1	15-Apr-2014 1:40 PM	19-Apr-2014 7:45 AM	28-Apr-2014 5:36 PM	N
	D13320	NA	SAIA-SB/SG32	SO	SAIA-SB32-35	S-6423.03	D13220	1/1	15-Apr-2014 1:50 PM	19-Apr-2014 7:45 AM	28-Apr-2014 6:02 PM	N
	D13320	NA	SAIA-SB/SG33	SO	SAIA-SB33-0.5	S-6423.04	D13220	1/1	15-Apr-2014 10:40 AM	19-Apr-2014 7:45 AM	28-Apr-2014 6:29 PM	N
	D13320	NA	SAIA-SB/SG33	SO	SAIA-SB33-15	S-6423.07	D13220	1/1	15-Apr-2014 11:00 AM	19-Apr-2014 7:45 AM	28-Apr-2014 7:48 PM	N
	D13320	NA	SAIA-SB/SG33	SO	SAIA-SB33-2	S-6423.05	D13220	1/1	15-Apr-2014 10:45 AM	19-Apr-2014 7:45 AM	28-Apr-2014 6:55 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9EJ1

Batch Report

Test Method: SW8270D; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
D13317	D13320	NA	SAIA-SB/SG33	SO	SAIA-SB33-25	S-6423.08	D13220	1/1	15-Apr-2014 11:10 AM	19-Apr-2014 7:45 AM	28-Apr-2014 8:14 PM	N
	D13320	NA	SAIA-SB/SG33	SO	SAIA-SB33-35	S-6423.09	D13220	1/1	15-Apr-2014 11:20 AM	19-Apr-2014 7:45 AM	28-Apr-2014 8:40 PM	N
	D13320	NA	SAIA-SB/SG33	SO	SAIA-SB33-5	S-6423.06	D13220	1/1	15-Apr-2014 10:50 AM	19-Apr-2014 7:45 AM	28-Apr-2014 7:21 PM	N
	D13320	NA	SAIA-SB/SG34	SO	SAIA-SB34-15	S-6423.13	D13220	1/1	15-Apr-2014 2:40 PM	19-Apr-2014 7:45 AM	28-Apr-2014 9:33 PM	N
	D13320	NA	SAIA-SB/SG34	SO	SAIA-SB34-16	S-6423.14	D13220	1/1	15-Apr-2014 2:45 PM	19-Apr-2014 7:45 AM	28-Apr-2014 10:00 PM	FD
	D13320	NA	SAIA-SB/SG34	SO	SAIA-SB34-25	S-6423.15	D13220	1/1	15-Apr-2014 2:55 PM	19-Apr-2014 7:45 AM	28-Apr-2014 10:26 PM	N
	D13320	NA	SAIA-SB/SG34	SO	SAIA-SB34-35	S-6423.16	D13220	1/1	15-Apr-2014 3:05 PM	19-Apr-2014 7:45 AM	28-Apr-2014 10:52 PM	N
	D13320	NA	SAIA-SB/SG34	SO	SAIA-SB34-5	S-6423.12	D13220	1/1	15-Apr-2014 2:20 PM	19-Apr-2014 7:45 AM	28-Apr-2014 9:07 PM	N
D13373	D13320	NA	SAIA-SB/SG33	SO	SAIA-SB33-5	S-6423.06MS	D13220	1/1	15-Apr-2014 10:50 AM	19-Apr-2014 7:45 AM	29-Apr-2014 8:08 PM	MS
	D13320	NA	SAIA-SB/SG33	SO	SAIA-SB33-5	S-6423.06MSD	D13220	1/1	15-Apr-2014 10:50 AM	19-Apr-2014 7:45 AM	29-Apr-2014 8:35 PM	SD
D13386	D13320	NA	SAIA-SB/SG19	SO	SAIA-SB19-0.5	S-6424.01	D13220	1/1	16-Apr-2014 7:40 AM	19-Apr-2014 7:45 AM	30-Apr-2014 8:44 AM	N
	D13320	NA	SAIA-SB/SG19	SO	SAIA-SB19-0.6	S-6424.02	D13220	1/1	16-Apr-2014 7:45 AM	19-Apr-2014 7:45 AM	30-Apr-2014 9:10 AM	FD
	D13320	NA	SAIA-SB/SG19	SO	SAIA-SB19-2	S-6424.03	D13220	1/1	16-Apr-2014 7:50 AM	19-Apr-2014 7:45 AM	30-Apr-2014 9:36 AM	N
	D13320	NA	SAIA-SB/SG19	SO	SAIA-SB19-5	S-6424.04	D13220	1/1	16-Apr-2014 7:55 AM	19-Apr-2014 7:45 AM	30-Apr-2014 10:02 AM	N
	D13320	NA	SAIA-SB/SG34	SO	SAIA-SB34-0.5	S-6423.10	D13220	1/1	15-Apr-2014 2:10 PM	19-Apr-2014 7:45 AM	30-Apr-2014 10:28 AM	N
	D13320	NA	SAIA-SB/SG34	SO	SAIA-SB34-2	S-6423.11	D13220	1/1	15-Apr-2014 2:15 PM	19-Apr-2014 7:45 AM	30-Apr-2014 8:18 AM	N

AUTOMATED DATA REVIEW SUMMARY for Y9EJ1

Field Batch Report

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for Y9EJ1

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
SW8082 / SW3550B	Surrogate	SAIA-SB34-25 (N)	1 / 1.00	2,4,5,6-Tetrachloro-meta-xylene	165	Percent	J/None	30 - 150	20 - 160	S			
SW8260B / SW5035	Blank	S-6423.17 (LB)	1 / 1.00	Bromomethane	1.30	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	S-6423.17 (LB)	1 / 1.00	Methylene Chloride	1.30	UG/KG	U/None	< 1	< 5	B1			
SW8260B / SW5035	Blank	VBLKQK (LB)	1 / 1.00	1,2,3-Trichlorobenzene	1.10	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQK (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.940	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQK (LB)	1 / 1.00	1,3-Dichlorobenzene	0.510	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQK (LB)	1 / 1.00	Acetone	4.10	UG/KG	U/None	< 0	< 10	B1			
SW8260B / SW5035	Blank	VBLKQK (LB)	1 / 1.00	Bromomethane	1.90	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQK (LB)	1 / 1.00	Ethylbenzene	0.180	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQK (LB)	1 / 1.00	Isopropylbenzene (Cumene)	0.160	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQK (LB)	1 / 1.00	m,p-Xylene	0.300	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQK (LB)	1 / 1.00	Methylene Chloride	1.40	UG/KG	U/None	< 1	< 5	B1			
SW8260B / SW5035	Blank	VBLKQK (LB)	1 / 1.00	o-Xylene	0.170	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQK (LB)	1 / 1.00	Styrene	0.250	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQM (LB)	1 / 1.00	Bromomethane	1.30	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQM (LB)	1 / 1.00	Methylene Chloride	7.40	UG/KG	U/None	< 1	< 5	B1			
SW8260B / SW5035	Blank	VBLKQP (LB)	1 / 1.00	1,2,3-Trichlorobenzene	1.20	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQP (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.960	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQP (LB)	1 / 1.00	1,3-Dichlorobenzene	0.460	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQP (LB)	1 / 1.00	Bromomethane	2.50	UG/KG	U/None	< 2	< 5	B1			
SW8260B / SW5035	Blank	VBLKQP (LB)	1 / 1.00	Methylene Chloride	7.50	UG/KG	U/None	< 1	< 5	B1			
SW8260B / SW5035	Blank	VBLKQP (LB)	1 / 1.00	Toluene	0.790	UG/KG	U/None	< 0	< 5	B1			

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
SW8260B / SW5035	MS Recovery	SAIA-SB33-5 (SD)	1 / 1.00	Benzene	64.4	Percent	J/UJ	76 - 127	76 - 127	M			
SW8260B / SW5035	MS Recovery	SAIA-SB33-5 (MS)	1 / 1.00	Benzene	65.5	Percent	J/UJ	76 - 127	76 - 127	M			
SW8260B / SW5035	MS Recovery	SAIA-SB33-5 (MS)	1 / 1.00	Trichloroethene (TCE)	70.9	Percent	J/UJ	71 - 120	71 - 120	M			
SW8260B / SW5035	Surrogate	SAIA-SB19-0.5 (N)	1 / 1.00	1,1-Dichloroethene-d2	118	Percent	J/None	55 - 104	20 - 104	S			
SW8260B / SW5035	Surrogate	SAIA-SB19-0.5 (N)	1 / 1.00	1,2-Dichloroethane-d4	136	Percent	J/None	78 - 129	20 - 129	S			
SW8260B / SW5035	Surrogate	SAIA-SB19-0.5 (N)	1 / 1.00	Chloroethane-d5	160	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB19-0.5 (N)	1 / 1.00	Chloroform-d	122	Percent	J/None	78 - 121	20 - 121	S			
SW8260B / SW5035	Surrogate	SAIA-SB19-0.5 (N)	1 / 1.00	trans-1,3-Dichloropropene-d4	122	Percent	J/None	73 - 121	20 - 121	S			
SW8260B / SW5035	Surrogate	SAIA-SB19-0.6 (FD)	1 / 1.00	1,1-Dichloroethene-d2	106	Percent	J/None	55 - 104	20 - 104	S			
SW8260B / SW5035	Surrogate	SAIA-SB19-0.6 (FD)	1 / 1.00	Chloroethane-d5	150	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB32-25 (N)	1 / 1.00	1,2-Dichloroethane-d4	132	Percent	J/None	78 - 129	20 - 129	S			
SW8260B / SW5035	Surrogate	SAIA-SB32-25 (N)	1 / 1.00	Chloroethane-d5	150	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB32-35 (N)	1 / 1.00	Chloroethane-d5	144	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB33-0.5 (N)	1 / 1.00	1,1-Dichloroethene-d2	110	Percent	J/None	55 - 104	20 - 104	S			
SW8260B / SW5035	Surrogate	SAIA-SB33-0.5 (N)	1 / 1.00	1,2-Dichloroethane-d4	132	Percent	J/None	78 - 129	20 - 129	S			
SW8260B / SW5035	Surrogate	SAIA-SB33-0.5 (N)	1 / 1.00	Chloroethane-d5	132	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB33-15 (N)	1 / 1.00	Chloroethane-d5	132	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB33-25 (N)	1 / 1.00	Chloroethane-d5	136	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB33-25 (N)	1 / 1.00	Vinyl Chloride-d3	138	Percent	J/None	65 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB33-35 (N)	1 / 1.00	Chloroform-d	76.0	Percent	J/UJ	78 - 121	20 - 121	S			
SW8260B / SW5035	Surrogate	SAIA-SB33-5 (MS)	1 / 1.00	1,1-Dichloroethene-d2	120	Percent	J/None	55 - 104	20 - 104	S			
SW8260B / SW5035	Surrogate	SAIA-SB33-5 (SD)	1 / 1.00	1,1-Dichloroethene-d2	122	Percent	J/None	55 - 104	20 - 104	S			

AUTOMATED DATA REVIEW SUMMARY for Y9EJ1

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
SW8260B / SW5035	Surrogate	SAIA-SB33-5 (SD)	1 / 1.00	Chloroethane-d5	132	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB33-5 (N)	1 / 1.00	Chloroethane-d5	134	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB34-2 (N)	1 / 1.00	2-Butanone-d5	160	Percent	J/None	49 - 155	20 - 155	S			
SW8260B / SW5035	Surrogate	SAIA-SB34-2 (N)	1 / 1.00	2-Hexanone-d5	140	Percent	J/None	28 - 135	20 - 135	S			
SW8260B / SW5035	Surrogate	SAIA-SB34-25 (N)	1 / 1.00	1,1-Dichloroethene-d2	112	Percent	J/None	55 - 104	20 - 104	S			
SW8260B / SW5035	Surrogate	SAIA-SB34-25 (N)	1 / 1.00	1,2-Dichloroethane-d4	138	Percent	J/None	78 - 129	20 - 129	S			
SW8260B / SW5035	Surrogate	SAIA-SB34-25 (N)	1 / 1.00	2-Butanone-d5	160	Percent	J/None	49 - 155	20 - 155	S			
SW8260B / SW5035	Surrogate	SAIA-SB34-25 (N)	1 / 1.00	Chloroethane-d5	140	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB34-25 (N)	1 / 1.00	Chloroform-d	126	Percent	J/None	78 - 121	20 - 121	S			
SW8260B / SW5035	Surrogate	SAIA-SB34-25 (N)	1 / 1.00	trans-1,3-Dichloropropene-d4	122	Percent	J/None	73 - 121	20 - 121	S			
SW8270D / SW3550B	MS Recovery	SAIA-SB33-5 (SD)	1 / 1.00	4-Nitrophenol	158	PERCENT	J/None	60 - 140	55 - 145	M			
SW8270D / SW3550B	MS Recovery	SAIA-SB33-5 (MS)	1 / 1.00	4-Nitrophenol	171	PERCENT	J/None	60 - 140	55 - 145	M			

AUTOMATED DATA REVIEW SUMMARY for Y9EJ1

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8082/NONE	SO	SAIA-SB19-0.5	N	PCB-1254 (Arochlor 1254)	34.0	30.0 J	30.0 J	UG/KG	TR
SW8082/NONE	SO	SAIA-SB19-0.5	N	PCB-1260 (Arochlor 1260)	34.0	11.0 JP	11.0 J	UG/KG	TR
SW8082/NONE	SO	SAIA-SB19-0.6	FD	PCB-1254 (Arochlor 1254)	34.0	26.0 J	26.0 J	UG/KG	TR
SW8082/NONE	SO	SAIA-SB19-0.6	FD	PCB-1260 (Arochlor 1260)	34.0	11.0 JP	11.0 J	UG/KG	TR
SW8082/NONE	SO	SAIA-SB19-2	N	PCB-1254 (Arochlor 1254)	35.0	13.0 J	13.0 J	UG/KG	TR
SW8082/NONE	SO	SAIA-SB32-15	N	PCB-1254 (Arochlor 1254)	35.0	20.0 JP	20.0 J	UG/KG	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8260B/NONE	SO	SAIA-SB19-0.5	N	1,1-Dichloroethene	5.5	5.5 U	5.5 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB19-0.5	N	Bromomethane	5.5	5.5 JB	5.5 UJ	UG/KG	C11/B1/B5
SW8260B/NONE	SO	SAIA-SB19-0.5	N	Methylene Chloride	5.5	5.5 JB	5.5 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB19-0.6	FD	1,1-Dichloroethene	6.1	6.1 U	6.1 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB19-0.6	FD	Bromomethane	6.1	6.1 JB	6.1 UJ	UG/KG	C11/B1/B5
SW8260B/NONE	SO	SAIA-SB19-0.6	FD	Methylene Chloride	6.1	6.1 JB	6.1 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB19-2	N	1,1-Dichloroethene	5.4	5.4 U	5.4 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB19-2	N	Benzene	5.4	0.62 J	0.62 J	UG/KG	TR
SW8260B/NONE	SO	SAIA-SB19-2	N	Bromomethane	5.4	5.4 JB	5.4 UJ	UG/KG	C11/B1/B5
SW8260B/NONE	SO	SAIA-SB19-2	N	Methylene Chloride	5.4	5.4 JB	5.4 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB19-5	N	1,1-Dichloroethene	5.0	5.0 U	5.0 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB19-5	N	Bromomethane	5.0	5.0 JB	5.0 UJ	UG/KG	C11/B1/B5
SW8260B/NONE	SO	SAIA-SB19-5	N	Methylene Chloride	5.0	5.0 JB	5.0 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB32-15	N	1,1-Dichloroethene	5.3	5.3 U	5.3 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB32-15	N	1,2,3-Trichlorobenzene	5.3	5.3 JB	5.3 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB32-15	N	1,2,4-Trichlorobenzene	5.3	5.3 JB	5.3 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB32-15	N	Bromomethane	5.3	5.3 JB	5.3 UJ	UG/KG	C11/B1/B5
SW8260B/NONE	SO	SAIA-SB32-15	N	Methylene Chloride	5.3	5.3 JB	5.3 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB32-25	N	1,1-Dichloroethene	5.5	5.5 U	5.5 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB32-25	N	Bromomethane	5.5	5.5 JB	5.5 UJ	UG/KG	C11/B1/B5

AUTOMATED DATA REVIEW SUMMARY for Y9EJ1

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8260B/NONE	SO	SAIA-SB32-25	N	Methylene Chloride	5.5	5.5 JB	5.5 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB32-35	N	1,1-Dichloroethene	5.1	5.1 U	5.1 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB32-35	N	Bromomethane	5.1	5.1 U	5.1 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB32-35	N	Methylene Chloride	5.1	5.1 JB	5.1 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB33-0.5	N	1,1-Dichloroethene	5.6	5.6 U	5.6 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB33-0.5	N	Bromomethane	5.6	5.6 JB	5.6 UJ	UG/KG	C11/B1/B5
SW8260B/NONE	SO	SAIA-SB33-0.5	N	Methylene Chloride	5.6	5.6 JB	5.6 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB33-15	N	1,1-Dichloroethene	5.3	5.3 U	5.3 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB33-15	N	Bromomethane	5.3	5.3 U	5.3 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB33-15	N	Methylene Chloride	5.3	5.3 B	5.3 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB33-2	N	1,1-Dichloroethene	5.5	5.5 U	5.5 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB33-2	N	Bromomethane	5.5	5.5 JB	5.5 UJ	UG/KG	C11/B1/B5
SW8260B/NONE	SO	SAIA-SB33-2	N	Methylene Chloride	5.5	5.5 B	5.5 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB33-25	N	1,1-Dichloroethene	6.4	6.4 U	6.4 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB33-25	N	Bromomethane	6.4	6.4 JB	6.4 UJ	UG/KG	C11/B1/B5
SW8260B/NONE	SO	SAIA-SB33-25	N	Methylene Chloride	6.4	6.4 JB	6.4 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB33-35	N	1,1-Dichloroethane	5.1	5.1 U	5.1 UJ	UG/KG	S
SW8260B/NONE	SO	SAIA-SB33-35	N	1,1-Dichloroethene	5.1	5.1 U	5.1 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB33-35	N	Bromochloromethane	5.1	5.1 U	5.1 UJ	UG/KG	S
SW8260B/NONE	SO	SAIA-SB33-35	N	Bromoform	5.1	5.1 U	5.1 UJ	UG/KG	S
SW8260B/NONE	SO	SAIA-SB33-35	N	Bromomethane	5.1	5.1 JB	5.1 UJ	UG/KG	C11/B1/B5
SW8260B/NONE	SO	SAIA-SB33-35	N	Chloroform	5.1	10.0	10.0 J	UG/KG	S
SW8260B/NONE	SO	SAIA-SB33-35	N	Dibromochloromethane	5.1	5.1 U	5.1 UJ	UG/KG	S
SW8260B/NONE	SO	SAIA-SB33-35	N	Methylene Chloride	5.1	5.1 JB	5.1 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB33-5	N	1,1-Dichloroethene	5.6	5.6 U	5.6 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB33-5	N	1,4-Dioxane (p-Dioxane)	110	110 U	110 UJ	UG/KG	S
SW8260B/NONE	SO	SAIA-SB33-5	N	Benzene	5.6	5.6 U	5.6 UJ	UG/KG	M

AUTOMATED DATA REVIEW SUMMARY for Y9EJ1

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8260B/NONE	SO	SAIA-SB33-5	N	Bromomethane	5.6	5.6 JB	5.6 UJ	UG/KG	C11/B1/B5
SW8260B/NONE	SO	SAIA-SB33-5	N	Chloroform	5.6	7.6	7.6 J	UG/KG	S
SW8260B/NONE	SO	SAIA-SB33-5	N	Methylene Chloride	5.6	5.6 B	5.6 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB33-5	N	Trichloroethene (TCE)	5.6	5.6 U	5.6 UJ	UG/KG	M
SW8260B/NONE	SO	SAIA-SB34-0.5	N	1,1-Dichloroethene	5.0	5.0 U	5.0 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB34-0.5	N	Bromomethane	5.0	5.0 JB	5.0 UJ	UG/KG	C11/B1/B5
SW8260B/NONE	SO	SAIA-SB34-0.5	N	Methylene Chloride	5.0	5.0 JB	5.0 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB34-15	N	1,1-Dichloroethene	5.1	5.1 U	5.1 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB34-15	N	Bromomethane	5.1	5.1 U	5.1 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB34-15	N	Methylene Chloride	5.1	5.1 B	5.1 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB34-16	FD	1,1-Dichloroethene	5.6	5.6 U	5.6 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB34-16	FD	Bromomethane	5.6	5.6 U	5.6 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB34-16	FD	Methylene Chloride	5.6	5.6 JB	5.6 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB34-2	N	1,1-Dichloroethene	6.2	6.2 U	6.2 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB34-2	N	Bromomethane	6.2	6.2 U	6.2 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB34-2	N	Methylene Chloride	6.2	6.2 B	6.2 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB34-25	N	1,1-Dichloroethene	6.1	6.1 U	6.1 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB34-25	N	Bromomethane	6.1	6.1 JB	6.1 UJ	UG/KG	C11/B1/B5
SW8260B/NONE	SO	SAIA-SB34-25	N	Methylene Chloride	6.1	6.1 JB	6.1 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB34-35	N	1,1-Dichloroethene	5.4	5.4 U	5.4 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB34-35	N	Bromomethane	5.4	5.4 U	5.4 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB34-35	N	Methylene Chloride	5.4	5.4 JB	5.4 U	UG/KG	B1/B5
SW8260B/NONE	SO	SAIA-SB34-5	N	1,1-Dichloroethene	5.5	5.5 U	5.5 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB34-5	N	Bromomethane	5.5	5.5 U	5.5 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB34-5	N	Methylene Chloride	5.5	5.5 B	5.5 U	UG/KG	B1/B5
Test Leach	**Matrix**	**FieldSample ID**	**Type**	**Analyte**	**RL**	**Lab Result**	**Qualified Result**	**Units**	**Reason**
SW8270D/NONE	SO	SAIA-SB19-0.6	FD	Di-n-Butyl Phthalate	170	84.0 J	84.0 J	UG/KG	TR

AUTOMATED DATA REVIEW SUMMARY for Y9EJ1

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8270D/NONE	SO	SAIA-SB19-2	N	Di-n-Butyl Phthalate	180	100 J	100 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB19-5	N	Di-n-Butyl Phthalate	170	99.0 J	99.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB33-0.5	N	Benzo(a)pyrene	180	88.0 J	88.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB33-0.5	N	Benzo(k)fluoranthene	180	80.0 J	80.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB33-0.5	N	Chrysene	180	110 J	110 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB33-0.5	N	Fluoranthene	180	80.0 J	80.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB33-0.5	N	Pyrene	180	94.0 J	94.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB33-25	N	Naphthalene	210	150 J	150 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB33-5	N	Pentachlorophenol	370	370 U	370 UJ	UG/KG	C11
SW8270D/NONE	SO	SAIA-SB34-0.5	N	Benzo(a)pyrene	170	81.0 J	81.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB34-0.5	N	Benzo(k)fluoranthene	170	73.0 J	73.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB34-0.5	N	Chrysene	170	100 J	100 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB34-0.5	N	Fluoranthene	170	71.0 J	71.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB34-0.5	N	Pyrene	170	81.0 J	81.0 J	UG/KG	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8082/NONE	SO	SAIA-SB19-0.5	N	PCB-1254 (Arochlor 1254)	34.0	30.0 J	30.0 J	UG/KG	TR
SW8082/NONE	SO	SAIA-SB19-0.5	N	PCB-1260 (Arochlor 1260)	34.0	11.0 JP	11.0 J	UG/KG	TR
SW8082/NONE	SO	SAIA-SB19-0.6	FD	PCB-1254 (Arochlor 1254)	34.0	26.0 J	26.0 J	UG/KG	TR
SW8082/NONE	SO	SAIA-SB19-0.6	FD	PCB-1260 (Arochlor 1260)	34.0	11.0 JP	11.0 J	UG/KG	TR
SW8082/NONE	SO	SAIA-SB19-2	N	PCB-1254 (Arochlor 1254)	35.0	13.0 J	13.0 J	UG/KG	TR
SW8082/NONE	SO	SAIA-SB32-15	N	PCB-1254 (Arochlor 1254)	35.0	20.0 JP	20.0 J	UG/KG	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8260B/NONE	SO	SAIA-SB19-2	N	Benzene	5.4	0.62 J	0.62 J	UG/KG	TR
SW8260B/NONE	SO	SAIA-SB32-15	N	Chloroform	5.3	13.0	13.0	UG/KG	
SW8260B/NONE	SO	SAIA-SB33-35	N	Chloroform	5.1	10.0	10.0 J	UG/KG	S
SW8260B/NONE	SO	SAIA-SB33-5	N	Chloroform	5.6	7.6	7.6 J	UG/KG	S
SW8260B/NONE	SO	SAIA-SB34-0.5	N	Chloroform	5.0	8.7	8.7	UG/KG	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8270D/NONE	SO	SAIA-SB19-0.6	FD	Di-n-Butyl Phthalate	170	84.0 J	84.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB19-2	N	Di-n-Butyl Phthalate	180	100 J	100 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB19-5	N	Di-n-Butyl Phthalate	170	99.0 J	99.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB32-25	N	bis(2-Ethylhexyl) Phthalate	200	340	340	UG/KG	
SW8270D/NONE	SO	SAIA-SB33-0.5	N	Benzo(a)pyrene	180	88.0 J	88.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB33-0.5	N	Benzo(k)fluoranthene	180	80.0 J	80.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB33-0.5	N	Chrysene	180	110 J	110 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB33-0.5	N	Fluoranthene	180	80.0 J	80.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB33-0.5	N	Pyrene	180	94.0 J	94.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB33-25	N	2-Methylnaphthalene	210	590	590	UG/KG	
SW8270D/NONE	SO	SAIA-SB33-25	N	Naphthalene	210	150 J	150 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB34-0.5	N	Benzo(a)pyrene	170	81.0 J	81.0 J	UG/KG	TR

AUTOMATED DATA REVIEW SUMMARY for Y9EJ1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8270D/NONE	SO	SAIA-SB34-0.5	N	Benzo(k)fluoranthene	170	73.0 J	73.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB34-0.5	N	Chrysene	170	100 J	100 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB34-0.5	N	Fluoranthene	170	71.0 J	71.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB34-0.5	N	Pyrene	170	81.0 J	81.0 J	UG/KG	TR

AUTOMATED DATA REVIEW SUMMARY for Y9EJ1

Rejected Results

--No Records Found--

Facility:	Southern Avenue Industrial Area
Event:	
Guidance Document:	
Contract Laboratory:	BONNER ANALYTICAL TESTING COMPANY, HATTIESBURY, MS
Field Contractor:	
Data Review Contractor:	Gilbane
SDG:	MYAB41, Certified - 5/30/2017 by wtse
QC Level:	S2BVEM
Project Manager:	Don Gruber
Data Reviewer:	Thomas Beer
Data Reviewer Title:	Project Chemist
Date of Review Report:	June 21, 2017
Second Reviewer:	
Completion Date of Second Reviewer:	June 22, 2017

Analytical Method/ Leach Method	Field QC Water Samples
E200.7/NONE	1
SW7470A/NONE	1

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by BONNER ANALYTICAL TESTING COMPANY, HATTIESBURY, MS and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

Blank
Blank - Negative
Equipment Blank
LCS Recovery
Prep Hold Time
Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

Ambient Blank
Calibration Blank
Calibration Blank - Negative
Continuing Calibration Verification
Field Blank
Field Duplicate
Initial Calibration Verification
Lab Replicate RPD
Material Blank
MS Recovery
MS RPD
Negative Blank
Surrogate
Trip Blank

A representative sampling or ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 8 results (34.78%) out of the 23 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. Trace values are not counted as qualified results in the above count. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked Bonner Lab report, EXES QC summary, COC as received, and lab EDD.

Analytical Method	Comment
E200.7	Sample MYAB41 is the equipment blank for this soil sampling event. All results by E200.7 (and SW7470A) are reported as NDs, so no data qualification is warranted in the associated soil samples.
SW7470A	Only one mercury ND result generated. No data qualification required. See E200.7 comments for data review details.

June 21, 2017

Reviewed by Thomas Beer, Project Chemist

Qualified Results

Test Method: E200.7	Extraction Method: METHOD		Leach Method: NONE		Matrix: WQ			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-ER01-0417	EB	Aluminum	200	200 J	200 U		ug/L	B5
SAIA-ER01-0417	EB	Calcium	5000	5000 J	5000 U		ug/L	B5
SAIA-ER01-0417	EB	Copper	25.0	25.0 J	25.0 U		ug/L	B5
SAIA-ER01-0417	EB	Iron	100	100 J	100 U		ug/L	B5
SAIA-ER01-0417	EB	Magnesium	5000	5000 J	5000 U		ug/L	B5
SAIA-ER01-0417	EB	Potassium	5000	5000 U	5000 U		ug/L	B1
SAIA-ER01-0417	EB	Sodium	5000	5000 J	5000 U		ug/L	B5
SAIA-ER01-0417	EB	Zinc	60.0	60.0 J	60.0 U		ug/L	B5

Reason Code Definitions

Code	Definition
B1	The analyte was found in an associated method blank.
B5	The analyte was found in an associated blank as well as in the sample.
TR	Trace Level Detect

Flag Code and Definitions

Flag	Definition
J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

Facility:	Southern Avenue Industrial Area
Event:	
Guidance Document:	
Contract Laboratory:	BONNER ANALYTICAL TESTING COMPANY, HATTIESBURY, MS
Field Contractor:	
Data Review Contractor:	Gilbane
SDG:	MYAB27, Certified - 5/26/2017 by wtse
QC Level:	S2BVEM
Project Manager:	Don Gruber
Data Reviewer:	Thomas Beer
Data Reviewer Title:	Project Chemist
Date of Review Report:	June 22, 2017
Second Reviewer:	
Completion Date of Second Reviewer:	

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
E200.7/NONE	12	2
SW7471B/NONE	12	2

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by BONNER ANALYTICAL TESTING COMPANY, HATTIESBURY, MS and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

Blank
Blank - Negative
Field Duplicate
Lab Replicate RPD
LCS Recovery
MS Recovery
Prep Hold Time
Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

Ambient Blank
Calibration Blank
Calibration Blank - Negative
Continuing Calibration Verification
Equipment Blank
Field Blank
Initial Calibration Verification
Material Blank
MS RPD
Negative Blank
Surrogate
Trip Blank

A representative sampling or ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 59 results (18.32%) out of the 322 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. Trace values are not counted as qualified results in the above count. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked Bonner Lab report, EXES QC summary, COC as received, and lab EDD.

Analytical Method	Comment
E200.7	14 soil samples for CLP ICP-AES Metals + Hg
SW7471B	14 soil samples for mercury by SW7471B. No data qualification required. See E200.7 comments for other sample shipping and data review details.

June 22, 2017

Reviewed by Thomas Beer, Project Chemist

Qualified Results

Test Method: E200.7	Extraction Method: METHOD		Leach Method: NONE		Matrix: SO			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB46-0.5	N	Antimony	6.5	1.7 J*	1.7 J	-	mg/kg	M/TR
SAIA-SB46-0.5	N	Beryllium	0.54	0.54 J*	0.54 U		mg/kg	B2/B5
SAIA-SB46-0.5	N	Copper	2.7	33.3 *	33.3 J	+	mg/kg	M
SAIA-SB46-0.5	N	Sodium	539	539 J	539 U		mg/kg	B2
SAIA-SB46-0.6	FD	Antimony	6.5	1.6 J*	1.6 J	-	mg/kg	M/TR
SAIA-SB46-0.6	FD	Beryllium	0.54	0.54 J*	0.54 U		mg/kg	B2/B5
SAIA-SB46-0.6	FD	Copper	2.7	28.8 *	28.8 J	+	mg/kg	M
SAIA-SB46-0.6	FD	Selenium	3.8	0.38 J	0.38 J		mg/kg	TR
SAIA-SB46-0.6	FD	Sodium	543	543 J	543 U		mg/kg	B2
SAIA-SB46-15	N	Antimony	7.7	0.57 J*	0.57 J	-	mg/kg	TR/M
SAIA-SB46-15	N	Cadmium	0.64	0.64 J	0.64 U		mg/kg	B2
SAIA-SB46-15	N	Copper	3.2	30.7 *	30.7 J	+	mg/kg	M
SAIA-SB46-15	N	Selenium	4.5	0.71 J	0.71 J		mg/kg	TR
SAIA-SB46-2	N	Antimony	7.2	0.55 J*	0.55 J	-	mg/kg	TR/M
SAIA-SB46-2	N	Beryllium	0.60	0.60 J*	0.60 U		mg/kg	B2/B5
SAIA-SB46-2	N	Cadmium	0.60	0.60 J	0.60 U		mg/kg	B2
SAIA-SB46-2	N	Copper	3.0	16.0 *	16.0 J	+	mg/kg	M
SAIA-SB46-2	N	Sodium	599	599 J	599 U		mg/kg	B2
SAIA-SB46-25	N	Antimony	7.8	0.50 J*	0.50 J	-	mg/kg	TR/M
SAIA-SB46-25	N	Cadmium	0.65	0.65 U	0.65 U		mg/kg	B2
SAIA-SB46-25	N	Copper	3.2	40.7 *	40.7 J	+	mg/kg	M
SAIA-SB46-35	N	Antimony	7.5	0.52 J*	0.52 J	-	mg/kg	TR/M
SAIA-SB46-35	N	Cadmium	0.62	0.62 J	0.62 U		mg/kg	B2
SAIA-SB46-35	N	Copper	3.1	29.9 *	29.9 J	+	mg/kg	M
SAIA-SB46-5	N	Antimony	6.8	0.36 J*	0.36 J	-	mg/kg	TR/M
SAIA-SB46-5	N	Beryllium	0.57	0.57 J*	0.57 U		mg/kg	B2/B5
SAIA-SB46-5	N	Cadmium	0.57	0.57 J	0.57 U		mg/kg	B2
SAIA-SB46-5	N	Copper	2.8	15.0 *	15.0 J	+	mg/kg	M
SAIA-SB46-5	N	Selenium	4.0	0.49 J	0.49 J		mg/kg	TR
SAIA-SB46-5	N	Sodium	569	569 J	569 U		mg/kg	B2
SAIA-SB47-0.5	N	Antimony	6.5	1.4 J*	1.4 J	-	mg/kg	TR/M
SAIA-SB47-0.5	N	Beryllium	0.55	0.55 J*	0.55 U		mg/kg	B2/B5
SAIA-SB47-0.5	N	Copper	2.7	55.7 *	55.7 J	+	mg/kg	M
SAIA-SB47-0.5	N	Selenium	3.8	0.52 J	0.52 J		mg/kg	TR
SAIA-SB47-0.5	N	Sodium	546	546 J	546 U		mg/kg	B2
SAIA-SB47-15	N	Antimony	7.3	0.36 J*	0.36 J	-	mg/kg	TR/M
SAIA-SB47-15	N	Beryllium	0.61	0.61 J*	0.61 U		mg/kg	B2/B5
SAIA-SB47-15	N	Cadmium	0.61	0.61 J	0.61 U		mg/kg	B2
SAIA-SB47-15	N	Copper	3.0	18.2 *	18.2 J	+	mg/kg	M
SAIA-SB47-15	N	Selenium	4.2	0.44 J	0.44 J		mg/kg	TR
SAIA-SB47-2	N	Antimony	6.7	0.51 J*	0.51 J	-	mg/kg	TR/M

Qualified Results

Test Method: E200.7	Extraction Method: METHOD		Leach Method: NONE		Matrix: SO			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB47-2	N	Arsenic	1.1	0.93 J	0.93 J		mg/kg	TR
SAIA-SB47-2	N	Beryllium	0.56	0.56 J*	0.56 U		mg/kg	B2/B5
SAIA-SB47-2	N	Cadmium	0.56	0.56 J	0.56 U		mg/kg	B2
SAIA-SB47-2	N	Copper	2.8	13.9 *	13.9 J	+	mg/kg	M
SAIA-SB47-2	N	Lead	1.1	8.0	8.0 J		mg/kg	D5
SAIA-SB47-2	N	Selenium	3.9	0.45 J	0.45 J		mg/kg	TR
SAIA-SB47-2	N	Sodium	559	559 J	559 U		mg/kg	B2
SAIA-SB47-25	N	Antimony	8.0	0.53 J*	0.53 J	-	mg/kg	TR/M
SAIA-SB47-25	N	Cadmium	0.67	0.67 J	0.67 U		mg/kg	B2
SAIA-SB47-25	N	Copper	3.3	42.1 *	42.1 J	+	mg/kg	M
SAIA-SB47-25	N	Selenium	4.7	0.65 J	0.65 J		mg/kg	TR
SAIA-SB47-3	FD	Antimony	7.0	0.38 J*	0.38 J	-	mg/kg	TR/M
SAIA-SB47-3	FD	Beryllium	0.58	0.58 J*	0.58 U		mg/kg	B2/B5
SAIA-SB47-3	FD	Cadmium	0.58	0.58 J	0.58 U		mg/kg	B2
SAIA-SB47-3	FD	Copper	2.9	15.8 *	15.8 J	+	mg/kg	M
SAIA-SB47-3	FD	Lead	1.2	19.1	19.1 J		mg/kg	D5
SAIA-SB47-3	FD	Sodium	580	580 J	580 U		mg/kg	B2
SAIA-SB47-35	N	Antimony	7.9	0.37 J*	0.37 J	-	mg/kg	TR/M
SAIA-SB47-35	N	Cadmium	0.66	0.66 U	0.66 U		mg/kg	B2
SAIA-SB47-35	N	Copper	3.3	28.5 *	28.5 J	+	mg/kg	M
SAIA-SB47-35	N	Selenium	4.6	3.0 J	3.0 J		mg/kg	TR
SAIA-SB47-35	N	Sodium	661	661 J	661 U		mg/kg	B2
SAIA-SB47-5	N	Antimony	6.7	0.35 J*	0.35 J	-	mg/kg	TR/M
SAIA-SB47-5	N	Beryllium	0.56	0.56 J*	0.56 U		mg/kg	B2/B5
SAIA-SB47-5	N	Cadmium	0.56	0.56 J	0.56 U		mg/kg	B2
SAIA-SB47-5	N	Copper	2.8	16.4 *	16.4 J	+	mg/kg	M
SAIA-SB47-5	N	Sodium	560	560 J	560 U		mg/kg	B2

Test Method: SW7471B	Extraction Method: METHOD		Leach Method: NONE		Matrix: SO			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB46-0.5	N	Mercury	0.11	0.082 J	0.082 J		mg/kg	TR
SAIA-SB46-0.6	FD	Mercury	0.11	0.087 J	0.087 J		mg/kg	TR
SAIA-SB46-15	N	Mercury	0.13	0.064 J	0.064 J		mg/kg	TR
SAIA-SB46-2	N	Mercury	0.12	0.053 J	0.053 J		mg/kg	TR
SAIA-SB46-25	N	Mercury	0.13	0.048 J	0.048 J		mg/kg	TR
SAIA-SB46-5	N	Mercury	0.11	0.046 J	0.046 J		mg/kg	TR
SAIA-SB47-0.5	N	Mercury	0.11	0.064 J	0.064 J		mg/kg	TR
SAIA-SB47-15	N	Mercury	0.12	0.052 J	0.052 J		mg/kg	TR
SAIA-SB47-2	N	Mercury	0.11	0.032 J	0.032 J		mg/kg	TR
SAIA-SB47-3	FD	Mercury	0.12	0.045 J	0.045 J		mg/kg	TR

Qualified Results

Test Method: SW7471B	Extraction Method: METHOD		Leach Method: NONE		Matrix: SO			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB47-35	N	Mercury	0.13	0.082 J	0.082 J		mg/kg	TR
SAIA-SB47-5	N	Mercury	0.11	0.040 J	0.040 J		mg/kg	TR

Reason Code Definitions

Code	Definition
B1	The analyte was found in an associated method blank.
B2	Calibration Blank
B5	The analyte was found in an associated blank as well as in the sample.
D1	Lab Replicate RPD
D5	Field duplicate precision
M	Matrix spike recovery was outside established criteria.
TR	Trace Level Detect

Flag Code and Definitions

Flag	Definition
J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

Facility:	Southern Avenue Industrial Area
Event:	
Guidance Document:	
Contract Laboratory:	CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ
Field Contractor:	
Data Review Contractor:	Gilbane
SDG:	YAB34, Certified - 6/1/2017 by wtse
QC Level:	S2BVEM
Project Manager:	Don Gruber
Data Reviewer:	Thomas Beer
Data Reviewer Title:	Project Chemist
Date of Review Report:	June 23, 2017
Second Reviewer:	
Completion Date of Second Reviewer:	

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples	Field QC Water Samples
CSVOL12/NONE	6	1	1
CVOL/NONE	6	1	1
SW8082/NONE	6	1	1

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Equipment Blank
- Field Duplicate
- LCS Recovery
- Prep Hold Time
- Surrogate
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- MS Recovery
- MS RPD
- Negative Blank
- Trip Blank

A representative sampling or ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 37 results (3.59%) out of the 1032 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. Trace values are not counted as qualified results in the above count. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked Chemtech Lab report, EXES QC summary, COC as received, and lab EDD.

Analytical Method	Comment
CSVOL12	7 soil samples and 1 equipment blank for SOM02.4 SVOCs.
CVOL	7 soil samples and 1 equipment blank for SOM02.4 CVOL analysis.
SW8082	7 soil samples and 1 equipment blank for SOM02.4 CLP Aroclors analysis.

June 23, 2017

Reviewed by Thomas Beer, Project Chemist

Qualified Results

Test Method: CSVOL12	Extraction Method: SW3520		Leach Method: NONE		Matrix: WQ			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-ER01-0417	EB	3,3'-Dichlorobenzidine	10.0	10.0 U	10.0 UJ	-	ug/L	S
SAIA-ER01-0417	EB	4-Chloroaniline	10.0	10.0 U	10.0 UJ	-	ug/L	S
SAIA-ER01-0417	EB	Acetophenone	10.0	1.6 J	1.6 J		ug/L	TR
SAIA-ER01-0417	EB	Diethyl Phthalate	5.2	1.7 J	1.7 J		ug/L	TR
SAIA-ER01-0417	EB	Hexachlorocyclopentadiene	10.0	10.0 U	10.0 UJ	-	ug/L	S

Test Method: CSVOL12	Extraction Method: SW3550B		Leach Method: NONE		Matrix: SO			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB47-0.5	N	1,4-Dioxane (p-Dioxane)	73.0	73.0 U	73.0 UJ	-	ug/kg	S
SAIA-SB47-0.5	N	Acenaphthene	180	42.0 J	42.0 J		ug/kg	TR
SAIA-SB47-0.5	N	Anthracene	180	78.0 J	78.0 J		ug/kg	TR
SAIA-SB47-0.5	N	Benzo(g,h,i)perylene	180	110 J	110 J		ug/kg	TR
SAIA-SB47-0.5	N	Carbazole	360	83.0 J	83.0 J		ug/kg	TR
SAIA-SB47-0.5	N	Dibenz(a,h)anthracene	180	43.0 J	43.0 J		ug/kg	TR
SAIA-SB47-0.5	N	Dibenzofuran	180	69.0 J	69.0 J		ug/kg	TR
SAIA-SB47-0.5	N	Fluorene	180	94.0 J	94.0 J		ug/kg	TR
SAIA-SB47-0.5	N	Indeno(1,2,3-c,d)pyrene	180	130 J	130 J		ug/kg	TR
SAIA-SB47-0.5	N	Naphthalene	180	66.0 J	66.0 J		ug/kg	TR
SAIA-SB47-0.5	N	Phenol	360	43.0 J	43.0 J		ug/kg	TR
SAIA-SB47-15	N	Phenol	410	97.0 J	97.0 J		ug/kg	TR
SAIA-SB47-2	N	Phenol	360	67.0 J	67.0 J		ug/kg	TR
SAIA-SB47-25	N	Phenol	430	100 J	100 J		ug/kg	TR
SAIA-SB47-3	FD	Phenol	370	65.0 J	65.0 J		ug/kg	TR
SAIA-SB47-35	N	Phenol	430	120 J	120 J		ug/kg	TR
SAIA-SB47-5	N	Phenol	380	78.0 J	78.0 J		ug/kg	TR

Test Method: CVOL	Extraction Method: METHOD		Leach Method: NONE		Matrix: SO			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB47-0.5	N	1,2,3-Trichlorobenzene	6.5	6.5 U	6.5 UJ		ug/kg	S
SAIA-SB47-0.5	N	1,2,4-Trichlorobenzene	6.5	6.5 U	6.5 UJ		ug/kg	S
SAIA-SB47-0.5	N	1,2-Dichlorobenzene	6.5	6.5 U	6.5 UJ		ug/kg	S
SAIA-SB47-0.5	N	1,3-Dichlorobenzene	6.5	6.5 U	6.5 UJ		ug/kg	S
SAIA-SB47-0.5	N	1,4-Dichlorobenzene	6.5	6.5 U	6.5 UJ		ug/kg	S
SAIA-SB47-0.5	N	Chlorobenzene	6.5	6.5 U	6.5 UJ		ug/kg	S
SAIA-SB47-2	N	1,2,3-Trichlorobenzene	5.9	5.9 U	5.9 UJ		ug/kg	S
SAIA-SB47-2	N	1,2,4-Trichlorobenzene	5.9	5.9 U	5.9 UJ		ug/kg	S
SAIA-SB47-2	N	1,2-Dichlorobenzene	5.9	5.9 U	5.9 UJ		ug/kg	S
SAIA-SB47-2	N	1,3-Dichlorobenzene	5.9	5.9 U	5.9 UJ		ug/kg	S

Qualified Results

Test Method: CVOL	Extraction Method: METHOD		Leach Method: NONE		Matrix: SO			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB47-2	N	1,4-Dichlorobenzene	5.9	5.9 U	5.9 UJ		ug/kg	S
SAIA-SB47-2	N	Chlorobenzene	5.9	5.9 U	5.9 UJ		ug/kg	S
SAIA-SB47-3	FD	1,1,1-Trichloroethane	7.0	7.0 U	7.0 UJ		ug/kg	S
SAIA-SB47-3	FD	1,1,2-Trichloro-1,2,2-trifluoroethane	7.0	7.0 U	7.0 UJ		ug/kg	S
SAIA-SB47-3	FD	1,2,3-Trichlorobenzene	7.0	7.0 U	7.0 UJ		ug/kg	S
SAIA-SB47-3	FD	1,2,4-Trichlorobenzene	7.0	7.0 U	7.0 UJ		ug/kg	S
SAIA-SB47-3	FD	1,2-Dibromoethane (EDB)	7.0	7.0 U	7.0 UJ		ug/kg	S
SAIA-SB47-3	FD	1,2-Dichlorobenzene	7.0	7.0 U	7.0 UJ		ug/kg	S
SAIA-SB47-3	FD	1,3-Dichlorobenzene	7.0	7.0 U	7.0 UJ		ug/kg	S
SAIA-SB47-3	FD	1,4-Dichlorobenzene	7.0	7.0 U	7.0 UJ		ug/kg	S
SAIA-SB47-3	FD	Carbon Tetrachloride	7.0	7.0 U	7.0 UJ		ug/kg	S
SAIA-SB47-3	FD	Chlorobenzene	7.0	7.0 U	7.0 UJ		ug/kg	S
SAIA-SB47-3	FD	Methyl Acetate	7.0	7.0 U	7.0 UJ		ug/kg	S
SAIA-SB47-3	FD	Methylene Chloride	7.0	7.0 U	7.0 UJ		ug/kg	S
SAIA-SB47-3	FD	tert-Butyl Methyl Ether (MTBE)	7.0	7.0 U	7.0 UJ		ug/kg	S
SAIA-SB47-3	FD	Trichlorofluoromethane	7.0	7.0 U	7.0 UJ		ug/kg	S
SAIA-SB47-5	N	1,2,3-Trichlorobenzene	9.3	9.3 U	9.3 UJ		ug/kg	S
SAIA-SB47-5	N	1,2,4-Trichlorobenzene	9.3	9.3 U	9.3 UJ		ug/kg	S
SAIA-SB47-5	N	1,2-Dichlorobenzene	9.3	9.3 U	9.3 UJ		ug/kg	S
SAIA-SB47-5	N	1,3-Dichlorobenzene	9.3	9.3 U	9.3 UJ		ug/kg	S
SAIA-SB47-5	N	1,4-Dichlorobenzene	9.3	9.3 U	9.3 UJ		ug/kg	S
SAIA-SB47-5	N	Chlorobenzene	9.3	9.3 U	9.3 UJ		ug/kg	S
SAIA-SB47-5	N	Methylene Chloride	9.3	9.3 J	9.3 U		ug/kg	B1

Test Method: SW8082	Extraction Method: SW3540C		Leach Method: NONE		Matrix: SO			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB47-0.5	N	PCB-1260 (Arochlor 1260)	36.0	27.0 JP	27.0 J		ug/kg	TR

Reason Code Definitions

Code	Definition
B1	The analyte was found in an associated method blank.
K1	Detected in the associated equipment rinsate blank.
S	Surrogate recovery out of criteria (upper or lower limit)
TR	Trace Level Detect

Flag Code and Definitions

Flag	Definition
J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

Automated Data Review Detail Report for MYAB27
Southern Avenue Industrial Area

Batch Report

Test Method: E200.7 Analysis Batch: B719020_IS

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	SQ	LABQC	-BLK	BE71111050	1/1	5/4/2017 09:30	5/4/2017 09:30	5/9/2017 10:40	RE03014/	LB
LABQC	SQ	LABQC	-BS	BE71111050	1/1	5/4/2017 09:30	5/4/2017 09:30	5/9/2017 10:44	RE03014/	BS
SAIA-SB/SG46	SO	SAIA-SB46-0.5	7050025-01	BE71111050	1/1	4/26/2017 08:00	5/4/2017 09:30	5/9/2017 10:48	RE03014/	N
SAIA-SB/SG46	SO	SAIA-SB46-0.5	MYAB27-MS	BE71111050	1/1	4/26/2017 08:00	5/4/2017 09:30	5/9/2017 10:52	RE03014/	MS
SAIA-SB/SG46	SO	SAIA-SB46-0.5	MYAB27-DUP	BE71111050	1/1	4/26/2017 08:00	5/4/2017 09:30	5/9/2017 10:56	RE03014/	LR
SAIA-SB/SG46	SO	SAIA-SB46-0.6	7050025-02	BE71111050	1/1	4/26/2017 08:05	5/4/2017 09:30	5/9/2017 11:05	RE03014/	FD
SAIA-SB/SG46	SO	SAIA-SB46-2	7050025-03	BE71111050	1/1	4/26/2017 08:15	5/4/2017 09:30	5/9/2017 11:09	RE03014/	N
SAIA-SB/SG46	SO	SAIA-SB46-5	7050025-04	BE71111050	1/1	4/26/2017 08:20	5/4/2017 09:30	5/9/2017 11:13	RE03014/	N
SAIA-SB/SG46	SO	SAIA-SB46-15	7050025-05	BE71111050	1/1	4/26/2017 08:25	5/4/2017 09:30	5/9/2017 11:17	RE03014/	N
SAIA-SB/SG46	SO	SAIA-SB46-25	7050025-06	BE71111050	1/1	4/26/2017 08:35	5/4/2017 09:30	5/9/2017 11:21	RE03014/	N
SAIA-SB/SG46	SO	SAIA-SB46-35	7050025-07	BE71111050	1/1	4/26/2017 08:40	5/4/2017 09:30	5/9/2017 11:26	RE03014/	N
SAIA-SB/SG47	SO	SAIA-SB47-0.5	7050025-08	BE71111050	1/1	4/26/2017 10:35	5/4/2017 09:30	5/9/2017 11:30	RE03014/	N
SAIA-SB/SG47	SO	SAIA-SB47-2	7050025-09	BE71111050	1/1	4/26/2017 10:40	5/4/2017 09:30	5/9/2017 11:34	RE03014/	N
SAIA-SB/SG47	SO	SAIA-SB47-3	7050025-10	BE71111050	1/1	4/26/2017 10:45	5/4/2017 09:30	5/9/2017 11:38	RE03014/	FD
SAIA-SB/SG47	SO	SAIA-SB47-5	7050025-11	BE71111050	1/1	4/26/2017 10:50	5/4/2017 09:30	5/9/2017 11:42	RE03014/	N
SAIA-SB/SG47	SO	SAIA-SB47-15	7050025-12	BE71111050	1/1	4/26/2017 10:55	5/4/2017 09:30	5/9/2017 11:46	RE03014/	N
SAIA-SB/SG47	SO	SAIA-SB47-25	7050025-13	BE71111050	1/1	4/26/2017 11:00	5/4/2017 09:30	5/9/2017 11:51	RE03014/	N

Batch Report

Test Method: E200.7 Analysis Batch: B719020_IS

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
SAIA-SB/SG47	SO	SAIA-SB47-35	7050025-14	BE71111050	1/1	4/26/2017 11:05	5/4/2017 09:30	5/9/2017 11:55	RE03014/	N

Test Method: SW7471B Analysis Batch: B719023_IS

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	SQ	LABQC	-BLK	BE71114H05	1/1	5/8/2017 08:00	5/8/2017 08:00	5/8/2017 15:25	RE03013/	LB
SAIA-SB/SG46	SO	SAIA-SB46-0.5	7050025-01	BE71114H05	1/1	4/26/2017 08:00	5/8/2017 08:00	5/8/2017 15:28	RE03013/	N
SAIA-SB/SG46	SO	SAIA-SB46-0.5	MYAB27-MS	BE71114H05	1/1	4/26/2017 08:00	5/8/2017 08:00	5/8/2017 15:30	RE03013/	MS
SAIA-SB/SG46	SO	SAIA-SB46-0.5	MYAB27-DUP	BE71114H05	1/1	4/26/2017 08:00	5/8/2017 08:00	5/8/2017 15:33	RE03013/	LR
SAIA-SB/SG46	SO	SAIA-SB46-0.6	7050025-02	BE71114H05	1/1	4/26/2017 08:05	5/8/2017 08:00	5/8/2017 15:35	RE03013/	FD
SAIA-SB/SG46	SO	SAIA-SB46-2	7050025-03	BE71114H05	1/1	4/26/2017 08:15	5/8/2017 08:00	5/8/2017 15:37	RE03013/	N
SAIA-SB/SG46	SO	SAIA-SB46-5	7050025-04	BE71114H05	1/1	4/26/2017 08:20	5/8/2017 08:00	5/8/2017 15:40	RE03013/	N
SAIA-SB/SG46	SO	SAIA-SB46-15	7050025-05	BE71114H05	1/1	4/26/2017 08:25	5/8/2017 08:00	5/8/2017 15:42	RE03013/	N
SAIA-SB/SG46	SO	SAIA-SB46-25	7050025-06	BE71114H05	1/1	4/26/2017 08:35	5/8/2017 08:00	5/8/2017 15:44	RE03013/	N
SAIA-SB/SG46	SO	SAIA-SB46-35	7050025-07	BE71114H05	1/1	4/26/2017 08:40	5/8/2017 08:00	5/8/2017 15:47	RE03013/	N
SAIA-SB/SG47	SO	SAIA-SB47-0.5	7050025-08	BE71114H05	1/1	4/26/2017 10:35	5/8/2017 08:00	5/8/2017 15:49	RE03013/	N

Batch Report

Test Method: SW7471B Analysis Batch: B719023_IS

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
SAIA-SB/SG47	SO	SAIA-SB47-2	7050025-09	BE71114H05	1/1	4/26/2017 10:40	5/8/2017 08:00	5/8/2017 15:51	RE03013/	N
SAIA-SB/SG47	SO	SAIA-SB47-3	7050025-10	BE71114H05	1/1	4/26/2017 10:45	5/8/2017 08:00	5/8/2017 15:54	RE03013/	FD
SAIA-SB/SG47	SO	SAIA-SB47-5	7050025-11	BE71114H05	1/1	4/26/2017 10:50	5/8/2017 08:00	5/8/2017 15:56	RE03013/	N
SAIA-SB/SG47	SO	SAIA-SB47-15	7050025-12	BE71114H05	1/1	4/26/2017 10:55	5/8/2017 08:00	5/8/2017 15:59	RE03013/	N
SAIA-SB/SG47	SO	SAIA-SB47-25	7050025-13	BE71114H05	1/1	4/26/2017 11:00	5/8/2017 08:00	5/8/2017 16:01	RE03013/	N
SAIA-SB/SG47	SO	SAIA-SB47-35	7050025-14	BE71114H05	1/1	4/26/2017 11:05	5/8/2017 08:00	5/8/2017 16:03	RE03013/	N

Field Batch Report

--No Records Found--

MS Mismatch Report

--No Records Found--

Section to identify Matrix Spike mismatches where parent sample differs from MS by dilution.

QC Outlier Report

Test Method: E200.7 Extraction Method: METHOD Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
Blank	-BLK (LB) / -BLK	1 / 1.00	Beryllium	0.00220 (mg/kg)	*U/None	< 0.002	< 0.5	B1		10	0.0220
Blank	-BLK (LB) / -BLK	1 / 1.00	Potassium	5.30 (mg/kg)	*U/None	< 2.3	< 500	B1		10	53.0
Field Duplicate	7050025-02 (N) / 7050025-02	1 / 1.00	Selenium	200 (rpd)	J/None	< 50	< 100	D5			
Field Duplicate	7050025-10 (N) / 7050025-10	1 / 1.00	Lead	81.9 (rpd)	J/None	< 50	< 100	D5			
Field Duplicate	7050025-10 (N) / 7050025-10	1 / 1.00	Selenium	200 (rpd)	J/None	< 50	< 100	D5			
Lab Replicate RPD	MYAB27-DUP (LR) / MYAB27-DUP	1 / 1.00	Beryllium	200 (rpd)	J/UJ	< 20	< 40	D1			
Lab Replicate RPD	MYAB27-DUP (LR) / MYAB27-DUP	1 / 1.00	Copper	34.9 (rpd)	J/UJ	< 20	< 40	D1			
Lab Replicate RPD	MYAB27-DUP (LR) / MYAB27-DUP	1 / 1.00	Selenium	200 (rpd)	J/UJ	< 20	< 40	D1			
Lab Replicate RPD	MYAB27-DUP (LR) / MYAB27-DUP	1 / 1.00	Sodium	200 (rpd)	J/UJ	< 20	< 40	D1			
MS Recovery	SAIA-SB46-0.5 (MS) / MYAB27-MS	1 / 1.00	Antimony	19.5 (percent)	J/R	75 - 125	50 - 140	M			
MS Recovery	SAIA-SB46-0.5 (MS) / MYAB27-MS	1 / 1.00	Copper	153 (percent)	J/None	75 - 125	50 - 140	M			
MS Recovery	SAIA-SB46-0.5 (MS) / MYAB27-MS	1 / 1.00	Lead	394 (percent)	J/None	75 - 125	50 - 140	M	Spike amount Insignificant	4.00	

Rule is the multiplier used when blank contamination occurs to determine action level.

Qualified Results

Test Method: E200.7 Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB46-0.5	7050025-01	SO	N	Antimony	6.5	1.7 J*	1.7 J	-	mg/kg	M/TR
SAIA-SB46-0.5	7050025-01	SO	N	Beryllium	0.54	0.54 J*	0.54 U		mg/kg	B2/B5
SAIA-SB46-0.5	7050025-01	SO	N	Copper	2.7	33.3 *	33.3 J	+	mg/kg	M
SAIA-SB46-0.5	7050025-01	SO	N	Sodium	539	539 J	539 U		mg/kg	B2
SAIA-SB46-0.6	7050025-02	SO	FD	Antimony	6.5	1.6 J*	1.6 J	-	mg/kg	M/TR
SAIA-SB46-0.6	7050025-02	SO	FD	Beryllium	0.54	0.54 J*	0.54 U		mg/kg	B2/B5
SAIA-SB46-0.6	7050025-02	SO	FD	Copper	2.7	28.8 *	28.8 J	+	mg/kg	M
SAIA-SB46-0.6	7050025-02	SO	FD	Selenium	3.8	0.38 J	0.38 J		mg/kg	TR
SAIA-SB46-0.6	7050025-02	SO	FD	Sodium	543	543 J	543 U		mg/kg	B2
SAIA-SB46-15	7050025-05	SO	N	Antimony	7.7	0.57 J*	0.57 J	-	mg/kg	TR/M
SAIA-SB46-15	7050025-05	SO	N	Cadmium	0.64	0.64 J	0.64 U		mg/kg	B2
SAIA-SB46-15	7050025-05	SO	N	Copper	3.2	30.7 *	30.7 J	+	mg/kg	M
SAIA-SB46-15	7050025-05	SO	N	Selenium	4.5	0.71 J	0.71 J		mg/kg	TR
SAIA-SB46-2	7050025-03	SO	N	Antimony	7.2	0.55 J*	0.55 J	-	mg/kg	TR/M
SAIA-SB46-2	7050025-03	SO	N	Beryllium	0.60	0.60 J*	0.60 U		mg/kg	B2/B5
SAIA-SB46-2	7050025-03	SO	N	Cadmium	0.60	0.60 J	0.60 U		mg/kg	B2
SAIA-SB46-2	7050025-03	SO	N	Copper	3.0	16.0 *	16.0 J	+	mg/kg	M
SAIA-SB46-2	7050025-03	SO	N	Sodium	599	599 J	599 U		mg/kg	B2
SAIA-SB46-25	7050025-06	SO	N	Antimony	7.8	0.50 J*	0.50 J	-	mg/kg	TR/M
SAIA-SB46-25	7050025-06	SO	N	Cadmium	0.65	0.65 U	0.65 U		mg/kg	B2
SAIA-SB46-25	7050025-06	SO	N	Copper	3.2	40.7 *	40.7 J	+	mg/kg	M
SAIA-SB46-35	7050025-07	SO	N	Antimony	7.5	0.52 J*	0.52 J	-	mg/kg	TR/M
SAIA-SB46-35	7050025-07	SO	N	Cadmium	0.62	0.62 J	0.62 U		mg/kg	B2
SAIA-SB46-35	7050025-07	SO	N	Copper	3.1	29.9 *	29.9 J	+	mg/kg	M
SAIA-SB46-5	7050025-04	SO	N	Antimony	6.8	0.36 J*	0.36 J	-	mg/kg	TR/M
SAIA-SB46-5	7050025-04	SO	N	Beryllium	0.57	0.57 J*	0.57 U		mg/kg	B2/B5
SAIA-SB46-5	7050025-04	SO	N	Cadmium	0.57	0.57 J	0.57 U		mg/kg	B2

Qualified Results

Test Method: E200.7 Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB46-5	7050025-04	SO	N	Copper	2.8	15.0 *	15.0 J	+	mg/kg	M
SAIA-SB46-5	7050025-04	SO	N	Selenium	4.0	0.49 J	0.49 J		mg/kg	TR
SAIA-SB46-5	7050025-04	SO	N	Sodium	569	569 J	569 U		mg/kg	B2
SAIA-SB47-0.5	7050025-08	SO	N	Antimony	6.5	1.4 J*	1.4 J	-	mg/kg	TR/M
SAIA-SB47-0.5	7050025-08	SO	N	Beryllium	0.55	0.55 J*	0.55 U		mg/kg	B2/B5
SAIA-SB47-0.5	7050025-08	SO	N	Copper	2.7	55.7 *	55.7 J	+	mg/kg	M
SAIA-SB47-0.5	7050025-08	SO	N	Selenium	3.8	0.52 J	0.52 J		mg/kg	TR
SAIA-SB47-0.5	7050025-08	SO	N	Sodium	546	546 J	546 U		mg/kg	B2
SAIA-SB47-15	7050025-12	SO	N	Antimony	7.3	0.36 J*	0.36 J	-	mg/kg	TR/M
SAIA-SB47-15	7050025-12	SO	N	Beryllium	0.61	0.61 J*	0.61 U		mg/kg	B2/B5
SAIA-SB47-15	7050025-12	SO	N	Cadmium	0.61	0.61 J	0.61 U		mg/kg	B2
SAIA-SB47-15	7050025-12	SO	N	Copper	3.0	18.2 *	18.2 J	+	mg/kg	M
SAIA-SB47-15	7050025-12	SO	N	Selenium	4.2	0.44 J	0.44 J		mg/kg	TR
SAIA-SB47-2	7050025-09	SO	N	Antimony	6.7	0.51 J*	0.51 J	-	mg/kg	TR/M
SAIA-SB47-2	7050025-09	SO	N	Arsenic	1.1	0.93 J	0.93 J		mg/kg	TR
SAIA-SB47-2	7050025-09	SO	N	Beryllium	0.56	0.56 J*	0.56 U		mg/kg	B2/B5
SAIA-SB47-2	7050025-09	SO	N	Cadmium	0.56	0.56 J	0.56 U		mg/kg	B2
SAIA-SB47-2	7050025-09	SO	N	Copper	2.8	13.9 *	13.9 J	+	mg/kg	M
SAIA-SB47-2	7050025-09	SO	N	Lead	1.1	8.0	8.0 J		mg/kg	D5
SAIA-SB47-2	7050025-09	SO	N	Selenium	3.9	0.45 J	0.45 J		mg/kg	TR
SAIA-SB47-2	7050025-09	SO	N	Sodium	559	559 J	559 U		mg/kg	B2
SAIA-SB47-25	7050025-13	SO	N	Antimony	8.0	0.53 J*	0.53 J	-	mg/kg	TR/M
SAIA-SB47-25	7050025-13	SO	N	Cadmium	0.67	0.67 J	0.67 U		mg/kg	B2
SAIA-SB47-25	7050025-13	SO	N	Copper	3.3	42.1 *	42.1 J	+	mg/kg	M
SAIA-SB47-25	7050025-13	SO	N	Selenium	4.7	0.65 J	0.65 J		mg/kg	TR
SAIA-SB47-3	7050025-10	SO	FD	Antimony	7.0	0.38 J*	0.38 J	-	mg/kg	TR/M
SAIA-SB47-3	7050025-10	SO	FD	Beryllium	0.58	0.58 J*	0.58 U		mg/kg	B2/B5

Qualified Results

Test Method: E200.7 Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB47-3	7050025-10	SO	FD	Cadmium	0.58	0.58 J	0.58 U		mg/kg	B2
SAIA-SB47-3	7050025-10	SO	FD	Copper	2.9	15.8 *	15.8 J	+	mg/kg	M
SAIA-SB47-3	7050025-10	SO	FD	Lead	1.2	19.1	19.1 J		mg/kg	D5
SAIA-SB47-3	7050025-10	SO	FD	Sodium	580	580 J	580 U		mg/kg	B2
SAIA-SB47-35	7050025-14	SO	N	Antimony	7.9	0.37 J*	0.37 J	-	mg/kg	TR/M
SAIA-SB47-35	7050025-14	SO	N	Cadmium	0.66	0.66 U	0.66 U		mg/kg	B2
SAIA-SB47-35	7050025-14	SO	N	Copper	3.3	28.5 *	28.5 J	+	mg/kg	M
SAIA-SB47-35	7050025-14	SO	N	Selenium	4.6	3.0 J	3.0 J		mg/kg	TR
SAIA-SB47-35	7050025-14	SO	N	Sodium	661	661 J	661 U		mg/kg	B2
SAIA-SB47-5	7050025-11	SO	N	Antimony	6.7	0.35 J*	0.35 J	-	mg/kg	TR/M
SAIA-SB47-5	7050025-11	SO	N	Beryllium	0.56	0.56 J*	0.56 U		mg/kg	B2/B5
SAIA-SB47-5	7050025-11	SO	N	Cadmium	0.56	0.56 J	0.56 U		mg/kg	B2
SAIA-SB47-5	7050025-11	SO	N	Copper	2.8	16.4 *	16.4 J	+	mg/kg	M
SAIA-SB47-5	7050025-11	SO	N	Sodium	560	560 J	560 U		mg/kg	B2

Test Method: SW7471B Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB46-0.5	7050025-01	SO	N	Mercury	0.11	0.082 J	0.082 J		mg/kg	TR
SAIA-SB46-0.6	7050025-02	SO	FD	Mercury	0.11	0.087 J	0.087 J		mg/kg	TR
SAIA-SB46-15	7050025-05	SO	N	Mercury	0.13	0.064 J	0.064 J		mg/kg	TR
SAIA-SB46-2	7050025-03	SO	N	Mercury	0.12	0.053 J	0.053 J		mg/kg	TR
SAIA-SB46-25	7050025-06	SO	N	Mercury	0.13	0.048 J	0.048 J		mg/kg	TR
SAIA-SB46-5	7050025-04	SO	N	Mercury	0.11	0.046 J	0.046 J		mg/kg	TR
SAIA-SB47-0.5	7050025-08	SO	N	Mercury	0.11	0.064 J	0.064 J		mg/kg	TR
SAIA-SB47-15	7050025-12	SO	N	Mercury	0.12	0.052 J	0.052 J		mg/kg	TR
SAIA-SB47-2	7050025-09	SO	N	Mercury	0.11	0.032 J	0.032 J		mg/kg	TR

Qualified Results

Test Method: SW7471B Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB47-3	7050025-10	SO	FD	Mercury	0.12	0.045 J	0.045 J		mg/kg	TR
SAIA-SB47-35	7050025-14	SO	N	Mercury	0.13	0.082 J	0.082 J		mg/kg	TR
SAIA-SB47-5	7050025-11	SO	N	Mercury	0.11	0.040 J	0.040 J		mg/kg	TR

Detected Results

Test Method: E200.7 Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SAIA-SB46-0.5	7050025-01	SO	N	1	Aluminum	21.6	11200	11200	mg/kg	
SAIA-SB46-0.5	7050025-01	SO	N	1	Antimony	6.5	1.7 J*	1.7 J	mg/kg	M/TR
SAIA-SB46-0.5	7050025-01	SO	N	1	Arsenic	1.1	4.1	4.1	mg/kg	
SAIA-SB46-0.5	7050025-01	SO	N	1	Barium	21.6	117	117	mg/kg	
SAIA-SB46-0.5	7050025-01	SO	N	1	Cadmium	0.54	1.4	1.4	mg/kg	
SAIA-SB46-0.5	7050025-01	SO	N	1	Calcium	539	7930	7930	mg/kg	
SAIA-SB46-0.5	7050025-01	SO	N	1	Chromium	1.1	22.4	22.4	mg/kg	
SAIA-SB46-0.5	7050025-01	SO	N	1	Cobalt	5.4	9.7	9.7	mg/kg	
SAIA-SB46-0.5	7050025-01	SO	N	1	Copper	2.7	33.3 *	33.3 J	mg/kg	M
SAIA-SB46-0.5	7050025-01	SO	N	1	Iron	10.8	21900	21900	mg/kg	
SAIA-SB46-0.5	7050025-01	SO	N	1	Lead	1.1	305	305	mg/kg	
SAIA-SB46-0.5	7050025-01	SO	N	1	Magnesium	539	5660	5660	mg/kg	
SAIA-SB46-0.5	7050025-01	SO	N	1	Manganese	1.6	484	484	mg/kg	
SAIA-SB46-0.5	7050025-01	SO	N	1	Nickel	4.3	21.3	21.3	mg/kg	
SAIA-SB46-0.5	7050025-01	SO	N	1	Potassium	539	3040	3040	mg/kg	
SAIA-SB46-0.5	7050025-01	SO	N	1	Vanadium	5.4	37.5	37.5	mg/kg	
SAIA-SB46-0.5	7050025-01	SO	N	1	Zinc	6.5	306	306	mg/kg	
SAIA-SB46-0.6	7050025-02	SO	FD	1	Aluminum	21.7	10400	10400	mg/kg	
SAIA-SB46-0.6	7050025-02	SO	FD	1	Antimony	6.5	1.6 J*	1.6 J	mg/kg	M/TR
SAIA-SB46-0.6	7050025-02	SO	FD	1	Arsenic	1.1	3.7	3.7	mg/kg	
SAIA-SB46-0.6	7050025-02	SO	FD	1	Barium	21.7	103	103	mg/kg	
SAIA-SB46-0.6	7050025-02	SO	FD	1	Cadmium	0.54	1.1	1.1	mg/kg	
SAIA-SB46-0.6	7050025-02	SO	FD	1	Calcium	543	6700	6700	mg/kg	
SAIA-SB46-0.6	7050025-02	SO	FD	1	Chromium	1.1	19.6	19.6	mg/kg	
SAIA-SB46-0.6	7050025-02	SO	FD	1	Cobalt	5.4	10.2	10.2	mg/kg	
SAIA-SB46-0.6	7050025-02	SO	FD	1	Copper	2.7	28.8 *	28.8 J	mg/kg	M
SAIA-SB46-0.6	7050025-02	SO	FD	1	Iron	10.9	21300	21300	mg/kg	

Detected Results

Test Method: E200.7 Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SAIA-SB46-0.6	7050025-02	SO	FD	1	Lead	1.1	243	243	mg/kg	
SAIA-SB46-0.6	7050025-02	SO	FD	1	Magnesium	543	5440	5440	mg/kg	
SAIA-SB46-0.6	7050025-02	SO	FD	1	Manganese	1.6	388	388	mg/kg	
SAIA-SB46-0.6	7050025-02	SO	FD	1	Nickel	4.3	17.8	17.8	mg/kg	
SAIA-SB46-0.6	7050025-02	SO	FD	1	Potassium	543	2870	2870	mg/kg	
SAIA-SB46-0.6	7050025-02	SO	FD	1	Selenium	3.8	0.38 J	0.38 J	mg/kg	TR
SAIA-SB46-0.6	7050025-02	SO	FD	1	Vanadium	5.4	35.2	35.2	mg/kg	
SAIA-SB46-0.6	7050025-02	SO	FD	1	Zinc	6.5	245	245	mg/kg	
SAIA-SB46-15	7050025-05	SO	N	1	Aluminum	25.8	25000	25000	mg/kg	
SAIA-SB46-15	7050025-05	SO	N	1	Antimony	7.7	0.57 J*	0.57 J	mg/kg	TR/M
SAIA-SB46-15	7050025-05	SO	N	1	Arsenic	1.3	3.7	3.7	mg/kg	
SAIA-SB46-15	7050025-05	SO	N	1	Barium	25.8	173	173	mg/kg	
SAIA-SB46-15	7050025-05	SO	N	1	Beryllium	0.64	0.69 *	0.69	mg/kg	
SAIA-SB46-15	7050025-05	SO	N	1	Calcium	644	15000	15000	mg/kg	
SAIA-SB46-15	7050025-05	SO	N	1	Chromium	1.3	28.7	28.7	mg/kg	
SAIA-SB46-15	7050025-05	SO	N	1	Cobalt	6.4	16.1	16.1	mg/kg	
SAIA-SB46-15	7050025-05	SO	N	1	Copper	3.2	30.7 *	30.7 J	mg/kg	M
SAIA-SB46-15	7050025-05	SO	N	1	Iron	12.9	30300	30300	mg/kg	
SAIA-SB46-15	7050025-05	SO	N	1	Lead	1.3	6.7	6.7	mg/kg	
SAIA-SB46-15	7050025-05	SO	N	1	Magnesium	644	11100	11100	mg/kg	
SAIA-SB46-15	7050025-05	SO	N	1	Manganese	1.9	522	522	mg/kg	
SAIA-SB46-15	7050025-05	SO	N	1	Nickel	5.2	20.9	20.9	mg/kg	
SAIA-SB46-15	7050025-05	SO	N	1	Potassium	644	5280	5280	mg/kg	
SAIA-SB46-15	7050025-05	SO	N	1	Selenium	4.5	0.71 J	0.71 J	mg/kg	TR
SAIA-SB46-15	7050025-05	SO	N	1	Sodium	644	921	921	mg/kg	
SAIA-SB46-15	7050025-05	SO	N	1	Vanadium	6.4	62.9	62.9	mg/kg	
SAIA-SB46-15	7050025-05	SO	N	1	Zinc	7.7	93.7	93.7	mg/kg	

Detected Results

Test Method: E200.7 Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SAIA-SB46-2	7050025-03	SO	N	1	Aluminum	24.0	15000	15000	mg/kg	
SAIA-SB46-2	7050025-03	SO	N	1	Antimony	7.2	0.55 J*	0.55 J	mg/kg	TR/M
SAIA-SB46-2	7050025-03	SO	N	1	Arsenic	1.2	1.3	1.3	mg/kg	
SAIA-SB46-2	7050025-03	SO	N	1	Barium	24.0	127	127	mg/kg	
SAIA-SB46-2	7050025-03	SO	N	1	Calcium	599	9840	9840	mg/kg	
SAIA-SB46-2	7050025-03	SO	N	1	Chromium	1.2	18.7	18.7	mg/kg	
SAIA-SB46-2	7050025-03	SO	N	1	Cobalt	6.0	12.1	12.1	mg/kg	
SAIA-SB46-2	7050025-03	SO	N	1	Copper	3.0	16.0 *	16.0 J	mg/kg	M
SAIA-SB46-2	7050025-03	SO	N	1	Iron	12.0	23100	23100	mg/kg	
SAIA-SB46-2	7050025-03	SO	N	1	Lead	1.2	8.3	8.3	mg/kg	
SAIA-SB46-2	7050025-03	SO	N	1	Magnesium	599	7730	7730	mg/kg	
SAIA-SB46-2	7050025-03	SO	N	1	Manganese	1.8	381	381	mg/kg	
SAIA-SB46-2	7050025-03	SO	N	1	Nickel	4.8	12.9	12.9	mg/kg	
SAIA-SB46-2	7050025-03	SO	N	1	Potassium	599	4510	4510	mg/kg	
SAIA-SB46-2	7050025-03	SO	N	1	Vanadium	6.0	44.9	44.9	mg/kg	
SAIA-SB46-2	7050025-03	SO	N	1	Zinc	7.2	68.9	68.9	mg/kg	
SAIA-SB46-25	7050025-06	SO	N	1	Aluminum	26.0	32600	32600	mg/kg	
SAIA-SB46-25	7050025-06	SO	N	1	Antimony	7.8	0.50 J*	0.50 J	mg/kg	TR/M
SAIA-SB46-25	7050025-06	SO	N	1	Arsenic	1.3	9.5	9.5	mg/kg	
SAIA-SB46-25	7050025-06	SO	N	1	Barium	26.0	218	218	mg/kg	
SAIA-SB46-25	7050025-06	SO	N	1	Beryllium	0.65	0.89 *	0.89	mg/kg	
SAIA-SB46-25	7050025-06	SO	N	1	Calcium	650	13400	13400	mg/kg	
SAIA-SB46-25	7050025-06	SO	N	1	Chromium	1.3	35.5	35.5	mg/kg	
SAIA-SB46-25	7050025-06	SO	N	1	Cobalt	6.5	20.7	20.7	mg/kg	
SAIA-SB46-25	7050025-06	SO	N	1	Copper	3.2	40.7 *	40.7 J	mg/kg	M
SAIA-SB46-25	7050025-06	SO	N	1	Iron	13.0	38400	38400	mg/kg	
SAIA-SB46-25	7050025-06	SO	N	1	Lead	1.3	8.5	8.5	mg/kg	

Detected Results

Test Method: E200.7 Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SAIA-SB46-25	7050025-06	SO	N	1	Magnesium	650	14100	14100	mg/kg	
SAIA-SB46-25	7050025-06	SO	N	1	Manganese	2.0	572	572	mg/kg	
SAIA-SB46-25	7050025-06	SO	N	1	Nickel	5.2	26.9	26.9	mg/kg	
SAIA-SB46-25	7050025-06	SO	N	1	Potassium	650	5510	5510	mg/kg	
SAIA-SB46-25	7050025-06	SO	N	1	Sodium	650	1280	1280	mg/kg	
SAIA-SB46-25	7050025-06	SO	N	1	Vanadium	6.5	76.5	76.5	mg/kg	
SAIA-SB46-25	7050025-06	SO	N	1	Zinc	7.8	112	112	mg/kg	
SAIA-SB46-35	7050025-07	SO	N	1	Aluminum	25.0	25500	25500	mg/kg	
SAIA-SB46-35	7050025-07	SO	N	1	Antimony	7.5	0.52 J*	0.52 J	mg/kg	TR/M
SAIA-SB46-35	7050025-07	SO	N	1	Arsenic	1.2	22.1	22.1	mg/kg	
SAIA-SB46-35	7050025-07	SO	N	1	Barium	25.0	179	179	mg/kg	
SAIA-SB46-35	7050025-07	SO	N	1	Beryllium	0.62	0.71 *	0.71	mg/kg	
SAIA-SB46-35	7050025-07	SO	N	1	Calcium	624	21400	21400	mg/kg	
SAIA-SB46-35	7050025-07	SO	N	1	Chromium	1.2	28.7	28.7	mg/kg	
SAIA-SB46-35	7050025-07	SO	N	1	Cobalt	6.2	16.7	16.7	mg/kg	
SAIA-SB46-35	7050025-07	SO	N	1	Copper	3.1	29.9 *	29.9 J	mg/kg	M
SAIA-SB46-35	7050025-07	SO	N	1	Iron	12.5	32700	32700	mg/kg	
SAIA-SB46-35	7050025-07	SO	N	1	Lead	1.2	7.1	7.1	mg/kg	
SAIA-SB46-35	7050025-07	SO	N	1	Magnesium	624	11700	11700	mg/kg	
SAIA-SB46-35	7050025-07	SO	N	1	Manganese	1.9	578	578	mg/kg	
SAIA-SB46-35	7050025-07	SO	N	1	Nickel	5.0	21.4	21.4	mg/kg	
SAIA-SB46-35	7050025-07	SO	N	1	Potassium	624	4800	4800	mg/kg	
SAIA-SB46-35	7050025-07	SO	N	1	Sodium	624	678	678	mg/kg	
SAIA-SB46-35	7050025-07	SO	N	1	Vanadium	6.2	63.8	63.8	mg/kg	
SAIA-SB46-35	7050025-07	SO	N	1	Zinc	7.5	90.4	90.4	mg/kg	
SAIA-SB46-5	7050025-04	SO	N	1	Aluminum	22.8	13200	13200	mg/kg	
SAIA-SB46-5	7050025-04	SO	N	1	Antimony	6.8	0.36 J*	0.36 J	mg/kg	TR/M

Detected Results

Test Method: E200.7 Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SAIA-SB46-5	7050025-04	SO	N	1	Arsenic	1.1	1.1	1.1	mg/kg	
SAIA-SB46-5	7050025-04	SO	N	1	Barium	22.8	118	118	mg/kg	
SAIA-SB46-5	7050025-04	SO	N	1	Calcium	569	9340	9340	mg/kg	
SAIA-SB46-5	7050025-04	SO	N	1	Chromium	1.1	17.1	17.1	mg/kg	
SAIA-SB46-5	7050025-04	SO	N	1	Cobalt	5.7	10.8	10.8	mg/kg	
SAIA-SB46-5	7050025-04	SO	N	1	Copper	2.8	15.0 *	15.0 J	mg/kg	M
SAIA-SB46-5	7050025-04	SO	N	1	Iron	11.4	20900	20900	mg/kg	
SAIA-SB46-5	7050025-04	SO	N	1	Lead	1.1	18.6	18.6	mg/kg	
SAIA-SB46-5	7050025-04	SO	N	1	Magnesium	569	6950	6950	mg/kg	
SAIA-SB46-5	7050025-04	SO	N	1	Manganese	1.7	344	344	mg/kg	
SAIA-SB46-5	7050025-04	SO	N	1	Nickel	4.6	11.5	11.5	mg/kg	
SAIA-SB46-5	7050025-04	SO	N	1	Potassium	569	4030	4030	mg/kg	
SAIA-SB46-5	7050025-04	SO	N	1	Selenium	4.0	0.49 J	0.49 J	mg/kg	TR
SAIA-SB46-5	7050025-04	SO	N	1	Vanadium	5.7	40.6	40.6	mg/kg	
SAIA-SB46-5	7050025-04	SO	N	1	Zinc	6.8	72.3	72.3	mg/kg	
SAIA-SB47-0.5	7050025-08	SO	N	1	Aluminum	21.8	12500	12500	mg/kg	
SAIA-SB47-0.5	7050025-08	SO	N	1	Antimony	6.5	1.4 J*	1.4 J	mg/kg	TR/M
SAIA-SB47-0.5	7050025-08	SO	N	1	Arsenic	1.1	2.6	2.6	mg/kg	
SAIA-SB47-0.5	7050025-08	SO	N	1	Barium	21.8	116	116	mg/kg	
SAIA-SB47-0.5	7050025-08	SO	N	1	Cadmium	0.55	0.92	0.92	mg/kg	
SAIA-SB47-0.5	7050025-08	SO	N	1	Calcium	546	7460	7460	mg/kg	
SAIA-SB47-0.5	7050025-08	SO	N	1	Chromium	1.1	23.1	23.1	mg/kg	
SAIA-SB47-0.5	7050025-08	SO	N	1	Cobalt	5.5	10.6	10.6	mg/kg	
SAIA-SB47-0.5	7050025-08	SO	N	1	Copper	2.7	55.7 *	55.7 J	mg/kg	M
SAIA-SB47-0.5	7050025-08	SO	N	1	Iron	10.9	20800	20800	mg/kg	
SAIA-SB47-0.5	7050025-08	SO	N	1	Lead	1.1	137	137	mg/kg	
SAIA-SB47-0.5	7050025-08	SO	N	1	Magnesium	546	6190	6190	mg/kg	

Detected Results

Test Method: E200.7 Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SAIA-SB47-0.5	7050025-08	SO	N	1	Manganese	1.6	359	359	mg/kg	
SAIA-SB47-0.5	7050025-08	SO	N	1	Nickel	4.4	20.3	20.3	mg/kg	
SAIA-SB47-0.5	7050025-08	SO	N	1	Potassium	546	3550	3550	mg/kg	
SAIA-SB47-0.5	7050025-08	SO	N	1	Selenium	3.8	0.52 J	0.52 J	mg/kg	TR
SAIA-SB47-0.5	7050025-08	SO	N	1	Vanadium	5.5	39.5	39.5	mg/kg	
SAIA-SB47-0.5	7050025-08	SO	N	1	Zinc	6.5	176	176	mg/kg	
SAIA-SB47-15	7050025-12	SO	N	1	Aluminum	24.2	17600	17600	mg/kg	
SAIA-SB47-15	7050025-12	SO	N	1	Antimony	7.3	0.36 J*	0.36 J	mg/kg	TR/M
SAIA-SB47-15	7050025-12	SO	N	1	Arsenic	1.2	1.8	1.8	mg/kg	
SAIA-SB47-15	7050025-12	SO	N	1	Barium	24.2	131	131	mg/kg	
SAIA-SB47-15	7050025-12	SO	N	1	Calcium	606	15200	15200	mg/kg	
SAIA-SB47-15	7050025-12	SO	N	1	Chromium	1.2	22.1	22.1	mg/kg	
SAIA-SB47-15	7050025-12	SO	N	1	Cobalt	6.1	13.4	13.4	mg/kg	
SAIA-SB47-15	7050025-12	SO	N	1	Copper	3.0	18.2 *	18.2 J	mg/kg	M
SAIA-SB47-15	7050025-12	SO	N	1	Iron	12.1	26000	26000	mg/kg	
SAIA-SB47-15	7050025-12	SO	N	1	Lead	1.2	7.6	7.6	mg/kg	
SAIA-SB47-15	7050025-12	SO	N	1	Magnesium	606	8970	8970	mg/kg	
SAIA-SB47-15	7050025-12	SO	N	1	Manganese	1.8	500	500	mg/kg	
SAIA-SB47-15	7050025-12	SO	N	1	Nickel	4.8	14.8	14.8	mg/kg	
SAIA-SB47-15	7050025-12	SO	N	1	Potassium	606	4850	4850	mg/kg	
SAIA-SB47-15	7050025-12	SO	N	1	Selenium	4.2	0.44 J	0.44 J	mg/kg	TR
SAIA-SB47-15	7050025-12	SO	N	1	Sodium	606	767	767	mg/kg	
SAIA-SB47-15	7050025-12	SO	N	1	Vanadium	6.1	54.1	54.1	mg/kg	
SAIA-SB47-15	7050025-12	SO	N	1	Zinc	7.3	75.1	75.1	mg/kg	
SAIA-SB47-2	7050025-09	SO	N	1	Aluminum	22.4	13300	13300	mg/kg	
SAIA-SB47-2	7050025-09	SO	N	1	Antimony	6.7	0.51 J*	0.51 J	mg/kg	TR/M
SAIA-SB47-2	7050025-09	SO	N	1	Arsenic	1.1	0.93 J	0.93 J	mg/kg	TR

Detected Results

Test Method: E200.7 Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SAIA-SB47-2	7050025-09	SO	N	1	Barium	22.4	115	115	mg/kg	
SAIA-SB47-2	7050025-09	SO	N	1	Calcium	559	7420	7420	mg/kg	
SAIA-SB47-2	7050025-09	SO	N	1	Chromium	1.1	17.0	17.0	mg/kg	
SAIA-SB47-2	7050025-09	SO	N	1	Cobalt	5.6	11.1	11.1	mg/kg	
SAIA-SB47-2	7050025-09	SO	N	1	Copper	2.8	13.9 *	13.9 J	mg/kg	M
SAIA-SB47-2	7050025-09	SO	N	1	Iron	11.2	21200	21200	mg/kg	
SAIA-SB47-2	7050025-09	SO	N	1	Lead	1.1	8.0	8.0 J	mg/kg	D5
SAIA-SB47-2	7050025-09	SO	N	1	Magnesium	559	6950	6950	mg/kg	
SAIA-SB47-2	7050025-09	SO	N	1	Manganese	1.7	346	346	mg/kg	
SAIA-SB47-2	7050025-09	SO	N	1	Nickel	4.5	11.2	11.2	mg/kg	
SAIA-SB47-2	7050025-09	SO	N	1	Potassium	559	4240	4240	mg/kg	
SAIA-SB47-2	7050025-09	SO	N	1	Selenium	3.9	0.45 J	0.45 J	mg/kg	TR
SAIA-SB47-2	7050025-09	SO	N	1	Vanadium	5.6	41.5	41.5	mg/kg	
SAIA-SB47-2	7050025-09	SO	N	1	Zinc	6.7	64.6	64.6	mg/kg	
SAIA-SB47-25	7050025-13	SO	N	1	Aluminum	26.7	33100	33100	mg/kg	
SAIA-SB47-25	7050025-13	SO	N	1	Antimony	8.0	0.53 J*	0.53 J	mg/kg	TR/M
SAIA-SB47-25	7050025-13	SO	N	1	Arsenic	1.3	2.6	2.6	mg/kg	
SAIA-SB47-25	7050025-13	SO	N	1	Barium	26.7	235	235	mg/kg	
SAIA-SB47-25	7050025-13	SO	N	1	Beryllium	0.67	0.94 *	0.94	mg/kg	
SAIA-SB47-25	7050025-13	SO	N	1	Calcium	668	20600	20600	mg/kg	
SAIA-SB47-25	7050025-13	SO	N	1	Chromium	1.3	34.9	34.9	mg/kg	
SAIA-SB47-25	7050025-13	SO	N	1	Cobalt	6.7	20.5	20.5	mg/kg	
SAIA-SB47-25	7050025-13	SO	N	1	Copper	3.3	42.1 *	42.1 J	mg/kg	M
SAIA-SB47-25	7050025-13	SO	N	1	Iron	13.4	37200	37200	mg/kg	
SAIA-SB47-25	7050025-13	SO	N	1	Lead	1.3	9.3	9.3	mg/kg	
SAIA-SB47-25	7050025-13	SO	N	1	Magnesium	668	13800	13800	mg/kg	
SAIA-SB47-25	7050025-13	SO	N	1	Manganese	2.0	667	667	mg/kg	

Detected Results

Test Method: E200.7 Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SAIA-SB47-25	7050025-13	SO	N	1	Nickel	5.3	26.2	26.2	mg/kg	
SAIA-SB47-25	7050025-13	SO	N	1	Potassium	668	5540	5540	mg/kg	
SAIA-SB47-25	7050025-13	SO	N	1	Selenium	4.7	0.65 J	0.65 J	mg/kg	TR
SAIA-SB47-25	7050025-13	SO	N	1	Sodium	668	941	941	mg/kg	
SAIA-SB47-25	7050025-13	SO	N	1	Vanadium	6.7	75.6	75.6	mg/kg	
SAIA-SB47-25	7050025-13	SO	N	1	Zinc	8.0	115	115	mg/kg	
SAIA-SB47-3	7050025-10	SO	FD	1	Aluminum	23.2	14500	14500	mg/kg	
SAIA-SB47-3	7050025-10	SO	FD	1	Antimony	7.0	0.38 J*	0.38 J	mg/kg	TR/M
SAIA-SB47-3	7050025-10	SO	FD	1	Arsenic	1.2	1.5	1.5	mg/kg	
SAIA-SB47-3	7050025-10	SO	FD	1	Barium	23.2	121	121	mg/kg	
SAIA-SB47-3	7050025-10	SO	FD	1	Calcium	580	8050	8050	mg/kg	
SAIA-SB47-3	7050025-10	SO	FD	1	Chromium	1.2	18.5	18.5	mg/kg	
SAIA-SB47-3	7050025-10	SO	FD	1	Cobalt	5.8	11.8	11.8	mg/kg	
SAIA-SB47-3	7050025-10	SO	FD	1	Copper	2.9	15.8 *	15.8 J	mg/kg	M
SAIA-SB47-3	7050025-10	SO	FD	1	Iron	11.6	22800	22800	mg/kg	
SAIA-SB47-3	7050025-10	SO	FD	1	Lead	1.2	19.1	19.1 J	mg/kg	D5
SAIA-SB47-3	7050025-10	SO	FD	1	Magnesium	580	7470	7470	mg/kg	
SAIA-SB47-3	7050025-10	SO	FD	1	Manganese	1.7	388	388	mg/kg	
SAIA-SB47-3	7050025-10	SO	FD	1	Nickel	4.6	12.5	12.5	mg/kg	
SAIA-SB47-3	7050025-10	SO	FD	1	Potassium	580	4490	4490	mg/kg	
SAIA-SB47-3	7050025-10	SO	FD	1	Vanadium	5.8	44.5	44.5	mg/kg	
SAIA-SB47-3	7050025-10	SO	FD	1	Zinc	7.0	79.7	79.7	mg/kg	
SAIA-SB47-35	7050025-14	SO	N	1	Aluminum	26.4	26000	26000	mg/kg	
SAIA-SB47-35	7050025-14	SO	N	1	Antimony	7.9	0.37 J*	0.37 J	mg/kg	TR/M
SAIA-SB47-35	7050025-14	SO	N	1	Arsenic	1.3	13.6	13.6	mg/kg	
SAIA-SB47-35	7050025-14	SO	N	1	Barium	26.4	211	211	mg/kg	
SAIA-SB47-35	7050025-14	SO	N	1	Beryllium	0.66	0.68 *	0.68	mg/kg	

Detected Results

Test Method: E200.7 Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SAIA-SB47-35	7050025-14	SO	N	1	Calcium	661	13200	13200	mg/kg	
SAIA-SB47-35	7050025-14	SO	N	1	Chromium	1.3	30.0	30.0	mg/kg	
SAIA-SB47-35	7050025-14	SO	N	1	Cobalt	6.6	20.0	20.0	mg/kg	
SAIA-SB47-35	7050025-14	SO	N	1	Copper	3.3	28.5 *	28.5 J	mg/kg	M
SAIA-SB47-35	7050025-14	SO	N	1	Iron	13.2	35900	35900	mg/kg	
SAIA-SB47-35	7050025-14	SO	N	1	Lead	1.3	6.0	6.0	mg/kg	
SAIA-SB47-35	7050025-14	SO	N	1	Magnesium	661	13200	13200	mg/kg	
SAIA-SB47-35	7050025-14	SO	N	1	Manganese	2.0	604	604	mg/kg	
SAIA-SB47-35	7050025-14	SO	N	1	Nickel	5.3	22.5	22.5	mg/kg	
SAIA-SB47-35	7050025-14	SO	N	1	Potassium	661	6340	6340	mg/kg	
SAIA-SB47-35	7050025-14	SO	N	1	Selenium	4.6	3.0 J	3.0 J	mg/kg	TR
SAIA-SB47-35	7050025-14	SO	N	1	Vanadium	6.6	71.2	71.2	mg/kg	
SAIA-SB47-35	7050025-14	SO	N	1	Zinc	7.9	104	104	mg/kg	
SAIA-SB47-5	7050025-11	SO	N	1	Aluminum	22.4	14500	14500	mg/kg	
SAIA-SB47-5	7050025-11	SO	N	1	Antimony	6.7	0.35 J*	0.35 J	mg/kg	TR/M
SAIA-SB47-5	7050025-11	SO	N	1	Arsenic	1.1	1.3	1.3	mg/kg	
SAIA-SB47-5	7050025-11	SO	N	1	Barium	22.4	120	120	mg/kg	
SAIA-SB47-5	7050025-11	SO	N	1	Calcium	560	7950	7950	mg/kg	
SAIA-SB47-5	7050025-11	SO	N	1	Chromium	1.1	18.2	18.2	mg/kg	
SAIA-SB47-5	7050025-11	SO	N	1	Cobalt	5.6	11.8	11.8	mg/kg	
SAIA-SB47-5	7050025-11	SO	N	1	Copper	2.8	16.4 *	16.4 J	mg/kg	M
SAIA-SB47-5	7050025-11	SO	N	1	Iron	11.2	22300	22300	mg/kg	
SAIA-SB47-5	7050025-11	SO	N	1	Lead	1.1	8.8	8.8	mg/kg	
SAIA-SB47-5	7050025-11	SO	N	1	Magnesium	560	7400	7400	mg/kg	
SAIA-SB47-5	7050025-11	SO	N	1	Manganese	1.7	357	357	mg/kg	
SAIA-SB47-5	7050025-11	SO	N	1	Nickel	4.5	12.6	12.6	mg/kg	
SAIA-SB47-5	7050025-11	SO	N	1	Potassium	560	4280	4280	mg/kg	

Detected Results

Test Method: E200.7 Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SAIA-SB47-5	7050025-11	SO	N	1	Vanadium	5.6	43.6	43.6	mg/kg	
SAIA-SB47-5	7050025-11	SO	N	1	Zinc	6.7	69.4	69.4	mg/kg	

Test Method: SW7471B Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SAIA-SB46-0.5	7050025-01	SO	N	1	Mercury	0.11	0.082 J	0.082 J	mg/kg	TR
SAIA-SB46-0.6	7050025-02	SO	FD	1	Mercury	0.11	0.087 J	0.087 J	mg/kg	TR
SAIA-SB46-15	7050025-05	SO	N	1	Mercury	0.13	0.064 J	0.064 J	mg/kg	TR
SAIA-SB46-2	7050025-03	SO	N	1	Mercury	0.12	0.053 J	0.053 J	mg/kg	TR
SAIA-SB46-25	7050025-06	SO	N	1	Mercury	0.13	0.048 J	0.048 J	mg/kg	TR
SAIA-SB46-35	7050025-07	SO	N	1	Mercury	0.12	0.18	0.18	mg/kg	
SAIA-SB46-5	7050025-04	SO	N	1	Mercury	0.11	0.046 J	0.046 J	mg/kg	TR
SAIA-SB47-0.5	7050025-08	SO	N	1	Mercury	0.11	0.064 J	0.064 J	mg/kg	TR
SAIA-SB47-15	7050025-12	SO	N	1	Mercury	0.12	0.052 J	0.052 J	mg/kg	TR
SAIA-SB47-2	7050025-09	SO	N	1	Mercury	0.11	0.032 J	0.032 J	mg/kg	TR
SAIA-SB47-25	7050025-13	SO	N	1	Mercury	0.13	0.17	0.17	mg/kg	
SAIA-SB47-3	7050025-10	SO	FD	1	Mercury	0.12	0.045 J	0.045 J	mg/kg	TR
SAIA-SB47-35	7050025-14	SO	N	1	Mercury	0.13	0.082 J	0.082 J	mg/kg	TR
SAIA-SB47-5	7050025-11	SO	N	1	Mercury	0.11	0.040 J	0.040 J	mg/kg	TR

Rejected Results

--No Records Found--

Review Questions

Method: E200.7

Review Questions	Yes	No	NA	Comment
Stage 2 Review: COC - Custody Trail?	•			Custody seals missing per case narrative, login form says intact. COCs signed where relinquished and received.
Stage 2 Review: COC - Temperature/Condition?	•			Samples on ice, received at 4 deg. C. Sample MYAB38 (SAIA-SB47-15) jar broken, soil saved in sealed bag.
Stage 2 Review: COC - Receipt anomalies?	•			No anomalies noted.
Stage 2 Review: COC - Sample/Methods checked?	•			Analyses on COC specified as "CLP ICP-AES Metals + Hg"
Stage 2 Review: Case Narrative - Anomalies?	•			Sample MYAB34 (SAIA-SG47-0.5) was organic aliquot in 8-oz jar. Run for ICP-AES metals.
Stage 2 Review: Samples - Collection date?	•			All samples collected on 4/26/2017
Stage 2 Review: Samples - Extraction date?	•			Samples extracted 5/4/2017.
Stage 2 Review: Samples - Analysis date?	•			Samples analyzed 5/9/2017.
Stage 2 Review: Samples - Holding time?	•			All soil samples analyzed within 6 month holding time.
Stage 2 Review: Samples - Batching?	•			Batch B719020
Stage 2 Review: Samples - Lab qualifiers?	•			All detected Sb/Cu results qualified J*/* for poor/elevated matrix spike recovery. All Be detects qualified J* for serial dilution %D.
Stage 2 Review: Calibration - ICAL?	•			ICAL on 5/9/2017. All %D acceptable.
Stage 2 Review: Calibration - ICV?	•			ICV01 98-106 %R good.
Stage 2 Review: Calibration - CCV?	•			CCV01, 02, 03 101-109 %R and 0-2 %RSD good.
Stage 2 Review: Blank - Method blank?	•			PB01 Be and K U-flag [DQR B5] at RL. ICB/CCB Be, Cd, and Na U-flag [B2] at RL
Stage 2 Review: Blank - Trip blank?	•			
Stage 2 Review: Blank - Equipment blank?	•			EB MYAB41 all ND, no quals.
Stage 2 Review: Precision/Accuracy - MS/MSD?	•			Source MYAB27 (SAIA-SG46-0.5). All Sb/Cu detects qualified J for matrix interference [M].
Stage 2 Review: Precision/Accuracy - LCS/LCSD?	•			All LCS %R acceptable within 80 - 120.
Stage 2 Review: Quantitation - PQLs?	•			MDL check run 4/28/2017. All MDLs acceptable.
Stage 2 Review: Quantitation - Dilution Factor?	•			Serial dilution for Be 11%D in soil. No data qual. warranted.
Stage 2 Review: Quantitation - Results (i.e. correct analytes)?	•			Target analyte list correct.
Stage 2 Review: Field Duplicates - RPD within limits?	•			Duplicate pairs MYAB27/28 and MYAB35/36. Pb in MYAB35/36 >50 RPD, qualified J [D5]. All lab replicate MYAB27D RPDs <35, no quals.

Review Questions

Method: SW7471B

Review Questions	Yes	No	NA	Comment
Stage 2 Review: COC - Custody Trail?	•			
Stage 2 Review: COC - Temperature/Condition?	•			
Stage 2 Review: COC - Receipt anomalies?	•			No anomalies noted
Stage 2 Review: COC - Sample/Methods checked?	•			
Stage 2 Review: Case Narrative - Anomalies?	•			None
Stage 2 Review: Samples - Collection date?	•			
Stage 2 Review: Samples - Extraction date?	•			Extracted 5/8/2017
Stage 2 Review: Samples - Analysis date?	•			Analyzed 5/8/2017
Stage 2 Review: Samples - Holding time?	•			28 day holding time met.
Stage 2 Review: Samples - Batching?	•			Batch B719023
Stage 2 Review: Samples - Lab qualifiers?	•			None added except J trace [TR].
Stage 2 Review: Calibration - ICAL?	•			ICAL on 5/8/2017 %D and correlation coeff. good
Stage 2 Review: Calibration - ICV?	•			
Stage 2 Review: Calibration - CCV?	•			
Stage 2 Review: Blank - Method blank?	•			All method blanks ND.
Stage 2 Review: Blank - Trip blank?			•	
Stage 2 Review: Blank - Equipment blank?	•			EB MYAB41 Hg result ND, no quals.
Stage 2 Review: Precision/Accuracy - MS/MSD?	•			
Stage 2 Review: Precision/Accuracy - LCS/LCSD?	•			
Stage 2 Review: Quantitation - PQLs?	•			MDL of 0.020 mg/kg is good.
Stage 2 Review: Quantitation - Dilution Factor?	•			
Stage 2 Review: Quantitation - Results (i.e. correct analytes)?	•			
Stage 2 Review: Field Duplicates - RPD within limits?	•			Duplicate pairs MYAB27/28 and MYAB35/36 Hg RPDs <35, no quals.

Automated Data Review Detail Report for MYAB41
Southern Avenue Industrial Area

Batch Report

Test Method: E200.7 Analysis Batch: B719002_IS

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	WQ	LABQC	-BLK	BE70803050	1/1	5/4/2017 08:25	5/4/2017 08:25	5/5/2017 11:43	RE04008/	LB
LABQC	WQ	LABQC	-BS	BE70803050	1/1	5/4/2017 08:25	5/4/2017 08:25	5/5/2017 11:47	RE04008/	BS
FIELDQC	WQ	SAIA-ER01-0417	7050027-01	BE70803050	1/1	4/26/2017 12:00	5/4/2017 08:25	5/5/2017 11:51	RE04008/	EB

Test Method: SW7470A Analysis Batch: B719009_IS

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	WQ	LABQC	-BLK	BE71002H05	1/1	5/4/2017 08:25	5/4/2017 08:25	5/4/2017 14:49	RE04006/	LB
FIELDQC	WQ	SAIA-ER01-0417	7050027-01	BE71002H05	1/1	4/26/2017 12:00	5/4/2017 08:25	5/4/2017 14:52	RE04006/	EB

Field Batch Report

Test Method: E200.7 Extraction Method: METHOD Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
26041702			FIELDQC	WQ	SAIA-ER01-0417	7050027-01	4/26/2017 12:00	EB

Test Method: SW7470A Extraction Method: METHOD Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
26041702			FIELDQC	WQ	SAIA-ER01-0417	7050027-01	4/26/2017 12:00	EB

MS Mismatch Report

--No Records Found--

Section to identify Matrix Spike mismatches where parent sample differs from MS by dilution.

QC Outlier Report

Test Method: E200.7 Extraction Method: METHOD Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
Blank	-BLK (LB) / -BLK	1 / 1.00	Potassium	78.2 (ug/l)	*U/None	< 34.4	< 5000	B1		10	782
Blank	-BLK (LB) / -BLK	1 / 1.00	Sodium	24.4 (ug/l)	*U/None	< 13.1	< 5000	B1		10	244

Rule is the multiplier used when blank contamination occurs to determine action level.

*Method and Field Blanks will apply J flags when the sample result is greater than the reporting limit for NFG validation.

Qualified Results

Test Method: E200.7 Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-ER01-0417	7050027-01	WQ	EB	Aluminum	200	200 J	200 U		ug/L	B5
SAIA-ER01-0417	7050027-01	WQ	EB	Calcium	5000	5000 J	5000 U		ug/L	B5
SAIA-ER01-0417	7050027-01	WQ	EB	Copper	25.0	25.0 J	25.0 U		ug/L	B5
SAIA-ER01-0417	7050027-01	WQ	EB	Iron	100	100 J	100 U		ug/L	B5
SAIA-ER01-0417	7050027-01	WQ	EB	Magnesium	5000	5000 J	5000 U		ug/L	B5
SAIA-ER01-0417	7050027-01	WQ	EB	Potassium	5000	5000 U	5000 U		ug/L	B1
SAIA-ER01-0417	7050027-01	WQ	EB	Sodium	5000	5000 J	5000 U		ug/L	B5
SAIA-ER01-0417	7050027-01	WQ	EB	Zinc	60.0	60.0 J	60.0 U		ug/L	B5

Detected Results

--No Records Found--

Rejected Results

--No Records Found--

Review Questions

Method: E200.7

Review Questions	Yes	No	NA	Comment
Stage 2 Review: COC - Custody Trail?	•			COC signed correctly and custody seal in place when received by the lab
Stage 2 Review: COC - Temperature/Condition?	•			Receipt temp. 4 deg. C
Stage 2 Review: COC - Receipt anomalies?	•			No sample receipt anomalies noted
Stage 2 Review: COC - Sample/Methods checked?	•			Sample method "CLP ICP AES Metals + Hg"
Stage 2 Review: Case Narrative - Anomalies?	•			No data QC anomalies noted for sample MYAB41
Stage 2 Review: Samples - Collection date?	•			Equip. blank MYAB41 (SAIA-ER01-0417) collected 4/26/2017.
Stage 2 Review: Samples - Extraction date?	•			Sample MYAB41 extracted 5/4/2017.
Stage 2 Review: Samples - Analysis date?	•			Sample MYAB41 analyzed 5/5/2017.
Stage 2 Review: Samples - Holding time?	•			6 month (mercury 28 days) holding time met for all metals
Stage 2 Review: Samples - Batching?	•			Batch B719002
Stage 2 Review: Samples - Lab qualifiers?	•			Several low estimated J trace results qualifiers.
Stage 2 Review: Calibration - ICAL?	•			ICAL performed 5/5/2017. All %D and instrument response acceptable.
Stage 2 Review: Calibration - ICV?	•			ICV01 all %R acceptable
Stage 2 Review: Calibration - CCV?	•			CCV01, 02, 03, %R acceptable.
Stage 2 Review: Blank - Method blank?	•			Ba and Na detected in ICB01. Detected Na qualified non-detect U B1 at the RL. Al, Ca, Cu, Fe, Mg, Zn, detected in calibration blanks and qualified U at the RL.
Stage 2 Review: Blank - Trip blank?			•	
Stage 2 Review: Blank - Equipment blank?	•			Sample MYAB41 is the equipment blank for this soil sampling event. All results are reported as NDs, so no data qualification is warranted in the associated soil samples.
Stage 2 Review: Precision/Accuracy - MS/MSD?			•	
Stage 2 Review: Precision/Accuracy - LCS/LCSD?	•			LCS %R acceptable.
Stage 2 Review: Quantitation - PQLs?	•			All detection limits are accptable
Stage 2 Review: Quantitation - Dilution Factor?	•			No dilution factors were applied.
Stage 2 Review: Quantitation - Results (i.e. correct analytes)?	•			Target analyte metals are correct.
Stage 2 Review: Field Duplicates - RPD within limits?			•	No field duplicate collected for this QC sample.

Review Questions

Method: SW7470A

Review Questions	Yes	No	NA	Comment
Stage 2 Review: COC - Custody Trail?				
Stage 2 Review: COC - Temperature/Condition?				
Stage 2 Review: COC - Receipt anomalies?				
Stage 2 Review: COC - Sample/Methods checked?				
Stage 2 Review: Case Narrative - Anomalies?				
Stage 2 Review: Samples - Collection date?				
Stage 2 Review: Samples - Extraction date?				
Stage 2 Review: Samples - Analysis date?				
Stage 2 Review: Samples - Holding time?				
Stage 2 Review: Samples - Batching?				
Stage 2 Review: Samples - Lab qualifiers?				
Stage 2 Review: Calibration - ICAL?				
Stage 2 Review: Calibration - ICV?				
Stage 2 Review: Calibration - CCV?				
Stage 2 Review: Blank - Method blank?				
Stage 2 Review: Blank - Trip blank?				
Stage 2 Review: Blank - Equipment blank?				
Stage 2 Review: Precision/Accuracy - MS/MSD?				
Stage 2 Review: Precision/Accuracy - LCS/LCSD?				
Stage 2 Review: Quantitation - PQLs?				
Stage 2 Review: Quantitation - Dilution Factor?				
Stage 2 Review: Quantitation - Results (i.e. correct analytes)?				
Stage 2 Review: Field Duplicates - RPD within limits?				

Automated Data Review Detail Report for YAB34
Southern Avenue Industrial Area

Batch Report

Test Method: CSVOL12 Analysis Batch: BG026864.D

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	WQ	LABQC	PB98663BL	BG026712 .D	1/1	5/2/2017 08:10	5/2/2017 08:10	5/4/2017 10:13	PB98663/	LB
FIELDQC	WQ	SAIA-ER01-0417	I2884-09	BG026712 .D	1/1	4/26/2017 12:00	5/2/2017 08:10	5/4/2017 10:52	PB98663/	EB

Test Method: CSVOL12 Analysis Batch: BG026874.D

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	SQ	LABQC	PB98721BL	BG026712 .D	1/1	5/4/2017 10:57	5/4/2017 10:57	5/6/2017 10:12	PB98721/	LB
SAIA-SB/SG47	SO	SAIA-SB47-2	I2884-02	BG026712 .D	1/1	4/26/2017 10:40	5/4/2017 10:57	5/6/2017 14:48	PB98721/	N
SAIA-SB/SG47	SO	SAIA-SB47-3	I2884-03	BG026712 .D	1/1	4/26/2017 10:45	5/4/2017 10:57	5/6/2017 15:28	PB98721/	FD
SAIA-SB/SG47	SO	SAIA-SB47-5	I2884-04	BG026712 .D	1/1	4/26/2017 10:50	5/4/2017 10:57	5/6/2017 16:07	PB98721/	N
SAIA-SB/SG47	SO	SAIA-SB47-15	I2884-05	BG026712 .D	1/1	4/26/2017 10:55	5/4/2017 10:57	5/6/2017 17:26	PB98721/	N
SAIA-SB/SG47	SO	SAIA-SB47-25	I2884-06	BG026712 .D	1/1	4/26/2017 11:00	5/4/2017 10:57	5/6/2017 18:06	PB98721/	N
SAIA-SB/SG47	SO	SAIA-SB47-35	I2884-07	BG026712 .D	1/1	4/26/2017 11:05	5/4/2017 10:57	5/6/2017 18:45	PB98721/	N

Batch Report

Test Method: CSVOL12 Analysis Batch: BG026935.D

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
SAIA-SB/SG47	SO	SAIA-SB47-0.5	I2884-01	BG026712 .D	1/1	4/26/2017 10:35	5/4/2017 10:57	5/10/2017 16:56	PB98721/	N

Test Method: CVOL Analysis Batch: VI051598.D

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	SQ	LABQC	VI0427SBL01	VI051592. D	1/1	4/27/2017 15:41	4/27/2017 15:41	4/27/2017 15:41	VI051599.D/	LB
SAIA-SB/SG47	SO	SAIA-SB47-0.5	I2884-01	VI051592. D	1/1	4/26/2017 10:35	4/27/2017 16:07	4/27/2017 16:07	VI051599.D/	N
SAIA-SB/SG47	SO	SAIA-SB47-2	I2884-02	VI051592. D	1/1	4/26/2017 10:40	4/27/2017 16:33	4/27/2017 16:33	VI051599.D/	N
SAIA-SB/SG47	SO	SAIA-SB47-3	I2884-03	VI051592. D	1/1	4/26/2017 10:45	4/27/2017 16:59	4/27/2017 16:59	VI051599.D/	FD
SAIA-SB/SG47	SO	SAIA-SB47-15	I2884-05	VI051592. D	1/1	4/26/2017 10:55	4/27/2017 17:49	4/27/2017 17:49	VI051599.D/	N
SAIA-SB/SG47	SO	SAIA-SB47-25	I2884-06	VI051592. D	1/1	4/26/2017 11:00	4/27/2017 18:15	4/27/2017 18:15	VI051599.D/	N
SAIA-SB/SG47	SO	SAIA-SB47-35	I2884-07	VI051592. D	1/1	4/26/2017 11:05	4/27/2017 18:41	4/27/2017 18:41	VI051599.D/	N

Test Method: CVOL Analysis Batch: VI051671.D

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	SQ	LABQC	VI0502SBL01	VI051592. D	1/1	5/2/2017 11:47	5/2/2017 11:47	5/2/2017 11:47	VI051672.D/	LB

Batch Report

Test Method: CVOL Analysis Batch: VI051671.D

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
SAIA-SB/SG47	SO	SAIA-SB47-5	I2884-04	VI051592.D	1/1	4/26/2017 10:50	5/2/2017 12:38	5/2/2017 12:38	VI051672.D/	N

Test Method: CVOL Analysis Batch: VI051685.D

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	SQ	LABQC	VI0503SBL01	VI051592.D	1/1	5/3/2017 10:59	5/3/2017 10:59	5/3/2017 10:59	VI051686.D/	LB
LABQC	SQ	LABQC	I2884-08	VI051592.D	1/1	5/3/2017 15:15	5/3/2017 15:15	5/3/2017 15:15	VI051686.D/	LB

Test Method: CVOL Analysis Batch: VV001684.D

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	WQ	LABQC	VV0427WBL01	VV001645.D	1/1	4/27/2017 11:30	4/27/2017 11:30	4/27/2017 11:30	VV001686.D/	LB
FIELDQC	WQ	SAIA-ER01-0417	I2884-09	VV001645.D	1/1	4/26/2017 12:00	4/27/2017 14:51	4/27/2017 14:51	VV001686.D/	EB
LABQC	WQ	LABQC	I2884-10	VV001645.D	1/1	4/27/2017 15:16	4/27/2017 15:16	4/27/2017 15:16	VV001686.D/	LB

Batch Report

Test Method: SW8082 Analysis Batch: PR018105.D

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	WQ	LABQC	PB98664BL	PR018020 .D	1/1	5/2/2017 08:40	5/2/2017 08:40	5/4/2017 18:50	PB98664/	LB
LABQC	WQ	LABQC	PB98664BL	PR018020 .D	1/1	5/2/2017 08:40	5/2/2017 08:40	5/4/2017 18:50	PB98664/	LB
LABQC	WQ	LABQC	PB98664BS	PR018020 .D	1/1	5/2/2017 08:40	5/2/2017 08:40	5/4/2017 19:04	PB98664/	BS
LABQC	WQ	LABQC	PB98664BS	PR018020 .D	1/1	5/2/2017 08:40	5/2/2017 08:40	5/4/2017 19:04	PB98664/	BS
FIELDQC	WQ	SAIA-ER01-0417	I2884-09	PR018020 .D	1/1	4/26/2017 12:00	5/2/2017 08:40	5/4/2017 19:18	PB98664/	EB

Test Method: SW8082 Analysis Batch: PR018224.D

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	SQ	LABQC	PB98720BL	PR018020 .D	1/1	5/4/2017 08:55	5/4/2017 08:55	5/11/2017 00:54	PB98720/	LB
LABQC	SQ	LABQC	PB98720BL	PR018020 .D	1/1	5/4/2017 08:55	5/4/2017 08:55	5/11/2017 00:54	PB98720/	LB
LABQC	SQ	LABQC	PB98720BS	PR018020 .D	1/1	5/4/2017 08:55	5/4/2017 08:55	5/11/2017 01:08	PB98720/	BS
LABQC	SQ	LABQC	PB98720BS	PR018020 .D	1/1	5/4/2017 08:55	5/4/2017 08:55	5/11/2017 01:08	PB98720/	BS

Test Method: SW8082 Analysis Batch: PR018245.D

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
SAIA-SB/SG47	SO	SAIA-SB47-0.5	I2884-01	PR018020 .D	1/1	4/26/2017 10:35	5/4/2017 08:55	5/11/2017 05:57	PB98720/	N

Batch Report

Test Method: SW8082 Analysis Batch: PR018245.D

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
SAIA-SB/SG47	SO	SAIA-SB47-2	I2884-02	PR018020 .D	1/1	4/26/2017 10:40	5/4/2017 08:55	5/11/2017 06:12	PB98720/	N
SAIA-SB/SG47	SO	SAIA-SB47-3	I2884-03	PR018020 .D	1/1	4/26/2017 10:45	5/4/2017 08:55	5/11/2017 06:26	PB98720/	FD
SAIA-SB/SG47	SO	SAIA-SB47-5	I2884-04	PR018020 .D	1/1	4/26/2017 10:50	5/4/2017 08:55	5/11/2017 06:41	PB98720/	N
SAIA-SB/SG47	SO	SAIA-SB47-15	I2884-05	PR018020 .D	1/1	4/26/2017 10:55	5/4/2017 08:55	5/11/2017 06:55	PB98720/	N
SAIA-SB/SG47	SO	SAIA-SB47-25	I2884-06	PR018020 .D	1/1	4/26/2017 11:00	5/4/2017 08:55	5/11/2017 07:09	PB98720/	N
SAIA-SB/SG47	SO	SAIA-SB47-35	I2884-07	PR018020 .D	1/1	4/26/2017 11:05	5/4/2017 08:55	5/11/2017 07:24	PB98720/	N

Field Batch Report

Test Method: CSVOL12 Extraction Method: SW3520 Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
26041701			FIELDQC	WQ	SAIA-ER01-0417	I2884-09	4/26/2017 12:00	EB
26041701			SAIA-SB/SG47	SO	SAIA-SB47-0.5	I2884-01	4/26/2017 10:35	N
26041701			SAIA-SB/SG47	SO	SAIA-SB47-15	I2884-05	4/26/2017 10:55	N
26041701			SAIA-SB/SG47	SO	SAIA-SB47-2	I2884-02	4/26/2017 10:40	N
26041701			SAIA-SB/SG47	SO	SAIA-SB47-25	I2884-06	4/26/2017 11:00	N
26041701			SAIA-SB/SG47	SO	SAIA-SB47-3	I2884-03	4/26/2017 10:45	FD
26041701			SAIA-SB/SG47	SO	SAIA-SB47-35	I2884-07	4/26/2017 11:05	N
26041701			SAIA-SB/SG47	SO	SAIA-SB47-5	I2884-04	4/26/2017 10:50	N

Test Method: CVOL Extraction Method: METHOD Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
26041701			FIELDQC	WQ	SAIA-ER01-0417	I2884-09	4/26/2017 12:00	EB
26041701			SAIA-SB/SG47	SO	SAIA-SB47-0.5	I2884-01	4/26/2017 10:35	N
26041701			SAIA-SB/SG47	SO	SAIA-SB47-15	I2884-05	4/26/2017 10:55	N
26041701			SAIA-SB/SG47	SO	SAIA-SB47-2	I2884-02	4/26/2017 10:40	N
26041701			SAIA-SB/SG47	SO	SAIA-SB47-25	I2884-06	4/26/2017 11:00	N
26041701			SAIA-SB/SG47	SO	SAIA-SB47-3	I2884-03	4/26/2017 10:45	FD
26041701			SAIA-SB/SG47	SO	SAIA-SB47-35	I2884-07	4/26/2017 11:05	N
26041701			SAIA-SB/SG47	SO	SAIA-SB47-5	I2884-04	4/26/2017 10:50	N

Test Method: SW8082 Extraction Method: SW3510C Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
26041701			FIELDQC	WQ	SAIA-ER01-0417	I2884-09	4/26/2017 12:00	EB
26041701			SAIA-SB/SG47	SO	SAIA-SB47-0.5	I2884-01	4/26/2017 10:35	N

Field Batch Report

Test Method: SW8082 Extraction Method: SW3510C Leach Method: NONE

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
26041701			SAIA-SB/SG47	SO	SAIA-SB47-15	I2884-05	4/26/2017 10:55	N
26041701			SAIA-SB/SG47	SO	SAIA-SB47-2	I2884-02	4/26/2017 10:40	N
26041701			SAIA-SB/SG47	SO	SAIA-SB47-25	I2884-06	4/26/2017 11:00	N
26041701			SAIA-SB/SG47	SO	SAIA-SB47-3	I2884-03	4/26/2017 10:45	FD
26041701			SAIA-SB/SG47	SO	SAIA-SB47-35	I2884-07	4/26/2017 11:05	N
26041701			SAIA-SB/SG47	SO	SAIA-SB47-5	I2884-04	4/26/2017 10:50	N

MS Mismatch Report

--No Records Found--

Section to identify Matrix Spike mismatches where parent sample differs from MS by dilution.

QC Outlier Report

Test Method: CSVOL12 Extraction Method: SW3520 Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
Equipment Blank	SAIA-ER01-0417 (EB) / I2884-09	1 / 1.00	Acetophenone	1.60 (ug/l)	*U/None	< 1.3	< 10	K1		1	1.60
Equipment Blank	SAIA-ER01-0417 (EB) / I2884-09	1 / 1.00	Diethyl Phthalate	1.70 (ug/l)	*U/None	< 1.3	< 5.2	K1		1	1.70
Surrogate	SAIA-ER01-0417 (EB) / I2884-09	1 / 1.00	4-Chloroaniline-d4	0.650 (percent)	J/UJ	1 - 145	< 155	S			
Surrogate	SAIA-ER01-0417 (EB) / I2884-09	1 / 1.00	4-Methylphenol-d8	19.8 (percent)	J/UJ	25 - 111	10 - 120	S			
Surrogate	SAIA-ER01-0417 (EB) / I2884-09	1 / 1.00	4-Nitrophenol-d4	10.5 (percent)	J/UJ	33 - 116	10 - 120	S			
Surrogate	SAIA-ER01-0417 (EB) / I2884-09	1 / 1.00	Phenol-d5	14.3 (percent)	J/UJ	39 - 106	10 - 120	S			

Test Method: CSVOL12 Extraction Method: SW3550B Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
Surrogate	SAIA-SB47-0.5 (N) / I2884-01	1 / 1.00	Benzo(a)pyrene-d12	40.0 (percent)	J/UJ	43 - 111	10 - 120	S			
Surrogate	SAIA-SB47-0.5 (N) / I2884-01	1 / 1.00	Dimethylphthalate-d6	37.5 (percent)	J/UJ	43 - 111	10 - 120	S			
Surrogate	SAIA-SB47-0.5 (N) / I2884-01	1 / 1.00	Fluorene-d10	35.0 (percent)	J/UJ	40 - 108	10 - 120	S			
Surrogate	SAIA-SB47-0.5 (N) / I2884-01	1 / 1.00	Pyrene-d10	37.5 (percent)	J/UJ	51 - 120	10 - 130	S			

Test Method: CVOL Extraction Method: METHOD Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
Blank	I2884-08 (LB) / I2884-08	1 / 1.00	Methylene Chloride	1.80 (ug/kg)	*U/None	< 0.56	< 5	B1		2	3.60

QC Outlier Report

Test Method: CVOL Extraction Method: METHOD Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
Equipment Blank	SAIA-ER01-0417 (EB) / I2884-09	1 / 1.00	Acetone	1.40 (ug/l)	*U/None	< 1.3	< 10	K1		2	2.80
Surrogate	SAIA-ER01-0417 (EB) / I2884-09	1 / 1.00	1,1-Dichloroethene-d2	64.0 (percent)	J/UJ	70 - 130	20 - 140	S			
Surrogate	SAIA-SB47-0.5 (N) / I2884-01	1 / 1.00	1,2-Dichlorobenzene-d4	68.0 (percent)	J/UJ	75 - 120	20 - 130	S			
Surrogate	SAIA-SB47-0.5 (N) / I2884-01	1 / 1.00	1,2-Dichloroethane-d4	68.0 (percent)	J/UJ	70 - 130	20 - 140	S			
Surrogate	SAIA-SB47-0.5 (N) / I2884-01	1 / 1.00	2-Hexanone-d5	64.0 (percent)	J/UJ	70 - 130	20 - 140	S			
Surrogate	SAIA-SB47-15 (N) / I2884-05	1 / 1.00	2-Hexanone-d5	58.0 (percent)	J/UJ	70 - 130	20 - 140	S			
Surrogate	SAIA-SB47-2 (N) / I2884-02	1 / 1.00	1,2-Dichlorobenzene-d4	72.0 (percent)	J/UJ	75 - 120	20 - 130	S			
Surrogate	SAIA-SB47-2 (N) / I2884-02	1 / 1.00	2-Hexanone-d5	66.0 (percent)	J/UJ	70 - 130	20 - 140	S			
Surrogate	SAIA-SB47-25 (N) / I2884-06	1 / 1.00	2-Hexanone-d5	68.0 (percent)	J/UJ	70 - 130	20 - 140	S			
Surrogate	SAIA-SB47-3 (FD) / I2884-03	1 / 1.00	1,2-Dichlorobenzene-d4	68.0 (percent)	J/UJ	75 - 120	20 - 130	S			
Surrogate	SAIA-SB47-3 (FD) / I2884-03	1 / 1.00	1,2-Dichloroethane-d4	68.0 (percent)	J/UJ	70 - 130	20 - 140	S			
Surrogate	SAIA-SB47-3 (FD) / I2884-03	1 / 1.00	2-Hexanone-d5	56.0 (percent)	J/UJ	70 - 130	20 - 140	S			
Surrogate	SAIA-SB47-35 (N) / I2884-07	1 / 1.00	2-Hexanone-d5	66.0 (percent)	J/UJ	70 - 130	20 - 140	S			
Surrogate	SAIA-SB47-5 (N) / I2884-04	1 / 1.00	1,2-Dichlorobenzene-d4	72.0 (percent)	J/UJ	75 - 120	20 - 130	S			
Surrogate	SAIA-SB47-5 (N) / I2884-04	1 / 1.00	2-Hexanone-d5	60.0 (percent)	J/UJ	70 - 130	20 - 140	S			

Rule is the multiplier used when blank contamination occurs to determine action level.

Qualified Results

Test Method: CSVOL12	Extraction Method: SW3520	Leach Method: NONE								
FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-ER01-0417	I2884-09	WQ	EB	3,3'-Dichlorobenzidine	10.0	10.0 U	10.0 UJ	-	ug/L	S
SAIA-ER01-0417	I2884-09	WQ	EB	4-Chloroaniline	10.0	10.0 U	10.0 UJ	-	ug/L	S
SAIA-ER01-0417	I2884-09	WQ	EB	Acetophenone	10.0	1.6 J	1.6 J		ug/L	TR
SAIA-ER01-0417	I2884-09	WQ	EB	Diethyl Phthalate	5.2	1.7 J	1.7 J		ug/L	TR
SAIA-ER01-0417	I2884-09	WQ	EB	Hexachlorocyclopentadiene	10.0	10.0 U	10.0 UJ	-	ug/L	S

Test Method: CSVOL12	Extraction Method: SW3550B	Leach Method: NONE								
FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB47-0.5	I2884-01	SO	N	1,4-Dioxane (p-Dioxane)	73.0	73.0 U	73.0 UJ	-	ug/kg	S
SAIA-SB47-0.5	I2884-01	SO	N	Acenaphthene	180	42.0 J	42.0 J		ug/kg	TR
SAIA-SB47-0.5	I2884-01	SO	N	Anthracene	180	78.0 J	78.0 J		ug/kg	TR
SAIA-SB47-0.5	I2884-01	SO	N	Benzo(g,h,i)perylene	180	110 J	110 J		ug/kg	TR
SAIA-SB47-0.5	I2884-01	SO	N	Carbazole	360	83.0 J	83.0 J		ug/kg	TR
SAIA-SB47-0.5	I2884-01	SO	N	Dibenz(a,h)anthracene	180	43.0 J	43.0 J		ug/kg	TR
SAIA-SB47-0.5	I2884-01	SO	N	Dibenzofuran	180	69.0 J	69.0 J		ug/kg	TR
SAIA-SB47-0.5	I2884-01	SO	N	Fluorene	180	94.0 J	94.0 J		ug/kg	TR
SAIA-SB47-0.5	I2884-01	SO	N	Indeno(1,2,3-c,d)pyrene	180	130 J	130 J		ug/kg	TR
SAIA-SB47-0.5	I2884-01	SO	N	Naphthalene	180	66.0 J	66.0 J		ug/kg	TR
SAIA-SB47-0.5	I2884-01	SO	N	Phenol	360	43.0 J	43.0 J		ug/kg	TR
SAIA-SB47-15	I2884-05	SO	N	Phenol	410	97.0 J	97.0 J		ug/kg	TR
SAIA-SB47-2	I2884-02	SO	N	Phenol	360	67.0 J	67.0 J		ug/kg	TR
SAIA-SB47-25	I2884-06	SO	N	Phenol	430	100 J	100 J		ug/kg	TR
SAIA-SB47-3	I2884-03	SO	FD	Phenol	370	65.0 J	65.0 J		ug/kg	TR
SAIA-SB47-35	I2884-07	SO	N	Phenol	430	120 J	120 J		ug/kg	TR

Qualified Results

Test Method: CSVOL12	Extraction Method: SW3550B	Leach Method: NONE								
FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB47-5	I2884-04	SO	N	Phenol	380	78.0 J	78.0 J		ug/kg	TR

Test Method: CVOL	Extraction Method: METHOD	Leach Method: NONE								
FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB47-0.5	I2884-01	SO	N	1,2,3-Trichlorobenzene	6.5	6.5 U	6.5 UJ		ug/kg	S
SAIA-SB47-0.5	I2884-01	SO	N	1,2,4-Trichlorobenzene	6.5	6.5 U	6.5 UJ		ug/kg	S
SAIA-SB47-0.5	I2884-01	SO	N	1,2-Dichlorobenzene	6.5	6.5 U	6.5 UJ		ug/kg	S
SAIA-SB47-0.5	I2884-01	SO	N	1,3-Dichlorobenzene	6.5	6.5 U	6.5 UJ		ug/kg	S
SAIA-SB47-0.5	I2884-01	SO	N	1,4-Dichlorobenzene	6.5	6.5 U	6.5 UJ		ug/kg	S
SAIA-SB47-0.5	I2884-01	SO	N	Chlorobenzene	6.5	6.5 U	6.5 UJ		ug/kg	S
SAIA-SB47-2	I2884-02	SO	N	1,2,3-Trichlorobenzene	5.9	5.9 U	5.9 UJ		ug/kg	S
SAIA-SB47-2	I2884-02	SO	N	1,2,4-Trichlorobenzene	5.9	5.9 U	5.9 UJ		ug/kg	S
SAIA-SB47-2	I2884-02	SO	N	1,2-Dichlorobenzene	5.9	5.9 U	5.9 UJ		ug/kg	S
SAIA-SB47-2	I2884-02	SO	N	1,3-Dichlorobenzene	5.9	5.9 U	5.9 UJ		ug/kg	S
SAIA-SB47-2	I2884-02	SO	N	1,4-Dichlorobenzene	5.9	5.9 U	5.9 UJ		ug/kg	S
SAIA-SB47-2	I2884-02	SO	N	Chlorobenzene	5.9	5.9 U	5.9 UJ		ug/kg	S
SAIA-SB47-3	I2884-03	SO	FD	1,1,1-Trichloroethane	7.0	7.0 U	7.0 UJ		ug/kg	S
SAIA-SB47-3	I2884-03	SO	FD	1,1,2-Trichloro-1,2,2-trifluoroethane	7.0	7.0 U	7.0 UJ		ug/kg	S
SAIA-SB47-3	I2884-03	SO	FD	1,2,3-Trichlorobenzene	7.0	7.0 U	7.0 UJ		ug/kg	S
SAIA-SB47-3	I2884-03	SO	FD	1,2,4-Trichlorobenzene	7.0	7.0 U	7.0 UJ		ug/kg	S
SAIA-SB47-3	I2884-03	SO	FD	1,2-Dibromoethane (EDB)	7.0	7.0 U	7.0 UJ		ug/kg	S
SAIA-SB47-3	I2884-03	SO	FD	1,2-Dichlorobenzene	7.0	7.0 U	7.0 UJ		ug/kg	S
SAIA-SB47-3	I2884-03	SO	FD	1,3-Dichlorobenzene	7.0	7.0 U	7.0 UJ		ug/kg	S

Qualified Results

Test Method: CVOL Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB47-3	I2884-03	SO	FD	1,4-Dichlorobenzene	7.0	7.0 U	7.0 UJ		ug/kg	S
SAIA-SB47-3	I2884-03	SO	FD	Carbon Tetrachloride	7.0	7.0 U	7.0 UJ		ug/kg	S
SAIA-SB47-3	I2884-03	SO	FD	Chlorobenzene	7.0	7.0 U	7.0 UJ		ug/kg	S
SAIA-SB47-3	I2884-03	SO	FD	Methyl Acetate	7.0	7.0 U	7.0 UJ		ug/kg	S
SAIA-SB47-3	I2884-03	SO	FD	Methylene Chloride	7.0	7.0 U	7.0 UJ		ug/kg	S
SAIA-SB47-3	I2884-03	SO	FD	tert-Butyl Methyl Ether (MTBE)	7.0	7.0 U	7.0 UJ		ug/kg	S
SAIA-SB47-3	I2884-03	SO	FD	Trichlorofluoromethane	7.0	7.0 U	7.0 UJ		ug/kg	S
SAIA-SB47-5	I2884-04	SO	N	1,2,3-Trichlorobenzene	9.3	9.3 U	9.3 UJ		ug/kg	S
SAIA-SB47-5	I2884-04	SO	N	1,2,4-Trichlorobenzene	9.3	9.3 U	9.3 UJ		ug/kg	S
SAIA-SB47-5	I2884-04	SO	N	1,2-Dichlorobenzene	9.3	9.3 U	9.3 UJ		ug/kg	S
SAIA-SB47-5	I2884-04	SO	N	1,3-Dichlorobenzene	9.3	9.3 U	9.3 UJ		ug/kg	S
SAIA-SB47-5	I2884-04	SO	N	1,4-Dichlorobenzene	9.3	9.3 U	9.3 UJ		ug/kg	S
SAIA-SB47-5	I2884-04	SO	N	Chlorobenzene	9.3	9.3 U	9.3 UJ		ug/kg	S
SAIA-SB47-5	I2884-04	SO	N	Methylene Chloride	9.3	9.3 J	9.3 U		ug/kg	B1

Test Method: SW8082 Extraction Method: SW3540C Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB47-0.5	I2884-01	SO	N	PCB-1260 (Arochlor 1260)	36.0	27.0 JP	27.0 J		ug/kg	TR

Detected Results

Test Method: CSVOL12	Extraction Method: SW3520		Leach Method: NONE							
FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SAIA-ER01-0417	I2884-09	WQ	EB	1	Acetophenone	10.0	1.6 J	1.6 J	ug/L	TR
SAIA-ER01-0417	I2884-09	WQ	EB	1	Diethyl Phthalate	5.2	1.7 J	1.7 J	ug/L	TR

Test Method: CSVOL12	Extraction Method: SW3550B		Leach Method: NONE							
FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SAIA-SB47-0.5	I2884-01	SO	N	1	Acenaphthene	180	42.0 J	42.0 J	ug/kg	TR
SAIA-SB47-0.5	I2884-01	SO	N	1	Anthracene	180	78.0 J	78.0 J	ug/kg	TR
SAIA-SB47-0.5	I2884-01	SO	N	1	Benzo(a)anthracene	180	370	370	ug/kg	
SAIA-SB47-0.5	I2884-01	SO	N	1	Benzo(a)pyrene	180	360	360	ug/kg	
SAIA-SB47-0.5	I2884-01	SO	N	1	Benzo(b)fluoranthene	180	390	390	ug/kg	
SAIA-SB47-0.5	I2884-01	SO	N	1	Benzo(g,h,i)perylene	180	110 J	110 J	ug/kg	TR
SAIA-SB47-0.5	I2884-01	SO	N	1	Benzo(k)fluoranthene	180	270	270	ug/kg	
SAIA-SB47-0.5	I2884-01	SO	N	1	Carbazole	360	83.0 J	83.0 J	ug/kg	TR
SAIA-SB47-0.5	I2884-01	SO	N	1	Chrysene	180	510	510	ug/kg	
SAIA-SB47-0.5	I2884-01	SO	N	1	Dibenz(a,h)anthracene	180	43.0 J	43.0 J	ug/kg	TR
SAIA-SB47-0.5	I2884-01	SO	N	1	Dibenzofuran	180	69.0 J	69.0 J	ug/kg	TR
SAIA-SB47-0.5	I2884-01	SO	N	1	Dimethyl Phthalate	180	220	220	ug/kg	
SAIA-SB47-0.5	I2884-01	SO	N	1	Fluoranthene	360	1000	1000	ug/kg	
SAIA-SB47-0.5	I2884-01	SO	N	1	Fluorene	180	94.0 J	94.0 J	ug/kg	TR
SAIA-SB47-0.5	I2884-01	SO	N	1	Indeno(1,2,3-c,d)pyrene	180	130 J	130 J	ug/kg	TR
SAIA-SB47-0.5	I2884-01	SO	N	1	Naphthalene	180	66.0 J	66.0 J	ug/kg	TR
SAIA-SB47-0.5	I2884-01	SO	N	1	Phenanthrene	180	1000	1000	ug/kg	
SAIA-SB47-0.5	I2884-01	SO	N	1	Phenol	360	43.0 J	43.0 J	ug/kg	TR
SAIA-SB47-0.5	I2884-01	SO	N	1	Pyrene	180	860	860	ug/kg	
SAIA-SB47-15	I2884-05	SO	N	1	Dimethyl Phthalate	210	360	360	ug/kg	

Detected Results

Test Method: CSVOL12 Extraction Method: SW3550B Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SAIA-SB47-15	I2884-05	SO	N	1	Phenol	410	97.0 J	97.0 J	ug/kg	TR
SAIA-SB47-2	I2884-02	SO	N	1	Dimethyl Phthalate	190	330	330	ug/kg	
SAIA-SB47-2	I2884-02	SO	N	1	Phenol	360	67.0 J	67.0 J	ug/kg	TR
SAIA-SB47-25	I2884-06	SO	N	1	Dimethyl Phthalate	220	500	500	ug/kg	
SAIA-SB47-25	I2884-06	SO	N	1	Phenol	430	100 J	100 J	ug/kg	TR
SAIA-SB47-3	I2884-03	SO	FD	1	Dimethyl Phthalate	190	300	300	ug/kg	
SAIA-SB47-3	I2884-03	SO	FD	1	Phenol	370	65.0 J	65.0 J	ug/kg	TR
SAIA-SB47-35	I2884-07	SO	N	1	Dimethyl Phthalate	220	510	510	ug/kg	
SAIA-SB47-35	I2884-07	SO	N	1	Phenol	430	120 J	120 J	ug/kg	TR
SAIA-SB47-5	I2884-04	SO	N	1	Dimethyl Phthalate	190	340	340	ug/kg	
SAIA-SB47-5	I2884-04	SO	N	1	Phenol	380	78.0 J	78.0 J	ug/kg	TR

Test Method: CVOL Extraction Method: METHOD Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SAIA-ER01-0417	I2884-09	WQ	EB	1	Acetone	10.0	1.4 J	1.4 J	ug/L	
SAIA-SB47-0.5	I2884-01	SO	N	1	1,2,3-Trichloropropane	6.5	6.5 U	6.5 U	ug/kg	
SAIA-SB47-15	I2884-05	SO	N	1	1,2,3-Trichloropropane	6.1	6.1 U	6.1 U	ug/kg	
SAIA-SB47-2	I2884-02	SO	N	1	1,2,3-Trichloropropane	5.9	5.9 U	5.9 U	ug/kg	
SAIA-SB47-25	I2884-06	SO	N	1	1,2,3-Trichloropropane	6.1	6.1 U	6.1 U	ug/kg	
SAIA-SB47-3	I2884-03	SO	FD	1	1,2,3-Trichloropropane	7.0	7.0 U	7.0 U	ug/kg	
SAIA-SB47-35	I2884-07	SO	N	1	1,2,3-Trichloropropane	6.5	6.5 U	6.5 U	ug/kg	
SAIA-SB47-5	I2884-04	SO	N	1	1,2,3-Trichloropropane	9.3	9.3 U	9.3 U	ug/kg	

Detected Results

Test Method: SW8082	Extraction Method: SW3540C		Leach Method: NONE							
FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SAIA-SB47-0.5	I2884-01	SO	N	1	PCB-1260 (Arochlor 1260)	36.0	27.0 JP	27.0 J	ug/kg	TR

Rejected Results

--No Records Found--

Review Questions

Method: CSVOL12

Review Questions	Yes	No	NA	Comment
Stage 2 Review: COC - Custody Trail?	•			Custody seals were intact upon receipt and the COC was signed correctly.
Stage 2 Review: COC - Temperature/Condition?	•			The cooler was received at 3.7 deg. C.
Stage 2 Review: COC - Receipt anomalies?	•			COC was revised due to omission of YAB14 sample and YAB15 CLP volatiles analysis, from original hardcopy COC.
Stage 2 Review: COC - Sample/Methods checked?	•			All samples requested for CLP Semivolatiles analysis.
Stage 2 Review: Case Narrative - Anomalies?	•			COC anomalies noted. Sample YAB41 is the EB for the soil sampling event.
Stage 2 Review: Samples - Collection date?	•			Sampled on 4/26/2017.
Stage 2 Review: Samples - Extraction date?	•			Water sample extracted 5/2/2017. All soil samples extracted 5/4/2017.
Stage 2 Review: Samples - Analysis date?	•			Water sample analyzed 5/4/2017. 6 soil samples analyzed 5/6/2017. Sample YAB34 (SAIA-SB47-0.5) analyzed 5/10/2017.
Stage 2 Review: Samples - Holding time?	•			Water sample extracted within 7 days and soil samples analyzed within 14 days holding times.
Stage 2 Review: Samples - Batching?	•			EB sample batch BG026864. 6 soil samples BG026874. Sample YAB34 is BG026935.
Stage 2 Review: Samples - Surrogate recoveries?	•			Low surrogate (DMC) %R for 4-chloroanilene-d4 and 4-methylphenol-d8 in YAB41 (EB), and 1,4-dioxane-d8 in YAB34 (SAIA-SG47-0.5). Qualify 4-chloroanilene, HCCPD, and 3,3'-dichlorobenzidine in YAB41, and 1,4-dioxane in YAB34 UJ [DQ Reason S]. All other surrogate issues resolved and no quals. warranted.
Stage 2 Review: Samples - Lab qualifiers?	•			Estimated J trace (TR) results and JN qualifiers for TICs.
Stage 2 Review: Calibration - ICAL?	•			ICAL run 4/27/2017. All RRFs and %RSDs acceptable
Stage 2 Review: Calibration - ICV?	•			SICV58 on 4/27/2017, all min. RRF and %D acceptable.
Stage 2 Review: Calibration - CCV?	•			CCAL2074 and 2075 on 5/4/2017, all min. RRF and %D acceptable.
Stage 2 Review: Blank - Method blank?	•			Method blanks run on 5/4 and 5/6/2017. All target SVOLs are ND.
Stage 2 Review: Blank - Trip blank?			•	
Stage 2 Review: Blank - Equipment blank?	•			Sample YAB41 is the EB for this soil sampling event. Low level detects of acetophenone (1.6 ug/L) and diethylphthalate (1.7 ug/L) do not warrant soil samples qualification.
Stage 2 Review: Precision/Accuracy - MS/MSD?			•	Not applicable for CLP SVOLs with DMCs in each sample.
Stage 2 Review: Precision/Accuracy - LCS/LCSD?			•	Not applicable for CLP SVOLs with DMCs in each sample.
Stage 2 Review: Quantitation - PQLs?	•			All IS areas and RTs are stable. Most RLs < 250 ug/kg, acceptable.

Review Questions

Method: CSVOL12

Review Questions	Yes	No	NA	Comment
Stage 2 Review: Quantitation - Dilution Factor?	•			Percent solids factors applied to all soils.
Stage 2 Review: Quantitation - Results (i.e. correct analytes)?	•			TCL SVOLs reported for all samples.
Stage 2 Review: Field Duplicates - RPD within limits?	•			All target analytes in field pair YAB35/36 are NDs. No evaluation of precision applicable.

Review Questions

Method: CVOL

Review Questions	Yes	No	NA	Comment
Stage 2 Review: COC - Custody Trail?	•			Custody seals were intact upon receipt and the COC was signed correctly.
Stage 2 Review: COC - Temperature/Condition?	•			Cooler was received at 3.7 deg. C.
Stage 2 Review: COC - Receipt anomalies?	•			COC was revised due to omission of YAB14 sample and YAB15 CLP volatiles analysis, from original hardcopy COC.
Stage 2 Review: COC - Sample/Methods checked?	•			All samples analyzed for CLP Trace Volatiles + 123-TCP.
Stage 2 Review: Case Narrative - Anomalies?	•			COC anomalies noted. Sample YAB41 is the EB for the soil sampling event.
Stage 2 Review: Samples - Collection date?	•			Samples collected on 4/26/2017
Stage 2 Review: Samples - Extraction date?	•			Samples extracted (purged) 4/27/2017, except YAB37 on 5/2/2107.
Stage 2 Review: Samples - Analysis date?	•			Samples analyzed 4/27/2017, except YAB37 on 5/2/2107.
Stage 2 Review: Samples - Holding time?	•			All samples analyzed within 14 day hold time.
Stage 2 Review: Samples - Batching?	•			5 soils in VI051598; YAB37 (SAIA-SB47-5) in VI051671; and EB (ER01/YAB41) in VV001684
Stage 2 Review: Samples - Surrogate recoveries?	•			Low surrogate recoveries for 1,4-dichloroethane-d4 and 1,4-dichlorobenzene-d4, associated results in samples qualified J-/UJ for surrogates out (S).
Stage 2 Review: Samples - Lab qualifiers?	•			Minor estimated results J for acetone and methylene chloride in associated blanks.
Stage 2 Review: Calibration - ICAL?	•			ICAL %RSD failed for 1,1-DCA. No quals for NDs. A DMC RRF failed in ICAL. No quals applied.
Stage 2 Review: Calibration - ICV?	•			A DMC RRF failed in ICV. No quals applied.
Stage 2 Review: Calibration - CCV?	•			A DMC RRF failed in CCVs. No quals applied.
Stage 2 Review: Blank - Method blank?	•			Methylene chloride in YAB37 (SAIA-SB47-5) qualified U at the RL since also detected in storage blank (B1).
Stage 2 Review: Blank - Trip blank?			•	NA for soil samples.
Stage 2 Review: Blank - Field blank?			•	NA for soil samples.
Stage 2 Review: Precision/Accuracy - MS/MSD?			•	Not applicable for CLP CVOLs with DMCs in each sample.
Stage 2 Review: Precision/Accuracy - LCS/LCSD?			•	Not applicable for CLP CVOLs with DMCs in each sample.
Stage 2 Review: Quantitation - PQLs?	•			All IS areas and RTs are stable. Most RLs < 10 ug/kg, acceptable.
Stage 2 Review: Quantitation - Dilution Factor?	•			Percent solids factors applied to all soils.
Stage 2 Review: Quantitation - Results (i.e. correct analytes)?	•			TCL CVOLs reported for all samples.
Stage 2 Review: Field Duplicates - RPD within limits?	•			All target analytes in field pair YAB35/36 are NDs. No evaluation of precision applicable.

Review Questions

Method: SW8082

Review Questions	Yes	No	NA	Comment
Stage 2 Review: COC - Custody Trail?	•			Custody seals were intact upon receipt and the COC was signed correctly.
Stage 2 Review: COC - Temperature/Condition?	•			Samples arrived at 3.7 deg. C.
Stage 2 Review: COC - Receipt anomalies?	•			COC was revised due to omission of YAB14 sample and YAB15 CLP volatiles analysis, from original hardcopy COC.
Stage 2 Review: COC - Sample/Methods checked?	•			All samples analyzed for CLP Aroclors.
Stage 2 Review: Case Narrative - Anomalies?	•			None noted
Stage 2 Review: Samples - Collection date?	•			Samples collected on 4/26/2017.
Stage 2 Review: Samples - Extraction date?	•			Water sample extracted 5/2/2017. All soil samples extracted 5/6/2017.
Stage 2 Review: Samples - Analysis date?	•			Water sample analyzed 5/4/2017. Soil samples analyzed 5/11/2017.
Stage 2 Review: Samples - Holding time?	•			All samples analyzed within the 40 days hold time.
Stage 2 Review: Samples - Batching?	•			Water sample (EB) PR018105. Soil samples PR018245.
Stage 2 Review: Samples - Surrogate recoveries?	•			All surrogate recoveries within QC limits.
Stage 2 Review: Samples - Lab qualifiers?	•			Only one estimated trace (JP) Aroclor 1260 result.
Stage 2 Review: Calibration - ICAL?	•			ICAL on 5/3/2017. All RTs and surrogates acceptable.
Stage 2 Review: Calibration - Were Tunes within acceptance criteria including frequency?	•			Analyte IDs (Form 10B) RTs and %D acceptable.
Stage 2 Review: Samples - Internal Standards within acceptance criteria?	•			Analyte IDs (Form 10B) RTs and %D acceptable.
Stage 2 Review: Calibration - ICV?	•			ICV on 5/4/2017. All RTs and %Ds acceptable.
Stage 2 Review: Calibration - CCV?	•			CCV1 and 2, on 5/10-11/2017. All RTs and %Ds acceptable.
Stage 2 Review: Blank - Method blank?	•			Method blank run on 5/4/2017, all NDs.
Stage 2 Review: Blank - Trip blank?			•	
Stage 2 Review: Blank - Equipment blank?			•	Sample YAB41 is the EB for this soil sampling event. All Aroclors are ND at 1 ug/L.
Stage 2 Review: Precision/Accuracy - MS/MSD?	•			MS not run for this SDG. LCS and SDG YAB14 MS acceptable. No data quals. warranted.
Stage 2 Review: Precision/Accuracy - LCS/LCSD?	•			LCS run 5/4/2017. All %R acceptable.
Stage 2 Review: Quantitation - PQLs?	•			All IS areas and RTs are stable. All RLs < 45 ug/kg, acceptable.
Stage 2 Review: Quantitation - Dilution Factor?	•			Percent solids factors applied to all soils.
Stage 2 Review: Quantitation - Results (i.e. correct analytes)?	•			TCL Aroclors reported for all samples.

Review Questions

Method: SW8082

Review Questions	Yes	No	NA	Comment
Stage 2 Review: Field Duplicates - RPD within limits?	•			All target analytes in field pair YAB35/36 are NDs. No evaluation of precision applicable.

Facility:	Southern Avenue Industrial Area
Event:	Spring 2014 Soil Sampling
Guidance Document:	Southern Avenue Industrial Area SAP
Contract Laboratory:	KAP TECHNOLOGIES INC., THE WOODLANDS, TX
Field Contractor:	Innovative Technical Solutions, Inc., Walnut Creek, CA
Data Review Contractor:	
SDG:	Y9EF8, Certified - 5/15/2014 by wtse
QC Level:	S2BVEM
Project Manager:	Don Gruber
Data Reviewer:	Tom Beer
Data Reviewer Title:	Project Chemist
Date of Review Report:	November 20, 2014
Reissued by Gilbane:	March 26, 2018

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
CSVOL12/NONE	18	2
CVOL/NONE	18	2
SW8082/NONE	18	2

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Southern Avenue Industrial Area SAP to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Innovative Technical Solutions, Inc., Walnut Creek, CA; analyses were performed by KAP TECHNOLOGIES INC., THE WOODLANDS, TX and were reported under sample delivery group (SDG) Y9EF8. Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

Blank
Blank - Negative
Field Duplicate
LCS Recovery
MS Recovery
MS RPD
Prep Hold Time
Surrogate
Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

Ambient Blank
Calibration Blank
Calibration Blank - Negative
Continuing Calibration Verification
Equipment Blank
Field Blank
Initial Calibration Verification
Lab Replicate RPD
Material Blank
Negative Blank
Trip Blank

A representative sampling or ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 38 results (1.47%) out of the 2580 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. Trace values are not counted as qualified results in the above count. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Gilbane reviewed the KAP Tech lab report, COCs, case narrative, and EXES data review package.

No sample receipt or calibration anomalies were noted.

Qualifiers were added for lab blank (B1, B5) detects, poor surrogate recoveries (S), and minor matrix (M) effects.

The percent moisture and solids for sample SB36-15 were transposed per the EPA Region 9 Data Review Reports.

The detection limits have been corrected in the database, previous data qualifiers for questionable % moisture

Analytical Method	Comment

March 26, 2018

Reviewed by ,

Qualified Results

Test Method: CSVOL12	Extraction Method: SW3550B		Leach Method: NONE		Matrix: SO			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB29-0.5	N	Benzo(a)anthracene	180	85.0 J	85.0 J		UG/KG	TR
SAIA-SB29-0.5	N	Benzo(a)pyrene	180	130 J	130 J		UG/KG	TR
SAIA-SB29-0.5	N	Benzo(g,h,i)perylene	180	120 J	120 J		UG/KG	TR
SAIA-SB29-0.5	N	Benzo(k)fluoranthene	180	120 J	120 J		UG/KG	TR
SAIA-SB29-0.5	N	bis(2-Ethylhexyl) Phthalate	180	150 J	150 J		UG/KG	TR
SAIA-SB29-0.5	N	Chrysene	180	120 J	120 J		UG/KG	TR
SAIA-SB29-0.5	N	Di-n-Butyl Phthalate	180	85.0 J	85.0 J		UG/KG	TR
SAIA-SB29-0.5	N	Fluoranthene	180	140 J	140 J		UG/KG	TR
SAIA-SB29-0.5	N	Indeno(1,2,3-c,d)pyrene	180	86.0 J	86.0 J		UG/KG	TR
SAIA-SB29-15	N	bis(2-Ethylhexyl) Phthalate	190	100 J	100 J		UG/KG	TR
SAIA-SB36-0.5	N	Benzo(a)anthracene	180	79.0 J	79.0 J		UG/KG	TR
SAIA-SB36-0.5	N	Benzo(a)pyrene	180	110 J	110 J		UG/KG	TR
SAIA-SB36-0.5	N	Benzo(b)fluoranthene	180	90.0 J	90.0 J		UG/KG	TR
SAIA-SB36-0.5	N	Benzo(k)fluoranthene	180	100 J	100 J		UG/KG	TR
SAIA-SB36-0.5	N	Chrysene	180	120 J	120 J		UG/KG	TR
SAIA-SB36-0.5	N	Fluoranthene	180	120 J	120 J		UG/KG	TR
SAIA-SB36-0.5	N	Indeno(1,2,3-c,d)pyrene	180	73.0 J	73.0 J		UG/KG	TR
SAIA-SB36-0.5	N	Pyrene	180	120 J	120 J		UG/KG	TR
SAIA-SB36-2	N	Phenanthrene	180	86.0 J	86.0 J		UG/KG	TR
SAIA-SB36-5	N	Di-n-Butyl Phthalate	180	84.0 J	84.0 J		UG/KG	TR
SAIA-SB37-0.5	N	Benzo(a)anthracene	180	54.0 J	54.0 J		UG/KG	TR
SAIA-SB37-0.5	N	Benzo(a)pyrene	180	70.0 J	70.0 J		UG/KG	TR
SAIA-SB37-0.5	N	Benzo(b)fluoranthene	180	55.0 J	55.0 J		UG/KG	TR
SAIA-SB37-0.5	N	Benzo(g,h,i)perylene	180	55.0 J	55.0 J		UG/KG	TR
SAIA-SB37-0.5	N	Benzo(k)fluoranthene	180	60.0 J	60.0 J		UG/KG	TR
SAIA-SB37-0.5	N	Chrysene	180	78.0 J	78.0 J		UG/KG	TR
SAIA-SB37-0.5	N	Fluoranthene	180	70.0 J	70.0 J		UG/KG	TR
SAIA-SB37-0.5	N	Pyrene	180	79.0 J	79.0 J		UG/KG	TR
SAIA-SB37-6	FD	bis(2-Ethylhexyl) Phthalate	180	100 J	100 J		UG/KG	TR
SAIA-SB38-0.5	N	Anthracene	190	140 J	140 J		UG/KG	TR
SAIA-SB38-0.5	N	Dibenz(a,h)anthracene	190	120 J	120 J		UG/KG	TR
SAIA-SB38-2	N	Di-n-Butyl Phthalate	180	89.0 J	89.0 J		UG/KG	TR

Test Method: CVOL	Extraction Method: SW5035		Leach Method: NONE		Matrix: SO			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB29-0.5	N	Benzene	6.0	6.0 U	6.0 UJ		UG/KG	M
SAIA-SB29-15	N	Methylene Chloride	5.9	5.9 JB	5.9 U		UG/KG	B1/B5
SAIA-SB29-25	N	Methylene Chloride	7.2	7.2 JB	7.2 U		UG/KG	B1/B5
SAIA-SB29-35	N	Methylene Chloride	5.3	5.3 JB	5.3 U		UG/KG	B1/B5
SAIA-SB36-0.5	N	Methylene Chloride	5.8	5.8 JB	5.8 U		UG/KG	B1/B5

Qualified Results

Test Method: CVOL	Extraction Method: SW5035		Leach Method: NONE		Matrix: SO			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB36-15	N	Methylene Chloride	6.4	6.4 U	6.4 U		UG/KG	B1/B5
SAIA-SB36-2	N	Methylene Chloride	5.0	5.0 JB	5.0 U		UG/KG	B1/B5
SAIA-SB36-25	N	Methylene Chloride	6.7	6.7 U	6.7 U		UG/KG	B1/B5
SAIA-SB36-26	FD	Methylene Chloride	6.5	6.5 JB	6.5 U		UG/KG	B1/B5
SAIA-SB36-35	N	Methylene Chloride	6.1	6.1 JB	6.1 U		UG/KG	B1/B5
SAIA-SB36-5	N	Methylene Chloride	5.5	5.5 JB	5.5 U		UG/KG	B1/B5
SAIA-SB37-0.5	N	Methylene Chloride	5.0	5.0 JB	5.0 U		UG/KG	B1/B5
SAIA-SB37-15	N	Methylene Chloride	6.6	6.6 JB	6.6 U		UG/KG	B1/B5
SAIA-SB37-2	N	Methylene Chloride	5.6	5.6 JB	5.6 U		UG/KG	B1/B5
SAIA-SB37-25	N	Methylene Chloride	6.7	6.7 JB	6.7 U		UG/KG	B1/B5
SAIA-SB37-35	N	Methylene Chloride	5.1	5.1 JB	5.1 U		UG/KG	B1/B5
SAIA-SB37-5	N	Methylene Chloride	6.2	6.2 JB	6.2 U		UG/KG	B1/B5
SAIA-SB37-6	FD	Methylene Chloride	5.1	5.1 JB	5.1 U		UG/KG	B1/B5
SAIA-SB38-0.5	N	Methylene Chloride	6.4	6.4 JB	6.4 U		UG/KG	B1/B5
SAIA-SB38-2	N	Methylene Chloride	5.1	5.1 JB	5.1 U		UG/KG	B1/B5

Test Method: SW8082	Extraction Method: SW3550B		Leach Method: NONE		Matrix: SO			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB29-0.5	N	PCB-1254 (Arochlor 1254)	35.0	29.0 JP	29.0 J		UG/KG	TR
SAIA-SB29-0.5	N	PCB-1260 (Arochlor 1260)	35.0	29.0 J	29.0 J		UG/KG	TR
SAIA-SB29-25	N	PCB-1016 (Arochlor 1016)	40.0	40.0 U	40.0 UJ	-	UG/KG	S
SAIA-SB29-25	N	PCB-1221 (Arochlor 1221)	40.0	40.0 U	40.0 UJ	-	UG/KG	S
SAIA-SB29-25	N	PCB-1232 (Arochlor 1232)	40.0	40.0 U	40.0 UJ	-	UG/KG	S
SAIA-SB29-25	N	PCB-1242 (Arochlor 1242)	40.0	40.0 U	40.0 UJ	-	UG/KG	S
SAIA-SB29-25	N	PCB-1248 (Arochlor 1248)	40.0	40.0 U	40.0 UJ	-	UG/KG	S
SAIA-SB29-25	N	PCB-1254 (Arochlor 1254)	40.0	40.0 U	40.0 UJ	-	UG/KG	S
SAIA-SB29-25	N	PCB-1260 (Arochlor 1260)	40.0	40.0 U	40.0 UJ	-	UG/KG	S
SAIA-SB29-25	N	PCB-1262 (Arochlor 1262)	40.0	40.0 U	40.0 UJ	-	UG/KG	S
SAIA-SB29-25	N	PCB-1268 (Arochlor 1268)	40.0	40.0 U	40.0 UJ	-	UG/KG	S
SAIA-SB36-0.5	N	PCB-1254 (Arochlor 1254)	35.0	12.0 JP	12.0 J		UG/KG	TR
SAIA-SB36-2	N	PCB-1016 (Arochlor 1016)	35.0	35.0 U	35.0 UJ		UG/KG	S
SAIA-SB36-2	N	PCB-1221 (Arochlor 1221)	35.0	35.0 U	35.0 UJ	-	UG/KG	S
SAIA-SB36-2	N	PCB-1232 (Arochlor 1232)	35.0	35.0 U	35.0 UJ	-	UG/KG	S
SAIA-SB36-2	N	PCB-1242 (Arochlor 1242)	35.0	35.0 U	35.0 UJ	-	UG/KG	S
SAIA-SB36-2	N	PCB-1248 (Arochlor 1248)	35.0	35.0 U	35.0 UJ	-	UG/KG	S
SAIA-SB36-2	N	PCB-1254 (Arochlor 1254)	35.0	35.0 U	35.0 UJ	-	UG/KG	S
SAIA-SB36-2	N	PCB-1260 (Arochlor 1260)	35.0	19.0 J	19.0 J	-	UG/KG	S/TR
SAIA-SB36-2	N	PCB-1262 (Arochlor 1262)	35.0	35.0 U	35.0 UJ	-	UG/KG	S
SAIA-SB36-2	N	PCB-1268 (Arochlor 1268)	35.0	35.0 U	35.0 UJ	-	UG/KG	S

Qualified Results

Test Method: SW8082	Extraction Method: SW3550B		Leach Method: NONE		Matrix: SO			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB38-0.5	N	PCB-1260 (Arochlor 1260)	36.0	9.9 JP	9.9 J		UG/KG	TR

Reason Code Definitions

Code	Definition
B1	The analyte was found in an associated method blank.
B5	The analyte was found in an associated blank as well as in the sample.
L	Percent recovery of laboratory control sample recovery was outside established limits
M	Matrix spike recovery was outside established criteria.
S	Surrogate recovery out of criteria (upper or lower limit)
TR	Trace Level Detect

Flag Code and Definitions

Flag	Definition
J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

Automated Data Review Detail Report for Y9EF8
Southern Avenue Industrial Area
Southern Avenue Industrial Area SAP

Batch Report

Test Method: CSVOL12 Analysis Batch: D13317

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
SAIA-SB/SG29	SO	SAIA-SB29-25	S-6426.03	D13220	1/1	4/16/2014 14:40	4/24/2014 09:05	4/28/2014 23:18	D13342/	N
SAIA-SB/SG29	SO	SAIA-SB29-35	S-6426.04	D13220	1/1	4/16/2014 14:50	4/24/2014 09:05	4/28/2014 23:45	D13342/	N
SAIA-SB/SG37	SO	SAIA-SB37-6	S-6428.01	D13220	1/1	4/17/2014 10:15	4/24/2014 09:05	4/29/2014 00:11	D13342/	FD

Test Method: CSVOL12 Analysis Batch: D13339

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	SQ	LABQC	SBLK02	D13220	1/1	4/24/2014 09:05	4/24/2014 09:05	4/29/2014 02:28	D13342/	LB
SAIA-SB/SG36	SO	SAIA-SB36-15	S-6428.05	D13220	1/1	4/17/2014 08:35	4/24/2014 09:05	4/29/2014 02:54	D13342/	N
SAIA-SB/SG36	SO	SAIA-SB36-25	S-6428.06	D13220	1/1	4/17/2014 08:45	4/24/2014 09:05	4/29/2014 03:21	D13342/	N
SAIA-SB/SG36	SO	SAIA-SB36-26	S-6428.07	D13220	1/1	4/17/2014 08:50	4/24/2014 09:05	4/29/2014 03:47	D13342/	FD
SAIA-SB/SG36	SO	SAIA-SB36-35	S-6428.08	D13220	1/1	4/17/2014 09:10	4/24/2014 09:05	4/29/2014 04:13	D13342/	N
SAIA-SB/SG37	SO	SAIA-SB37-5	S-6428.11	D13220	1/1	4/17/2014 10:10	4/24/2014 09:05	4/29/2014 04:39	D13342/	N
SAIA-SB/SG37	SO	SAIA-SB37-15	S-6428.12	D13220	1/1	4/17/2014 10:25	4/24/2014 09:05	4/29/2014 05:06	D13342/	N
SAIA-SB/SG37	SO	SAIA-SB37-25	S-6428.13	D13220	1/1	4/17/2014 10:35	4/24/2014 09:05	4/29/2014 05:32	D13342/	N
SAIA-SB/SG37	SO	SAIA-SB37-35	S-6428.14	D13220	1/1	4/17/2014 10:45	4/24/2014 09:05	4/29/2014 05:59	D13342/	N
SAIA-SB/SG38	SO	SAIA-SB38-2	S-6428.16	D13220	1/1	4/17/2014 13:00	4/24/2014 09:05	4/29/2014 06:26	D13342/	N

Test Method: CSVOL12 Analysis Batch: D13386

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
SAIA-SB/SG29	SO	SAIA-SB29-0.5	S-6426.01	D13220	1/1	4/16/2014 14:00	4/24/2014 09:05	4/30/2014 12:40	D13342/	N
SAIA-SB/SG29	SO	SAIA-SB29-15	S-6426.02	D13220	1/1	4/16/2014 14:30	4/24/2014 09:05	4/30/2014 13:06	D13342/	N

Automated Data Review Detail Report for Y9EF8
Southern Avenue Industrial Area
Southern Avenue Industrial Area SAP

Batch Report

Test Method: CSVOL12 Analysis Batch: D13386

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
SAIA-SB/SG36	SO	SAIA-SB36-0.5	S-6428.02	D13220	1/1	4/17/2014 08:00	4/24/2014 09:05	4/30/2014 13:31	D13342/	N
SAIA-SB/SG36	SO	SAIA-SB36-2	S-6428.03	D13220	1/1	4/17/2014 08:35	4/24/2014 09:05	4/30/2014 13:56	D13342/	N

Test Method: CSVOL12 Analysis Batch: D13441

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
SAIA-SB/SG36	SO	SAIA-SB36-5	S-6428.04	D13421	1/1	4/17/2014 08:10	4/24/2014 09:05	5/2/2014 08:33	D13342/	N
SAIA-SB/SG37	SO	SAIA-SB37-0.5	S-6428.09	D13421	1/1	4/17/2014 10:00	4/24/2014 09:05	5/2/2014 08:59	D13342/	N
SAIA-SB/SG37	SO	SAIA-SB37-2	S-6428.10	D13421	1/1	4/17/2014 10:05	4/24/2014 09:05	5/2/2014 09:52	D13342/	N
SAIA-SB/SG29	SO	SAIA-SB29-0.5	S-6426.01MS	D13421	1/1	4/16/2014 14:00	4/24/2014 09:05	5/2/2014 10:18	D13342/	MS
SAIA-SB/SG29	SO	SAIA-SB29-0.5	S-6426.01MSD	D13421	1/1	4/16/2014 14:00	4/24/2014 09:05	5/2/2014 10:44	D13342/	SD
SAIA-SB/SG38	SO	SAIA-SB38-0.5	S-6428.15	D13421	1/1	4/17/2014 12:55	4/24/2014 09:05	5/2/2014 11:10	D13342/	N

Test Method: CVOL Analysis Batch: G28653

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	SQ	LABQC	VBLK9X	G28651	1/1	4/24/2014 11:07	4/24/2014 11:07	4/24/2014 11:07	G28656/	LB
SAIA-SB/SG29	SO	SAIA-SB29-0.5	S-6426.01	G28651	1/1	4/16/2014 14:00	4/24/2014 11:40	4/24/2014 11:40	G28656/	N
SAIA-SB/SG29	SO	SAIA-SB29-15	S-6426.02	G28651	1/1	4/16/2014 14:30	4/24/2014 12:13	4/24/2014 12:13	G28656/	N
SAIA-SB/SG29	SO	SAIA-SB29-25	S-6426.03	G28651	1/1	4/16/2014 14:40	4/24/2014 12:45	4/24/2014 12:45	G28656/	N
SAIA-SB/SG29	SO	SAIA-SB29-35	S-6426.04	G28651	1/1	4/16/2014 14:50	4/24/2014 13:17	4/24/2014 13:17	G28656/	N
SAIA-SB/SG37	SO	SAIA-SB37-6	S-6428.01	G28651	1/1	4/17/2014 10:15	4/24/2014 13:49	4/24/2014 13:49	G28656/	FD
SAIA-SB/SG36	SO	SAIA-SB36-0.5	S-6428.02	G28651	1/1	4/17/2014 08:00	4/24/2014 14:21	4/24/2014 14:21	G28656/	N
SAIA-SB/SG36	SO	SAIA-SB36-2	S-6428.03	G28651	1/1	4/17/2014 08:35	4/24/2014 14:53	4/24/2014 14:53	G28656/	N

Automated Data Review Detail Report for Y9EF8
Southern Avenue Industrial Area
Southern Avenue Industrial Area SAP

Batch Report

Test Method: CVOL Analysis Batch: G28653

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
SAIA-SB/SG36	SO	SAIA-SB36-5	S-6428.04	G28651	1/1	4/17/2014 08:10	4/24/2014 15:25	4/24/2014 15:25	G28656/	N
SAIA-SB/SG36	SO	SAIA-SB36-15	S-6428.05	G28651	1/1	4/17/2014 08:35	4/24/2014 15:58	4/24/2014 15:58	G28656/	N
SAIA-SB/SG36	SO	SAIA-SB36-25	S-6428.06	G28651	1/1	4/17/2014 08:45	4/24/2014 16:30	4/24/2014 16:30	G28656/	N
SAIA-SB/SG36	SO	SAIA-SB36-26	S-6428.07	G28651	1/1	4/17/2014 08:50	4/24/2014 17:02	4/24/2014 17:02	G28656/	FD
SAIA-SB/SG36	SO	SAIA-SB36-35	S-6428.08	G28651	1/1	4/17/2014 09:10	4/24/2014 18:07	4/24/2014 18:07	G28656/	N
SAIA-SB/SG37	SO	SAIA-SB37-0.5	S-6428.09	G28651	1/1	4/17/2014 10:00	4/24/2014 18:39	4/24/2014 18:39	G28656/	N
SAIA-SB/SG37	SO	SAIA-SB37-2	S-6428.10	G28651	1/1	4/17/2014 10:05	4/24/2014 19:11	4/24/2014 19:11	G28656/	N
SAIA-SB/SG37	SO	SAIA-SB37-5	S-6428.11	G28651	1/1	4/17/2014 10:10	4/24/2014 19:43	4/24/2014 19:43	G28656/	N

Test Method: CVOL Analysis Batch: G28674

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	SQ	LABQC	VBLK1A	G28651	1/1	4/25/2014 10:40	4/25/2014 10:40	4/25/2014 10:40	G28676/	LB
SAIA-SB/SG37	SO	SAIA-SB37-15	S-6428.12	G28651	1/1	4/17/2014 10:25	4/25/2014 11:12	4/25/2014 11:12	G28676/	N
SAIA-SB/SG37	SO	SAIA-SB37-25	S-6428.13	G28651	1/1	4/17/2014 10:35	4/25/2014 11:44	4/25/2014 11:44	G28676/	N
SAIA-SB/SG37	SO	SAIA-SB37-35	S-6428.14	G28651	1/1	4/17/2014 10:45	4/25/2014 12:16	4/25/2014 12:16	G28676/	N
SAIA-SB/SG38	SO	SAIA-SB38-0.5	S-6428.15	G28651	1/1	4/17/2014 12:55	4/25/2014 12:48	4/25/2014 12:48	G28676/	N
SAIA-SB/SG38	SO	SAIA-SB38-2	S-6428.16	G28651	1/1	4/17/2014 13:00	4/25/2014 13:20	4/25/2014 13:20	G28676/	N
SAIA-SB/SG29	SO	SAIA-SB29-0.5	S-6426.01MS	G28651	1/1	4/16/2014 14:00	4/25/2014 13:52	4/25/2014 13:52	G28676/	MS
SAIA-SB/SG29	SO	SAIA-SB29-0.5	S-6426.01MSD	G28651	1/1	4/16/2014 14:00	4/25/2014 14:24	4/25/2014 14:24	G28676/	SD
LABQC	SQ	LABQC	S-6426.05	G28651	1/1	4/25/2014 14:56	4/25/2014 14:56	4/25/2014 14:56	G28676/	LB

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Batch Report

Test Method: SW8082 Analysis Batch: P50189-1

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	SQ	LABQC	ABLK27	P50183-1	1/1	4/24/2014 19:55	4/24/2014 19:55	4/30/2014 09:21	P50192/	LB
LABQC	SQ	LABQC	ALCS27	P50183-1	1/1	4/24/2014 19:55	4/24/2014 19:55	4/30/2014 09:52	P50192/	BS
SAIA-SB/SG29	SO	SAIA-SB29-0.5	S-6426.01	P50183-1	1/1	4/16/2014 14:00	4/24/2014 19:55	4/30/2014 10:22	P50192/	N
SAIA-SB/SG29	SO	SAIA-SB29-15	S-6426.02	P50183-1	1/1	4/16/2014 14:30	4/24/2014 19:55	4/30/2014 10:52	P50192/	N
SAIA-SB/SG29	SO	SAIA-SB29-25	S-6426.03	P50183-1	1/1	4/16/2014 14:40	4/24/2014 19:55	4/30/2014 11:22	P50192/	N
SAIA-SB/SG29	SO	SAIA-SB29-35	S-6426.04	P50183-1	1/1	4/16/2014 14:50	4/24/2014 19:55	4/30/2014 11:53	P50192/	N
SAIA-SB/SG37	SO	SAIA-SB37-6	S-6428.01	P50183-1	1/1	4/17/2014 10:15	4/24/2014 19:55	4/30/2014 12:23	P50192/	FD
SAIA-SB/SG36	SO	SAIA-SB36-0.5	S-6428.02	P50183-1	1/1	4/17/2014 08:00	4/24/2014 19:55	4/30/2014 12:53	P50192/	N
SAIA-SB/SG36	SO	SAIA-SB36-2	S-6428.03	P50183-1	1/1	4/17/2014 08:35	4/24/2014 19:55	4/30/2014 13:24	P50192/	N
SAIA-SB/SG36	SO	SAIA-SB36-5	S-6428.04	P50183-1	1/1	4/17/2014 08:10	4/24/2014 19:55	4/30/2014 13:54	P50192/	N
SAIA-SB/SG36	SO	SAIA-SB36-15	S-6428.05	P50183-1	1/1	4/17/2014 08:35	4/24/2014 19:55	4/30/2014 14:24	P50192/	N
SAIA-SB/SG36	SO	SAIA-SB36-25	S-6428.06	P50183-1	1/1	4/17/2014 08:45	4/24/2014 19:55	4/30/2014 14:55	P50192/	N
SAIA-SB/SG36	SO	SAIA-SB36-26	S-6428.07	P50183-1	1/1	4/17/2014 08:50	4/24/2014 19:55	4/30/2014 15:25	P50192/	FD
SAIA-SB/SG36	SO	SAIA-SB36-35	S-6428.08	P50183-1	1/1	4/17/2014 09:10	4/24/2014 19:55	4/30/2014 15:56	P50192/	N
SAIA-SB/SG37	SO	SAIA-SB37-0.5	S-6428.09	P50183-1	1/1	4/17/2014 10:00	4/24/2014 19:55	4/30/2014 16:26	P50192/	N
SAIA-SB/SG37	SO	SAIA-SB37-2	S-6428.10	P50183-1	1/1	4/17/2014 10:05	4/24/2014 19:55	4/30/2014 16:57	P50192/	N
SAIA-SB/SG37	SO	SAIA-SB37-5	S-6428.11	P50183-1	1/1	4/17/2014 10:10	4/24/2014 19:55	4/30/2014 17:27	P50192/	N
SAIA-SB/SG37	SO	SAIA-SB37-15	S-6428.12	P50183-1	1/1	4/17/2014 10:25	4/24/2014 19:55	4/30/2014 17:57	P50192/	N
SAIA-SB/SG37	SO	SAIA-SB37-25	S-6428.13	P50183-1	1/1	4/17/2014 10:35	4/24/2014 19:55	4/30/2014 18:27	P50192/	N

Test Method: SW8082 Analysis Batch: P50189-2

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	SQ	LABQC	ABLK27	P50183-2	1/1	4/24/2014 19:55	4/24/2014 19:55	4/30/2014 09:52	P50192/	LB
LABQC	SQ	LABQC	ALCS27	P50183-2	1/1	4/24/2014 19:55	4/24/2014 19:55	4/30/2014 10:22	P50192/	BS

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Test Method: SW8082 Analysis Batch: P50189-2

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
SAIA-SB/SG29	SO	SAIA-SB29-0.5	S-6426.01	P50183-2	1/1	4/16/2014 14:00	4/24/2014 19:55	4/30/2014 10:52	P50192/	N
SAIA-SB/SG29	SO	SAIA-SB29-15	S-6426.02	P50183-2	1/1	4/16/2014 14:30	4/24/2014 19:55	4/30/2014 11:22	P50192/	N
SAIA-SB/SG29	SO	SAIA-SB29-25	S-6426.03	P50183-2	1/1	4/16/2014 14:40	4/24/2014 19:55	4/30/2014 11:53	P50192/	N
SAIA-SB/SG29	SO	SAIA-SB29-35	S-6426.04	P50183-2	1/1	4/16/2014 14:50	4/24/2014 19:55	4/30/2014 12:23	P50192/	N
SAIA-SB/SG37	SO	SAIA-SB37-6	S-6428.01	P50183-2	1/1	4/17/2014 10:15	4/24/2014 19:55	4/30/2014 12:53	P50192/	FD
SAIA-SB/SG36	SO	SAIA-SB36-0.5	S-6428.02	P50183-2	1/1	4/17/2014 08:00	4/24/2014 19:55	4/30/2014 13:24	P50192/	N
SAIA-SB/SG36	SO	SAIA-SB36-2	S-6428.03	P50183-2	1/1	4/17/2014 08:35	4/24/2014 19:55	4/30/2014 13:54	P50192/	N
SAIA-SB/SG36	SO	SAIA-SB36-5	S-6428.04	P50183-2	1/1	4/17/2014 08:10	4/24/2014 19:55	4/30/2014 14:24	P50192/	N
SAIA-SB/SG36	SO	SAIA-SB36-15	S-6428.05	P50183-2	1/1	4/17/2014 08:35	4/24/2014 19:55	4/30/2014 14:55	P50192/	N
SAIA-SB/SG36	SO	SAIA-SB36-25	S-6428.06	P50183-2	1/1	4/17/2014 08:45	4/24/2014 19:55	4/30/2014 15:25	P50192/	N
SAIA-SB/SG36	SO	SAIA-SB36-26	S-6428.07	P50183-2	1/1	4/17/2014 08:50	4/24/2014 19:55	4/30/2014 15:56	P50192/	FD
SAIA-SB/SG36	SO	SAIA-SB36-35	S-6428.08	P50183-2	1/1	4/17/2014 09:10	4/24/2014 19:55	4/30/2014 16:26	P50192/	N
SAIA-SB/SG37	SO	SAIA-SB37-0.5	S-6428.09	P50183-2	1/1	4/17/2014 10:00	4/24/2014 19:55	4/30/2014 16:57	P50192/	N
SAIA-SB/SG37	SO	SAIA-SB37-2	S-6428.10	P50183-2	1/1	4/17/2014 10:05	4/24/2014 19:55	4/30/2014 17:27	P50192/	N
SAIA-SB/SG37	SO	SAIA-SB37-5	S-6428.11	P50183-2	1/1	4/17/2014 10:10	4/24/2014 19:55	4/30/2014 17:57	P50192/	N
SAIA-SB/SG37	SO	SAIA-SB37-15	S-6428.12	P50183-2	1/1	4/17/2014 10:25	4/24/2014 19:55	4/30/2014 18:27	P50192/	N
SAIA-SB/SG37	SO	SAIA-SB37-25	S-6428.13	P50183-2	1/1	4/17/2014 10:35	4/24/2014 19:55	4/30/2014 18:58	P50192/	N

Test Method: SW8082 Analysis Batch: P50211-1

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
SAIA-SB/SG37	SO	SAIA-SB37-35	S-6428.14	P50183-1	1/1	4/17/2014 10:45	4/24/2014 19:55	4/30/2014 20:29	P50192/	N
SAIA-SB/SG38	SO	SAIA-SB38-0.5	S-6428.15	P50183-1	1/1	4/17/2014 12:55	4/24/2014 19:55	4/30/2014 20:59	P50192/	N
SAIA-SB/SG38	SO	SAIA-SB38-2	S-6428.16	P50183-1	1/1	4/17/2014 13:00	4/24/2014 19:55	4/30/2014 21:29	P50192/	N
SAIA-SB/SG29	SO	SAIA-SB29-0.5	S-6426.01	P50183-1	1/1	4/16/2014 14:00	4/24/2014 19:55	4/30/2014 22:00	P50192/	MS

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Batch Report

Test Method: SW8082 Analysis Batch: P50211-1

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
SAIA-SB/SG29	SO	SAIA-SB29-0.5	S-6426.01	P50183-1	1/1	4/16/2014 14:00	4/24/2014 19:55	4/30/2014 22:30	P50192/	SD

Test Method: SW8082 Analysis Batch: P50211-2

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
SAIA-SB/SG37	SO	SAIA-SB37-35	S-6428.14	P50183-2	1/1	4/17/2014 10:45	4/24/2014 19:55	4/30/2014 20:59	P50192/	N
SAIA-SB/SG38	SO	SAIA-SB38-0.5	S-6428.15	P50183-2	1/1	4/17/2014 12:55	4/24/2014 19:55	4/30/2014 21:29	P50192/	N
SAIA-SB/SG38	SO	SAIA-SB38-2	S-6428.16	P50183-2	1/1	4/17/2014 13:00	4/24/2014 19:55	4/30/2014 22:00	P50192/	N
SAIA-SB/SG29	SO	SAIA-SB29-0.5	S-6426.01	P50183-2	1/1	4/16/2014 14:00	4/24/2014 19:55	4/30/2014 22:30	P50192/	MS
SAIA-SB/SG29	SO	SAIA-SB29-0.5	S-6426.01	P50183-2	1/1	4/16/2014 14:00	4/24/2014 19:55	4/30/2014 23:00	P50192/	SD

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Field Batch Report

--No Records Found--

MS Mismatch Report

--No Records Found--

Section to identify Matrix Spike mismatches where parent sample differs from MS by dilution.

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QC Outlier Report

Test Method: SW8082 Extraction Method: SW3550B Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
LCS Recovery	ALCS27 (BS) / ALCS27	1 / 1.00	PCB-1016 (Arochlor 1016)	165.0 (percent)	J/None	50 - 150	20 - 160	L			
Surrogate	SAIA-SB36-15 (N) / S-6428.05	1 / 1.00	2,4,5,6-Tetrachloro-meta-xylene	355.0 (percent)	J/None	30 - 150	20 - 160	S			
Surrogate	SAIA-SB36-2 (N) / S-6428.03	1 / 1.00	Decachlorobiphenyl	27.50 (percent)	J/UJ	30 - 150	20 - 160	S			
Surrogate	SAIA-SB37-15 (N) / S-6428.12	1 / 1.00	2,4,5,6-Tetrachloro-meta-xylene	155.0 (percent)	J/None	30 - 150	20 - 160	S			

Test Method: SW8260B Extraction Method: SW5035 Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
Blank	S-6426.05 (LB) / S-6426.05	1 / 1.00	Methylene Chloride	2.700 (ug/kg)	*U/None	< 1	< 5	B1		2	5.40
Blank	VBLK1A (LB) / VBLK1A	1 / 1.00	Methylene Chloride	3.100 (ug/kg)	*U/None	< 1	< 5	B1		2	6.20
Blank	VBLK9X (LB) / VBLK9X	1 / 1.00	Methylene Chloride	2.100 (ug/kg)	*U/None	< 1	< 5	B1		2	4.20
MS Recovery	SAIA-SB29-0.5 (MS) / S-6426.01MS	1 / 1.00	Benzene	71.70 (percent)	J/UJ	76 - 127	76 - 127	M			
MS Recovery	SAIA-SB29-0.5 (SD) / S-6426.01MSD	1 / 1.00	Benzene	73.21 (percent)	J/UJ	76 - 127	76 - 127	M			
Surrogate	SAIA-SB29-0.5 (N) / S-6426.01	1 / 1.00	1,2-Dichlorobenzene-d4	142.0 (percent)	J/None	80 - 131	20 - 131	S			
Surrogate	SAIA-SB29-25 (N) / S-6426.03	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	128.0 (percent)	J/None	73 - 125	20 - 125	S			
Surrogate	SAIA-SB29-25 (N) / S-6426.03	1 / 1.00	1,2-Dichlorobenzene-d4	152.0 (percent)	J/None	80 - 131	20 - 131	S			
Surrogate	SAIA-SB29-25 (N) / S-6426.03	1 / 1.00	1,2-Dichloroethane-d4	146.0 (percent)	J/None	78 - 129	20 - 129	S			
Surrogate	SAIA-SB29-25 (N) / S-6426.03	1 / 1.00	1,2-Dichloropropane-d6	136.0 (percent)	J/None	79 - 124	20 - 124	S			

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QC Outlier Report

Test Method: SW8260B Extraction Method: SW5035 Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
Surrogate	SAIA-SB29-25 (N) / S-6426.03	1 / 1.00	Benzene-d6	140.0 (percent)	J/None	77 - 124	20 - 124	S			
Surrogate	SAIA-SB29-25 (N) / S-6426.03	1 / 1.00	Chloroethane-d5	140.0 (percent)	J/None	71 - 131	20 - 131	S			
Surrogate	SAIA-SB29-25 (N) / S-6426.03	1 / 1.00	Chloroform-d	134.0 (percent)	J/None	78 - 121	20 - 121	S			
Surrogate	SAIA-SB29-25 (N) / S-6426.03	1 / 1.00	Toluene-d8	142.0 (percent)	J/None	77 - 121	20 - 121	S			
Surrogate	SAIA-SB29-25 (N) / S-6426.03	1 / 1.00	trans-1,3-Dichloropropene-d4	142.0 (percent)	J/None	73 - 121	20 - 121	S			
Surrogate	SAIA-SB36-15 (N) / S-6428.05	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	320.0 (percent)	J/None	73 - 125	20 - 125	S			
Surrogate	SAIA-SB36-15 (N) / S-6428.05	1 / 1.00	1,1-Dichloroethene-d2	260.0 (percent)	J/None	55 - 104	20 - 104	S			
Surrogate	SAIA-SB36-15 (N) / S-6428.05	1 / 1.00	1,2-Dichlorobenzene-d4	380.0 (percent)	J/None	80 - 131	20 - 131	S			
Surrogate	SAIA-SB36-15 (N) / S-6428.05	1 / 1.00	1,2-Dichloroethane-d4	360.0 (percent)	J/None	78 - 129	20 - 129	S			
Surrogate	SAIA-SB36-15 (N) / S-6428.05	1 / 1.00	1,2-Dichloropropane-d6	340.0 (percent)	J/None	79 - 124	20 - 124	S			
Surrogate	SAIA-SB36-15 (N) / S-6428.05	1 / 1.00	2-Butanone-d5	320.0 (percent)	J/None	49 - 155	20 - 155	S			
Surrogate	SAIA-SB36-15 (N) / S-6428.05	1 / 1.00	2-Hexanone-d5	320.0 (percent)	J/None	28 - 135	20 - 135	S			
Surrogate	SAIA-SB36-15 (N) / S-6428.05	1 / 1.00	Benzene-d6	360.0 (percent)	J/None	77 - 124	20 - 124	S			
Surrogate	SAIA-SB36-15 (N) / S-6428.05	1 / 1.00	Chloroethane-d5	380.0 (percent)	J/None	71 - 131	20 - 131	S			
Surrogate	SAIA-SB36-15 (N) / S-6428.05	1 / 1.00	Chloroform-d	340.0 (percent)	J/None	78 - 121	20 - 121	S			
Surrogate	SAIA-SB36-15 (N) / S-6428.05	1 / 1.00	Toluene-d8	360.0 (percent)	J/None	77 - 121	20 - 121	S			
Surrogate	SAIA-SB36-15 (N) / S-6428.05	1 / 1.00	trans-1,3-Dichloropropene-d4	360.0 (percent)	J/None	73 - 121	20 - 121	S			

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QC Outlier Report

Test Method: SW8260B Extraction Method: SW5035 Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
Surrogate	SAIA-SB36-15 (N) / S-6428.05	1 / 1.00	Vinyl Chloride-d3	340.0 (percent)	J/None	65 - 131	20 - 131	S			
Surrogate	SAIA-SB36-25 (N) / S-6428.06	1 / 1.00	1,2-Dichlorobenzene-d4	150.0 (percent)	J/None	80 - 131	20 - 131	S			
Surrogate	SAIA-SB36-25 (N) / S-6428.06	1 / 1.00	1,2-Dichloroethane-d4	140.0 (percent)	J/None	78 - 129	20 - 129	S			
Surrogate	SAIA-SB36-25 (N) / S-6428.06	1 / 1.00	1,2-Dichloropropane-d6	130.0 (percent)	J/None	79 - 124	20 - 124	S			
Surrogate	SAIA-SB36-25 (N) / S-6428.06	1 / 1.00	Benzene-d6	138.0 (percent)	J/None	77 - 124	20 - 124	S			
Surrogate	SAIA-SB36-25 (N) / S-6428.06	1 / 1.00	Chloroethane-d5	144.0 (percent)	J/None	71 - 131	20 - 131	S			
Surrogate	SAIA-SB36-25 (N) / S-6428.06	1 / 1.00	Chloroform-d	132.0 (percent)	J/None	78 - 121	20 - 121	S			
Surrogate	SAIA-SB36-25 (N) / S-6428.06	1 / 1.00	Toluene-d8	142.0 (percent)	J/None	77 - 121	20 - 121	S			
Surrogate	SAIA-SB36-25 (N) / S-6428.06	1 / 1.00	trans-1,3-Dichloropropene-d4	134.0 (percent)	J/None	73 - 121	20 - 121	S			
Surrogate	SAIA-SB36-26 (FD) / S-6428.07	1 / 1.00	1,2-Dichlorobenzene-d4	132.0 (percent)	J/None	80 - 131	20 - 131	S			
Surrogate	SAIA-SB36-26 (FD) / S-6428.07	1 / 1.00	Benzene-d6	126.0 (percent)	J/None	77 - 124	20 - 124	S			
Surrogate	SAIA-SB36-26 (FD) / S-6428.07	1 / 1.00	Chloroform-d	122.0 (percent)	J/None	78 - 121	20 - 121	S			
Surrogate	SAIA-SB36-26 (FD) / S-6428.07	1 / 1.00	Toluene-d8	130.0 (percent)	J/None	77 - 121	20 - 121	S			
Surrogate	SAIA-SB36-35 (N) / S-6428.08	1 / 1.00	1,2-Dichlorobenzene-d4	140.0 (percent)	J/None	80 - 131	20 - 131	S			
Surrogate	SAIA-SB37-15 (N) / S-6428.12	1 / 1.00	1,2-Dichlorobenzene-d4	132.0 (percent)	J/None	80 - 131	20 - 131	S			
Surrogate	SAIA-SB37-15 (N) / S-6428.12	1 / 1.00	1,2-Dichloroethane-d4	134.0 (percent)	J/None	78 - 129	20 - 129	S			
Surrogate	SAIA-SB37-15 (N) / S-6428.12	1 / 1.00	Toluene-d8	124.0 (percent)	J/None	77 - 121	20 - 121	S			

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QC Outlier Report

Test Method: SW8260B Extraction Method: SW5035 Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
Surrogate	SAIA-SB37-15 (N) / S-6428.12	1 / 1.00	trans-1,3-Dichloropropene-d4	126.0 (percent)	J/None	73 - 121	20 - 121	S			
Surrogate	SAIA-SB37-2 (N) / S-6428.10	1 / 1.00	1,2-Dichlorobenzene-d4	132.0 (percent)	J/None	80 - 131	20 - 131	S			
Surrogate	SAIA-SB37-25 (N) / S-6428.13	1 / 1.00	1,2-Dichloroethane-d4	140.0 (percent)	J/None	78 - 129	20 - 129	S			
Surrogate	SAIA-SB37-25 (N) / S-6428.13	1 / 1.00	Toluene-d8	126.0 (percent)	J/None	77 - 121	20 - 121	S			
Surrogate	SAIA-SB37-25 (N) / S-6428.13	1 / 1.00	trans-1,3-Dichloropropene-d4	124.0 (percent)	J/None	73 - 121	20 - 121	S			
Surrogate	SAIA-SB37-5 (N) / S-6428.11	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	130.0 (percent)	J/None	73 - 125	20 - 125	S			
Surrogate	SAIA-SB37-5 (N) / S-6428.11	1 / 1.00	1,2-Dichloroethane-d4	138.0 (percent)	J/None	78 - 129	20 - 129	S			
Surrogate	SAIA-SB37-5 (N) / S-6428.11	1 / 1.00	2-Butanone-d5	160.0 (percent)	J/None	49 - 155	20 - 155	S			
Surrogate	SAIA-SB37-5 (N) / S-6428.11	1 / 1.00	2-Hexanone-d5	150.0 (percent)	J/None	28 - 135	20 - 135	S			
Surrogate	SAIA-SB37-5 (N) / S-6428.11	1 / 1.00	trans-1,3-Dichloropropene-d4	124.0 (percent)	J/None	73 - 121	20 - 121	S			
Surrogate	SAIA-SB38-0.5 (N) / S-6428.15	1 / 1.00	1,2-Dichloroethane-d4	138.0 (percent)	J/None	78 - 129	20 - 129	S			
Surrogate	SAIA-SB38-0.5 (N) / S-6428.15	1 / 1.00	Chloroethane-d5	134.0 (percent)	J/None	71 - 131	20 - 131	S			
Surrogate	SAIA-SB38-0.5 (N) / S-6428.15	1 / 1.00	Chloroform-d	122.0 (percent)	J/None	78 - 121	20 - 121	S			
Surrogate	SAIA-SB38-0.5 (N) / S-6428.15	1 / 1.00	Toluene-d8	124.0 (percent)	J/None	77 - 121	20 - 121	S			
Surrogate	SAIA-SB38-0.5 (N) / S-6428.15	1 / 1.00	trans-1,3-Dichloropropene-d4	122.0 (percent)	J/None	73 - 121	20 - 121	S			

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QC Outlier Report

Test Method: SW8270D Extraction Method: SW3550B Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
Surrogate	SAIA-SB36-15 (N) / S-6428.05	1 / 1.00	2-Chlorophenol-d4	160.0 (percent)	J/None	40 - 135	10 - 140	S			
Surrogate	SAIA-SB36-15 (N) / S-6428.05	1 / 1.00	4-Chloroaniline-d4	193.3 (percent)	J/None	40 - 135	10 - 140	S			
Surrogate	SAIA-SB36-15 (N) / S-6428.05	1 / 1.00	Benzo(a)pyrene-d12	233.3 (percent)	J/None	40 - 135	10 - 140	S			
Surrogate	SAIA-SB36-15 (N) / S-6428.05	1 / 1.00	bis(2-Chloroethyl) Ether-d8	186.7 (percent)	J/None	40 - 135	10 - 140	S			
Surrogate	SAIA-SB36-15 (N) / S-6428.05	1 / 1.00	Nitrobenzene-d5	193.3 (percent)	J/None	40 - 135	10 - 140	S			
Surrogate	SAIA-SB36-15 (N) / S-6428.05	1 / 1.00	Phenol-d5	173.3 (percent)	J/None	40 - 135	10 - 140	S			

Rule is the multiplier used when blank contamination occurs to determine action level.

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Qualified Results

Test Method: CSVOL12 Extraction Method: SW3550B Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB29-0.5	S-6426.01	SO	N	Benzo(a)anthracene	180	85.0 J	85.0 J		UG/KG	TR
SAIA-SB29-0.5	S-6426.01	SO	N	Benzo(a)pyrene	180	130 J	130 J		UG/KG	TR
SAIA-SB29-0.5	S-6426.01	SO	N	Benzo(g,h,i)perylene	180	120 J	120 J		UG/KG	TR
SAIA-SB29-0.5	S-6426.01	SO	N	Benzo(k)fluoranthene	180	120 J	120 J		UG/KG	TR
SAIA-SB29-0.5	S-6426.01	SO	N	bis(2-Ethylhexyl) Phthalate	180	150 J	150 J		UG/KG	TR
SAIA-SB29-0.5	S-6426.01	SO	N	Chrysene	180	120 J	120 J		UG/KG	TR
SAIA-SB29-0.5	S-6426.01	SO	N	Di-n-Butyl Phthalate	180	85.0 J	85.0 J		UG/KG	TR
SAIA-SB29-0.5	S-6426.01	SO	N	Fluoranthene	180	140 J	140 J		UG/KG	TR
SAIA-SB29-0.5	S-6426.01	SO	N	Indeno(1,2,3-c,d)pyrene	180	86.0 J	86.0 J		UG/KG	TR
SAIA-SB29-15	S-6426.02	SO	N	bis(2-Ethylhexyl) Phthalate	190	100 J	100 J		UG/KG	TR
SAIA-SB36-0.5	S-6428.02	SO	N	Benzo(a)anthracene	180	79.0 J	79.0 J		UG/KG	TR
SAIA-SB36-0.5	S-6428.02	SO	N	Benzo(a)pyrene	180	110 J	110 J		UG/KG	TR
SAIA-SB36-0.5	S-6428.02	SO	N	Benzo(b)fluoranthene	180	90.0 J	90.0 J		UG/KG	TR
SAIA-SB36-0.5	S-6428.02	SO	N	Benzo(k)fluoranthene	180	100 J	100 J		UG/KG	TR
SAIA-SB36-0.5	S-6428.02	SO	N	Chrysene	180	120 J	120 J		UG/KG	TR
SAIA-SB36-0.5	S-6428.02	SO	N	Fluoranthene	180	120 J	120 J		UG/KG	TR
SAIA-SB36-0.5	S-6428.02	SO	N	Indeno(1,2,3-c,d)pyrene	180	73.0 J	73.0 J		UG/KG	TR
SAIA-SB36-0.5	S-6428.02	SO	N	Pyrene	180	120 J	120 J		UG/KG	TR
SAIA-SB36-2	S-6428.03	SO	N	Phenanthrene	180	86.0 J	86.0 J		UG/KG	TR
SAIA-SB36-5	S-6428.04	SO	N	Di-n-Butyl Phthalate	180	84.0 J	84.0 J		UG/KG	TR
SAIA-SB37-0.5	S-6428.09	SO	N	Benzo(a)anthracene	180	54.0 J	54.0 J		UG/KG	TR
SAIA-SB37-0.5	S-6428.09	SO	N	Benzo(a)pyrene	180	70.0 J	70.0 J		UG/KG	TR
SAIA-SB37-0.5	S-6428.09	SO	N	Benzo(b)fluoranthene	180	55.0 J	55.0 J		UG/KG	TR
SAIA-SB37-0.5	S-6428.09	SO	N	Benzo(g,h,i)perylene	180	55.0 J	55.0 J		UG/KG	TR
SAIA-SB37-0.5	S-6428.09	SO	N	Benzo(k)fluoranthene	180	60.0 J	60.0 J		UG/KG	TR
SAIA-SB37-0.5	S-6428.09	SO	N	Chrysene	180	78.0 J	78.0 J		UG/KG	TR
SAIA-SB37-0.5	S-6428.09	SO	N	Fluoranthene	180	70.0 J	70.0 J		UG/KG	TR

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Qualified Results

Test Method: CSVOL12 Extraction Method: SW3550B Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB37-0.5	S-6428.09	SO	N	Pyrene	180	79.0 J	79.0 J		UG/KG	TR
SAIA-SB37-6	S-6428.01	SO	FD	bis(2-Ethylhexyl) Phthalate	180	100 J	100 J		UG/KG	TR
SAIA-SB38-0.5	S-6428.15	SO	N	Anthracene	190	140 J	140 J		UG/KG	TR
SAIA-SB38-0.5	S-6428.15	SO	N	Dibenz(a,h)anthracene	190	120 J	120 J		UG/KG	TR
SAIA-SB38-2	S-6428.16	SO	N	Di-n-Butyl Phthalate	180	89.0 J	89.0 J		UG/KG	TR

Test Method: CVOL Extraction Method: SW5035 Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB29-0.5	S-6426.01	SO	N	Benzene	6.00	6.00 U	6.00 UJ		UG/KG	M
SAIA-SB29-15	S-6426.02	SO	N	Methylene Chloride	5.90	5.90 JB	5.90 U		UG/KG	B1/B5
SAIA-SB29-25	S-6426.03	SO	N	Methylene Chloride	7.20	7.20 JB	7.20 U		UG/KG	B1/B5
SAIA-SB29-35	S-6426.04	SO	N	Methylene Chloride	5.30	5.30 JB	5.30 U		UG/KG	B1/B5
SAIA-SB36-0.5	S-6428.02	SO	N	Methylene Chloride	5.80	5.80 JB	5.80 U		UG/KG	B1/B5
SAIA-SB36-15	S-6428.05	SO	N	Methylene Chloride	6.40	6.40 U	6.40 U		UG/KG	B1/B5
SAIA-SB36-2	S-6428.03	SO	N	Methylene Chloride	5.00	5.00 JB	5.00 U		UG/KG	B1/B5
SAIA-SB36-25	S-6428.06	SO	N	Methylene Chloride	6.70	6.70 U	6.70 U		UG/KG	B1/B5
SAIA-SB36-26	S-6428.07	SO	FD	Methylene Chloride	6.50	6.50 JB	6.50 U		UG/KG	B1/B5
SAIA-SB36-35	S-6428.08	SO	N	Methylene Chloride	6.10	6.10 JB	6.10 U		UG/KG	B1/B5
SAIA-SB36-5	S-6428.04	SO	N	Methylene Chloride	5.50	5.50 JB	5.50 U		UG/KG	B1/B5
SAIA-SB37-0.5	S-6428.09	SO	N	Methylene Chloride	5.00	5.00 JB	5.00 U		UG/KG	B1/B5
SAIA-SB37-15	S-6428.12	SO	N	Methylene Chloride	6.60	6.60 JB	6.60 U		UG/KG	B1/B5
SAIA-SB37-2	S-6428.10	SO	N	Methylene Chloride	5.60	5.60 JB	5.60 U		UG/KG	B1/B5
SAIA-SB37-25	S-6428.13	SO	N	Methylene Chloride	6.70	6.70 JB	6.70 U		UG/KG	B1/B5
SAIA-SB37-35	S-6428.14	SO	N	Methylene Chloride	5.10	5.10 JB	5.10 U		UG/KG	B1/B5
SAIA-SB37-5	S-6428.11	SO	N	Methylene Chloride	6.20	6.20 JB	6.20 U		UG/KG	B1/B5
SAIA-SB37-6	S-6428.01	SO	FD	Methylene Chloride	5.10	5.10 JB	5.10 U		UG/KG	B1/B5

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Qualified Results

Test Method: CVOL	Extraction Method: SW5035	Leach Method: NONE								
FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB38-0.5	S-6428.15	SO	N	Methylene Chloride	6.40	6.40 JB	6.40 U		UG/KG	B1/B5
SAIA-SB38-2	S-6428.16	SO	N	Methylene Chloride	5.10	5.10 JB	5.10 U		UG/KG	B1/B5

Test Method: SW8082	Extraction Method: SW3550B	Leach Method: NONE								
FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB29-0.5	S-6426.01	SO	N	PCB-1254 (Arochlor 1254)	35.0	29.0 JP	29.0 J		UG/KG	TR
SAIA-SB29-0.5	S-6426.01	SO	N	PCB-1260 (Arochlor 1260)	35.0	29.0 J	29.0 J		UG/KG	TR
SAIA-SB29-25	S-6426.03	SO	N	PCB-1016 (Arochlor 1016)	40.0	40.0 U	40.0 UJ	-	UG/KG	S
SAIA-SB29-25	S-6426.03	SO	N	PCB-1221 (Arochlor 1221)	40.0	40.0 U	40.0 UJ	-	UG/KG	S
SAIA-SB29-25	S-6426.03	SO	N	PCB-1232 (Arochlor 1232)	40.0	40.0 U	40.0 UJ	-	UG/KG	S
SAIA-SB29-25	S-6426.03	SO	N	PCB-1242 (Arochlor 1242)	40.0	40.0 U	40.0 UJ	-	UG/KG	S
SAIA-SB29-25	S-6426.03	SO	N	PCB-1248 (Arochlor 1248)	40.0	40.0 U	40.0 UJ	-	UG/KG	S
SAIA-SB29-25	S-6426.03	SO	N	PCB-1254 (Arochlor 1254)	40.0	40.0 U	40.0 UJ	-	UG/KG	S
SAIA-SB29-25	S-6426.03	SO	N	PCB-1260 (Arochlor 1260)	40.0	40.0 U	40.0 UJ	-	UG/KG	S
SAIA-SB29-25	S-6426.03	SO	N	PCB-1262 (Arochlor 1262)	40.0	40.0 U	40.0 UJ	-	UG/KG	S
SAIA-SB29-25	S-6426.03	SO	N	PCB-1268 (Arochlor 1268)	40.0	40.0 U	40.0 UJ	-	UG/KG	S
SAIA-SB36-0.5	S-6428.02	SO	N	PCB-1254 (Arochlor 1254)	35.0	12.0 JP	12.0 J		UG/KG	TR
SAIA-SB36-2	S-6428.03	SO	N	PCB-1016 (Arochlor 1016)	35.0	35.0 U	35.0 UJ		UG/KG	S
SAIA-SB36-2	S-6428.03	SO	N	PCB-1221 (Arochlor 1221)	35.0	35.0 U	35.0 UJ	-	UG/KG	S
SAIA-SB36-2	S-6428.03	SO	N	PCB-1232 (Arochlor 1232)	35.0	35.0 U	35.0 UJ	-	UG/KG	S
SAIA-SB36-2	S-6428.03	SO	N	PCB-1242 (Arochlor 1242)	35.0	35.0 U	35.0 UJ	-	UG/KG	S
SAIA-SB36-2	S-6428.03	SO	N	PCB-1248 (Arochlor 1248)	35.0	35.0 U	35.0 UJ	-	UG/KG	S
SAIA-SB36-2	S-6428.03	SO	N	PCB-1254 (Arochlor 1254)	35.0	35.0 U	35.0 UJ	-	UG/KG	S
SAIA-SB36-2	S-6428.03	SO	N	PCB-1260 (Arochlor 1260)	35.0	19.0 J	19.0 J	-	UG/KG	S/TR
SAIA-SB36-2	S-6428.03	SO	N	PCB-1262 (Arochlor 1262)	35.0	35.0 U	35.0 UJ	-	UG/KG	S
SAIA-SB36-2	S-6428.03	SO	N	PCB-1268 (Arochlor 1268)	35.0	35.0 U	35.0 UJ	-	UG/KG	S

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Qualified Results

Test Method: SW8082	Extraction Method: SW3550B	Leach Method: NONE								
FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SB38-0.5	S-6428.15	SO	N	PCB-1260 (Arochlor 1260)	36.0	9.90 JP	9.90 J		UG/KG	TR

Detected Results

Test Method: CSVOL12 Extraction Method: SW3550B Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SAIA-SB29-0.5	S-6426.01	SO	N	1	Benzo(a)anthracene	180	85.0 J	85.0 J	UG/KG	TR
SAIA-SB29-0.5	S-6426.01	SO	N	1	Benzo(a)pyrene	180	130 J	130 J	UG/KG	TR
SAIA-SB29-0.5	S-6426.01	SO	N	1	Benzo(g,h,i)perylene	180	120 J	120 J	UG/KG	TR
SAIA-SB29-0.5	S-6426.01	SO	N	1	Benzo(k)fluoranthene	180	120 J	120 J	UG/KG	TR
SAIA-SB29-0.5	S-6426.01	SO	N	1	bis(2-Ethylhexyl) Phthalate	180	150 J	150 J	UG/KG	TR
SAIA-SB29-0.5	S-6426.01	SO	N	1	Chrysene	180	120 J	120 J	UG/KG	TR
SAIA-SB29-0.5	S-6426.01	SO	N	1	Di-n-Butyl Phthalate	180	85.0 J	85.0 J	UG/KG	TR
SAIA-SB29-0.5	S-6426.01	SO	N	1	Fluoranthene	180	140 J	140 J	UG/KG	TR
SAIA-SB29-0.5	S-6426.01	SO	N	1	Indeno(1,2,3-c,d)pyrene	180	86.0 J	86.0 J	UG/KG	TR
SAIA-SB29-0.5	S-6426.01	SO	N	1	Pyrene	180	180	180	UG/KG	
SAIA-SB29-15	S-6426.02	SO	N	1	bis(2-Ethylhexyl) Phthalate	190	100 J	100 J	UG/KG	TR
SAIA-SB36-0.5	S-6428.02	SO	N	1	Benzo(a)anthracene	180	79.0 J	79.0 J	UG/KG	TR
SAIA-SB36-0.5	S-6428.02	SO	N	1	Benzo(a)pyrene	180	110 J	110 J	UG/KG	TR
SAIA-SB36-0.5	S-6428.02	SO	N	1	Benzo(b)fluoranthene	180	90.0 J	90.0 J	UG/KG	TR
SAIA-SB36-0.5	S-6428.02	SO	N	1	Benzo(k)fluoranthene	180	100 J	100 J	UG/KG	TR
SAIA-SB36-0.5	S-6428.02	SO	N	1	Chrysene	180	120 J	120 J	UG/KG	TR
SAIA-SB36-0.5	S-6428.02	SO	N	1	Fluoranthene	180	120 J	120 J	UG/KG	TR
SAIA-SB36-0.5	S-6428.02	SO	N	1	Indeno(1,2,3-c,d)pyrene	180	73.0 J	73.0 J	UG/KG	TR
SAIA-SB36-0.5	S-6428.02	SO	N	1	Pyrene	180	120 J	120 J	UG/KG	TR
SAIA-SB36-2	S-6428.03	SO	N	1	Benzo(a)anthracene	180	610	610	UG/KG	
SAIA-SB36-2	S-6428.03	SO	N	1	Benzo(a)pyrene	180	1100	1100	UG/KG	
SAIA-SB36-2	S-6428.03	SO	N	1	Benzo(b)fluoranthene	180	910	910	UG/KG	
SAIA-SB36-2	S-6428.03	SO	N	1	Benzo(g,h,i)perylene	180	800	800	UG/KG	
SAIA-SB36-2	S-6428.03	SO	N	1	Benzo(k)fluoranthene	180	940	940	UG/KG	
SAIA-SB36-2	S-6428.03	SO	N	1	Chrysene	180	1100	1100	UG/KG	
SAIA-SB36-2	S-6428.03	SO	N	1	Fluoranthene	180	590	590	UG/KG	
SAIA-SB36-2	S-6428.03	SO	N	1	Indeno(1,2,3-c,d)pyrene	180	700	700	UG/KG	

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Detected Results

Test Method: CSVOL12 Extraction Method: SW3550B Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SAIA-SB36-2	S-6428.03	SO	N	1	Phenanthrene	180	86.0 J	86.0 J	UG/KG	TR
SAIA-SB36-2	S-6428.03	SO	N	1	Pyrene	180	760	760	UG/KG	
SAIA-SB36-5	S-6428.04	SO	N	1	Benzo(a)anthracene	180	370	370	UG/KG	
SAIA-SB36-5	S-6428.04	SO	N	1	Benzo(a)pyrene	180	630	630	UG/KG	
SAIA-SB36-5	S-6428.04	SO	N	1	Benzo(b)fluoranthene	180	430	430	UG/KG	
SAIA-SB36-5	S-6428.04	SO	N	1	Benzo(g,h,i)perylene	180	510	510	UG/KG	
SAIA-SB36-5	S-6428.04	SO	N	1	Benzo(k)fluoranthene	180	500	500	UG/KG	
SAIA-SB36-5	S-6428.04	SO	N	1	Chrysene	180	620	620	UG/KG	
SAIA-SB36-5	S-6428.04	SO	N	1	Dibenz(a,h)anthracene	180	190	190	UG/KG	
SAIA-SB36-5	S-6428.04	SO	N	1	Di-n-Butyl Phthalate	180	84.0 J	84.0 J	UG/KG	TR
SAIA-SB36-5	S-6428.04	SO	N	1	Fluoranthene	180	320	320	UG/KG	
SAIA-SB36-5	S-6428.04	SO	N	1	Indeno(1,2,3-c,d)pyrene	180	420	420	UG/KG	
SAIA-SB36-5	S-6428.04	SO	N	1	Pyrene	180	420	420	UG/KG	
SAIA-SB37-0.5	S-6428.09	SO	N	1	Benzo(a)anthracene	180	54.0 J	54.0 J	UG/KG	TR
SAIA-SB37-0.5	S-6428.09	SO	N	1	Benzo(a)pyrene	180	70.0 J	70.0 J	UG/KG	TR
SAIA-SB37-0.5	S-6428.09	SO	N	1	Benzo(b)fluoranthene	180	55.0 J	55.0 J	UG/KG	TR
SAIA-SB37-0.5	S-6428.09	SO	N	1	Benzo(g,h,i)perylene	180	55.0 J	55.0 J	UG/KG	TR
SAIA-SB37-0.5	S-6428.09	SO	N	1	Benzo(k)fluoranthene	180	60.0 J	60.0 J	UG/KG	TR
SAIA-SB37-0.5	S-6428.09	SO	N	1	Chrysene	180	78.0 J	78.0 J	UG/KG	TR
SAIA-SB37-0.5	S-6428.09	SO	N	1	Fluoranthene	180	70.0 J	70.0 J	UG/KG	TR
SAIA-SB37-0.5	S-6428.09	SO	N	1	Pyrene	180	79.0 J	79.0 J	UG/KG	TR
SAIA-SB37-25	S-6428.13	SO	N	1	bis(2-Ethylhexyl) Phthalate	220	360	360	UG/KG	
SAIA-SB37-6	S-6428.01	SO	FD	1	bis(2-Ethylhexyl) Phthalate	180	100 J	100 J	UG/KG	TR
SAIA-SB38-0.5	S-6428.15	SO	N	1	Anthracene	190	140 J	140 J	UG/KG	TR
SAIA-SB38-0.5	S-6428.15	SO	N	1	Benzo(a)anthracene	190	330	330	UG/KG	
SAIA-SB38-0.5	S-6428.15	SO	N	1	Benzo(a)pyrene	190	390	390	UG/KG	
SAIA-SB38-0.5	S-6428.15	SO	N	1	Benzo(b)fluoranthene	190	250	250	UG/KG	

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Detected Results

Test Method: CSVOL12 Extraction Method: SW3550B Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SAIA-SB38-0.5	S-6428.15	SO	N	1	Benzo(g,h,i)perylene	190	230	230	UG/KG	
SAIA-SB38-0.5	S-6428.15	SO	N	1	Benzo(k)fluoranthene	190	310	310	UG/KG	
SAIA-SB38-0.5	S-6428.15	SO	N	1	Chrysene	190	510	510	UG/KG	
SAIA-SB38-0.5	S-6428.15	SO	N	1	Dibenz(a,h)anthracene	190	120 J	120 J	UG/KG	TR
SAIA-SB38-0.5	S-6428.15	SO	N	1	Fluoranthene	190	480	480	UG/KG	
SAIA-SB38-0.5	S-6428.15	SO	N	1	Indeno(1,2,3-c,d)pyrene	190	220	220	UG/KG	
SAIA-SB38-0.5	S-6428.15	SO	N	1	Phenanthrene	190	410	410	UG/KG	
SAIA-SB38-0.5	S-6428.15	SO	N	1	Pyrene	190	570	570	UG/KG	
SAIA-SB38-2	S-6428.16	SO	N	1	Di-n-Butyl Phthalate	180	89.0 J	89.0 J	UG/KG	TR

Test Method: SW8082 Extraction Method: SW3550B Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SAIA-SB29-0.5	S-6426.01	SO	N	1	PCB-1254 (Arochlor 1254)	35.0	29.0 JP	29.0 J	UG/KG	TR
SAIA-SB29-0.5	S-6426.01	SO	N	1	PCB-1260 (Arochlor 1260)	35.0	29.0 J	29.0 J	UG/KG	TR
SAIA-SB29-15	S-6426.02	SO	N	1	PCB-1254 (Arochlor 1254)	37.0	91.0	91.0	UG/KG	
SAIA-SB29-15	S-6426.02	SO	N	1	PCB-1260 (Arochlor 1260)	37.0	72.0	72.0	UG/KG	
SAIA-SB29-35	S-6426.04	SO	N	1	PCB-1260 (Arochlor 1260)	35.0	390	390	UG/KG	
SAIA-SB36-0.5	S-6428.02	SO	N	1	PCB-1254 (Arochlor 1254)	35.0	12.0 JP	12.0 J	UG/KG	TR
SAIA-SB36-2	S-6428.03	SO	N	1	PCB-1260 (Arochlor 1260)	35.0	19.0 J	19.0 J	UG/KG	S/TR
SAIA-SB37-2	S-6428.10	SO	N	1	PCB-1260 (Arochlor 1260)	35.0	41.0	41.0	UG/KG	
SAIA-SB38-0.5	S-6428.15	SO	N	1	PCB-1260 (Arochlor 1260)	36.0	9.90 JP	9.90 J	UG/KG	TR

Automated Data Review Detail Report for Y9EF8
Southern Avenue Industrial Area
Southern Avenue Industrial Area SAP

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

Facility: Southern Avenue Industrial Area

Water Wells Sampling Event, March 2014

Guidance Document:

Contract Laboratory: KAP TECHNOLOGIES INC., THE WOODLANDS, TX

Field Contractor:

Data Review Contractor: ESAT/ICF International

SDG: Y9DQ5, Certified - 5/2/2014 by wtse

QC Level: S2VEM

Project Manager: Don Gruber, Gilbane

Data Reviewer: Santiago Lee, ICF

Data Reviewer Title: Validator

Date of Review Report: June 25, 2014

Second Reviewer: Tom Beer, Gilbane

Completion Date of Second Reviewer: December 02, 2014

Samples Included in SDG Y9DQ5

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
CSVOL12/NONE	7	2
CVOL/NONE	7	3
SW8082/NONE	7	2
SW8270D/NONE	7	2

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by KAP TECHNOLOGIES INC., THE WOODLANDS, TX and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Equipment Blank
- Field Duplicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- Negative Blank

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 197 results (16.24%) out of the 1213 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

The EPA validator reviewed the KAP lab report, COCs, lab case narrative, and EXES data review package.

A sample cooler was delayed resulting in several QC samples only, being qualified for hold time (H2) and temperature (T) exceedances (H2). No calibration anomalies were noted.

Data qualifiers also were added for lab blank (B1) detects, and some matrix interferences (M, D2).

No data were rejected, and all surrogate QC outliers were resolved.

Released by Santiago Lee, ICF, Validator	25-Jun-2014
Released by Tom Beer, Gilbane	02-Dec-2014

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

Batch Report

Test Method: CSVOL12; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
D13128	D13130	NA	LABQC	WQ	LABQC	SBLK59	D13101	1/1	30-Mar-2014 1:18 PM	30-Mar-2014 1:18 PM	04-Apr-2014 9:23 PM	LB
	D13130	NA	SAIA-MW1A	WG	SAIA-MW1A-0314	S-6390.01	D13101	1/1	27-Mar-2014 9:55 AM	30-Mar-2014 1:18 PM	04-Apr-2014 9:50 PM	N
	D13130	NA	SAIA-MW1B	WG	SAIA-MW1B-0314	S-6390.02	D13101	1/1	27-Mar-2014 9:02 AM	30-Mar-2014 1:18 PM	04-Apr-2014 10:17 PM	N
	D13130	NA	SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03	D13101	1/1	27-Mar-2014 8:05 AM	30-Mar-2014 1:18 PM	04-Apr-2014 10:43 PM	N
	D13130	NA	SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04	D13101	1/1	27-Mar-2014 10:02 AM	30-Mar-2014 1:18 PM	04-Apr-2014 11:09 PM	N
	D13130	NA	SAIA-MW2B	WG	SAIA-MW2B-0314	S-6390.05	D13101	1/1	27-Mar-2014 9:08 AM	30-Mar-2014 1:18 PM	04-Apr-2014 11:36 PM	N
	D13130	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	D13101	1/1	27-Mar-2014 7:58 AM	30-Mar-2014 1:18 PM	05-Apr-2014 12:02 AM	N
	D13130	NA	SAIA-MW7	WG	SAIA-MW7-0314	S-6390.07	D13101	1/1	27-Mar-2014 11:35 AM	30-Mar-2014 1:18 PM	05-Apr-2014 12:29 AM	N
	D13130	NA	SAIA-MW7	WG	SAIA-MW97-0314	S-6390.08	D13101	1/1	27-Mar-2014 11:40 AM	30-Mar-2014 1:18 PM	05-Apr-2014 12:56 AM	FD
D13150	D13130	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06MS	D13101	1/1	27-Mar-2014 7:58 AM	30-Mar-2014 1:18 PM	05-Apr-2014 8:21 AM	MS
	D13130	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06MSD	D13101	1/1	27-Mar-2014 7:58 AM	30-Mar-2014 1:18 PM	05-Apr-2014 8:47 AM	SD
D13203	D13205	NA	FIELDQC	WQ	SAIA-EL01-0314	S-6398.01	D13101	1/1	27-Mar-2014 12:30 PM	06-Apr-2014 1:10 PM	16-Apr-2014 9:25 AM	EB
	D13205	NA	LABQC	WQ	LABQC	SBLK65	D13101	1/1	06-Apr-2014 1:10 PM	06-Apr-2014 1:10 PM	16-Apr-2014 9:00 AM	LB

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B50189	B50192	NA	FIELDQC	WQ	SAIA-EL01-0314	S-6390.09	B50124	1/1	27-Mar-2014 12:30 PM	07-Apr-2014 12:48 PM	07-Apr-2014 12:48 PM	EB
	B50192	NA	LABQC	WQ	LABQC	VBLK42	B50124	1/1	07-Apr-2014 12:15 PM	07-Apr-2014 12:15 PM	07-Apr-2014 12:15 PM	LB
	B50192	NA	SAIA-MW1A	WG	SAIA-MW1A-0314	S-6390.01	B50124	1/200	27-Mar-2014 9:55 AM	07-Apr-2014 1:21 PM	07-Apr-2014 1:21 PM	N
	B50192	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06MS	B50124	1/4	27-Mar-2014 7:58 AM	07-Apr-2014 4:03 PM	07-Apr-2014 4:03 PM	MS
	B50192	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	B50124	1/4	27-Mar-2014 7:58 AM	07-Apr-2014 6:42 PM	07-Apr-2014 6:42 PM	N
	B50192	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06DL	B50124	1/40	27-Mar-2014 7:58 AM	07-Apr-2014 5:08 PM	07-Apr-2014 5:08 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B50189	B50192	NA	SAIA-MW7	WG	SAIA-MW7-0314	S-6390.07DL	B50124	1/5	27-Mar-2014 11:35 AM	07-Apr-2014 5:40 PM	07-Apr-2014 5:40 PM	N
	B50192	NA	SAIA-MW7	WG	SAIA-MW97-0314	S-6390.08DL	B50124	1/5	27-Mar-2014 11:40 AM	07-Apr-2014 6:11 PM	07-Apr-2014 6:11 PM	FD
B50343	B50346	NA	LABQC	WQ	LABQC	VBLK63	B50295	1/1	17-Apr-2014 12:14 PM	17-Apr-2014 12:14 PM	17-Apr-2014 12:14 PM	LB
	B50346	NA	LABQC	WQ	LABQC	S-6390.11	B50295	1/1	17-Apr-2014 5:16 PM	17-Apr-2014 5:16 PM	17-Apr-2014 5:16 PM	LB
G28501	G28504	NA	LABQC	WQ	LABQC	VBLK9G	G28439	1/1	06-Apr-2014 11:31 AM	06-Apr-2014 11:31 AM	06-Apr-2014 11:31 AM	LB
	G28504	NA	SAIA-MW1B	WG	SAIA-MW1B-0314	S-6390.02	G28439	1/1	27-Mar-2014 9:02 AM	06-Apr-2014 8:38 PM	06-Apr-2014 8:38 PM	N
G28523	G28526	NA	FIELDQC	WQ	SAIA-RL04-0314	S-6390.10	G28439	1/1	27-Mar-2014 8:05 AM	07-Apr-2014 12:51 PM	07-Apr-2014 12:51 PM	TB
	G28526	NA	LABQC	WQ	LABQC	VBLK9J	G28439	1/1	07-Apr-2014 11:25 AM	07-Apr-2014 11:25 AM	07-Apr-2014 11:25 AM	LB
	G28526	NA	SAIA-MW1A	WG	SAIA-MW1A-0314	S-6390.01DL	G28439	1/1000	27-Mar-2014 9:55 AM	07-Apr-2014 5:30 PM	07-Apr-2014 5:30 PM	N
	G28526	NA	SAIA-MW1B	WG	SAIA-MW1B-0314	S-6390.02DL	G28439	1/8	27-Mar-2014 9:02 AM	07-Apr-2014 5:59 PM	07-Apr-2014 5:59 PM	N
	G28526	NA	SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03	G28439	1/8	27-Mar-2014 8:05 AM	07-Apr-2014 1:19 PM	07-Apr-2014 1:19 PM	N
	G28526	NA	SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03DL	G28439	1/80	27-Mar-2014 8:05 AM	07-Apr-2014 6:27 PM	07-Apr-2014 6:27 PM	N
	G28526	NA	SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04	G28439	1/20	27-Mar-2014 10:02 AM	07-Apr-2014 2:17 PM	07-Apr-2014 2:17 PM	N
	G28526	NA	SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04DL	G28439	1/200	27-Mar-2014 10:02 AM	07-Apr-2014 6:55 PM	07-Apr-2014 6:55 PM	N
	G28526	NA	SAIA-MW2B	WG	SAIA-MW2B-0314	S-6390.05	G28439	1/1	27-Mar-2014 9:08 AM	07-Apr-2014 11:55 AM	07-Apr-2014 11:55 AM	N
	G28526	NA	SAIA-MW2B	WG	SAIA-MW2B-0314	S-6390.05DL	G28439	1/10	27-Mar-2014 9:08 AM	07-Apr-2014 7:23 PM	07-Apr-2014 7:23 PM	N
	G28526	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06MSD	G28439	1/4	27-Mar-2014 7:58 AM	07-Apr-2014 8:53 PM	07-Apr-2014 8:53 PM	SD
	G28526	NA	SAIA-MW7	WG	SAIA-MW7-0314	S-6390.07	G28439	1/1	27-Mar-2014 11:35 AM	07-Apr-2014 3:21 PM	07-Apr-2014 3:21 PM	N
	G28526	NA	SAIA-MW7	WG	SAIA-MW97-0314	S-6390.08	G28439	1/1	27-Mar-2014 11:40 AM	07-Apr-2014 4:31 PM	07-Apr-2014 4:31 PM	FD

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

Batch Report

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
P49878-1	P49880	NA	FIELDQC	WQ	SAIA-EL01-0314	S-6390.09	P49866-1	1/1	27-Mar-2014 12:30 PM	30-Mar-2014 7:55 PM	08-Apr-2014 12:26 AM	EB
	P49880	NA	LABQC	WQ	LABQC	ALCS72	P49866-1	1/1	30-Mar-2014 7:55 PM	30-Mar-2014 7:55 PM	07-Apr-2014 7:53 PM	BS
	P49880	NA	LABQC	WQ	LABQC	ABLK72	P49866-1	1/1	30-Mar-2014 7:55 PM	30-Mar-2014 7:55 PM	07-Apr-2014 7:23 PM	LB
	P49880	NA	SAIA-MW1A	WG	SAIA-MW1A-0314	S-6390.01	P49866-1	1/1	27-Mar-2014 9:55 AM	30-Mar-2014 7:55 PM	07-Apr-2014 8:24 PM	N
	P49880	NA	SAIA-MW1B	WG	SAIA-MW1B-0314	S-6390.02	P49866-1	1/1	27-Mar-2014 9:02 AM	30-Mar-2014 7:55 PM	07-Apr-2014 8:54 PM	N
	P49880	NA	SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03	P49866-1	1/1	27-Mar-2014 8:05 AM	30-Mar-2014 7:55 PM	07-Apr-2014 9:24 PM	N
	P49880	NA	SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04	P49866-1	1/1	27-Mar-2014 10:02 AM	30-Mar-2014 7:55 PM	07-Apr-2014 9:55 PM	N
	P49880	NA	SAIA-MW2B	WG	SAIA-MW2B-0314	S-6390.05	P49866-1	1/1	27-Mar-2014 9:08 AM	30-Mar-2014 7:55 PM	07-Apr-2014 10:25 PM	N
	P49880	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	P49866-1	1/1	27-Mar-2014 7:58 AM	30-Mar-2014 7:55 PM	08-Apr-2014 12:56 AM	MS
	P49880	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	P49866-1	1/1	27-Mar-2014 7:58 AM	30-Mar-2014 7:55 PM	07-Apr-2014 10:55 PM	N
	P49880	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	P49866-1	1/1	27-Mar-2014 7:58 AM	30-Mar-2014 7:55 PM	08-Apr-2014 1:26 AM	SD
	P49880	NA	SAIA-MW7	WG	SAIA-MW7-0314	S-6390.07	P49866-1	1/1	27-Mar-2014 11:35 AM	30-Mar-2014 7:55 PM	07-Apr-2014 11:25 PM	N
	P49880	NA	SAIA-MW7	WG	SAIA-MW97-0314	S-6390.08	P49866-1	1/1	27-Mar-2014 11:40 AM	30-Mar-2014 7:55 PM	07-Apr-2014 11:56 PM	FD
P49878-2	P49880	NA	FIELDQC	WQ	SAIA-EL01-0314	S-6390.09	P49866-2	1/1	27-Mar-2014 12:30 PM	30-Mar-2014 7:55 PM	08-Apr-2014 12:56 AM	EB
	P49880	NA	LABQC	WQ	LABQC	ALCS72	P49866-2	1/1	30-Mar-2014 7:55 PM	30-Mar-2014 7:55 PM	07-Apr-2014 8:24 PM	BS
	P49880	NA	LABQC	WQ	LABQC	ABLK72	P49866-2	1/1	30-Mar-2014 7:55 PM	30-Mar-2014 7:55 PM	07-Apr-2014 7:53 PM	LB
	P49880	NA	SAIA-MW1A	WG	SAIA-MW1A-0314	S-6390.01	P49866-2	1/1	27-Mar-2014 9:55 AM	30-Mar-2014 7:55 PM	07-Apr-2014 8:54 PM	N
	P49880	NA	SAIA-MW1B	WG	SAIA-MW1B-0314	S-6390.02	P49866-2	1/1	27-Mar-2014 9:02 AM	30-Mar-2014 7:55 PM	07-Apr-2014 9:24 PM	N
	P49880	NA	SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03	P49866-2	1/1	27-Mar-2014 8:05 AM	30-Mar-2014 7:55 PM	07-Apr-2014 9:55 PM	N
	P49880	NA	SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04	P49866-2	1/1	27-Mar-2014 10:02 AM	30-Mar-2014 7:55 PM	07-Apr-2014 10:25 PM	N
	P49880	NA	SAIA-MW2B	WG	SAIA-MW2B-0314	S-6390.05	P49866-2	1/1	27-Mar-2014 9:08 AM	30-Mar-2014 7:55 PM	07-Apr-2014 10:55 PM	N
	P49880	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	P49866-2	1/1	27-Mar-2014 7:58 AM	30-Mar-2014 7:55 PM	08-Apr-2014 1:26 AM	MS

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

Batch Report

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
P49878-2	P49880	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	P49866-2	1/1	27-Mar-2014 7:58 AM	30-Mar-2014 7:55 PM	07-Apr-2014 11:25 PM	N
	P49880	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	P49866-2	1/1	27-Mar-2014 7:58 AM	30-Mar-2014 7:55 PM	08-Apr-2014 1:57 AM	SD
	P49880	NA	SAIA-MW7	WG	SAIA-MW7-0314	S-6390.07	P49866-2	1/1	27-Mar-2014 11:35 AM	30-Mar-2014 7:55 PM	07-Apr-2014 11:56 PM	N
	P49880	NA	SAIA-MW7	WG	SAIA-MW97-0314	S-6390.08	P49866-2	1/1	27-Mar-2014 11:40 AM	30-Mar-2014 7:55 PM	08-Apr-2014 12:26 AM	FD

Test Method: SW8270D; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
F53978	F53982	NA	LABQC	WQ	LABQC	SBLK59	F53673	1/1	30-Mar-2014 1:18 PM	30-Mar-2014 1:18 PM	08-Apr-2014 10:46 AM	LB
F54023	F53982	NA	SAIA-MW1B	WG	SAIA-MW1B-0314	S-6390.02	F53673	1/1	27-Mar-2014 9:02 AM	30-Mar-2014 1:18 PM	09-Apr-2014 3:15 PM	N
	F53982	NA	SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03	F53673	1/1	27-Mar-2014 8:05 AM	30-Mar-2014 1:18 PM	09-Apr-2014 3:28 PM	N
	F53982	NA	SAIA-MW2B	WG	SAIA-MW2B-0314	S-6390.05	F53673	1/1	27-Mar-2014 9:08 AM	30-Mar-2014 1:18 PM	09-Apr-2014 3:56 PM	N
	F53982	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	F53673	1/1	27-Mar-2014 7:58 AM	30-Mar-2014 1:18 PM	09-Apr-2014 4:10 PM	N
F54032	F53982	NA	SAIA-MW7	WG	SAIA-MW7-0314	S-6390.07	F54032	1/1	27-Mar-2014 11:35 AM	30-Mar-2014 1:18 PM	11-Apr-2014 3:15 PM	N
	F53982	NA	SAIA-MW7	WG	SAIA-MW97-0314	S-6390.08	F54032	1/1	27-Mar-2014 11:40 AM	30-Mar-2014 1:18 PM	11-Apr-2014 3:28 PM	FD
	F54044	NA	LABQC	WQ	LABQC	SBLK65	F54032	1/1	06-Apr-2014 1:10 PM	06-Apr-2014 1:10 PM	11-Apr-2014 4:35 PM	LB
F54078	F53982	NA	SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03DL	F54032	1/5	27-Mar-2014 8:05 AM	30-Mar-2014 1:18 PM	15-Apr-2014 1:34 PM	N
	F53982	NA	SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04	F54032	1/1	27-Mar-2014 10:02 AM	30-Mar-2014 1:18 PM	15-Apr-2014 1:07 PM	N
	F53982	NA	SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04DL	F54032	1/5	27-Mar-2014 10:02 AM	30-Mar-2014 1:18 PM	15-Apr-2014 1:21 PM	N
	F53982	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06DL	F54032	1/5	27-Mar-2014 7:58 AM	30-Mar-2014 1:18 PM	15-Apr-2014 1:48 PM	N
	F54044	NA	SAIA-MW1A	WG	SAIA-MW1A-0314	S-6390.01RX	F54032	1/1	27-Mar-2014 9:55 AM	06-Apr-2014 1:10 PM	15-Apr-2014 12:54 PM	N
F54124	F54044	NA	FIELDQC	WQ	SAIA-EL01-0314	S-6398.01	F54032	1/1	27-Mar-2014 12:30 PM	06-Apr-2014 1:10 PM	16-Apr-2014 8:47 AM	EB

Field Batch Report

Test Method: CSVOL12		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
27031401			FIELDQC	WQ	SAIA-EL01-0314	S-6398.01	3/27/2014 12:30:00 PM	EB
27031401			SAIA-MW1A	WG	SAIA-MW1A-0314	S-6390.01	3/27/2014 9:55:00 AM	N
27031401			SAIA-MW1B	WG	SAIA-MW1B-0314	S-6390.02	3/27/2014 9:02:00 AM	N
27031401			SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03	3/27/2014 8:05:00 AM	N
27031401			SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04	3/27/2014 10:02:00 AM	N
27031401			SAIA-MW2B	WG	SAIA-MW2B-0314	S-6390.05	3/27/2014 9:08:00 AM	N
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	3/27/2014 7:58:00 AM	N
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06MS	3/27/2014 7:58:00 AM	MS
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06MSD	3/27/2014 7:58:00 AM	SD
27031401			SAIA-MW7	WG	SAIA-MW7-0314	S-6390.07	3/27/2014 11:35:00 AM	N
27031401			SAIA-MW7	WG	SAIA-MW97-0314	S-6390.08	3/27/2014 11:40:00 AM	FD

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
27031401			FIELDQC	WQ	SAIA-EL01-0314	S-6390.09	3/27/2014 12:30:00 PM	EB
27031401			SAIA-MW1A	WG	SAIA-MW1A-0314	S-6390.01	3/27/2014 9:55:00 AM	N
27031401			SAIA-MW1A	WG	SAIA-MW1A-0314	S-6390.01DL	3/27/2014 9:55:00 AM	N
27031401			SAIA-MW1B	WG	SAIA-MW1B-0314	S-6390.02	3/27/2014 9:02:00 AM	N
27031401			SAIA-MW1B	WG	SAIA-MW1B-0314	S-6390.02DL	3/27/2014 9:02:00 AM	N
27031401			SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03	3/27/2014 8:05:00 AM	N
27031401			SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03DL	3/27/2014 8:05:00 AM	N
27031401			SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04	3/27/2014 10:02:00 AM	N
27031401			SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04DL	3/27/2014 10:02:00 AM	N
27031401			SAIA-MW2B	WG	SAIA-MW2B-0314	S-6390.05	3/27/2014 9:08:00 AM	N
27031401			SAIA-MW2B	WG	SAIA-MW2B-0314	S-6390.05DL	3/27/2014 9:08:00 AM	N
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	3/27/2014 7:58:00 AM	N

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06DL	3/27/2014 7:58:00 AM	N
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06MS	3/27/2014 7:58:00 AM	MS
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06MSD	3/27/2014 7:58:00 AM	SD
27031401			SAIA-MW7	WG	SAIA-MW7-0314	S-6390.07	3/27/2014 11:35:00 AM	N
27031401			SAIA-MW7	WG	SAIA-MW7-0314	S-6390.07DL	3/27/2014 11:35:00 AM	N
27031401			SAIA-MW7	WG	SAIA-MW97-0314	S-6390.08	3/27/2014 11:40:00 AM	FD
27031401			SAIA-MW7	WG	SAIA-MW97-0314	S-6390.08DL	3/27/2014 11:40:00 AM	FD

Test Method: SW8082		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
27031401			FIELDQC	WQ	SAIA-EL01-0314	S-6390.09	3/27/2014 12:30:00 PM	EB
27031401			SAIA-MW1A	WG	SAIA-MW1A-0314	S-6390.01	3/27/2014 9:55:00 AM	N
27031401			SAIA-MW1B	WG	SAIA-MW1B-0314	S-6390.02	3/27/2014 9:02:00 AM	N
27031401			SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03	3/27/2014 8:05:00 AM	N
27031401			SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04	3/27/2014 10:02:00 AM	N
27031401			SAIA-MW2B	WG	SAIA-MW2B-0314	S-6390.05	3/27/2014 9:08:00 AM	N
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	3/27/2014 7:58:00 AM	MS
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	3/27/2014 7:58:00 AM	N
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	3/27/2014 7:58:00 AM	SD
27031401			SAIA-MW7	WG	SAIA-MW7-0314	S-6390.07	3/27/2014 11:35:00 AM	N
27031401			SAIA-MW7	WG	SAIA-MW97-0314	S-6390.08	3/27/2014 11:40:00 AM	FD

Test Method: SW8270D		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
27031401			FIELDQC	WQ	SAIA-EL01-0314	S-6398.01	3/27/2014 12:30:00 PM	EB
27031401			SAIA-MW1A	WG	SAIA-MW1A-0314	S-6390.01RX	3/27/2014 9:55:00 AM	N

Field Batch Report

Test Method: SW8270D		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
27031401			SAIA-MW1B	WG	SAIA-MW1B-0314	S-6390.02	3/27/2014 9:02:00 AM	N
27031401			SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03	3/27/2014 8:05:00 AM	N
27031401			SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03DL	3/27/2014 8:05:00 AM	N
27031401			SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04	3/27/2014 10:02:00 AM	N
27031401			SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04DL	3/27/2014 10:02:00 AM	N
27031401			SAIA-MW2B	WG	SAIA-MW2B-0314	S-6390.05	3/27/2014 9:08:00 AM	N
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	3/27/2014 7:58:00 AM	N
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06DL	3/27/2014 7:58:00 AM	N
27031401			SAIA-MW7	WG	SAIA-MW7-0314	S-6390.07	3/27/2014 11:35:00 AM	N
27031401			SAIA-MW7	WG	SAIA-MW97-0314	S-6390.08	3/27/2014 11:40:00 AM	FD

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	27031402		FIELDQC	WQ	SAIA-RL04-0314	S-6390.10	3/27/2014 8:05:00 AM	TB
	27031402		SAIA-MW1A	WG	SAIA-MW1A-0314	S-6390.01	3/27/2014 9:55:00 AM	N
	27031402		SAIA-MW1A	WG	SAIA-MW1A-0314	S-6390.01DL	3/27/2014 9:55:00 AM	N
	27031402		SAIA-MW1B	WG	SAIA-MW1B-0314	S-6390.02	3/27/2014 9:02:00 AM	N
	27031402		SAIA-MW1B	WG	SAIA-MW1B-0314	S-6390.02DL	3/27/2014 9:02:00 AM	N
	27031402		SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03	3/27/2014 8:05:00 AM	N
	27031402		SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03DL	3/27/2014 8:05:00 AM	N
	27031402		SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04	3/27/2014 10:02:00 AM	N
	27031402		SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04DL	3/27/2014 10:02:00 AM	N
	27031402		SAIA-MW2B	WG	SAIA-MW2B-0314	S-6390.05	3/27/2014 9:08:00 AM	N
	27031402		SAIA-MW2B	WG	SAIA-MW2B-0314	S-6390.05DL	3/27/2014 9:08:00 AM	N
	27031402		SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	3/27/2014 7:58:00 AM	N
	27031402		SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06DL	3/27/2014 7:58:00 AM	N

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	27031402		SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06MS	3/27/2014 7:58:00 AM	MS
	27031402		SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06MSD	3/27/2014 7:58:00 AM	SD
	27031402		SAIA-MW7	WG	SAIA-MW7-0314	S-6390.07	3/27/2014 11:35:00 AM	N
	27031402		SAIA-MW7	WG	SAIA-MW7-0314	S-6390.07DL	3/27/2014 11:35:00 AM	N
	27031402		SAIA-MW7	WG	SAIA-MW97-0314	S-6390.08	3/27/2014 11:40:00 AM	FD
	27031402		SAIA-MW7	WG	SAIA-MW97-0314	S-6390.08DL	3/27/2014 11:40:00 AM	FD

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CSVOL12 / SW3510C	Blank	SBLK59 (LB)	1 / 1.00	Benzo(g,h,i)perylene	1.20	UG/L	U/None	< 2.7	< 5	B1			
CSVOL12 / SW3510C	Blank	SBLK59 (LB)	1 / 1.00	Dibenz(a,h)anthracene	1.10	UG/L	U/None	< 2.8	< 5	B1			
CSVOL12 / SW3510C	Blank	SBLK59 (LB)	1 / 1.00	Indeno(1,2,3-c,d)pyrene	1.00	UG/L	U/None	< 2.6	< 5	B1			
CSVOL12 / SW3510C	MS Recovery	SAIA-MW2C-0314 (SD)	1 / 1.00	4-Chloro-3-Methylphenol	138	Percent	J/None	23 - 97	10 - 120	M			
CSVOL12 / SW3510C	MS Recovery	SAIA-MW2C-0314 (MS)	1 / 1.00	4-Chloro-3-Methylphenol	140	Percent	J/None	23 - 97	10 - 120	M			
CSVOL12 / SW3510C	MS Recovery	SAIA-MW2C-0314 (SD)	1 / 1.00	4-Nitrophenol	145	Percent	J/None	10 - 80	5 - 120	M			
CSVOL12 / SW3510C	MS Recovery	SAIA-MW2C-0314 (MS)	1 / 1.00	4-Nitrophenol	155	Percent	J/None	10 - 80	5 - 120	M			
CSVOL12 / SW3510C	MS Recovery	SAIA-MW2C-0314 (SD)	1 / 1.00	Pentachlorophenol	145	Percent	J/None	9 - 103	5 - 120	M			
CSVOL12 / SW3510C	MS Recovery	SAIA-MW2C-0314 (MS)	1 / 1.00	Pentachlorophenol	153	Percent	J/None	9 - 103	5 - 120	M			
CSVOL12 / SW3510C	MS Recovery	SAIA-MW2C-0314 (MS)	1 / 1.00	Phenol	130	Percent	J/None	12 - 110	10 - 120	M			
CSVOL12 / SW3510C	MS Recovery	SAIA-MW2C-0314 (SD)	1 / 1.00	Phenol	130	Percent	J/None	12 - 110	10 - 120	M			
CSVOL12 / SW3510C	Prep Hold Time	SAIA-EL01-0314 (EB)	1 / 1.00	All in Run	10.0	Days	J/UJ	< 7	< 14	H2			
CSVOL12 / SW3510C	Surrogate	SAIA-MW1C-0314 (N)	1 / 1.00	4-Nitrophenol-d4	120	Percent	J/None	33 - 116	10 - 120	S			
CSVOL12 / SW3510C	Surrogate	SAIA-MW2B-0314 (N)	1 / 1.00	2-Nitrophenol-d4	110	Percent	J/None	40 - 108	10 - 120	S			
CSVOL12 / SW3510C	Surrogate	SAIA-MW2B-0314 (N)	1 / 1.00	4-Nitrophenol-d4	120	Percent	J/None	33 - 116	10 - 120	S			
CSVOL12 / SW3510C	Surrogate	SAIA-MW2B-0314 (N)	1 / 1.00	Pyrene-d10	108	Percent	J/None	39 - 106	10 - 120	S			
CSVOL12 / SW3510C	Surrogate	SAIA-MW7-0314 (N)	1 / 1.00	2-Nitrophenol-d4	110	Percent	J/None	40 - 108	10 - 120	S			
CSVOL12 / SW3510C	Surrogate	SAIA-MW7-0314 (N)	1 / 1.00	Acenaphthylene-d8	108	Percent	J/None	41 - 107	10 - 120	S			
CVOL / METHOD	Blank	S-6390.11 (LB)	1 / 1.00	Methylene Chloride	0.550	UG/L	U/None	< 0.2	< 0.5	B1			
CVOL / METHOD	Blank	VBLK42 (LB)	1 / 1.00	1,2,3-Trichlorobenzene	0.0740	UG/L	U/None	< 0.4	< 0.5	B1			
CVOL / METHOD	Blank	VBLK42 (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.0980	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK42 (LB)	1 / 1.00	Methylene Chloride	0.850	UG/L	U/None	< 0.2	< 0.5	B1			

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CVOL / METHOD	Blank	VBLK42 (LB)	1 / 1.00	Toluene	0.130	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK42 (LB)	1 / 1.00	Trichloroethene (TCE)	0.250	UG/L	U/None	< 0.4	< 0.5	B1			
CVOL / METHOD	Blank	VBLK63 (LB)	1 / 1.00	1,2,3-Trichlorobenzene	0.110	UG/L	U/None	< 0.4	< 0.5	B1			
CVOL / METHOD	Blank	VBLK63 (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.120	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK63 (LB)	1 / 1.00	1,3-Dichlorobenzene	0.0520	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK63 (LB)	1 / 1.00	1,4-Dichlorobenzene	0.0730	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK63 (LB)	1 / 1.00	Ethylbenzene	0.0380	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK63 (LB)	1 / 1.00	Isopropylbenzene (Cumene)	0.0340	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK63 (LB)	1 / 1.00	m,p-Xylene	0.0690	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK63 (LB)	1 / 1.00	Methylene Chloride	0.340	UG/L	U/None	< 0.2	< 0.5	B1			
CVOL / METHOD	Blank	VBLK63 (LB)	1 / 1.00	o-Xylene	0.0360	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK63 (LB)	1 / 1.00	Styrene	0.0320	UG/L	U/None	< 0.4	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9G (LB)	1 / 1.00	Methylene Chloride	0.390	UG/L	U/None	< 0.2	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9J (LB)	1 / 1.00	Methylene Chloride	0.820	UG/L	U/None	< 0.2	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9J (LB)	1 / 1.00	Toluene	0.140	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	MS Recovery	SAIA-MW2C-0314 (SD)	1 / 4.00	1,1,2-Trichloro-1,2,2-trifluoroethane	0.00	PERCENT	J/R	70 - 130	20 - 140	M			
CVOL / METHOD	MS Recovery	SAIA-MW2C-0314 (SD)	1 / 4.00	1,1-Dichloroethene	56.5	PERCENT	J/UJ	70 - 130	20 - 140	M			
CVOL / METHOD	MS Recovery	SAIA-MW2C-0314 (SD)	1 / 4.00	Acetone	0.00	PERCENT	J/R	70 - 130	20 - 140	M			
CVOL / METHOD	MS Recovery	SAIA-MW2C-0314 (SD)	1 / 4.00	Carbon Disulfide	0.00	PERCENT	J/R	70 - 130	20 - 140	M			
CVOL / METHOD	MS Recovery	SAIA-MW2C-0314 (SD)	1 / 4.00	Methyl Acetate	0.00	PERCENT	J/R	70 - 130	20 - 140	M			
CVOL / METHOD	MS Recovery	SAIA-MW2C-0314 (MS)	1 / 4.00	Trichloroethene (TCE)	133	PERCENT	J/None	70 - 130	20 - 140	M			
CVOL / METHOD	MS Recovery	SAIA-MW2C-0314 (SD)	1 / 4.00	Trichloroethene (TCE)	66.7	PERCENT	J/UJ	70 - 130	20 - 140	M			

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CVOL / METHOD	Trip Blank	SAIA-RL04-0314 (TB)	1 / 1.00	Acetone	3.40	UG/L	U/None	< 1.9	< 5	K3			
SW8082 / SW3510C	LCS Recovery	ALCS72 (BS)	1 / 1.00	PCB-1221 (Arochlor 1221)	0.00	Percent	J/R	50 - 150	20 - 160	L			
SW8082 / SW3510C	LCS Recovery	ALCS72 (BS)	1 / 1.00	PCB-1232 (Arochlor 1232)	0.00	Percent	J/R	50 - 150	20 - 160	L			
SW8082 / SW3510C	LCS Recovery	ALCS72 (BS)	1 / 1.00	PCB-1242 (Arochlor 1242)	0.00	Percent	J/R	50 - 150	20 - 160	L			
SW8082 / SW3510C	LCS Recovery	ALCS72 (BS)	1 / 1.00	PCB-1248 (Arochlor 1248)	0.00	Percent	J/R	50 - 150	20 - 160	L			
SW8082 / SW3510C	LCS Recovery	ALCS72 (BS)	1 / 1.00	PCB-1254 (Arochlor 1254)	0.00	Percent	J/R	50 - 150	20 - 160	L			
SW8082 / SW3510C	LCS Recovery	ALCS72 (BS)	1 / 1.00	PCB-1262 (Arochlor 1262)	0.00	Percent	J/R	50 - 150	20 - 160	L			
SW8082 / SW3510C	LCS Recovery	ALCS72 (BS)	1 / 1.00	PCB-1268 (Arochlor 1268)	0.00	Percent	J/R	50 - 150	20 - 160	L			
SW8082 / SW3510C	Surrogate	SAIA-EL01-0314 (EB)	1 / 1.00	2,4,5,6-Tetrachloro-meta-xylene	0.717	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-EL01-0314 (EB)	1 / 1.00	Decachlorobiphenyl	0.692	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-MW1A-0314 (N)	1 / 1.00	2,4,5,6-Tetrachloro-meta-xylene	0.933	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-MW1A-0314 (N)	1 / 1.00	Decachlorobiphenyl	0.833	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-MW1B-0314 (N)	1 / 1.00	2,4,5,6-Tetrachloro-meta-xylene	0.850	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-MW1B-0314 (N)	1 / 1.00	Decachlorobiphenyl	0.767	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-MW1C-0314 (N)	1 / 1.00	2,4,5,6-Tetrachloro-meta-xylene	0.800	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-MW1C-0314 (N)	1 / 1.00	Decachlorobiphenyl	0.800	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-MW2A-0314 (N)	1 / 1.00	2,4,5,6-Tetrachloro-meta-xylene	0.783	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-MW2A-0314 (N)	1 / 1.00	Decachlorobiphenyl	0.708	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-MW2B-0314 (N)	1 / 1.00	2,4,5,6-Tetrachloro-meta-xylene	0.750	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-MW2B-0314 (N)	1 / 1.00	Decachlorobiphenyl	0.567	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-MW7-0314 (N)	1 / 1.00	2,4,5,6-Tetrachloro-meta-xylene	0.833	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-MW7-0314 (N)	1 / 1.00	Decachlorobiphenyl	0.783	Percent	J/R	30 - 150	20 - 160	S			

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
SW8082 / SW3510C	Surrogate	SAIA-MW97-0314 (FD)	1 / 1.00	2,4,5,6-Tetrachloro-meta-xylene	0.733	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-MW97-0314 (FD)	1 / 1.00	Decachlorobiphenyl	0.733	Percent	J/R	30 - 150	20 - 160	S			
SW8270D / SW3510C	Prep Hold Time	SAIA-EL01-0314 (EB)	1 / 1.00	All in Run	10.0	Days	J/UJ	< 7	< 14	H2			
SW8270D / SW3510C	Prep Hold Time	SAIA-MW1A-0314 (N)	1 / 1.00	All in Run	10.1	Days	J/UJ	< 7	< 14	H2			
SW8270D / SW3510C	Surrogate	SAIA-MW1A-0314 (N)	1 / 1.00	1,4-Dioxane-d8	1050	PERCENT	J/None	40 - 135	10 - 140	S			

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	1,2,4,5-Tetrachlorobenzene	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2,3,4,6-Tetrachlorophenol	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2,4,5-Trichlorophenol	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2,4,6-Trichlorophenol	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2,4-Dichlorophenol	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2,4-Dimethylphenol	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2,4-Dinitrophenol	10.0	10.0 U	10.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2,4-Dinitrotoluene	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2,6-Dinitrotoluene	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2-Chloronaphthalene	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2-Chlorophenol	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2-Methylnaphthalene	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2-Methylphenol (o-Cresol)	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2-Nitroaniline	10.0	10.0 U	10.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2-Nitrophenol	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	3,3'-Dichlorobenzidine	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	3-Nitroaniline	10.0	10.0 U	10.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	4,6-Dinitro-2-Methylphenol	10.0	10.0 U	10.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	4-Bromophenyl phenyl ether	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	4-Chloro-3-Methylphenol	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	4-Chloroaniline	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	4-Chlorophenyl Phenyl Ether	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	4-Methylphenol (p-Cresol)	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	4-Nitroaniline	10.0	10.0 U	10.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	4-Nitrophenol	10.0	10.0 U	10.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Acenaphthene	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Acenaphthylene	5.0	5.0 U	5.0 UJ	UG/L	H2/T

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Acetophenone	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Anthracene	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Atrazine	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Benzaldehyde	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Benzo(a)anthracene	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Benzo(a)pyrene	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Benzo(b)fluoranthene	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Benzo(g,h,i)perylene	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Benzo(k)fluoranthene	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Benzyl butyl phthalate	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Biphenyl (Diphenyl)	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	bis(2-Chloroethoxy) Methane	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	bis(2-Chloroisopropyl) Ether	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	bis(2-Ethylhexyl) Phthalate	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Caprolactam	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Carbazole	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Chrysene	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Dibenz(a,h)anthracene	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Dibenzofuran	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Diethyl Phthalate	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Dimethyl Phthalate	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Di-n-Butyl Phthalate	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Di-n-Octylphthalate	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Fluoranthene	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Fluorene	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Hexachlorobenzene	5.0	5.0 U	5.0 UJ	UG/L	H2/T

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Hexachlorobutadiene	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Hexachlorocyclopentadiene	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Hexachloroethane	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Indeno(1,2,3-c,d)pyrene	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Isophorone	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Naphthalene	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Nitrobenzene	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	n-Nitrosodi-n-propylamine	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	n-Nitrosodiphenylamine	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Pentachlorophenol	10.0	10.0 U	10.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Phenanthrene	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Phenol	5.0	5.0 U	5.0 UJ	UG/L	H2/T
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Pyrene	5.0	5.0 U	5.0 UJ	UG/L	H2/T

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,1,1-Trichloroethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,1,2,2-Tetrachloroethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,1,2-Trichloroethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,1-Dichloroethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,2,3-Trichloropropane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,2,4-Trichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,2-Dibromo-3-chloropropane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,2-Dibromoethane (EDB)	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,2-Dichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,2-Dichloroethane	0.50	0.50 U	0.50 UJ	UG/L	T

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,2-Dichloropropane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,3-Dichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,4-Dichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	2-Hexanone	5.0	5.0 U	5.0 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	4-Methyl-2-pentanone (MIBK)	5.0	5.0 U	5.0 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Acetone	5.0	5.0 U	5.0 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Benzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Bromochloromethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Bromodichloromethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Bromoform	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Bromomethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Carbon Disulfide	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Carbon Tetrachloride	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Chlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Chloroethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Chloroform	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Chloromethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	cis-1,2-Dichloroethylene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	cis-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Cyclohexane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Dibromochloromethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Dichlorodifluoromethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Ethylbenzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Isopropylbenzene (Cumene)	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	m,p-Xylene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Methyl Acetate	0.50	0.50 U	0.50 UJ	UG/L	T

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Methylcyclohexane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Methylene Chloride	0.50	0.50 B	0.50 UJ	UG/L	T/B1
CVOL/NONE	WQ	SAIA-EL01-0314	EB	o-Xylene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Styrene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	tert-Butyl Methyl Ether (MTBE)	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Tetrachloroethene (PCE)	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Toluene	0.50	0.50 JB	0.50 UJ	UG/L	T/B1
CVOL/NONE	WQ	SAIA-EL01-0314	EB	trans-1,2-Dichloroethene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	trans-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Trichloroethene (TCE)	0.50	0.50 JB	0.50 UJ	UG/L	T/B1
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Trichlorofluoromethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Vinyl Chloride	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WG	SAIA-MW1A-0314	N	1,1-Dichloroethane	100	21.0 J	21.0 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW1A-0314	N	Methylene Chloride	100	100 B	100 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW1A-0314	N	Toluene	100	100 JB	100 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW1A-0314	N	trans-1,2-Dichloroethene	100	71.0 J	71.0 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW1A-0314	N	Trichloroethene (TCE)	500	7400 D	7400 J	UG/L	M
CVOL/NONE	WG	SAIA-MW1B-0314	N	1,2-Dichloroethane	0.50	0.48 J	0.48 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW1B-0314	N	Cyclohexane	0.50	0.24 J	0.24 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW1B-0314	N	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW1C-0314	N	1,1-Dichloroethane	4.0	3.9 J	3.9 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW1C-0314	N	1,1-Dichloroethene	4.0	4.0 U	4.0 UJ	UG/L	M
CVOL/NONE	WG	SAIA-MW1C-0314	N	Cyclohexane	4.0	1.6 J	1.6 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW1C-0314	N	Methylene Chloride	4.0	4.0 B	4.0 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW1C-0314	N	Toluene	4.0	4.0 JB	4.0 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW1C-0314	N	Trichloroethene (TCE)	40.0	420 D	420 J	UG/L	M
CVOL/NONE	WG	SAIA-MW2A-0314	N	1,1-Dichloroethane	10.0	4.8 J	4.8 J	UG/L	TR

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW2A-0314	N	1,1-Dichloroethene	10.0	10.0 U	10.0 UJ	UG/L	M
CVOL/NONE	WG	SAIA-MW2A-0314	N	Methylene Chloride	10.0	10.0 B	10.0 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW2A-0314	N	Toluene	10.0	10.0 JB	10.0 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW2A-0314	N	Trichloroethene (TCE)	100	1100 D	1100 J	UG/L	M
CVOL/NONE	WG	SAIA-MW2B-0314	N	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	UG/L	M
CVOL/NONE	WG	SAIA-MW2B-0314	N	Cyclohexane	0.50	0.24 J	0.24 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW2B-0314	N	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW2B-0314	N	Toluene	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW2B-0314	N	Trichloroethene (TCE)	0.50	6.8	6.8 J	UG/L	M/D2
CVOL/NONE	WG	SAIA-MW2C-0314	N	Cyclohexane	2.0	1.7 J	1.7 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW2C-0314	N	Methylene Chloride	2.0	2.0 B	2.0 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW2C-0314	N	Toluene	2.0	2.0 JB	2.0 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW2C-0314	N	Trichloroethene (TCE)	20.0	260 DB	260 J	UG/L	M
CVOL/NONE	WG	SAIA-MW7-0314	N	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	UG/L	M
CVOL/NONE	WG	SAIA-MW7-0314	N	Methylene Chloride	0.50	0.50 B	0.50 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW7-0314	N	Toluene	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW7-0314	N	Trichloroethene (TCE)	2.5	24.0 DB	24.0 J	UG/L	M
CVOL/NONE	WG	SAIA-MW97-0314	FD	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	UG/L	M
CVOL/NONE	WG	SAIA-MW97-0314	FD	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW97-0314	FD	Toluene	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW97-0314	FD	Trichloroethene (TCE)	2.5	22.0 DB	22.0 J	UG/L	M
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,1,1-Trichloroethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,1,2,2-Tetrachloroethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,1,2-Trichloroethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,1-Dichloroethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	UG/L	M/T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	T

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,2,3-Trichloropropane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,2,4-Trichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,2-Dibromo-3-chloropropane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,2-Dibromoethane (EDB)	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,2-Dichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,2-Dichloroethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,2-Dichloropropane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,3-Dichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,4-Dichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	2-Hexanone	5.0	5.0 U	5.0 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	4-Methyl-2-pentanone (MIBK)	5.0	5.0 U	5.0 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Acetone	5.0	3.4 J	3.4 J	UG/L	T/TR
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Benzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Bromochloromethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Bromodichloromethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Bromoform	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Bromomethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Carbon Tetrachloride	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Chlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Chloroethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Chloroform	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Chloromethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	cis-1,2-Dichloroethylene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	cis-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Cyclohexane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Dibromochloromethane	0.50	0.50 U	0.50 UJ	UG/L	T

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Dichlorodifluoromethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Ethylbenzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Isopropylbenzene (Cumene)	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	m,p-Xylene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Methylcyclohexane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Methylene Chloride	0.50	0.50 JB	0.50 UJ	UG/L	T/B1
CVOL/NONE	WQ	SAIA-RL04-0314	TB	o-Xylene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Styrene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	tert-Butyl Methyl Ether (MTBE)	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Tetrachloroethene (PCE)	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Toluene	0.50	0.50 JB	0.50 UJ	UG/L	T/B1
CVOL/NONE	WQ	SAIA-RL04-0314	TB	trans-1,2-Dichloroethene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	trans-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Trichloroethene (TCE)	0.50	0.50 U	0.50 UJ	UG/L	M/T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Trichlorofluoromethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Vinyl Chloride	0.50	0.50 U	0.50 UJ	UG/L	T
Test Leach	**Matrix**	**FieldSample ID**	**Type**	**Analyte**	**RL**	**Lab Result**	**Qualified Result**	**Units**	**Reason**
SW8270D/NONE	WQ	SAIA-EL01-0314	EB	1,4-Dioxane (p-Dioxane)	0.50	0.50 U	0.50 UJ	UG/L	H2/T
SW8270D/NONE	WG	SAIA-MW1A-0314	N	1,4-Dioxane (p-Dioxane)	0.50	1.6	1.7 J	UG/L	S

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	WG	SAIA-MW1C-0314	N	Carbazole	5.0	7.1	7.1	UG/L	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW1A-0314	N	1,1-Dichloroethane	100	21.0 J	21.0 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW1A-0314	N	cis-1,2-Dichloroethylene	100	3300	3300	UG/L	
CVOL/NONE	WG	SAIA-MW1A-0314	N	trans-1,2-Dichloroethene	100	71.0 J	71.0 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW1A-0314	N	Trichloroethene (TCE)	500	7400 D	7400 J	UG/L	M
CVOL/NONE	WG	SAIA-MW1B-0314	N	Cyclohexane	0.50	0.24 J	0.24 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW1B-0314	N	1,1-Dichloroethane	0.50	0.25 J	0.25	UG/L	
CVOL/NONE	WG	SAIA-MW1B-0314	N	1,2-Dichloroethane	0.50	0.48 J	0.48 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW1B-0314	N	cis-1,2-Dichloroethylene	4.0	59.0 D	59.0	UG/L	
CVOL/NONE	WG	SAIA-MW1B-0314	N	trans-1,2-Dichloroethene	0.50	4.6	4.6	UG/L	
CVOL/NONE	WG	SAIA-MW1B-0314	N	Trichloroethene (TCE)	0.50	17.0	17.0	UG/L	
CVOL/NONE	WG	SAIA-MW1C-0314	N	Cyclohexane	4.0	1.6 J	1.6 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW1C-0314	N	1,1-Dichloroethane	4.0	3.9 J	3.9 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW1C-0314	N	1,2-Dichloroethane	4.0	35.0	35.0	UG/L	
CVOL/NONE	WG	SAIA-MW1C-0314	N	cis-1,2-Dichloroethylene	40.0	370 D	370	UG/L	
CVOL/NONE	WG	SAIA-MW1C-0314	N	trans-1,2-Dichloroethene	4.0	34.0	34.0	UG/L	
CVOL/NONE	WG	SAIA-MW1C-0314	N	Trichloroethene (TCE)	40.0	420 D	420 J	UG/L	M
CVOL/NONE	WG	SAIA-MW2A-0314	N	1,1-Dichloroethane	10.0	4.8 J	4.8 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW2A-0314	N	cis-1,2-Dichloroethylene	100	2000 D	2000	UG/L	
CVOL/NONE	WG	SAIA-MW2A-0314	N	trans-1,2-Dichloroethene	10.0	74.0	74.0	UG/L	
CVOL/NONE	WG	SAIA-MW2A-0314	N	Trichloroethene (TCE)	100	1100 D	1100 J	UG/L	M
CVOL/NONE	WG	SAIA-MW2B-0314	N	Cyclohexane	0.50	0.24 J	0.24 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW2B-0314	N	1,2-Dichloroethane	0.50	6.6	6.6	UG/L	
CVOL/NONE	WG	SAIA-MW2B-0314	N	cis-1,2-Dichloroethylene	5.0	69.0 D	69.0	UG/L	
CVOL/NONE	WG	SAIA-MW2B-0314	N	trans-1,2-Dichloroethene	0.50	7.2	7.2	UG/L	

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW2B-0314	N	Trichloroethene (TCE)	0.50	6.8	6.8 J	UG/L	M/D2
CVOL/NONE	WG	SAIA-MW2C-0314	N	Benzene	2.0	6.1	6.1	UG/L	
CVOL/NONE	WG	SAIA-MW2C-0314	N	Cyclohexane	2.0	1.7 J	1.7 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW2C-0314	N	1,1-Dichloroethane	2.0	3.0	3.0	UG/L	
CVOL/NONE	WG	SAIA-MW2C-0314	N	1,2-Dichloroethane	2.0	32.0	32.0	UG/L	
CVOL/NONE	WG	SAIA-MW2C-0314	N	1,1-Dichloroethene	2.0	4.7	4.7	UG/L	
CVOL/NONE	WG	SAIA-MW2C-0314	N	cis-1,2-Dichloroethylene	20.0	360 D	360	UG/L	
CVOL/NONE	WG	SAIA-MW2C-0314	N	trans-1,2-Dichloroethene	2.0	28.0	28.0	UG/L	
CVOL/NONE	WG	SAIA-MW2C-0314	N	1,2-Dichloropropane	2.0	0.19 J	0.19	UG/L	
CVOL/NONE	WG	SAIA-MW2C-0314	N	Trichloroethene (TCE)	20.0	260 DB	260 J	UG/L	M
CVOL/NONE	WG	SAIA-MW7-0314	N	1,1-Dichloroethane	0.50	0.30 J	0.30	UG/L	
CVOL/NONE	WG	SAIA-MW7-0314	N	1,2-Dichloroethane	0.50	0.96	0.96	UG/L	
CVOL/NONE	WG	SAIA-MW7-0314	N	1,3-Dichlorobenzene	0.50	0.11 J	0.11	UG/L	
CVOL/NONE	WG	SAIA-MW7-0314	N	1,4-Dichlorobenzene	0.50	0.14 J	0.14	UG/L	
CVOL/NONE	WG	SAIA-MW7-0314	N	cis-1,2-Dichloroethylene	0.50	16.0	16.0	UG/L	
CVOL/NONE	WG	SAIA-MW7-0314	N	trans-1,2-Dichloroethene	0.50	1.1	1.1	UG/L	
CVOL/NONE	WG	SAIA-MW7-0314	N	Trichloroethene (TCE)	2.5	24.0 DB	24.0 J	UG/L	M
CVOL/NONE	WG	SAIA-MW97-0314	FD	1,1-Dichloroethane	0.50	0.37 J	0.37	UG/L	
CVOL/NONE	WG	SAIA-MW97-0314	FD	1,2-Dichloroethane	0.50	1.1	1.1	UG/L	
CVOL/NONE	WG	SAIA-MW97-0314	FD	1,3-Dichlorobenzene	0.50	0.12 J	0.12	UG/L	
CVOL/NONE	WG	SAIA-MW97-0314	FD	cis-1,2-Dichloroethylene	0.50	17.0	17.0	UG/L	
CVOL/NONE	WG	SAIA-MW97-0314	FD	trans-1,2-Dichloroethene	0.50	1.1	1.1	UG/L	
CVOL/NONE	WG	SAIA-MW97-0314	FD	Trichloroethene (TCE)	2.5	22.0 DB	22.0 J	UG/L	M
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Acetone	5.0	3.4 J	3.4 J	UG/L	T/TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8270D/NONE	WG	SAIA-MW1A-0314	N	1,4-Dioxane (p-Dioxane)	0.50	1.6	1.7 J	UG/L	S

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8270D/NONE	WG	SAIA-MW1B-0314	N	1,4-Dioxane (p-Dioxane)	0.50	1.9	1.9	UG/L	
SW8270D/NONE	WG	SAIA-MW1C-0314	N	1,4-Dioxane (p-Dioxane)	2.5	18.0 D	18.0	UG/L	
SW8270D/NONE	WG	SAIA-MW2A-0314	N	1,4-Dioxane (p-Dioxane)	2.5	12.0 D	12.0	UG/L	
SW8270D/NONE	WG	SAIA-MW2B-0314	N	1,4-Dioxane (p-Dioxane)	0.50	1.7	1.7	UG/L	
SW8270D/NONE	WG	SAIA-MW2C-0314	N	1,4-Dioxane (p-Dioxane)	2.5	14.0 D	14.0	UG/L	
SW8270D/NONE	WG	SAIA-MW7-0314	N	1,4-Dioxane (p-Dioxane)	0.50	1.9	1.9	UG/L	
SW8270D/NONE	WG	SAIA-MW97-0314	FD	1,4-Dioxane (p-Dioxane)	0.50	2.0	2.0	UG/L	

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

Facility: Southern Avenue Industrial Area

Water Wells Sampling Event, March 2014

Guidance Document:

Contract Laboratory: KAP TECHNOLOGIES INC., THE WOODLANDS, TX

Field Contractor:

Data Review Contractor: ESAT/ICF International

SDG: Y9DS0, Certified - 5/30/2014 by wtse

QC Level: S2VEM

Project Manager: Don Gruber, Gilbane

Data Reviewer: Santiago Lee, ICF

Data Reviewer Title: Validator

Date of Review Report: June 25, 2014

Second Reviewer: Tom Beer, Gilbane

Completion Date of Second Reviewer: December 02, 2014

Samples Included in SDG Y9DS0

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
CSVOL12/NONE	8	3
CVOL/NONE	8	6
SW8082/NONE	4	2
WSM0011/NONE	8	3

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by KAP TECHNOLOGIES INC., THE WOODLANDS, TX and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Equipment Blank
- Field Duplicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- Negative Blank

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 67 results (4.38%) out of the 1530 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

The EPA validator reviewed the KAP lab report, COCs, lab case narrative, and EXES data review package.

Qualifiers were added for calibration (C11) anomalies, but no sample receipt issues were noted.

Data qualifiers also were added for lab (B1, B5) and field (K1) blank detects, and minor poor surrogate recoveries (S).

No data were rejected, and all matrix QC outliers were resolved.

25-Jun-2014

Released by Santiago Lee, ICF, Validator

02-Dec-2014

Released by Tom Beer, Gilbane

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

Batch Report

Test Method: CSVOL12; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
D13107	D13109	NA	FIELDQC	WQ	SAIA-EL03-0314	S-6381.02	D13101	1/1	25-Mar-2014 9:20 AM	28-Mar-2014 1:25 PM	04-Apr-2014 5:04 PM	EB
	D13109	NA	LABQC	WQ	LABQC	SBLK57	D13101	1/1	28-Mar-2014 1:25 PM	28-Mar-2014 1:25 PM	04-Apr-2014 12:03 PM	LB
	D13109	NA	MW34	WG	MW34-0314	S-6386.01	D13101	1/1	26-Mar-2014 9:06 AM	28-Mar-2014 1:25 PM	04-Apr-2014 5:30 PM	N
	D13109	NA	MW34	WG	MW934-0314	S-6386.02	D13101	1/1	26-Mar-2014 9:11 AM	28-Mar-2014 1:25 PM	04-Apr-2014 5:57 PM	FD
	D13109	NA	MW35	WG	MW35-0314	S-6386.03	D13101	1/1	26-Mar-2014 10:15 AM	28-Mar-2014 1:25 PM	04-Apr-2014 6:23 PM	N
	D13109	NA	MW42	WG	MW42-0314	S-6386.04MS	D13101	1/1	26-Mar-2014 11:55 AM	28-Mar-2014 1:25 PM	04-Apr-2014 1:22 PM	MS
	D13109	NA	MW42	WG	MW42-0314	S-6386.04	D13101	1/1	26-Mar-2014 11:55 AM	28-Mar-2014 1:25 PM	04-Apr-2014 6:50 PM	N
	D13109	NA	MW42	WG	MW42-0314	S-6386.04MSD	D13101	1/1	26-Mar-2014 11:55 AM	28-Mar-2014 1:25 PM	04-Apr-2014 1:59 PM	SD
	D13109	NA	MW43	WG	MW43-0314	S-6386.05	D13101	1/1	26-Mar-2014 9:29 AM	28-Mar-2014 1:25 PM	04-Apr-2014 7:16 PM	N
	D13109	NA	MW44	WG	MW44-0314	S-6386.06	D13101	1/1	26-Mar-2014 10:17 AM	28-Mar-2014 1:25 PM	04-Apr-2014 7:43 PM	N
	D13109	NA	SAIA-MW5C	WG	SAIA-MW5C-0314	S-6381.01	D13101	1/1	25-Mar-2014 8:51 AM	28-Mar-2014 1:25 PM	04-Apr-2014 4:38 PM	N
D13150	D13109	NA	FIELDQC	WQ	SAIA-EL02-0314	S-6386.09	D13101	1/1	26-Mar-2014 10:50 AM	28-Mar-2014 1:25 PM	05-Apr-2014 7:54 AM	EB
	D13109	NA	MW49	WG	MW49-0314	S-6386.07	D13101	1/1	26-Mar-2014 7:57 AM	28-Mar-2014 1:25 PM	05-Apr-2014 7:01 AM	N
	D13109	NA	MW56	WG	MW56-0314	S-6386.08	D13101	1/1	26-Mar-2014 8:03 AM	28-Mar-2014 1:25 PM	05-Apr-2014 7:27 AM	N

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B50139	B50143	NA	LABQC	WQ	LABQC	VBLK36	B50124	1/1	05-Apr-2014 10:04 AM	05-Apr-2014 10:04 AM	05-Apr-2014 10:04 AM	LB
	B50143	NA	MW34	WG	MW34-0314	S-6386.01	B50124	1/5	26-Mar-2014 9:06 AM	05-Apr-2014 5:48 PM	05-Apr-2014 5:48 PM	N
	B50143	NA	MW43	WG	MW43-0314	S-6386.05	B50124	1/1	26-Mar-2014 9:29 AM	05-Apr-2014 3:57 PM	05-Apr-2014 3:57 PM	N
	B50143	NA	MW44	WG	MW44-0314	S-6386.06	B50124	1/1	26-Mar-2014 10:17 AM	05-Apr-2014 6:52 PM	05-Apr-2014 6:52 PM	N
G28414	G28417	NA	FIELDQC	WQ	SAIA-EL03-0314	S-6381.02	G28413	1/1	25-Mar-2014 9:20 AM	01-Apr-2014 5:57 PM	01-Apr-2014 5:57 PM	EB

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
G28414	G28417	NA	FIELDQC	WQ	SAIA-RL03-0314	S-6381.03	G28413	1/1	25-Mar-2014 11:00 AM	01-Apr-2014 5:29 PM	01-Apr-2014 5:29 PM	TB
	G28417	NA	LABQC	WQ	LABQC	VBLK8V	G28413	1/1	01-Apr-2014 3:27 PM	01-Apr-2014 3:27 PM	01-Apr-2014 3:27 PM	LB
G28434	G28440	NA	LABQC	WQ	LABQC	VBLK9A	G28439	1/1	04-Apr-2014 12:46 PM	04-Apr-2014 12:46 PM	04-Apr-2014 12:46 PM	LB
	G28440	NA	SAIA-MW5C	WG	SAIA-MW5C-0314	S-6381.01	G28439	1/8	25-Mar-2014 8:51 AM	04-Apr-2014 4:00 PM	04-Apr-2014 4:00 PM	N
	G28440	NA	SAIA-MW5C	WG	SAIA-MW5C-0314	S-6381.01DL	G28439	1/50	25-Mar-2014 8:51 AM	04-Apr-2014 7:25 PM	04-Apr-2014 7:25 PM	N
G28455	G28458	NA	FIELDQC	WQ	SAIA-EL02-0314	S-6386.09	G28439	1/1	26-Mar-2014 10:50 AM	05-Apr-2014 6:51 PM	05-Apr-2014 6:51 PM	EB
	G28458	NA	LABQC	WQ	LABQC	VBLK9C	G28439	1/1	05-Apr-2014 9:57 AM	05-Apr-2014 9:57 AM	05-Apr-2014 9:57 AM	LB
	G28458	NA	MW34	WG	MW934-0314	S-6386.02	G28439	1/4	26-Mar-2014 9:11 AM	05-Apr-2014 7:20 PM	05-Apr-2014 7:20 PM	FD
	G28458	NA	MW35	WG	MW35-0314	S-6386.03	G28439	1/1	26-Mar-2014 10:15 AM	05-Apr-2014 3:49 PM	05-Apr-2014 3:49 PM	N
	G28458	NA	MW49	WG	MW49-0314	S-6386.07	G28439	1/1	26-Mar-2014 7:57 AM	05-Apr-2014 4:47 PM	05-Apr-2014 4:47 PM	N
G28478	G28481	NA	FIELDQC	WQ	SAIA-RL01-0314	S-6386.10	G28439	1/1	26-Mar-2014 10:55 AM	06-Apr-2014 4:23 AM	06-Apr-2014 4:23 AM	TB
	G28481	NA	FIELDQC	WQ	SAIA-RL02-0314	S-6386.11	G28439	1/1	26-Mar-2014 7:57 AM	06-Apr-2014 1:58 AM	06-Apr-2014 1:58 AM	TB
	G28481	NA	LABQC	WQ	LABQC	VBLK9E	G28439	1/1	05-Apr-2014 11:35 PM	05-Apr-2014 11:35 PM	05-Apr-2014 11:35 PM	LB
	G28481	NA	MW34	WG	MW34-0314	S-6386.01DL	G28439	1/40	26-Mar-2014 9:06 AM	06-Apr-2014 4:51 AM	06-Apr-2014 4:51 AM	N
	G28481	NA	MW34	WG	MW934-0314	S-6386.02DL	G28439	1/50	26-Mar-2014 9:11 AM	06-Apr-2014 5:19 AM	06-Apr-2014 5:19 AM	FD
	G28481	NA	MW35	WG	MW35-0314	S-6386.03DL	G28439	1/8	26-Mar-2014 10:15 AM	06-Apr-2014 5:47 AM	06-Apr-2014 5:47 AM	N
	G28481	NA	MW42	WG	MW42-0314	S-6386.04MS	G28439	1/20	26-Mar-2014 11:55 AM	06-Apr-2014 1:01 AM	06-Apr-2014 1:01 AM	MS
	G28481	NA	MW42	WG	MW42-0314	S-6386.04	G28439	1/20	26-Mar-2014 11:55 AM	06-Apr-2014 12:04 AM	06-Apr-2014 12:04 AM	N
	G28481	NA	MW42	WG	MW42-0314	S-6386.04MSD	G28439	1/20	26-Mar-2014 11:55 AM	06-Apr-2014 3:27 AM	06-Apr-2014 3:27 AM	SD
	G28481	NA	MW43	WG	MW43-0314	S-6386.05DL	G28439	1/4	26-Mar-2014 9:29 AM	06-Apr-2014 6:44 AM	06-Apr-2014 6:44 AM	N
	G28481	NA	MW44	WG	MW44-0314	S-6386.06DL	G28439	1/4	26-Mar-2014 10:17 AM	06-Apr-2014 7:12 AM	06-Apr-2014 7:12 AM	N
	G28481	NA	MW49	WG	MW49-0314	S-6386.07DL	G28439	1/8	26-Mar-2014 7:57 AM	06-Apr-2014 7:40 AM	06-Apr-2014 7:40 AM	N

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
G28478	G28481	NA	MW56	WG	MW56-0314	S-6386.08	G28439	1/4	26-Mar-2014 8:03 AM	06-Apr-2014 8:36 AM	06-Apr-2014 8:36 AM	N
	G28481	NA	MW56	WG	MW56-0314	S-6386.08DL	G28439	1/40	26-Mar-2014 8:03 AM	06-Apr-2014 8:08 AM	06-Apr-2014 8:08 AM	N
G28501	G28504	NA	LABQC	WQ	LABQC	VBLK9G	G28439	1/1	06-Apr-2014 11:31 AM	06-Apr-2014 11:31 AM	06-Apr-2014 11:31 AM	LB
	G28504	NA	MW42	WG	MW42-0314	S-6386.04DL	G28439	1/400	26-Mar-2014 11:55 AM	06-Apr-2014 1:24 PM	06-Apr-2014 1:24 PM	N
G28547	G28549	NA	LABQC	WQ	LABQC	VBLK9L	G28439	1/1	08-Apr-2014 10:37 AM	08-Apr-2014 10:37 AM	08-Apr-2014 10:37 AM	LB
	G28549	NA	LABQC	WQ	LABQC	S-6381.04	G28439	1/1	08-Apr-2014 6:45 PM	08-Apr-2014 6:45 PM	08-Apr-2014 6:45 PM	LB

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

Batch Report

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
P49896-1	P49898	NA	FIELDQC	WQ	SAIA-EL02-0314	S-6386.09	P49866-1	1/1	26-Mar-2014 10:50 AM	28-Mar-2014 1:10 PM	08-Apr-2014 8:00 AM	EB
	P49898	NA	LABQC	WQ	LABQC	ALCS70	P49866-1	1/1	28-Mar-2014 1:10 PM	28-Mar-2014 1:10 PM	08-Apr-2014 4:59 AM	BS
	P49898	NA	LABQC	WQ	LABQC	ABLK70	P49866-1	1/1	28-Mar-2014 1:10 PM	28-Mar-2014 1:10 PM	08-Apr-2014 4:28 AM	LB
	P49898	NA	MW34	WG	MW34-0314	S-6386.01	P49866-1	1/1	26-Mar-2014 9:06 AM	28-Mar-2014 1:10 PM	08-Apr-2014 5:29 AM	N
	P49898	NA	MW34	WG	MW934-0314	S-6386.02	P49866-1	1/1	26-Mar-2014 9:11 AM	28-Mar-2014 1:10 PM	08-Apr-2014 5:59 AM	FD
	P49898	NA	MW42	WG	MW42-0314	S-6386.04	P49866-1	1/1	26-Mar-2014 11:55 AM	28-Mar-2014 1:10 PM	08-Apr-2014 8:31 AM	MS
	P49898	NA	MW42	WG	MW42-0314	S-6386.04	P49866-1	1/1	26-Mar-2014 11:55 AM	28-Mar-2014 1:10 PM	08-Apr-2014 6:29 AM	N
	P49898	NA	MW42	WG	MW42-0314	S-6386.04	P49866-1	1/1	26-Mar-2014 11:55 AM	28-Mar-2014 1:10 PM	08-Apr-2014 9:01 AM	SD
	P49898	NA	MW43	WG	MW43-0314	S-6386.05	P49866-1	1/1	26-Mar-2014 9:29 AM	28-Mar-2014 1:10 PM	08-Apr-2014 7:00 AM	N
	P49898	NA	MW44	WG	MW44-0314	S-6386.06	P49866-1	1/1	26-Mar-2014 10:17 AM	28-Mar-2014 1:10 PM	08-Apr-2014 7:30 AM	N
P49896-2	P49898	NA	FIELDQC	WQ	SAIA-EL02-0314	S-6386.09	P49866-2	1/1	26-Mar-2014 10:50 AM	28-Mar-2014 1:10 PM	08-Apr-2014 8:31 AM	EB
	P49898	NA	LABQC	WQ	LABQC	ALCS70	P49866-2	1/1	28-Mar-2014 1:10 PM	28-Mar-2014 1:10 PM	08-Apr-2014 5:29 AM	BS
	P49898	NA	LABQC	WQ	LABQC	ABLK70	P49866-2	1/1	28-Mar-2014 1:10 PM	28-Mar-2014 1:10 PM	08-Apr-2014 4:59 AM	LB
	P49898	NA	MW34	WG	MW34-0314	S-6386.01	P49866-2	1/1	26-Mar-2014 9:06 AM	28-Mar-2014 1:10 PM	08-Apr-2014 5:59 AM	N
	P49898	NA	MW34	WG	MW934-0314	S-6386.02	P49866-2	1/1	26-Mar-2014 9:11 AM	28-Mar-2014 1:10 PM	08-Apr-2014 6:29 AM	FD
	P49898	NA	MW42	WG	MW42-0314	S-6386.04	P49866-2	1/1	26-Mar-2014 11:55 AM	28-Mar-2014 1:10 PM	08-Apr-2014 9:01 AM	MS
	P49898	NA	MW42	WG	MW42-0314	S-6386.04	P49866-2	1/1	26-Mar-2014 11:55 AM	28-Mar-2014 1:10 PM	08-Apr-2014 7:00 AM	N
	P49898	NA	MW42	WG	MW42-0314	S-6386.04	P49866-2	1/1	26-Mar-2014 11:55 AM	28-Mar-2014 1:10 PM	08-Apr-2014 9:31 AM	SD
	P49898	NA	MW43	WG	MW43-0314	S-6386.05	P49866-2	1/1	26-Mar-2014 9:29 AM	28-Mar-2014 1:10 PM	08-Apr-2014 7:30 AM	N
	P49898	NA	MW44	WG	MW44-0314	S-6386.06	P49866-2	1/1	26-Mar-2014 10:17 AM	28-Mar-2014 1:10 PM	08-Apr-2014 8:00 AM	N

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

Batch Report

Test Method: WSM0011; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
F53978	F53981	NA	LABQC	WQ	LABQC	SBLK57	F53673	1/1	28-Mar-2014 1:25 PM	28-Mar-2014 1:25 PM	08-Apr-2014 10:33 AM	LB
F54032	F53981	NA	FIELDQC	WQ	SAIA-EL02-0314	S-6386.09	F54032	1/1	26-Mar-2014 10:50 AM	28-Mar-2014 1:25 PM	11-Apr-2014 6:50 PM	EB
	F53981	NA	FIELDQC	WQ	SAIA-EL03-0314	S-6381.02	F54032	1/1	25-Mar-2014 9:20 AM	28-Mar-2014 1:25 PM	11-Apr-2014 4:09 PM	EB
	F53981	NA	MW34	WG	MW34-0314	S-6386.01	F54032	1/1	26-Mar-2014 9:06 AM	28-Mar-2014 1:25 PM	11-Apr-2014 4:21 PM	N
	F53981	NA	MW34	WG	MW934-0314	S-6386.02	F54032	1/1	26-Mar-2014 9:11 AM	28-Mar-2014 1:25 PM	11-Apr-2014 5:15 PM	FD
	F53981	NA	MW43	WG	MW43-0314	S-6386.05	F54032	1/1	26-Mar-2014 9:29 AM	28-Mar-2014 1:25 PM	11-Apr-2014 5:56 PM	N
	F53981	NA	MW44	WG	MW44-0314	S-6386.06	F54032	1/1	26-Mar-2014 10:17 AM	28-Mar-2014 1:25 PM	11-Apr-2014 6:09 PM	N
	F53981	NA	MW49	WG	MW49-0314	S-6386.07	F54032	1/1	26-Mar-2014 7:57 AM	28-Mar-2014 1:25 PM	11-Apr-2014 6:23 PM	N
	F53981	NA	MW56	WG	MW56-0314	S-6386.08	F54032	1/1	26-Mar-2014 8:03 AM	28-Mar-2014 1:25 PM	11-Apr-2014 6:37 PM	N
	F53981	NA	SAIA-MW5C	WG	SAIA-MW5C-0314	S-6381.01	F54032	1/1	25-Mar-2014 8:51 AM	28-Mar-2014 1:25 PM	11-Apr-2014 3:55 PM	N
F54078	F53981	NA	MW35	WG	MW35-0314	S-6386.03	F54032	1/1	26-Mar-2014 10:15 AM	28-Mar-2014 1:25 PM	15-Apr-2014 12:14 PM	N
	F53981	NA	MW42	WG	MW42-0314	S-6386.04DL	F54032	1/10	26-Mar-2014 11:55 AM	28-Mar-2014 1:25 PM	15-Apr-2014 12:40 PM	N

Field Batch Report

Test Method: CSVOL12		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
26031401			FIELDQC	WQ	SAIA-EL02-0314	S-6386.09	3/26/2014 10:50:00 AM	EB
26031401			MW34	WG	MW34-0314	S-6386.01	3/26/2014 9:06:00 AM	N
26031401			MW34	WG	MW934-0314	S-6386.02	3/26/2014 9:11:00 AM	FD
26031401			MW35	WG	MW35-0314	S-6386.03	3/26/2014 10:15:00 AM	N
26031401			MW42	WG	MW42-0314	S-6386.04	3/26/2014 11:55:00 AM	N
26031401			MW42	WG	MW42-0314	S-6386.04MS	3/26/2014 11:55:00 AM	MS
26031401			MW42	WG	MW42-0314	S-6386.04MSD	3/26/2014 11:55:00 AM	SD
26031401			MW43	WG	MW43-0314	S-6386.05	3/26/2014 9:29:00 AM	N
26031401			MW44	WG	MW44-0314	S-6386.06	3/26/2014 10:17:00 AM	N
26031401			MW49	WG	MW49-0314	S-6386.07	3/26/2014 7:57:00 AM	N
26031401			MW56	WG	MW56-0314	S-6386.08	3/26/2014 8:03:00 AM	N

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
26031401			FIELDQC	WQ	SAIA-EL02-0314	S-6386.09	3/26/2014 10:50:00 AM	EB
26031401			MW34	WG	MW34-0314	S-6386.01	3/26/2014 9:06:00 AM	N
26031401			MW34	WG	MW34-0314	S-6386.01DL	3/26/2014 9:06:00 AM	N
26031401			MW34	WG	MW934-0314	S-6386.02	3/26/2014 9:11:00 AM	FD
26031401			MW34	WG	MW934-0314	S-6386.02DL	3/26/2014 9:11:00 AM	FD
26031401			MW35	WG	MW35-0314	S-6386.03	3/26/2014 10:15:00 AM	N
26031401			MW35	WG	MW35-0314	S-6386.03DL	3/26/2014 10:15:00 AM	N
26031401			MW42	WG	MW42-0314	S-6386.04	3/26/2014 11:55:00 AM	N
26031401			MW42	WG	MW42-0314	S-6386.04DL	3/26/2014 11:55:00 AM	N
26031401			MW42	WG	MW42-0314	S-6386.04MS	3/26/2014 11:55:00 AM	MS
26031401			MW42	WG	MW42-0314	S-6386.04MSD	3/26/2014 11:55:00 AM	SD
26031401			MW43	WG	MW43-0314	S-6386.05	3/26/2014 9:29:00 AM	N

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
26031401			MW43	WG	MW43-0314	S-6386.05DL	3/26/2014 9:29:00 AM	N
26031401			MW44	WG	MW44-0314	S-6386.06	3/26/2014 10:17:00 AM	N
26031401			MW44	WG	MW44-0314	S-6386.06DL	3/26/2014 10:17:00 AM	N
26031401			MW49	WG	MW49-0314	S-6386.07	3/26/2014 7:57:00 AM	N
26031401			MW49	WG	MW49-0314	S-6386.07DL	3/26/2014 7:57:00 AM	N
26031401			MW56	WG	MW56-0314	S-6386.08	3/26/2014 8:03:00 AM	N
26031401			MW56	WG	MW56-0314	S-6386.08DL	3/26/2014 8:03:00 AM	N
Test Method: SW8082		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
26031401			FIELDQC	WQ	SAIA-EL02-0314	S-6386.09	3/26/2014 10:50:00 AM	EB
26031401			MW34	WG	MW34-0314	S-6386.01	3/26/2014 9:06:00 AM	N
26031401			MW34	WG	MW934-0314	S-6386.02	3/26/2014 9:11:00 AM	FD
26031401			MW42	WG	MW42-0314	S-6386.04	3/26/2014 11:55:00 AM	MS
26031401			MW42	WG	MW42-0314	S-6386.04	3/26/2014 11:55:00 AM	N
26031401			MW42	WG	MW42-0314	S-6386.04	3/26/2014 11:55:00 AM	SD
26031401			MW43	WG	MW43-0314	S-6386.05	3/26/2014 9:29:00 AM	N
26031401			MW44	WG	MW44-0314	S-6386.06	3/26/2014 10:17:00 AM	N
Test Method: WSM0011		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
26031401			FIELDQC	WQ	SAIA-EL02-0314	S-6386.09	3/26/2014 10:50:00 AM	EB
26031401			MW34	WG	MW34-0314	S-6386.01	3/26/2014 9:06:00 AM	N
26031401			MW34	WG	MW934-0314	S-6386.02	3/26/2014 9:11:00 AM	FD
26031401			MW35	WG	MW35-0314	S-6386.03	3/26/2014 10:15:00 AM	N
26031401			MW42	WG	MW42-0314	S-6386.04DL	3/26/2014 11:55:00 AM	N

Field Batch Report

Test Method: WSM0011		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
26031401			MW43	WG	MW43-0314	S-6386.05	3/26/2014 9:29:00 AM	N
26031401			MW44	WG	MW44-0314	S-6386.06	3/26/2014 10:17:00 AM	N
26031401			MW49	WG	MW49-0314	S-6386.07	3/26/2014 7:57:00 AM	N
26031401			MW56	WG	MW56-0314	S-6386.08	3/26/2014 8:03:00 AM	N
Test Method: CSVOL12		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
25031401			FIELDQC	WQ	SAIA-EL03-0314	S-6381.02	3/25/2014 9:20:00 AM	EB
25031401			SAIA-MW5C	WG	SAIA-MW5C-0314	S-6381.01	3/25/2014 8:51:00 AM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
25031401			FIELDQC	WQ	SAIA-EL03-0314	S-6381.02	3/25/2014 9:20:00 AM	EB
25031401			SAIA-MW5C	WG	SAIA-MW5C-0314	S-6381.01	3/25/2014 8:51:00 AM	N
25031401			SAIA-MW5C	WG	SAIA-MW5C-0314	S-6381.01DL	3/25/2014 8:51:00 AM	N
Test Method: WSM0011		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
25031401			FIELDQC	WQ	SAIA-EL03-0314	S-6381.02	3/25/2014 9:20:00 AM	EB
25031401			SAIA-MW5C	WG	SAIA-MW5C-0314	S-6381.01	3/25/2014 8:51:00 AM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	26031402		FIELDQC	WQ	SAIA-RL01-0314	S-6386.10	3/26/2014 10:55:00 AM	TB
	26031402		MW42	WG	MW42-0314	S-6386.04	3/26/2014 11:55:00 AM	N
	26031402		MW42	WG	MW42-0314	S-6386.04DL	3/26/2014 11:55:00 AM	N

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	26031402		MW42	WG	MW42-0314	S-6386.04MS	3/26/2014 11:55:00 AM	MS
	26031402		MW42	WG	MW42-0314	S-6386.04MSD	3/26/2014 11:55:00 AM	SD

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	26031401		FIELDQC	WQ	SAIA-RL02-0314	S-6386.11	3/26/2014 7:57:00 AM	TB
	26031401		MW34	WG	MW34-0314	S-6386.01	3/26/2014 9:06:00 AM	N
	26031401		MW34	WG	MW34-0314	S-6386.01DL	3/26/2014 9:06:00 AM	N
	26031401		MW34	WG	MW934-0314	S-6386.02	3/26/2014 9:11:00 AM	FD
	26031401		MW34	WG	MW934-0314	S-6386.02DL	3/26/2014 9:11:00 AM	FD
	26031401		MW35	WG	MW35-0314	S-6386.03	3/26/2014 10:15:00 AM	N
	26031401		MW35	WG	MW35-0314	S-6386.03DL	3/26/2014 10:15:00 AM	N
	26031401		MW43	WG	MW43-0314	S-6386.05	3/26/2014 9:29:00 AM	N
	26031401		MW43	WG	MW43-0314	S-6386.05DL	3/26/2014 9:29:00 AM	N
	26031401		MW44	WG	MW44-0314	S-6386.06	3/26/2014 10:17:00 AM	N
	26031401		MW44	WG	MW44-0314	S-6386.06DL	3/26/2014 10:17:00 AM	N
	26031401		MW49	WG	MW49-0314	S-6386.07	3/26/2014 7:57:00 AM	N
	26031401		MW49	WG	MW49-0314	S-6386.07DL	3/26/2014 7:57:00 AM	N
	26031401		MW56	WG	MW56-0314	S-6386.08	3/26/2014 8:03:00 AM	N
	26031401		MW56	WG	MW56-0314	S-6386.08DL	3/26/2014 8:03:00 AM	N

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	25031402		FIELDQC	WQ	SAIA-RL03-0314	S-6381.03	3/25/2014 11:00:00 AM	TB
	25031402		SAIA-MW5C	WG	SAIA-MW5C-0314	S-6381.01	3/25/2014 8:51:00 AM	N
	25031402		SAIA-MW5C	WG	SAIA-MW5C-0314	S-6381.01DL	3/25/2014 8:51:00 AM	N

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CSVOL12 / SW3520	Equipment Blank	SAIA-EL02-0314 (EB)	1 / 1.00	Diethyl Phthalate	10.0	UG/L	U/None	< 3.3	< 5	K1			
CSVOL12 / SW3520	MS Recovery	MW42-0314 (MS)	1 / 1.00	4-Chloro-3-Methylphenol	100	Percent	J/None	23 - 97	10 - 120	M			
CSVOL12 / SW3520	MS Recovery	MW42-0314 (SD)	1 / 1.00	4-Chloro-3-Methylphenol	97.5	Percent	J/None	23 - 97	10 - 120	M			
CSVOL12 / SW3520	MS Recovery	MW42-0314 (MS)	1 / 1.00	4-Nitrophenol	105	Percent	J/None	10 - 80	5 - 120	M			
CSVOL12 / SW3520	MS Recovery	MW42-0314 (SD)	1 / 1.00	4-Nitrophenol	113	Percent	J/None	10 - 80	5 - 120	M			
CSVOL12 / SW3520	MS Recovery	MW42-0314 (SD)	1 / 1.00	Pentachlorophenol	105	Percent	J/None	9 - 103	5 - 120	M			
CVOL / METHOD	Blank	S-6381.04 (LB)	1 / 1.00	Methylene Chloride	0.310	UG/L	U/None	< 0.2	< 0.5	B1			
CVOL / METHOD	Blank	S-6381.04 (LB)	1 / 1.00	Toluene	0.150	UG/L	U/None	< 0	< 0.5	B1			
CVOL / METHOD	Blank	VBLK36 (LB)	1 / 1.00	Methylene Chloride	0.0860	UG/L	U/None	< 0	< 0.5	B1			
CVOL / METHOD	Blank	VBLK8V (LB)	1 / 1.00	Methylene Chloride	0.440	UG/L	U/None	< 0.2	< 0.5	B1			
CVOL / METHOD	Blank	VBLK8V (LB)	1 / 1.00	Toluene	0.160	UG/L	U/None	< 0	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9A (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.110	UG/L	U/None	< 0	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9A (LB)	1 / 1.00	Methylene Chloride	0.0530	UG/L	U/None	< 0	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9C (LB)	1 / 1.00	Methylene Chloride	0.110	UG/L	U/None	< 0	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9E (LB)	1 / 1.00	Methylene Chloride	0.230	UG/L	U/None	< 0.2	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9E (LB)	1 / 1.00	Toluene	0.120	UG/L	U/None	< 0	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9G (LB)	1 / 1.00	Methylene Chloride	0.390	UG/L	U/None	< 0.2	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9L (LB)	1 / 1.00	1,2,3-Trichlorobenzene	0.240	UG/L	U/None	< 0	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9L (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.170	UG/L	U/None	< 0	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9L (LB)	1 / 1.00	Methylene Chloride	0.420	UG/L	U/None	< 0.2	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9L (LB)	1 / 1.00	Toluene	0.0970	UG/L	U/None	< 0	< 0.5	B1			
CVOL / METHOD	Equipment Blank	SAIA-EL03-0314 (EB)	1 / 1.00	cis-1,2-Dichloroethylene	0.130	UG/L	U/None	< 0	< 0.5	K1			

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CVOL / METHOD	Trip Blank	SAIA-RL03-0314 (TB)	1 / 1.00	m,p-Xylene	0.0540	UG/L	U/None	< 0	< 0.5	K3			
WSM0011 / SW3520	Surrogate	MW42-0314 (N)	1 / 10.00	1,4-Dioxane-d8	120	Percent	J/None	10 - 115	10 - 115	S	Diluted Out	2.00	

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	WG	MW43-0314	N	bis(2-Ethylhexyl) Phthalate	5.0	3.4 J	3.4 J	UG/L	TR
CSVOL12/NONE	WG	MW43-0314	N	Diethyl Phthalate	5.0	2.4 J	5.0 U	UG/L	K1
CSVOL12/NONE	WG	MW49-0314	N	4-Methylphenol (p-Cresol)	5.0	5.0 U	5.0 UJ	UG/L	C11
CSVOL12/NONE	WG	MW56-0314	N	4-Methylphenol (p-Cresol)	5.0	5.0 U	5.0 UJ	UG/L	C11
CSVOL12/NONE	WQ	SAIA-EL02-0314	EB	4-Methylphenol (p-Cresol)	5.0	5.0 U	5.0 UJ	UG/L	C11

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	MW34-0314	N	1,1-Dichloroethane	2.5	1.6 J	1.6 J	UG/L	TR
CVOL/NONE	WG	MW34-0314	N	1,2,3-Trichlorobenzene	2.5	2.5 U	2.5 UJ	UG/L	C11
CVOL/NONE	WG	MW34-0314	N	Bromoform	2.5	2.5 U	2.5 UJ	UG/L	C11
CVOL/NONE	WG	MW34-0314	N	Bromomethane	2.5	2.5 U	2.5 UJ	UG/L	C11
CVOL/NONE	WG	MW34-0314	N	Methylene Chloride	2.5	2.5 JB	2.5 U	UG/L	B1
CVOL/NONE	WG	MW34-0314	N	tert-Butyl Methyl Ether (MTBE)	2.5	1.8 J	1.8 J	UG/L	TR
CVOL/NONE	WG	MW34-0314	N	Toluene	2.5	2.5 J	2.5 U	UG/L	B1/B5
CVOL/NONE	WG	MW35-0314	N	1,1-Dichloroethane	0.50	0.33 J	0.33 J	UG/L	TR
CVOL/NONE	WG	MW35-0314	N	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	MW35-0314	N	Bromoform	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	MW35-0314	N	Bromomethane	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	MW35-0314	N	Methylene Chloride	0.50	0.50 U	0.50 U	UG/L	B1
CVOL/NONE	WG	MW35-0314	N	Toluene	0.50	0.50 U	0.50 U	UG/L	B1/B5
CVOL/NONE	WG	MW42-0314	N	1,2,3-Trichlorobenzene	10.0	10.0 U	10.0 UJ	UG/L	C11
CVOL/NONE	WG	MW42-0314	N	Bromoform	10.0	10.0 U	10.0 UJ	UG/L	C11
CVOL/NONE	WG	MW42-0314	N	Bromomethane	10.0	10.0 U	10.0 UJ	UG/L	C11
CVOL/NONE	WG	MW42-0314	N	Methylene Chloride	10.0	10.0 JB	10.0 U	UG/L	B1
CVOL/NONE	WG	MW42-0314	N	Toluene	10.0	10.0 U	10.0 U	UG/L	B5
CVOL/NONE	WG	MW42-0314	N	Trichloroethene (TCE)	200	390 D	390 J	UG/L	M/D2
CVOL/NONE	WG	MW43-0314	N	1,1-Dichloroethane	0.50	0.22 J	0.22 J	UG/L	TR
CVOL/NONE	WG	MW43-0314	N	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	C11

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	MW43-0314	N	Bromoform	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	MW43-0314	N	Bromomethane	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	MW43-0314	N	Methylene Chloride	0.50	0.50 U	0.50 U	UG/L	B1
CVOL/NONE	WG	MW43-0314	N	Toluene	0.50	0.50 U	0.50 U	UG/L	B1/B5
CVOL/NONE	WG	MW44-0314	N	1,1-Dichloroethane	0.50	0.20 J	0.20 J	UG/L	TR
CVOL/NONE	WG	MW44-0314	N	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	MW44-0314	N	Bromoform	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	MW44-0314	N	Bromomethane	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	MW44-0314	N	Cyclohexane	0.50	0.42 J	0.42 J	UG/L	TR
CVOL/NONE	WG	MW44-0314	N	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	MW44-0314	N	Toluene	0.50	0.50 U	0.50 U	UG/L	B1/B5
CVOL/NONE	WG	MW49-0314	N	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	MW49-0314	N	Bromoform	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	MW49-0314	N	Bromomethane	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	MW49-0314	N	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	MW49-0314	N	Toluene	0.50	0.50 U	0.50 U	UG/L	B1/B5
CVOL/NONE	WG	MW56-0314	N	1,1-Dichloroethane	2.0	2.0 U	2.0 UJ	UG/L	S
CVOL/NONE	WG	MW56-0314	N	1,2,3-Trichlorobenzene	2.0	2.0 U	2.0 UJ	UG/L	C11
CVOL/NONE	WG	MW56-0314	N	Bromochloromethane	2.0	2.0 U	2.0 UJ	UG/L	S
CVOL/NONE	WG	MW56-0314	N	Bromoform	2.0	2.0 U	2.0 UJ	UG/L	S/C11
CVOL/NONE	WG	MW56-0314	N	Bromomethane	2.0	2.0 U	2.0 UJ	UG/L	C11
CVOL/NONE	WG	MW56-0314	N	Chloroform	2.0	2.0 U	2.0 UJ	UG/L	S
CVOL/NONE	WG	MW56-0314	N	Dibromochloromethane	2.0	2.0 U	2.0 UJ	UG/L	S
CVOL/NONE	WG	MW56-0314	N	Methylene Chloride	2.0	2.0 JB	2.0 U	UG/L	B1
CVOL/NONE	WG	MW56-0314	N	Toluene	2.0	2.0 U	2.0 U	UG/L	B1/B5
CVOL/NONE	WG	MW934-0314	FD	1,1-Dichloroethane	2.0	1.3 J	1.3 J	UG/L	TR
CVOL/NONE	WG	MW934-0314	FD	1,2,3-Trichlorobenzene	2.0	2.0 U	2.0 UJ	UG/L	C11

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	MW934-0314	FD	Bromoform	2.0	2.0 U	2.0 UJ	UG/L	C11
CVOL/NONE	WG	MW934-0314	FD	Bromomethane	2.0	2.0 U	2.0 UJ	UG/L	C11
CVOL/NONE	WG	MW934-0314	FD	Methylene Chloride	2.0	2.0 JB	2.0 U	UG/L	B1
CVOL/NONE	WG	MW934-0314	FD	tert-Butyl Methyl Ether (MTBE)	2.0	1.5 J	1.5 J	UG/L	TR
CVOL/NONE	WQ	SAIA-EL02-0314	EB	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WQ	SAIA-EL03-0314	EB	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WQ	SAIA-EL03-0314	EB	Bromoform	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WQ	SAIA-EL03-0314	EB	Bromomethane	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WQ	SAIA-EL03-0314	EB	cis-1,2-Dichloroethylene	0.50	0.13 J	0.13 J	UG/L	TR
CVOL/NONE	WQ	SAIA-EL03-0314	EB	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW5C-0314	N	1,2-Dichloroethane	4.0	2.0 J	2.0 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW5C-0314	N	Methylene Chloride	4.0	4.0 JB	4.0 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW5C-0314	N	Toluene	4.0	4.0 J	4.0 U	UG/L	B5
CVOL/NONE	WQ	SAIA-RL01-0314	TB	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WQ	SAIA-RL01-0314	TB	Bromoform	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WQ	SAIA-RL01-0314	TB	Bromomethane	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WQ	SAIA-RL01-0314	TB	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WQ	SAIA-RL02-0314	TB	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WQ	SAIA-RL02-0314	TB	Bromoform	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WQ	SAIA-RL02-0314	TB	Bromomethane	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WQ	SAIA-RL02-0314	TB	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WQ	SAIA-RL03-0314	TB	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WQ	SAIA-RL03-0314	TB	Bromoform	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WQ	SAIA-RL03-0314	TB	Bromomethane	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WQ	SAIA-RL03-0314	TB	m,p-Xylene	0.50	0.054 J	0.054 J	UG/L	TR
CVOL/NONE	WQ	SAIA-RL03-0314	TB	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	WG	MW43-0314	N	bis(2-Ethylhexyl) Phthalate	5.0	3.4 J	3.4 J	UG/L	TR
CSVOL12/NONE	WQ	SAIA-EL02-0314	EB	Diethyl Phthalate	5.0	10.0	10.0	UG/L	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	MW34-0314	N	1,1-Dichloroethane	2.5	1.6 J	1.6 J	UG/L	TR
CVOL/NONE	WG	MW34-0314	N	cis-1,2-Dichloroethylene	20.0	470 D	470	UG/L	
CVOL/NONE	WG	MW34-0314	N	trans-1,2-Dichloroethene	2.5	25.0	25.0	UG/L	
CVOL/NONE	WG	MW34-0314	N	tert-Butyl Methyl Ether (MTBE)	2.5	1.8 J	1.8 J	UG/L	TR
CVOL/NONE	WG	MW34-0314	N	Trichloroethene (TCE)	2.5	45.0	45.0	UG/L	
CVOL/NONE	WG	MW35-0314	N	Cyclohexane	0.50	0.69	0.69	UG/L	
CVOL/NONE	WG	MW35-0314	N	1,1-Dichloroethane	0.50	0.33 J	0.33 J	UG/L	TR
CVOL/NONE	WG	MW35-0314	N	1,2-Dichloroethane	0.50	5.8	5.8	UG/L	
CVOL/NONE	WG	MW35-0314	N	cis-1,2-Dichloroethylene	4.0	58.0 D	58.0	UG/L	
CVOL/NONE	WG	MW35-0314	N	trans-1,2-Dichloroethene	0.50	5.5	5.5	UG/L	
CVOL/NONE	WG	MW35-0314	N	Trichloroethene (TCE)	0.50	6.9	6.9	UG/L	
CVOL/NONE	WG	MW42-0314	N	1,1-Dichloroethane	10.0	25.0	25.0	UG/L	
CVOL/NONE	WG	MW42-0314	N	cis-1,2-Dichloroethylene	200	4000 D	4000	UG/L	
CVOL/NONE	WG	MW42-0314	N	trans-1,2-Dichloroethene	10.0	75.0	75.0	UG/L	
CVOL/NONE	WG	MW42-0314	N	Trichloroethene (TCE)	200	390 D	390 J	UG/L	M/D2
CVOL/NONE	WG	MW43-0314	N	Cyclohexane	0.50	1.2	1.2	UG/L	
CVOL/NONE	WG	MW43-0314	N	1,1-Dichloroethane	0.50	0.22 J	0.22 J	UG/L	TR
CVOL/NONE	WG	MW43-0314	N	1,2-Dichloroethane	0.50	7.6	7.6	UG/L	
CVOL/NONE	WG	MW43-0314	N	cis-1,2-Dichloroethylene	2.0	25.0 D	25.0	UG/L	
CVOL/NONE	WG	MW43-0314	N	trans-1,2-Dichloroethene	0.50	1.4	1.4	UG/L	
CVOL/NONE	WG	MW43-0314	N	Trichloroethene (TCE)	0.50	8.6	8.6	UG/L	
CVOL/NONE	WG	MW44-0314	N	Cyclohexane	0.50	0.42 J	0.42 J	UG/L	TR
CVOL/NONE	WG	MW44-0314	N	1,1-Dichloroethane	0.50	0.20 J	0.20 J	UG/L	TR

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	MW44-0314	N	1,2-Dichloroethane	0.50	4.0	4.0	UG/L	
CVOL/NONE	WG	MW44-0314	N	cis-1,2-Dichloroethylene	2.0	21.0 D	21.0	UG/L	
CVOL/NONE	WG	MW44-0314	N	trans-1,2-Dichloroethene	0.50	1.5	1.5	UG/L	
CVOL/NONE	WG	MW44-0314	N	Trichloroethene (TCE)	0.50	2.9	2.9	UG/L	
CVOL/NONE	WG	MW49-0314	N	cis-1,2-Dichloroethylene	4.0	41.0 D	41.0	UG/L	
CVOL/NONE	WG	MW49-0314	N	trans-1,2-Dichloroethene	0.50	3.4	3.4	UG/L	
CVOL/NONE	WG	MW49-0314	N	Trichloroethene (TCE)	0.50	2.9	2.9	UG/L	
CVOL/NONE	WG	MW56-0314	N	cis-1,2-Dichloroethylene	20.0	450 D	450	UG/L	
CVOL/NONE	WG	MW56-0314	N	trans-1,2-Dichloroethene	2.0	15.0	15.0	UG/L	
CVOL/NONE	WG	MW56-0314	N	Trichloroethene (TCE)	20.0	290 D	290	UG/L	
CVOL/NONE	WG	MW934-0314	FD	1,1-Dichloroethane	2.0	1.3 J	1.3 J	UG/L	TR
CVOL/NONE	WG	MW934-0314	FD	cis-1,2-Dichloroethylene	25.0	450 D	450	UG/L	
CVOL/NONE	WG	MW934-0314	FD	trans-1,2-Dichloroethene	2.0	20.0	20.0	UG/L	
CVOL/NONE	WG	MW934-0314	FD	tert-Butyl Methyl Ether (MTBE)	2.0	1.5 J	1.5 J	UG/L	TR
CVOL/NONE	WG	MW934-0314	FD	Trichloroethene (TCE)	2.0	38.0	38.0	UG/L	
CVOL/NONE	WQ	SAIA-EL03-0314	EB	cis-1,2-Dichloroethylene	0.50	0.13 J	0.13 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW5C-0314	N	1,2-Dichloroethane	4.0	2.0 J	2.0 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW5C-0314	N	cis-1,2-Dichloroethylene	25.0	300 D	300	UG/L	
CVOL/NONE	WG	SAIA-MW5C-0314	N	trans-1,2-Dichloroethene	4.0	21.0	21.0	UG/L	
CVOL/NONE	WG	SAIA-MW5C-0314	N	Trichloroethene (TCE)	4.0	6.5	6.5	UG/L	
CVOL/NONE	WQ	SAIA-RL03-0314	TB	m,p-Xylene	0.50	0.054 J	0.054 J	UG/L	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
WSM0011/NONE	WG	MW34-0314	N	1,4-Dioxane (p-Dioxane)	0.50	1.3	1.3	UG/L	
WSM0011/NONE	WG	MW35-0314	N	1,4-Dioxane (p-Dioxane)	0.50	2.3	2.3	UG/L	
WSM0011/NONE	WG	MW42-0314	N	1,4-Dioxane (p-Dioxane)	5.0	24.0 D	24.0	UG/L	
WSM0011/NONE	WG	MW43-0314	N	1,4-Dioxane (p-Dioxane)	0.50	2.8	2.8	UG/L	

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
WSM0011/NONE	WG	MW44-0314	N	1,4-Dioxane (p-Dioxane)	0.50	2.8	2.8	UG/L	
WSM0011/NONE	WG	MW934-0314	FD	1,4-Dioxane (p-Dioxane)	0.50	1.5	1.5	UG/L	
WSM0011/NONE	WG	SAIA-MW5C-0314	N	1,4-Dioxane (p-Dioxane)	0.50	3.4	3.4	UG/L	

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for 14084A

Facility: Southern Avenue Industrial Area

TDS in Groundwater, March 2014

Guidance Document:

Contract Laboratory: U.S. EPA, Region 9 Lab, Richmond, CA

Field Contractor:

Data Review Contractor: Gilbane

SDG: 14084A, Certified - 4/17/2014 by wtse

QC Level: S2BVEM (Tier 1B)

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: April 21, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG 14084A

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
A2540C/NONE	14	4

AUTOMATED DATA REVIEW SUMMARY for 14084A

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by U.S. EPA, Region 9 Lab, Richmond, CA and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Equipment Blank
- Field Duplicate RPD
- Lab Replicate RPD
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Field Blank
- Initial Calibration Verification
- LCS Recovery
- Material Blank
- MS Recovery
- MS RPD
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for 14084A

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 0 results (0.00%) out of the 18 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked EPA R9 lab report and COC.

No data quality issues were noted. No data required qualification.

21-Apr-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for 14084A

Batch Report

Test Method: A2540C; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B14C140	NA	NA	FIELDQC	WQ	SAIA-EL03-0314	1403065-07	NA	1/1	25-Mar-2014 9:20 AM		27-Mar-2014 11:31 AM	EB
	NA	NA	LABQC	WQ	LABQC	B14C140-BLK1	NA	1/1	27-Mar-2014 11:31 AM		27-Mar-2014 11:31 AM	LB
	NA	NA	LABQC	WQ	LABQC	B14C140-SRM1	NA	1/1	27-Mar-2014 11:31 AM		27-Mar-2014 11:31 AM	RM
	NA	NA	MW45	WG	MW45-0314	1403065-01	NA	1/1	25-Mar-2014 1:07 PM		27-Mar-2014 11:31 AM	N
	NA	NA	MW46	WG	MW46-0314	1403056-01	NA	1/1	24-Mar-2014 11:42 AM		27-Mar-2014 11:31 AM	N
	NA	NA	MW47	WG	MW47-0314	1403056-11	NA	1/1	24-Mar-2014 2:15 PM		27-Mar-2014 11:31 AM	N
	NA	NA	MW48	WG	MW48-0314	1403056-02	NA	1/1	24-Mar-2014 12:37 PM		27-Mar-2014 11:31 AM	N
	NA	NA	MW52	WG	MW52-0314	1403065-05	NA	1/1	25-Mar-2014 11:30 AM		27-Mar-2014 11:31 AM	N
	NA	NA	MW52	WG	MW952-0314	1403065-06	NA	1/1	25-Mar-2014 11:35 AM		27-Mar-2014 11:31 AM	FD
	NA	NA	MW52	WG	MW952-0314	B14C140-DUP2	NA	1/1	25-Mar-2014 11:35 AM		27-Mar-2014 11:31 AM	LR
	NA	NA	SAIA-MW3A	WG	SAIA-MW3A-0314	1403056-03	NA	1/1	24-Mar-2014 10:52 AM		27-Mar-2014 11:31 AM	N
	NA	NA	SAIA-MW3B	WG	SAIA-MW3B-0314	B14C140-DUP1	NA	1/1	24-Mar-2014 10:08 AM		27-Mar-2014 11:31 AM	LR
	NA	NA	SAIA-MW3B	WG	SAIA-MW3B-0314	1403056-04	NA	1/1	24-Mar-2014 10:08 AM		27-Mar-2014 11:31 AM	N
	NA	NA	SAIA-MW3C	WG	SAIA-MW3C-0314	1403056-05	NA	1/1	24-Mar-2014 9:02 AM		27-Mar-2014 11:31 AM	N
	NA	NA	SAIA-MW3C	WG	SAIA-MW93C-0314	1403056-10	NA	1/1	24-Mar-2014 9:07 AM		27-Mar-2014 11:31 AM	FD
	NA	NA	SAIA-MW4A	WG	SAIA-MW4A-0314	1403065-08	NA	1/1	25-Mar-2014 8:21 AM		27-Mar-2014 11:31 AM	N
	NA	NA	SAIA-MW4B	WG	SAIA-MW4B-0314	1403065-09	NA	1/1	25-Mar-2014 10:10 AM		27-Mar-2014 11:31 AM	N
	NA	NA	SAIA-MW6A	WG	SAIA-MW6A-0314	1403056-06	NA	1/1	24-Mar-2014 12:27 PM		27-Mar-2014 11:31 AM	N
	NA	NA	SAIA-MW6B	WG	SAIA-MW6B-0314	1403056-07	NA	1/1	24-Mar-2014 10:44 AM		27-Mar-2014 11:31 AM	N
	NA	NA	SAIA-MW6C	WG	SAIA-MW6C-0314	1403056-08	NA	1/1	24-Mar-2014 9:19 AM		27-Mar-2014 11:31 AM	N
	NA	NA	SAIA-MW8	WG	SAIA-MW8-0314	1403056-09	NA	1/1	24-Mar-2014 2:20 PM		27-Mar-2014 11:31 AM	N

AUTOMATED DATA REVIEW SUMMARY for 14084A

Field Batch Report

Test Method: A2540C **Leach Method: NONE**

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
25031401			FIELDQC	WQ	SAIA-EL03-0314	1403065-07	3/25/2014 9:20:00 AM	EB
25031401			MW45	WG	MW45-0314	1403065-01	3/25/2014 1:07:00 PM	N
25031401			MW52	WG	MW52-0314	1403065-05	3/25/2014 11:30:00 AM	N
25031401			MW52	WG	MW952-0314	1403065-06	3/25/2014 11:35:00 AM	FD
25031401			MW52	WG	MW952-0314	B14C140-DUP2	3/25/2014 11:35:00 AM	LR
25031401			SAIA-MW4A	WG	SAIA-MW4A-0314	1403065-08	3/25/2014 8:21:00 AM	N
25031401			SAIA-MW4B	WG	SAIA-MW4B-0314	1403065-09	3/25/2014 10:10:00 AM	N

QC Outlier Report

--No Records Found--

Qualified Results

--No Records Found--

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
A2540C/NONE	WG	MW45-0314	N	Total Dissolved Solids	20.0	2400 =	2400	MG/L	
A2540C/NONE	WG	MW46-0314	N	Total Dissolved Solids	20.0	1700 =	1700	MG/L	
A2540C/NONE	WG	MW47-0314	N	Total Dissolved Solids	20.0	1300 =	1300	MG/L	
A2540C/NONE	WG	MW48-0314	N	Total Dissolved Solids	20.0	2800 =	2800	MG/L	

AUTOMATED DATA REVIEW SUMMARY for 14084A

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
A2540C/NONE	WG	MW52-0314	N	Total Dissolved Solids	20.0	3200 =	3200	MG/L	
A2540C/NONE	WG	MW952-0314	FD	Total Dissolved Solids	20.0	3200 =	3200	MG/L	
A2540C/NONE	WG	SAIA-MW3A-0314	N	Total Dissolved Solids	20.0	1500 =	1500	MG/L	
A2540C/NONE	WG	SAIA-MW3B-0314	N	Total Dissolved Solids	20.0	1100 =	1100	MG/L	
A2540C/NONE	WG	SAIA-MW3C-0314	N	Total Dissolved Solids	20.0	3300 =	3300	MG/L	
A2540C/NONE	WG	SAIA-MW4A-0314	N	Total Dissolved Solids	20.0	1500 =	1500	MG/L	
A2540C/NONE	WG	SAIA-MW4B-0314	N	Total Dissolved Solids	20.0	1300 =	1300	MG/L	
A2540C/NONE	WG	SAIA-MW6A-0314	N	Total Dissolved Solids	20.0	940 =	940	MG/L	
A2540C/NONE	WG	SAIA-MW6B-0314	N	Total Dissolved Solids	20.0	4300 =	4300	MG/L	
A2540C/NONE	WG	SAIA-MW6C-0314	N	Total Dissolved Solids	20.0	4100 =	4100	MG/L	
A2540C/NONE	WG	SAIA-MW8-0314	N	Total Dissolved Solids	20.0	2100 =	2100	MG/L	
A2540C/NONE	WG	SAIA-MW93C-0314	FD	Total Dissolved Solids	20.0	3400 =	3400	MG/L	

AUTOMATED DATA REVIEW SUMMARY for 14084A

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for 14084A_INO

Facility: Southern Avenue Industrial Area

Guidance Document: Alkalinity, Anions, and TOC, in Groundwater, March 2014

Contract Laboratory: U.S. EPA, Region 9 Lab, Richmond, CA

Field Contractor:

Data Review Contractor: Gilbane

SDG: 14084A_INO, Certified - 4/22/2014 by wtse

QC Level: S2BVEM (Tier 1B)

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: April 21, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG 14084A_INO

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
A2320/NONE	14	4
E300/NONE	14	3
E415.3/NONE	7	2

AUTOMATED DATA REVIEW SUMMARY for 14084A_INO

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by U.S. EPA, Region 9 Lab, Richmond, CA and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Equipment Blank
- Field Duplicate RPD
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Field Blank
- Initial Calibration Verification
- Material Blank
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for 14084A_INO

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 0 results (0.00%) out of the 113 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked EPA R9 lab report and COC.

No data quality issues were noted. No data required qualification.

21-Apr-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

Batch Report

Batch Report

Test Method: A2320; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B14C134	NA	NA	LABQC	WQ	LABQC	B14C134-BS1	NA	1/1	28-Mar-2014 8:24 AM		28-Mar-2014 8:24 AM	BS
	NA	NA	LABQC	WQ	LABQC	B14C134-BLK1	NA	1/1	28-Mar-2014 8:24 AM		28-Mar-2014 8:24 AM	LB
	NA	NA	LABQC	WQ	LABQC	B14C134-MRL1	NA	1/1	28-Mar-2014 8:24 AM		28-Mar-2014 8:24 AM	RM
	NA	NA	MW46	WG	MW46-0314	B14C134-DUP1	NA	1/1	24-Mar-2014 11:42 AM		28-Mar-2014 8:24 AM	LR
	NA	NA	MW46	WG	MW46-0314	1403056-01RE1	NA	1/1	24-Mar-2014 11:42 AM		28-Mar-2014 8:24 AM	N
	NA	NA	MW47	WG	MW47-0314	1403056-11	NA	1/1	24-Mar-2014 2:15 PM		28-Mar-2014 8:24 AM	N
	NA	NA	MW48	WG	MW48-0314	1403056-02	NA	1/1	24-Mar-2014 12:37 PM		28-Mar-2014 8:24 AM	N
	NA	NA	SAIA-MW3A	WG	SAIA-MW3A-0314	1403056-03	NA	1/1	24-Mar-2014 10:52 AM		28-Mar-2014 8:24 AM	N
	NA	NA	SAIA-MW3B	WG	SAIA-MW3B-0314	1403056-04RE1	NA	1/1	24-Mar-2014 10:08 AM		28-Mar-2014 8:24 AM	N
	NA	NA	SAIA-MW3C	WG	SAIA-MW3C-0314	1403056-05	NA	1/1	24-Mar-2014 9:02 AM		28-Mar-2014 8:24 AM	N
	NA	NA	SAIA-MW3C	WG	SAIA-MW93C-0314	1403056-10	NA	1/1	24-Mar-2014 9:07 AM		28-Mar-2014 8:24 AM	FD
	NA	NA	SAIA-MW6A	WG	SAIA-MW6A-0314	1403056-06	NA	1/1	24-Mar-2014 12:27 PM		28-Mar-2014 8:24 AM	N
	NA	NA	SAIA-MW6B	WG	SAIA-MW6B-0314	1403056-07	NA	1/1	24-Mar-2014 10:44 AM		28-Mar-2014 8:24 AM	N
	NA	NA	SAIA-MW6C	WG	SAIA-MW6C-0314	1403056-08	NA	1/1	24-Mar-2014 9:19 AM		28-Mar-2014 8:24 AM	N
	NA	NA	SAIA-MW8	WG	SAIA-MW8-0314	1403056-09	NA	1/1	24-Mar-2014 2:20 PM		28-Mar-2014 8:24 AM	N
B14C139	NA	NA	FIELDQC	WQ	SAIA-EL03-0314	1403065-07	NA	1/1	25-Mar-2014 9:20 AM		31-Mar-2014 11:06 AM	EB
	NA	NA	LABQC	WQ	LABQC	B14C139-BS1	NA	1/1	31-Mar-2014 11:06 AM		31-Mar-2014 11:06 AM	BS
	NA	NA	LABQC	WQ	LABQC	B14C139-BLK1	NA	1/1	31-Mar-2014 11:06 AM		31-Mar-2014 11:06 AM	LB
	NA	NA	LABQC	WQ	LABQC	B14C139-MRL1	NA	1/1	31-Mar-2014 11:06 AM		31-Mar-2014 11:06 AM	RM
	NA	NA	MW45	WG	MW45-0314	1403065-01	NA	1/1	25-Mar-2014 1:07 PM		31-Mar-2014 11:06 AM	N
	NA	NA	MW52	WG	MW52-0314	1403065-05	NA	1/1	25-Mar-2014 11:30 AM		31-Mar-2014 11:06 AM	N
	NA	NA	MW52	WG	MW952-0314	1403065-06	NA	1/1	25-Mar-2014 11:35 AM		31-Mar-2014 11:06 AM	FD

AUTOMATED DATA REVIEW SUMMARY for 14084A_INO

Batch Report

Test Method: A2320; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B14C139	NA	NA	SAIA-MW4A	WG	SAIA-MW4A-0314	1403065-08	NA	1/1	25-Mar-2014 8:21 AM		31-Mar-2014 11:06 AM	N
	NA	NA	SAIA-MW4B	WG	SAIA-MW4B-0314	1403065-09	NA	1/1	25-Mar-2014 10:10 AM		31-Mar-2014 11:06 AM	N

Test Method: E300; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
S14C105	B14C117	NA	FIELDQC	WQ	SAIA-EL03-0314	1403065-07RE1	1312009	1/1	25-Mar-2014 9:20 AM	26-Mar-2014 1:30 PM	26-Mar-2014 8:59 PM	EB
	B14C117	NA	LABQC	WQ	LABQC	B14C117-BS1	1312009	1/1	26-Mar-2014 8:09 AM	26-Mar-2014 8:09 AM	26-Mar-2014 8:15 AM	BS
	B14C117	NA	LABQC	WQ	LABQC	B14C117-BLK1	1312009	1/1	26-Mar-2014 8:09 AM	26-Mar-2014 8:09 AM	26-Mar-2014 8:30 AM	LB
	B14C117	NA	LABQC	WQ	LABQC	B14C117-BLK2	1312009	1/1	26-Mar-2014 8:09 AM	26-Mar-2014 8:09 AM	26-Mar-2014 9:01 AM	LB
	B14C117	NA	MW45	WG	MW45-0314	1403065-01RE1	1312009	1/50	25-Mar-2014 1:07 PM	26-Mar-2014 1:30 PM	26-Mar-2014 7:42 PM	N
	B14C117	NA	MW46	WG	MW46-0314	B14C117-DUP1	1312009	1/10	24-Mar-2014 11:42 AM	26-Mar-2014 8:09 AM	26-Mar-2014 12:46 PM	LR
	B14C117	NA	MW46	WG	MW46-0314	B14C117-DUP2	1312009	1/20	24-Mar-2014 11:42 AM	26-Mar-2014 8:09 AM	26-Mar-2014 6:40 PM	LR
	B14C117	NA	MW46	WG	MW46-0314	1403056-01RE1	1312009	1/10	24-Mar-2014 11:42 AM	26-Mar-2014 8:09 AM	26-Mar-2014 11:59 AM	N
	B14C117	NA	MW46	WG	MW46-0314	1403056-01RE2	1312009	1/20	24-Mar-2014 11:42 AM	26-Mar-2014 8:09 AM	26-Mar-2014 12:30 PM	N
	B14C117	NA	MW47	WG	MW47-0314	1403056-11	1312009	1/1	24-Mar-2014 2:15 PM	26-Mar-2014 8:09 AM	26-Mar-2014 1:32 PM	N
	B14C117	NA	MW47	WG	MW47-0314	1403056-11RE1	1312009	1/20	24-Mar-2014 2:15 PM	26-Mar-2014 8:09 AM	26-Mar-2014 7:26 PM	N
	B14C117	NA	MW48	WG	MW48-0314	1403056-02RE1	1312009	1/50	24-Mar-2014 12:37 PM	26-Mar-2014 8:09 AM	26-Mar-2014 4:21 PM	N
	B14C117	NA	MW52	WG	MW52-0314	1403065-05RE1	1312009	1/50	25-Mar-2014 11:30 AM	26-Mar-2014 1:30 PM	26-Mar-2014 7:57 PM	N
	B14C117	NA	MW52	WG	MW952-0314	1403065-06RE1	1312009	1/50	25-Mar-2014 11:35 AM	26-Mar-2014 1:30 PM	26-Mar-2014 8:12 PM	FD
	B14C117	NA	SAIA-MW3A	WG	SAIA-MW3A-0314	1403056-03RE1	1312009	1/20	24-Mar-2014 10:52 AM	26-Mar-2014 8:09 AM	26-Mar-2014 4:37 PM	N
	B14C117	NA	SAIA-MW3B	WG	SAIA-MW3B-0314	1403056-04RE1	1312009	1/10	24-Mar-2014 10:08 AM	26-Mar-2014 8:09 AM	26-Mar-2014 4:52 PM	N
	B14C117	NA	SAIA-MW3C	WG	SAIA-MW3C-0314	1403056-05RE1	1312009	1/50	24-Mar-2014 9:02 AM	26-Mar-2014 8:09 AM	26-Mar-2014 5:08 PM	N

AUTOMATED DATA REVIEW SUMMARY for 14084A_INO

Batch Report

Test Method: E300; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
S14C105	B14C117	NA	SAIA-MW3C	WG	SAIA-MW93C-0314	1403056-10RE1	1312009	1/50	24-Mar-2014 9:07 AM	26-Mar-2014 8:09 AM	26-Mar-2014 7:11 PM	FD
	B14C117	NA	SAIA-MW4A	WG	SAIA-MW4A-0314	1403065-08RE1	1312009	1/20	25-Mar-2014 8:21 AM	26-Mar-2014 1:30 PM	26-Mar-2014 9:14 PM	N
	B14C117	NA	SAIA-MW4B	WG	SAIA-MW4B-0314	1403065-09RE1	1312009	1/20	25-Mar-2014 10:10 AM	26-Mar-2014 1:30 PM	26-Mar-2014 9:29 PM	N
	B14C117	NA	SAIA-MW6A	WG	SAIA-MW6A-0314	1403056-06RE1	1312009	1/10	24-Mar-2014 12:27 PM	26-Mar-2014 8:09 AM	26-Mar-2014 5:54 PM	N
	B14C117	NA	SAIA-MW6B	WG	SAIA-MW6B-0314	1403056-07RE1	1312009	1/50	24-Mar-2014 10:44 AM	26-Mar-2014 8:09 AM	26-Mar-2014 6:09 PM	N
	B14C117	NA	SAIA-MW6C	WG	SAIA-MW6C-0314	1403056-08RE1	1312009	1/50	24-Mar-2014 9:19 AM	26-Mar-2014 8:09 AM	26-Mar-2014 6:25 PM	N
	B14C117	NA	SAIA-MW8	WG	SAIA-MW8-0314	1403056-09RE1	1312009	1/50	24-Mar-2014 2:20 PM	26-Mar-2014 8:09 AM	26-Mar-2014 6:55 PM	N

AUTOMATED DATA REVIEW SUMMARY for 14084A_INO

Batch Report

Test Method: E415.3; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
S14D017	B14D015	NA	FIELDQC	WQ	SAIA-EL03-0314	1403065-07	1402010	1/1	25-Mar-2014 9:20 AM	03-Apr-2014 10:00 AM	03-Apr-2014 11:11 PM	EB
	B14D015	NA	LABQC	WQ	LABQC	B14D015-BS1	1402010	1/1	03-Apr-2014 10:00 AM	03-Apr-2014 10:00 AM	03-Apr-2014 6:45 PM	BS
	B14D015	NA	LABQC	WQ	LABQC	B14D015-BLK1	1402010	1/1	03-Apr-2014 10:00 AM	03-Apr-2014 10:00 AM	03-Apr-2014 5:39 PM	LB
	B14D015	NA	MW45	WG	MW45-0314	1403065-01	1402010	1/1	25-Mar-2014 1:07 PM	03-Apr-2014 10:00 AM	03-Apr-2014 7:11 PM	N
	B14D015	NA	MW46	WG	MW46-0314	1403065-02	1402010	1/1	24-Mar-2014 11:42 AM	03-Apr-2014 10:00 AM	03-Apr-2014 7:32 PM	N
	B14D015	NA	MW47	WG	MW47-0314	B14D015-MS1	1402010	1/1	24-Mar-2014 2:15 PM	03-Apr-2014 10:00 AM	03-Apr-2014 8:16 PM	MS
	B14D015	NA	MW47	WG	MW47-0314	1403065-03	1402010	1/1	24-Mar-2014 2:15 PM	03-Apr-2014 10:00 AM	03-Apr-2014 7:53 PM	N
	B14D015	NA	MW47	WG	MW47-0314	B14D015-MSD1	1402010	1/1	24-Mar-2014 2:15 PM	03-Apr-2014 10:00 AM	03-Apr-2014 8:37 PM	SD
	B14D015	NA	MW48	WG	MW48-0314	1403065-04	1402010	1/1	24-Mar-2014 12:37 PM	03-Apr-2014 10:00 AM	03-Apr-2014 9:03 PM	N
	B14D015	NA	MW52	WG	MW52-0314	1403065-05	1402010	1/1	25-Mar-2014 11:30 AM	03-Apr-2014 10:00 AM	03-Apr-2014 9:24 PM	N
	B14D015	NA	MW52	WG	MW952-0314	1403065-06	1402010	1/1	25-Mar-2014 11:35 AM	03-Apr-2014 10:00 AM	03-Apr-2014 10:52 PM	FD
	B14D015	NA	SAIA-MW4A	WG	SAIA-MW4A-0314	1403065-08	1402010	1/1	25-Mar-2014 8:21 AM	03-Apr-2014 10:00 AM	03-Apr-2014 11:34 PM	N
	B14D015	NA	SAIA-MW4B	WG	SAIA-MW4B-0314	1403065-09	1402010	1/1	25-Mar-2014 10:10 AM	03-Apr-2014 10:00 AM	04-Apr-2014 12:15 AM	N

Field Batch Report

Test Method: A2320		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
25031401			FIELDQC	WQ	SAIA-EL03-0314	1403065-07	3/25/2014 9:20:00 AM	EB
25031401			MW45	WG	MW45-0314	1403065-01	3/25/2014 1:07:00 PM	N
25031401			MW52	WG	MW52-0314	1403065-05	3/25/2014 11:30:00 AM	N
25031401			MW52	WG	MW952-0314	1403065-06	3/25/2014 11:35:00 AM	FD
25031401			SAIA-MW4A	WG	SAIA-MW4A-0314	1403065-08	3/25/2014 8:21:00 AM	N
25031401			SAIA-MW4B	WG	SAIA-MW4B-0314	1403065-09	3/25/2014 10:10:00 AM	N

Test Method: E300		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
25031401			FIELDQC	WQ	SAIA-EL03-0314	1403065-07RE1	3/25/2014 9:20:00 AM	EB
25031401			MW45	WG	MW45-0314	1403065-01RE1	3/25/2014 1:07:00 PM	N
25031401			MW52	WG	MW52-0314	1403065-05RE1	3/25/2014 11:30:00 AM	N
25031401			MW52	WG	MW952-0314	1403065-06RE1	3/25/2014 11:35:00 AM	FD
25031401			SAIA-MW4A	WG	SAIA-MW4A-0314	1403065-08RE1	3/25/2014 8:21:00 AM	N
25031401			SAIA-MW4B	WG	SAIA-MW4B-0314	1403065-09RE1	3/25/2014 10:10:00 AM	N

Test Method: E415.3		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
25031401			FIELDQC	WQ	SAIA-EL03-0314	1403065-07	3/25/2014 9:20:00 AM	EB
25031401			MW45	WG	MW45-0314	1403065-01	3/25/2014 1:07:00 PM	N
25031401			MW46	WG	MW46-0314	1403065-02	3/24/2014 11:42:00 AM	N
25031401			MW47	WG	MW47-0314	1403065-03	3/24/2014 2:15:00 PM	N
25031401			MW47	WG	MW47-0314	B14D015-MS1	3/24/2014 2:15:00 PM	MS
25031401			MW47	WG	MW47-0314	B14D015-MSD1	3/24/2014 2:15:00 PM	SD
25031401			MW48	WG	MW48-0314	1403065-04	3/24/2014 12:37:00 PM	N
25031401			MW52	WG	MW52-0314	1403065-05	3/25/2014 11:30:00 AM	N

Field Batch Report

Test Method: E415.3		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
25031401			MW52	WG	MW952-0314	1403065-06	3/25/2014 11:35:00 AM	FD
25031401			SAIA-MW4A	WG	SAIA-MW4A-0314	1403065-08	3/25/2014 8:21:00 AM	N
25031401			SAIA-MW4B	WG	SAIA-MW4B-0314	1403065-09	3/25/2014 10:10:00 AM	N

AUTOMATED DATA REVIEW SUMMARY for 14084A_INO

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
E415.3 / TOTAL	Equipment Blank	SAIA-EL03-0314 (EB)	1 / 1.00	Total Organic Carbon	0.680	MG/L	U/None	< 0.25	< 0.5	K1		1	0.680

Qualified Results

--No Records Found--

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
A2320/NONE	WG	MW45-0314	N	Alkalinity, Total (as CaCO3)	10.0	580 =	580	MG/L	
A2320/NONE	WG	MW45-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	580 =	580	MG/L	
A2320/NONE	WG	MW46-0314	N	Alkalinity, Total (as CaCO3)	10.0	850 =	850	MG/L	
A2320/NONE	WG	MW46-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	830 =	830	MG/L	
A2320/NONE	WG	MW46-0314	N	Alkalinity, Carbonate (as CaCO3)	10.0	16.0 =	16.0	MG/L	
A2320/NONE	WG	MW47-0314	N	Alkalinity, Total (as CaCO3)	10.0	670 =	670	MG/L	
A2320/NONE	WG	MW47-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	670 =	670	MG/L	
A2320/NONE	WG	MW48-0314	N	Alkalinity, Total (as CaCO3)	10.0	670 =	670	MG/L	
A2320/NONE	WG	MW48-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	670 =	670	MG/L	
A2320/NONE	WG	MW52-0314	N	Alkalinity, Total (as CaCO3)	10.0	760 =	760	MG/L	
A2320/NONE	WG	MW52-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	760 =	760	MG/L	
A2320/NONE	WG	MW952-0314	FD	Alkalinity, Total (as CaCO3)	10.0	780 =	780	MG/L	
A2320/NONE	WG	MW952-0314	FD	Alkalinity, Bicarbonate (as CaCO3)	10.0	780 =	780	MG/L	
A2320/NONE	WG	SAIA-MW3A-0314	N	Alkalinity, Total (as CaCO3)	10.0	680 =	680	MG/L	
A2320/NONE	WG	SAIA-MW3A-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	680 =	680	MG/L	
A2320/NONE	WG	SAIA-MW3B-0314	N	Alkalinity, Total (as CaCO3)	10.0	590 =	590	MG/L	
A2320/NONE	WG	SAIA-MW3B-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	590 =	590	MG/L	
A2320/NONE	WG	SAIA-MW3C-0314	N	Alkalinity, Total (as CaCO3)	10.0	510 =	510	MG/L	
A2320/NONE	WG	SAIA-MW3C-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	510 =	510	MG/L	
A2320/NONE	WG	SAIA-MW4A-0314	N	Alkalinity, Total (as CaCO3)	10.0	690 =	690	MG/L	
A2320/NONE	WG	SAIA-MW4A-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	690 =	690	MG/L	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
A2320/NONE	WG	SAIA-MW4B-0314	N	Alkalinity, Total (as CaCO3)	10.0	610 =	610	MG/L	
A2320/NONE	WG	SAIA-MW4B-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	610 =	610	MG/L	
A2320/NONE	WG	SAIA-MW6A-0314	N	Alkalinity, Total (as CaCO3)	10.0	390 =	390	MG/L	
A2320/NONE	WG	SAIA-MW6A-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	390 =	390	MG/L	
A2320/NONE	WG	SAIA-MW6B-0314	N	Alkalinity, Total (as CaCO3)	10.0	710 =	710	MG/L	
A2320/NONE	WG	SAIA-MW6B-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	710 =	710	MG/L	
A2320/NONE	WG	SAIA-MW6C-0314	N	Alkalinity, Total (as CaCO3)	10.0	640 =	640	MG/L	
A2320/NONE	WG	SAIA-MW6C-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	640 =	640	MG/L	
A2320/NONE	WG	SAIA-MW8-0314	N	Alkalinity, Total (as CaCO3)	10.0	320 =	320	MG/L	
A2320/NONE	WG	SAIA-MW8-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	320 =	320	MG/L	
A2320/NONE	WG	SAIA-MW93C-0314	FD	Alkalinity, Total (as CaCO3)	10.0	490 =	490	MG/L	
A2320/NONE	WG	SAIA-MW93C-0314	FD	Alkalinity, Bicarbonate (as CaCO3)	10.0	490 =	490	MG/L	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E300/NONE	WG	MW45-0314	N	Chloride	50.0	120 =	120	MG/L	
E300/NONE	WG	MW45-0314	N	Sulfate (as SO4)	25.0	1100 =	1100	MG/L	
E300/NONE	WG	MW46-0314	N	Chloride	10.0	86.0 =	86.0	MG/L	
E300/NONE	WG	MW46-0314	N	Sulfate (as SO4)	10.0	500 =	500	MG/L	
E300/NONE	WG	MW47-0314	N	Chloride	1.0	49.0 =	49.0	MG/L	
E300/NONE	WG	MW47-0314	N	Sulfate (as SO4)	10.0	340 =	340	MG/L	
E300/NONE	WG	MW48-0314	N	Chloride	50.0	250 =	250	MG/L	
E300/NONE	WG	MW48-0314	N	Sulfate (as SO4)	25.0	1200 =	1200	MG/L	
E300/NONE	WG	MW52-0314	N	Chloride	50.0	170 =	170	MG/L	
E300/NONE	WG	MW52-0314	N	Sulfate (as SO4)	25.0	1500 =	1500	MG/L	
E300/NONE	WG	MW952-0314	FD	Chloride	50.0	180 =	180	MG/L	
E300/NONE	WG	MW952-0314	FD	Sulfate (as SO4)	25.0	1500 =	1500	MG/L	
E300/NONE	WG	SAIA-MW3A-0314	N	Chloride	20.0	200 =	200	MG/L	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E300/NONE	WG	SAIA-MW3A-0314	N	Sulfate (as SO4)	10.0	380 =	380	MG/L	
E300/NONE	WG	SAIA-MW3B-0314	N	Chloride	10.0	89.0 =	89.0	MG/L	
E300/NONE	WG	SAIA-MW3B-0314	N	Sulfate (as SO4)	5.0	220 =	220	MG/L	
E300/NONE	WG	SAIA-MW3C-0314	N	Chloride	50.0	680 =	680	MG/L	
E300/NONE	WG	SAIA-MW3C-0314	N	Sulfate (as SO4)	25.0	1300 =	1300	MG/L	
E300/NONE	WG	SAIA-MW4A-0314	N	Chloride	20.0	160 =	160	MG/L	
E300/NONE	WG	SAIA-MW4A-0314	N	Sulfate (as SO4)	10.0	390 =	390	MG/L	
E300/NONE	WG	SAIA-MW4B-0314	N	Chloride	20.0	86.0 =	86.0	MG/L	
E300/NONE	WG	SAIA-MW4B-0314	N	Sulfate (as SO4)	10.0	400 =	400	MG/L	
E300/NONE	WG	SAIA-MW6A-0314	N	Chloride	10.0	100 =	100	MG/L	
E300/NONE	WG	SAIA-MW6A-0314	N	Sulfate (as SO4)	5.0	230 =	230	MG/L	
E300/NONE	WG	SAIA-MW6B-0314	N	Chloride	50.0	350 =	350	MG/L	
E300/NONE	WG	SAIA-MW6B-0314	N	Sulfate (as SO4)	25.0	2000 =	2000	MG/L	
E300/NONE	WG	SAIA-MW6C-0314	N	Chloride	50.0	410 =	410	MG/L	
E300/NONE	WG	SAIA-MW6C-0314	N	Sulfate (as SO4)	25.0	1900 =	1900	MG/L	
E300/NONE	WG	SAIA-MW8-0314	N	Chloride	50.0	390 =	390	MG/L	
E300/NONE	WG	SAIA-MW8-0314	N	Sulfate (as SO4)	25.0	780 =	780	MG/L	
E300/NONE	WG	SAIA-MW93C-0314	FD	Chloride	50.0	670 =	670	MG/L	
E300/NONE	WG	SAIA-MW93C-0314	FD	Sulfate (as SO4)	25.0	1200 =	1200	MG/L	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E415.3/NONE	WG	MW45-0314	N	Total Organic Carbon	0.50	3.3 =	3.3	MG/L	
E415.3/NONE	WG	MW46-0314	N	Total Organic Carbon	0.50	4.2 =	4.2	MG/L	
E415.3/NONE	WG	MW47-0314	N	Total Organic Carbon	0.50	5.8 =	5.8	MG/L	
E415.3/NONE	WG	MW48-0314	N	Total Organic Carbon	0.50	4.6 =	4.6	MG/L	
E415.3/NONE	WG	MW52-0314	N	Total Organic Carbon	0.50	4.9 =	4.9	MG/L	
E415.3/NONE	WG	MW952-0314	FD	Total Organic Carbon	0.50	4.9 =	4.9	MG/L	

AUTOMATED DATA REVIEW SUMMARY for 14084A_INO

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E415.3/NONE	WQ	SAIA-EL03-0314	EB	Total Organic Carbon	0.50	0.68 =	0.68	MG/L	
E415.3/NONE	WG	SAIA-MW4A-0314	N	Total Organic Carbon	0.50	4.3 =	4.3	MG/L	
E415.3/NONE	WG	SAIA-MW4B-0314	N	Total Organic Carbon	0.50	19.0 =	19.0	MG/L	

AUTOMATED DATA REVIEW SUMMARY for 14084A_INO

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for 14085A_INO

Facility: Southern Avenue Industrial Area

Guidance Document: Alkalinity, Anions, and TOC, in Groundwater, March 2014

Contract Laboratory: U.S. EPA, Region 9 Lab, Richmond, CA

Field Contractor:

Data Review Contractor: Gilbane

SDG: 14085A_INO, Certified - 4/23/2014 by wtse

QC Level: S1BVEM (Tier 1B)

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: April 21, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG 14085A_INO

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
A2320/NONE	15	4
E300/NONE	15	3
E415.3/NONE	16	3

AUTOMATED DATA REVIEW SUMMARY for 14085A_INO

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by U.S. EPA, Region 9 Lab, Richmond, CA and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Equipment Blank
- Field Duplicate RPD
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Field Blank
- Initial Calibration Verification
- Material Blank
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for 14085A_INO

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 0 results (0.00%) out of the 129 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked EPA R9 lab report and COC.

No data quality issues were noted. No data required qualification.

Sample SAIA-MW8-0314 for TOC analysis arrived broken and no sample remained, thus was not analyzed.

21-Apr-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

Batch Report

Test Method: A2320; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B14C139	NA	NA	LABQC	WQ	LABQC	B14C139-BS1	NA	1/1	31-Mar-2014 11:06 AM		31-Mar-2014 11:06 AM	BS
	NA	NA	LABQC	WQ	LABQC	B14C139-BLK1	NA	1/1	31-Mar-2014 11:06 AM		31-Mar-2014 11:06 AM	LB
	NA	NA	LABQC	WQ	LABQC	B14C139-MRL1	NA	1/1	31-Mar-2014 11:06 AM		31-Mar-2014 11:06 AM	RM
	NA	NA	SAIA-MW4C	WG	SAIA-MW4C-0314	1403066-01	NA	1/1	25-Mar-2014 9:13 AM		31-Mar-2014 11:06 AM	N
	NA	NA	SAIA-MW5A	WG	SAIA-MW5A-0314	1403066-02	NA	1/1	25-Mar-2014 10:22 AM		31-Mar-2014 11:06 AM	N
	NA	NA	SAIA-MW5B	WG	SAIA-MW5B-0314	1403066-03	NA	1/1	25-Mar-2014 11:30 AM		31-Mar-2014 11:06 AM	N
	NA	NA	SAIA-MW5C	WG	SAIA-MW5C-0314	1403066-04	NA	1/1	25-Mar-2014 8:51 AM		31-Mar-2014 11:06 AM	N
B14D014	NA	NA	FIELDQC	WQ	SAIA-EL01-0314	1403071-01	NA	1/1	27-Mar-2014 12:30 PM		03-Apr-2014 8:18 AM	EB
	NA	NA	FIELDQC	WQ	SAIA-EL02-0314	1403070-08	NA	1/1	26-Mar-2014 10:50 AM		03-Apr-2014 8:18 AM	EB
	NA	NA	LABQC	WQ	LABQC	B14D014-BS1	NA	1/1	03-Apr-2014 8:18 AM		03-Apr-2014 8:18 AM	BS
	NA	NA	LABQC	WQ	LABQC	B14D014-BLK1	NA	1/1	03-Apr-2014 8:18 AM		03-Apr-2014 8:18 AM	LB
	NA	NA	LABQC	WQ	LABQC	B14D014-MRL1	NA	1/1	03-Apr-2014 8:18 AM		03-Apr-2014 8:18 AM	RM
	NA	NA	MW34	WG	MW34-0314	1403070-09	NA	1/1	26-Mar-2014 9:06 AM		03-Apr-2014 8:18 AM	N
	NA	NA	MW34	WG	MW934-0314	1403070-07	NA	1/1	26-Mar-2014 9:11 AM		03-Apr-2014 8:18 AM	FD
	NA	NA	MW35	WG	MW35-0314	1403070-01	NA	1/1	26-Mar-2014 10:15 AM		03-Apr-2014 8:18 AM	N
	NA	NA	MW42	WG	MW42-0314	B14D014-DUP1	NA	1/1	26-Mar-2014 11:55 AM		03-Apr-2014 8:18 AM	LR
	NA	NA	MW42	WG	MW42-0314	1403070-02	NA	1/1	26-Mar-2014 11:55 AM		03-Apr-2014 8:18 AM	N
	NA	NA	MW43	WG	MW43-0314	1403070-03	NA	1/1	26-Mar-2014 9:29 AM		03-Apr-2014 8:18 AM	N
	NA	NA	MW44	WG	MW44-0314	1403070-04	NA	1/1	26-Mar-2014 10:17 AM		03-Apr-2014 8:18 AM	N
	NA	NA	MW49	WG	MW49-0314	1403070-05	NA	1/1	26-Mar-2014 7:57 AM		03-Apr-2014 8:18 AM	N
	NA	NA	MW56	WG	MW56-0314	1403070-06	NA	1/1	26-Mar-2014 8:03 AM		03-Apr-2014 8:18 AM	N

AUTOMATED DATA REVIEW SUMMARY for 14085A_INO

Batch Report

Test Method: A2320; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B14D014	NA	NA	SAIA-MW1A	WG	SAIA-MW1A-0314	1403071-02	NA	1/1	27-Mar-2014 9:55 AM		03-Apr-2014 8:18 AM	N
	NA	NA	SAIA-MW1B	WG	SAIA-MW1B-0314	1403071-03	NA	1/1	27-Mar-2014 9:02 AM		03-Apr-2014 8:18 AM	N
	NA	NA	SAIA-MW1C	WG	SAIA-MW1C-0314	1403071-04	NA	1/1	27-Mar-2014 8:05 AM		03-Apr-2014 8:18 AM	N
	NA	NA	SAIA-MW2A	WG	SAIA-MW2A-0314	1403071-05	NA	1/1	27-Mar-2014 10:02 AM		03-Apr-2014 8:18 AM	N

Test Method: E300; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
S14C112	B14C124	NA	FIELDQC	WQ	SAIA-EL02-0314	1403070-08	1312009	1/1	26-Mar-2014 10:50 AM	27-Mar-2014 1:00 PM	27-Mar-2014 4:51 PM	EB
	B14C124	NA	LABQC	WQ	LABQC	B14C124-BS1	1312009	1/1	27-Mar-2014 10:06 AM	27-Mar-2014 10:06 AM	27-Mar-2014 10:10 AM	BS
	B14C124	NA	LABQC	WQ	LABQC	B14C124-BLK1	1312009	1/1	27-Mar-2014 10:06 AM	27-Mar-2014 10:06 AM	27-Mar-2014 10:26 AM	LB
	B14C124	NA	LABQC	WQ	LABQC	B14C124-BLK2	1312009	1/1	27-Mar-2014 10:06 AM	27-Mar-2014 10:06 AM	27-Mar-2014 10:57 AM	LB
	B14C124	NA	MW34	WG	MW34-0314	1403070-09	1312009	1/1	26-Mar-2014 9:06 AM	27-Mar-2014 1:00 PM	27-Mar-2014 3:49 PM	N
	B14C124	NA	MW34	WG	MW34-0314	1403070-09RE1	1312009	1/20	26-Mar-2014 9:06 AM	27-Mar-2014 1:00 PM	27-Mar-2014 8:57 PM	N
	B14C124	NA	MW34	WG	MW934-0314	1403070-07	1312009	1/1	26-Mar-2014 9:11 AM	27-Mar-2014 1:00 PM	27-Mar-2014 3:34 PM	FD
	B14C124	NA	MW34	WG	MW934-0314	1403070-07RE1	1312009	1/20	26-Mar-2014 9:11 AM	27-Mar-2014 1:00 PM	27-Mar-2014 8:42 PM	FD
	B14C124	NA	MW35	WG	MW35-0314	1403070-01RE1	1312009	1/100	26-Mar-2014 10:15 AM	27-Mar-2014 1:00 PM	27-Mar-2014 5:53 PM	N
	B14C124	NA	MW35	WG	MW35-0314	1403070-01RE2	1312009	1/20	26-Mar-2014 10:15 AM	27-Mar-2014 1:00 PM	27-Mar-2014 6:08 PM	N
	B14C124	NA	MW42	WG	MW42-0314	B14C124-DUP1	1312009	1/10	26-Mar-2014 11:55 AM	27-Mar-2014 10:06 AM	27-Mar-2014 5:37 PM	LR
	B14C124	NA	MW42	WG	MW42-0314	1403070-02	1312009	1/1	26-Mar-2014 11:55 AM	27-Mar-2014 1:00 PM	27-Mar-2014 2:01 PM	N
	B14C124	NA	MW42	WG	MW42-0314	1403070-02RE1	1312009	1/10	26-Mar-2014 11:55 AM	27-Mar-2014 1:00 PM	27-Mar-2014 5:22 PM	N
	B14C124	NA	MW43	WG	MW43-0314	1403070-03RE1	1312009	1/100	26-Mar-2014 9:29 AM	27-Mar-2014 1:00 PM	27-Mar-2014 6:23 PM	N
	B14C124	NA	MW43	WG	MW43-0314	1403070-03RE2	1312009	1/20	26-Mar-2014 9:29 AM	27-Mar-2014 1:00 PM	27-Mar-2014 6:39 PM	N

Batch Report

Test Method: E300; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
S14C112	B14C124	NA	MW44	WG	MW44-0314	1403070-04RE1	1312009	1/100	26-Mar-2014 10:17 AM	27-Mar-2014 1:00 PM	27-Mar-2014 6:54 PM	N
	B14C124	NA	MW44	WG	MW44-0314	1403070-04RE2	1312009	1/20	26-Mar-2014 10:17 AM	27-Mar-2014 1:00 PM	27-Mar-2014 7:10 PM	N
	B14C124	NA	MW49	WG	MW49-0314	1403070-05RE1	1312009	1/100	26-Mar-2014 7:57 AM	27-Mar-2014 1:00 PM	27-Mar-2014 7:56 PM	N
	B14C124	NA	MW49	WG	MW49-0314	1403070-05RE2	1312009	1/20	26-Mar-2014 7:57 AM	27-Mar-2014 1:00 PM	27-Mar-2014 8:11 PM	N
	B14C124	NA	MW56	WG	MW56-0314	1403070-06RE1	1312009	1/20	26-Mar-2014 8:03 AM	27-Mar-2014 1:00 PM	27-Mar-2014 8:27 PM	N
	B14C124	NA	SAIA-MW4C	WG	SAIA-MW4C-0314	1403066-01RE2	1312009	1/50	25-Mar-2014 9:13 AM	27-Mar-2014 10:06 AM	27-Mar-2014 1:46 PM	N
	B14C124	NA	SAIA-MW5A	WG	SAIA-MW5A-0314	1403066-02RE1	1312009	1/50	25-Mar-2014 10:22 AM	27-Mar-2014 10:06 AM	27-Mar-2014 12:29 PM	N
	B14C124	NA	SAIA-MW5B	WG	SAIA-MW5B-0314	1403066-03RE1	1312009	1/50	25-Mar-2014 11:30 AM	27-Mar-2014 10:06 AM	27-Mar-2014 12:44 PM	N
	B14C124	NA	SAIA-MW5C	WG	SAIA-MW5C-0314	1403066-04RE1	1312009	1/50	25-Mar-2014 8:51 AM	27-Mar-2014 10:06 AM	27-Mar-2014 1:00 PM	N
S14D002	B14C124	NA	LABQC	WQ	LABQC	B14C124-BS2	1312009	1/1	01-Apr-2014 9:02 AM	01-Apr-2014 9:02 AM	01-Apr-2014 12:42 PM	BS
	B14C124	NA	LABQC	WQ	LABQC	B14C124-BLK3	1312009	1/1	01-Apr-2014 9:02 AM	01-Apr-2014 9:02 AM	01-Apr-2014 10:23 AM	LB
	B14C124	NA	LABQC	WQ	LABQC	B14C124-BLK4	1312009	1/1	01-Apr-2014 9:02 AM	01-Apr-2014 9:02 AM	01-Apr-2014 1:57 PM	LB
	B14C124	NA	MW42	WG	MW42-0314	B14C124-DUP2	1312009	1/1	26-Mar-2014 11:55 AM	01-Apr-2014 9:02 AM	01-Apr-2014 11:10 AM	LR
	B14D002	NA	FIELDQC	WQ	SAIA-EL01-0314	1403071-01	1312009	1/1	27-Mar-2014 12:30 PM	01-Apr-2014 9:02 AM	01-Apr-2014 11:40 AM	EB
	B14D002	NA	FIELDQC	WQ	SAIA-EL01-0314	1403071-01RE1	1312009	1/1	27-Mar-2014 12:30 PM	01-Apr-2014 9:02 AM	01-Apr-2014 7:55 PM	EB
	B14D002	NA	FIELDQC	WQ	SAIA-EL02-0314	1403070-08RE3	1312009	1/1	26-Mar-2014 10:50 AM	01-Apr-2014 9:02 AM	01-Apr-2014 8:10 PM	EB
	B14D002	NA	LABQC	WQ	LABQC	B14D002-BS1	1312009	1/1	01-Apr-2014 9:02 AM	01-Apr-2014 9:02 AM	01-Apr-2014 9:37 AM	BS
	B14D002	NA	LABQC	WQ	LABQC	B14D002-BLK1	1312009	1/1	01-Apr-2014 9:02 AM	01-Apr-2014 9:02 AM	01-Apr-2014 9:53 AM	LB
	B14D002	NA	LABQC	WQ	LABQC	B14D002-BLK2	1312009	1/1	01-Apr-2014 9:02 AM	01-Apr-2014 9:02 AM	01-Apr-2014 10:23 AM	LB
	B14D002	NA	SAIA-MW1A	WG	SAIA-MW1A-0314	1403071-02RE1	1312009	1/10	27-Mar-2014 9:55 AM	01-Apr-2014 9:02 AM	01-Apr-2014 5:51 PM	N
	B14D002	NA	SAIA-MW1B	WG	SAIA-MW1B-0314	1403071-03RE1	1312009	1/20	27-Mar-2014 9:02 AM	01-Apr-2014 9:02 AM	01-Apr-2014 6:07 PM	N
	B14D002	NA	SAIA-MW1C	WG	SAIA-MW1C-0314	1403071-04RE2	1312009	1/10	27-Mar-2014 8:05 AM	01-Apr-2014 9:02 AM	01-Apr-2014 6:38 PM	N

Batch Report

Test Method: E300; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
S14D002	B14D002	NA	SAIA-MW2A	WG	SAIA-MW2A-0314	1403071-05	1312009	1/1	27-Mar-2014 10:02 AM	01-Apr-2014 9:02 AM	01-Apr-2014 2:30 PM	N
	B14D002	NA	SAIA-MW4C	WG	SAIA-MW4C-0314	1403066-01RE4	1312009	1/50	25-Mar-2014 9:13 AM	01-Apr-2014 9:02 AM	01-Apr-2014 8:25 PM	N
S14D006	B14D008	NA	LABQC	WQ	LABQC	B14D008-BS1	1312009	1/1	02-Apr-2014 9:30 AM	02-Apr-2014 9:30 AM	02-Apr-2014 9:57 AM	BS
	B14D008	NA	LABQC	WQ	LABQC	B14D008-BLK1	1312009	1/1	02-Apr-2014 9:30 AM	02-Apr-2014 9:30 AM	02-Apr-2014 10:12 AM	LB
	B14D008	NA	LABQC	WQ	LABQC	B14D008-BLK2	1312009	1/1	02-Apr-2014 9:30 AM	02-Apr-2014 9:30 AM	02-Apr-2014 10:43 AM	LB
	B14D008	NA	SAIA-MW1A	WG	SAIA-MW1A-0314	1403071-02RE2	1312009	1/10	27-Mar-2014 9:55 AM	02-Apr-2014 9:30 AM	02-Apr-2014 11:29 AM	N
	B14D008	NA	SAIA-MW1B	WG	SAIA-MW1B-0314	1403071-03RE2	1312009	1/100	27-Mar-2014 9:02 AM	02-Apr-2014 9:30 AM	02-Apr-2014 11:45 AM	N
	B14D008	NA	SAIA-MW1C	WG	SAIA-MW1C-0314	1403071-04RE3	1312009	1/100	27-Mar-2014 8:05 AM	02-Apr-2014 9:30 AM	02-Apr-2014 12:00 PM	N
	B14D008	NA	SAIA-MW2A	WG	SAIA-MW2A-0314	1403071-05RE3	1312009	1/10	27-Mar-2014 10:02 AM	02-Apr-2014 9:30 AM	02-Apr-2014 12:16 PM	N

Test Method: E415.3; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
S14D017	B14D015	NA	LABQC	WQ	LABQC	B14D015-BS1	1402010	1/1	03-Apr-2014 10:00 AM	03-Apr-2014 10:00 AM	03-Apr-2014 6:45 PM	BS
	B14D015	NA	LABQC	WQ	LABQC	B14D015-BLK1	1402010	1/1	03-Apr-2014 10:00 AM	03-Apr-2014 10:00 AM	03-Apr-2014 5:39 PM	LB
	B14D015	NA	SAIA-MW4C	WG	SAIA-MW4C-0314	1403066-01	1402010	1/1	25-Mar-2014 9:13 AM	03-Apr-2014 10:00 AM	04-Apr-2014 12:46 AM	N
	B14D015	NA	SAIA-MW5A	WG	SAIA-MW5A-0314	1403066-02	1402010	1/1	25-Mar-2014 10:22 AM	03-Apr-2014 10:00 AM	04-Apr-2014 1:03 AM	N
	B14D015	NA	SAIA-MW5B	WG	SAIA-MW5B-0314	1403066-03RE1	1402010	1/1	25-Mar-2014 11:30 AM	03-Apr-2014 10:00 AM	04-Apr-2014 10:05 AM	N
	B14D015	NA	SAIA-MW5C	WG	SAIA-MW5C-0314	1403066-04	1402010	1/1	25-Mar-2014 8:51 AM	03-Apr-2014 10:00 AM	04-Apr-2014 2:10 AM	N
	B14D015	NA	SAIA-MW6A	WG	SAIA-MW6A-0314	1403066-05	1402010	1/1	24-Mar-2014 12:27 PM	03-Apr-2014 10:00 AM	04-Apr-2014 2:27 AM	N
	B14D017	NA	FIELDQC	WQ	SAIA-EL01-0314	1403071-01	1402010	1/1	27-Mar-2014 12:30 PM	03-Apr-2014 1:06 PM	04-Apr-2014 10:23 AM	EB
	B14D017	NA	FIELDQC	WQ	SAIA-EL02-0314	1403070-08	1402010	1/1	26-Mar-2014 10:50 AM	03-Apr-2014 1:06 PM	04-Apr-2014 7:27 AM	EB
	B14D017	NA	LABQC	WQ	LABQC	B14D017-BS1	1402010	1/1	03-Apr-2014 1:06 PM	03-Apr-2014 1:06 PM	04-Apr-2014 4:11 AM	BS

AUTOMATED DATA REVIEW SUMMARY for 14085A_INO

Batch Report

Test Method: E415.3; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
S14D017	B14D017	NA	LABQC	WQ	LABQC	B14D017-BLK1	1402010	1/1	03-Apr-2014 1:06 PM	03-Apr-2014 1:06 PM	04-Apr-2014 3:48 AM	LB
	B14D017	NA	MW34	WG	MW34-0314	1403070-09	1402010	1/1	26-Mar-2014 9:06 AM	03-Apr-2014 1:06 PM	04-Apr-2014 9:29 AM	N
	B14D017	NA	MW34	WG	MW934-0314	1403070-07	1402010	1/1	26-Mar-2014 9:11 AM	03-Apr-2014 1:06 PM	04-Apr-2014 7:08 AM	FD
	B14D017	NA	MW35	WG	MW35-0314	1403070-01	1402010	1/1	26-Mar-2014 10:15 AM	03-Apr-2014 1:06 PM	04-Apr-2014 2:49 AM	N
	B14D017	NA	MW42	WG	MW42-0314	B14D017-MS1	1402010	1/1	26-Mar-2014 11:55 AM	03-Apr-2014 1:06 PM	04-Apr-2014 4:58 AM	MS
	B14D017	NA	MW42	WG	MW42-0314	1403070-02	1402010	1/1	26-Mar-2014 11:55 AM	03-Apr-2014 1:06 PM	04-Apr-2014 4:37 AM	N
	B14D017	NA	MW42	WG	MW42-0314	B14D017-MSD1	1402010	1/1	26-Mar-2014 11:55 AM	03-Apr-2014 1:06 PM	04-Apr-2014 5:20 AM	SD
	B14D017	NA	MW43	WG	MW43-0314	1403070-03	1402010	1/1	26-Mar-2014 9:29 AM	03-Apr-2014 1:06 PM	04-Apr-2014 5:44 AM	N
	B14D017	NA	MW44	WG	MW44-0314	1403070-04	1402010	1/1	26-Mar-2014 10:17 AM	03-Apr-2014 1:06 PM	04-Apr-2014 6:06 AM	N
	B14D017	NA	MW49	WG	MW49-0314	1403070-05	1402010	1/1	26-Mar-2014 7:57 AM	03-Apr-2014 1:06 PM	04-Apr-2014 6:28 AM	N
	B14D017	NA	MW56	WG	MW56-0314	1403070-06	1402010	1/1	26-Mar-2014 8:03 AM	03-Apr-2014 1:06 PM	04-Apr-2014 6:47 AM	N
	B14D017	NA	SAIA-MW1A	WG	SAIA-MW1A-0314	1403071-02	1402010	1/1	27-Mar-2014 9:55 AM	03-Apr-2014 1:06 PM	04-Apr-2014 11:10 AM	N
	B14D017	NA	SAIA-MW1B	WG	SAIA-MW1B-0314	1403071-03	1402010	1/1	27-Mar-2014 9:02 AM	03-Apr-2014 1:06 PM	04-Apr-2014 11:40 AM	N
	B14D017	NA	SAIA-MW1C	WG	SAIA-MW1C-0314	1403071-04RE1	1402010	1/1	27-Mar-2014 8:05 AM	03-Apr-2014 1:06 PM	04-Apr-2014 1:33 PM	N
	B14D017	NA	SAIA-MW2A	WG	SAIA-MW2A-0314	1403071-05	1402010	1/1	27-Mar-2014 10:02 AM	03-Apr-2014 1:06 PM	04-Apr-2014 12:51 PM	N

Field Batch Report

Test Method: A2320		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
27031401			FIELDQC	WQ	SAIA-EL01-0314	1403071-01	3/27/2014 12:30:00 PM	EB
27031401			SAIA-MW1A	WG	SAIA-MW1A-0314	1403071-02	3/27/2014 9:55:00 AM	N
27031401			SAIA-MW1B	WG	SAIA-MW1B-0314	1403071-03	3/27/2014 9:02:00 AM	N
27031401			SAIA-MW1C	WG	SAIA-MW1C-0314	1403071-04	3/27/2014 8:05:00 AM	N
27031401			SAIA-MW2A	WG	SAIA-MW2A-0314	1403071-05	3/27/2014 10:02:00 AM	N

Test Method: E300		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
27031401			FIELDQC	WQ	SAIA-EL01-0314	1403071-01	3/27/2014 12:30:00 PM	EB
27031401			FIELDQC	WQ	SAIA-EL01-0314	1403071-01RE1	3/27/2014 12:30:00 PM	EB
27031401			SAIA-MW1A	WG	SAIA-MW1A-0314	1403071-02RE1	3/27/2014 9:55:00 AM	N
27031401			SAIA-MW1A	WG	SAIA-MW1A-0314	1403071-02RE2	3/27/2014 9:55:00 AM	N
27031401			SAIA-MW1B	WG	SAIA-MW1B-0314	1403071-03RE1	3/27/2014 9:02:00 AM	N
27031401			SAIA-MW1B	WG	SAIA-MW1B-0314	1403071-03RE2	3/27/2014 9:02:00 AM	N
27031401			SAIA-MW1C	WG	SAIA-MW1C-0314	1403071-04RE2	3/27/2014 8:05:00 AM	N
27031401			SAIA-MW1C	WG	SAIA-MW1C-0314	1403071-04RE3	3/27/2014 8:05:00 AM	N
27031401			SAIA-MW2A	WG	SAIA-MW2A-0314	1403071-05	3/27/2014 10:02:00 AM	N
27031401			SAIA-MW2A	WG	SAIA-MW2A-0314	1403071-05RE3	3/27/2014 10:02:00 AM	N

Test Method: E415.3		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
27031401			FIELDQC	WQ	SAIA-EL01-0314	1403071-01	3/27/2014 12:30:00 PM	EB
27031401			SAIA-MW1A	WG	SAIA-MW1A-0314	1403071-02	3/27/2014 9:55:00 AM	N
27031401			SAIA-MW1B	WG	SAIA-MW1B-0314	1403071-03	3/27/2014 9:02:00 AM	N
27031401			SAIA-MW1C	WG	SAIA-MW1C-0314	1403071-04RE1	3/27/2014 8:05:00 AM	N
27031401			SAIA-MW2A	WG	SAIA-MW2A-0314	1403071-05	3/27/2014 10:02:00 AM	N

Field Batch Report

Test Method: A2320		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
26031401			FIELDQC	WQ	SAIA-EL02-0314	1403070-08	3/26/2014 10:50:00 AM	EB
26031401			MW34	WG	MW34-0314	1403070-09	3/26/2014 9:06:00 AM	N
26031401			MW34	WG	MW934-0314	1403070-07	3/26/2014 9:11:00 AM	FD
26031401			MW35	WG	MW35-0314	1403070-01	3/26/2014 10:15:00 AM	N
26031401			MW42	WG	MW42-0314	1403070-02	3/26/2014 11:55:00 AM	N
26031401			MW42	WG	MW42-0314	B14D014-DUP1	3/26/2014 11:55:00 AM	LR
26031401			MW43	WG	MW43-0314	1403070-03	3/26/2014 9:29:00 AM	N
26031401			MW44	WG	MW44-0314	1403070-04	3/26/2014 10:17:00 AM	N
26031401			MW49	WG	MW49-0314	1403070-05	3/26/2014 7:57:00 AM	N
26031401			MW56	WG	MW56-0314	1403070-06	3/26/2014 8:03:00 AM	N

Test Method: E300		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
26031401			FIELDQC	WQ	SAIA-EL02-0314	1403070-08	3/26/2014 10:50:00 AM	EB
26031401			FIELDQC	WQ	SAIA-EL02-0314	1403070-08RE3	3/26/2014 10:50:00 AM	EB
26031401			MW34	WG	MW34-0314	1403070-09	3/26/2014 9:06:00 AM	N
26031401			MW34	WG	MW34-0314	1403070-09RE1	3/26/2014 9:06:00 AM	N
26031401			MW34	WG	MW934-0314	1403070-07	3/26/2014 9:11:00 AM	FD
26031401			MW34	WG	MW934-0314	1403070-07RE1	3/26/2014 9:11:00 AM	FD
26031401			MW35	WG	MW35-0314	1403070-01RE1	3/26/2014 10:15:00 AM	N
26031401			MW35	WG	MW35-0314	1403070-01RE2	3/26/2014 10:15:00 AM	N
26031401			MW42	WG	MW42-0314	1403070-02	3/26/2014 11:55:00 AM	N
26031401			MW42	WG	MW42-0314	1403070-02RE1	3/26/2014 11:55:00 AM	N
26031401			MW42	WG	MW42-0314	B14C124-DUP1	3/26/2014 11:55:00 AM	LR
26031401			MW42	WG	MW42-0314	B14C124-DUP2	3/26/2014 11:55:00 AM	LR
26031401			MW43	WG	MW43-0314	1403070-03RE1	3/26/2014 9:29:00 AM	N

Field Batch Report

Test Method: E300		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
26031401			MW43	WG	MW43-0314	1403070-03RE2	3/26/2014 9:29:00 AM	N
26031401			MW44	WG	MW44-0314	1403070-04RE1	3/26/2014 10:17:00 AM	N
26031401			MW44	WG	MW44-0314	1403070-04RE2	3/26/2014 10:17:00 AM	N
26031401			MW49	WG	MW49-0314	1403070-05RE1	3/26/2014 7:57:00 AM	N
26031401			MW49	WG	MW49-0314	1403070-05RE2	3/26/2014 7:57:00 AM	N
26031401			MW56	WG	MW56-0314	1403070-06RE1	3/26/2014 8:03:00 AM	N

Test Method: E415.3		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
26031401			FIELDQC	WQ	SAIA-EL02-0314	1403070-08	3/26/2014 10:50:00 AM	EB
26031401			MW34	WG	MW34-0314	1403070-09	3/26/2014 9:06:00 AM	N
26031401			MW34	WG	MW934-0314	1403070-07	3/26/2014 9:11:00 AM	FD
26031401			MW35	WG	MW35-0314	1403070-01	3/26/2014 10:15:00 AM	N
26031401			MW42	WG	MW42-0314	1403070-02	3/26/2014 11:55:00 AM	N
26031401			MW42	WG	MW42-0314	B14D017-MS1	3/26/2014 11:55:00 AM	MS
26031401			MW42	WG	MW42-0314	B14D017-MSD1	3/26/2014 11:55:00 AM	SD
26031401			MW43	WG	MW43-0314	1403070-03	3/26/2014 9:29:00 AM	N
26031401			MW44	WG	MW44-0314	1403070-04	3/26/2014 10:17:00 AM	N
26031401			MW49	WG	MW49-0314	1403070-05	3/26/2014 7:57:00 AM	N
26031401			MW56	WG	MW56-0314	1403070-06	3/26/2014 8:03:00 AM	N

AUTOMATED DATA REVIEW SUMMARY for 14085A_INO

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
E300 / METHOD	Equipment Blank	SAIA-EL02-0314 (EB)	1 / 1.00	Sulfate (as SO4)	0.410	MG/L	U/None	< 0.25	< 0.5	K1		1	0.410
E415.3 / TOTAL	Equipment Blank	SAIA-EL01-0314 (EB)	1 / 1.00	Total Organic Carbon	0.360	MG/L	U/None	< 0.25	< 0.5	K1		1	0.360
E415.3 / TOTAL	Equipment Blank	SAIA-EL02-0314 (EB)	1 / 1.00	Total Organic Carbon	0.260	MG/L	U/None	< 0.25	< 0.5	K1		1	0.260

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E300/NONE	WQ	SAIA-EL02-0314	EB	Sulfate (as SO4)	0.50	0.41 J,C1	0.41 J	MG/L	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E415.3/NONE	WQ	SAIA-EL01-0314	EB	Total Organic Carbon	0.50	0.36 J,C1	0.36 J	MG/L	TR
E415.3/NONE	WQ	SAIA-EL02-0314	EB	Total Organic Carbon	0.50	0.26 J,C1	0.26 J	MG/L	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
A2320/NONE	WG	MW34-0314	N	Alkalinity, Total (as CaCO3)	10.0	930 =	930	MG/L	
A2320/NONE	WG	MW34-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	930 =	930	MG/L	
A2320/NONE	WG	MW35-0314	N	Alkalinity, Total (as CaCO3)	10.0	670 =	670	MG/L	
A2320/NONE	WG	MW35-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	670 =	670	MG/L	
A2320/NONE	WG	MW42-0314	N	Alkalinity, Total (as CaCO3)	10.0	860 =	860	MG/L	
A2320/NONE	WG	MW42-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	860 =	860	MG/L	
A2320/NONE	WG	MW43-0314	N	Alkalinity, Total (as CaCO3)	10.0	690 =	690	MG/L	
A2320/NONE	WG	MW43-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	690 =	690	MG/L	
A2320/NONE	WG	MW44-0314	N	Alkalinity, Total (as CaCO3)	10.0	640 =	640	MG/L	
A2320/NONE	WG	MW44-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	640 =	640	MG/L	
A2320/NONE	WG	MW49-0314	N	Alkalinity, Total (as CaCO3)	10.0	890 =	890	MG/L	
A2320/NONE	WG	MW49-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	890 =	890	MG/L	
A2320/NONE	WG	MW56-0314	N	Alkalinity, Total (as CaCO3)	10.0	610 =	610	MG/L	
A2320/NONE	WG	MW56-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	610 =	610	MG/L	
A2320/NONE	WG	MW934-0314	FD	Alkalinity, Total (as CaCO3)	10.0	900 =	900	MG/L	
A2320/NONE	WG	MW934-0314	FD	Alkalinity, Bicarbonate (as CaCO3)	10.0	900 =	900	MG/L	
A2320/NONE	WG	SAIA-MW1A-0314	N	Alkalinity, Total (as CaCO3)	10.0	600 =	600	MG/L	
A2320/NONE	WG	SAIA-MW1A-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	600 =	600	MG/L	
A2320/NONE	WG	SAIA-MW1B-0314	N	Alkalinity, Total (as CaCO3)	10.0	610 =	610	MG/L	
A2320/NONE	WG	SAIA-MW1B-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	610 =	610	MG/L	
A2320/NONE	WG	SAIA-MW1C-0314	N	Alkalinity, Total (as CaCO3)	10.0	740 =	740	MG/L	
A2320/NONE	WG	SAIA-MW1C-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	740 =	740	MG/L	
A2320/NONE	WG	SAIA-MW2A-0314	N	Alkalinity, Total (as CaCO3)	10.0	780 =	780	MG/L	
A2320/NONE	WG	SAIA-MW2A-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	780 =	780	MG/L	
A2320/NONE	WG	SAIA-MW4C-0314	N	Alkalinity, Total (as CaCO3)	10.0	480 =	480	MG/L	
A2320/NONE	WG	SAIA-MW4C-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	480 =	480	MG/L	
A2320/NONE	WG	SAIA-MW5A-0314	N	Alkalinity, Total (as CaCO3)	10.0	830 =	830	MG/L	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
A2320/NONE	WG	SAIA-MW5A-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	830 =	830	MG/L	
A2320/NONE	WG	SAIA-MW5B-0314	N	Alkalinity, Total (as CaCO3)	10.0	630 =	630	MG/L	
A2320/NONE	WG	SAIA-MW5B-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	630 =	630	MG/L	
A2320/NONE	WG	SAIA-MW5C-0314	N	Alkalinity, Total (as CaCO3)	10.0	450 =	450	MG/L	
A2320/NONE	WG	SAIA-MW5C-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	450 =	450	MG/L	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E300/NONE	WG	MW34-0314	N	Chloride	1.0	40.0 =	40.0	MG/L	
E300/NONE	WG	MW34-0314	N	Sulfate (as SO4)	10.0	400 =	400	MG/L	
E300/NONE	WG	MW35-0314	N	Chloride	20.0	170 =	170	MG/L	
E300/NONE	WG	MW35-0314	N	Sulfate (as SO4)	50.0	3600 =	3600	MG/L	
E300/NONE	WG	MW42-0314	N	Chloride	1.0	46.0 =	46.0	MG/L	
E300/NONE	WG	MW42-0314	N	Sulfate (as SO4)	5.0	190 =	190	MG/L	
E300/NONE	WG	MW43-0314	N	Chloride	20.0	140 =	140	MG/L	
E300/NONE	WG	MW43-0314	N	Sulfate (as SO4)	50.0	2800 =	2800	MG/L	
E300/NONE	WG	MW44-0314	N	Chloride	20.0	150 =	150	MG/L	
E300/NONE	WG	MW44-0314	N	Sulfate (as SO4)	50.0	3400 =	3400	MG/L	
E300/NONE	WG	MW49-0314	N	Chloride	20.0	170 =	170	MG/L	
E300/NONE	WG	MW49-0314	N	Sulfate (as SO4)	50.0	3000 =	3000	MG/L	
E300/NONE	WG	MW56-0314	N	Chloride	20.0	84.0 =	84.0	MG/L	
E300/NONE	WG	MW56-0314	N	Sulfate (as SO4)	10.0	400 =	400	MG/L	
E300/NONE	WG	MW934-0314	FD	Chloride	1.0	40.0 =	40.0	MG/L	
E300/NONE	WG	MW934-0314	FD	Sulfate (as SO4)	10.0	400 =	400	MG/L	
E300/NONE	WQ	SAIA-EL02-0314	EB	Sulfate (as SO4)	0.50	0.41 J,C1	0.41 J	MG/L	TR
E300/NONE	WG	SAIA-MW1A-0314	N	Chloride	10.0	53.0 =	53.0	MG/L	
E300/NONE	WG	SAIA-MW1A-0314	N	Sulfate (as SO4)	5.0	180 =	180	MG/L	
E300/NONE	WG	SAIA-MW1B-0314	N	Chloride	20.0	580 =	580	MG/L	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E300/NONE	WG	SAIA-MW1B-0314	N	Sulfate (as SO4)	50.0	1200 =	1200	MG/L	
E300/NONE	WG	SAIA-MW1C-0314	N	Chloride	10.0	120 =	120	MG/L	
E300/NONE	WG	SAIA-MW1C-0314	N	Sulfate (as SO4)	50.0	3000 =	3000	MG/L	
E300/NONE	WG	SAIA-MW2A-0314	N	Chloride	1.0	26.0 =	26.0	MG/L	
E300/NONE	WG	SAIA-MW2A-0314	N	Sulfate (as SO4)	5.0	100 =	100	MG/L	
E300/NONE	WG	SAIA-MW4C-0314	N	Chloride	50.0	510 =	510	MG/L	
E300/NONE	WG	SAIA-MW4C-0314	N	Sulfate (as SO4)	25.0	900 =	900	MG/L	
E300/NONE	WG	SAIA-MW5A-0314	N	Chloride	50.0	180 =	180	MG/L	
E300/NONE	WG	SAIA-MW5A-0314	N	Sulfate (as SO4)	25.0	1300 =	1300	MG/L	
E300/NONE	WG	SAIA-MW5B-0314	N	Chloride	50.0	150 =	150	MG/L	
E300/NONE	WG	SAIA-MW5B-0314	N	Sulfate (as SO4)	25.0	1200 =	1200	MG/L	
E300/NONE	WG	SAIA-MW5C-0314	N	Chloride	50.0	700 =	700	MG/L	
E300/NONE	WG	SAIA-MW5C-0314	N	Sulfate (as SO4)	25.0	1200 =	1200	MG/L	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E415.3/NONE	WG	MW34-0314	N	Total Organic Carbon	0.50	4.5 =	4.5	MG/L	
E415.3/NONE	WG	MW35-0314	N	Total Organic Carbon	0.50	5.5 =	5.5	MG/L	
E415.3/NONE	WG	MW42-0314	N	Total Organic Carbon	0.50	9.1 =	9.1	MG/L	
E415.3/NONE	WG	MW43-0314	N	Total Organic Carbon	0.50	5.4 =	5.4	MG/L	
E415.3/NONE	WG	MW44-0314	N	Total Organic Carbon	0.50	5.6 =	5.6	MG/L	
E415.3/NONE	WG	MW49-0314	N	Total Organic Carbon	0.50	3.7 =	3.7	MG/L	
E415.3/NONE	WG	MW56-0314	N	Total Organic Carbon	0.50	2.8 =	2.8	MG/L	
E415.3/NONE	WG	MW934-0314	FD	Total Organic Carbon	0.50	5.1 =	5.1	MG/L	
E415.3/NONE	WQ	SAIA-EL01-0314	EB	Total Organic Carbon	0.50	0.36 J,C1	0.36 J	MG/L	TR
E415.3/NONE	WQ	SAIA-EL02-0314	EB	Total Organic Carbon	0.50	0.26 J,C1	0.26 J	MG/L	TR
E415.3/NONE	WG	SAIA-MW1A-0314	N	Total Organic Carbon	0.50	23.0 =	23.0	MG/L	
E415.3/NONE	WG	SAIA-MW1B-0314	N	Total Organic Carbon	0.50	8.0 =	8.0	MG/L	

AUTOMATED DATA REVIEW SUMMARY for 14085A_INO

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E415.3/NONE	WG	SAIA-MW1C-0314	N	Total Organic Carbon	1.2	11.0 =	11.0	MG/L	
E415.3/NONE	WG	SAIA-MW2A-0314	N	Total Organic Carbon	0.50	23.0 =	23.0	MG/L	
E415.3/NONE	WG	SAIA-MW4C-0314	N	Total Organic Carbon	0.50	8.2 =	8.2	MG/L	
E415.3/NONE	WG	SAIA-MW5A-0314	N	Total Organic Carbon	0.50	5.2 =	5.2	MG/L	
E415.3/NONE	WG	SAIA-MW5B-0314	N	Total Organic Carbon	1.2	12.0 =	12.0	MG/L	
E415.3/NONE	WG	SAIA-MW5C-0314	N	Total Organic Carbon	0.50	7.3 =	7.3	MG/L	
E415.3/NONE	WG	SAIA-MW6A-0314	N	Total Organic Carbon	0.50	5.9 =	5.9	MG/L	

AUTOMATED DATA REVIEW SUMMARY for 14085A_INO

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for 14085A

Facility: Southern Avenue Industrial Area

TDS in Groundwater, March 2014

Guidance Document:

Contract Laboratory: U.S. EPA, Region 9 Lab, Richmond, CA

Field Contractor:

Data Review Contractor: Gilbane

SDG: 14085A, Certified - 4/22/2014 by wtse

QC Level: S1BVEM (Tier 1B)

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: April 21, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG 14085A

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
A2540C/NONE	15	4

AUTOMATED DATA REVIEW SUMMARY for 14085A

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by U.S. EPA, Region 9 Lab, Richmond, CA and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Equipment Blank
- Field Duplicate RPD
- Lab Replicate RPD
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Field Blank
- Initial Calibration Verification
- LCS Recovery
- Material Blank
- MS Recovery
- MS RPD
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for 14085A

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 0 results (0.00%) out of the 20 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked EPA R9 lab report and COC.

No data quality issues were noted. No data required qualification.

21-Apr-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for 14085A

Batch Report

AUTOMATED DATA REVIEW SUMMARY for 14085A

Batch Report

Test Method: A2540C; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B14C140	NA	NA	LABQC	WQ	LABQC	B14C140-BLK1	NA	1/1	27-Mar-2014 11:31 AM		27-Mar-2014 11:31 AM	LB
	NA	NA	LABQC	WQ	LABQC	B14C140-SRM1	NA	1/1	27-Mar-2014 11:31 AM		27-Mar-2014 11:31 AM	RM
	NA	NA	SAIA-MW4C	WG	SAIA-MW4C-0314	1403066-01	NA	1/1	25-Mar-2014 9:13 AM		27-Mar-2014 11:31 AM	N
	NA	NA	SAIA-MW5A	WG	SAIA-MW5A-0314	1403066-02	NA	1/1	25-Mar-2014 10:22 AM		27-Mar-2014 11:31 AM	N
	NA	NA	SAIA-MW5B	WG	SAIA-MW5B-0314	1403066-03	NA	1/1	25-Mar-2014 11:30 AM		27-Mar-2014 11:31 AM	N
	NA	NA	SAIA-MW5C	WG	SAIA-MW5C-0314	1403066-04	NA	1/1	25-Mar-2014 8:51 AM		27-Mar-2014 11:31 AM	N
B14D001	NA	NA	FIELDQC	WQ	SAIA-EL01-0314	1403071-01	NA	1/1	27-Mar-2014 12:30 PM		01-Apr-2014 9:05 AM	EB
	NA	NA	FIELDQC	WQ	SAIA-EL02-0314	1403070-08	NA	1/1	26-Mar-2014 10:50 AM		01-Apr-2014 9:05 AM	EB
	NA	NA	LABQC	WQ	LABQC	B14D001-BLK1	NA	1/1	01-Apr-2014 9:05 AM		01-Apr-2014 9:05 AM	LB
	NA	NA	LABQC	WQ	LABQC	B14D001-SRM1	NA	1/1	01-Apr-2014 9:05 AM		01-Apr-2014 9:05 AM	RM
	NA	NA	MW34	WG	MW34-0314	1403070-09	NA	1/1	26-Mar-2014 9:06 AM		01-Apr-2014 9:05 AM	N
	NA	NA	MW34	WG	MW934-0314	1403070-07	NA	1/1	26-Mar-2014 9:11 AM		01-Apr-2014 9:05 AM	FD
	NA	NA	MW35	WG	MW35-0314	1403070-01	NA	1/1	26-Mar-2014 10:15 AM		01-Apr-2014 9:05 AM	N
	NA	NA	MW42	WG	MW42-0314	B14D001-DUP1	NA	1/1	26-Mar-2014 11:55 AM		01-Apr-2014 9:05 AM	LR
	NA	NA	MW42	WG	MW42-0314	1403070-02	NA	1/1	26-Mar-2014 11:55 AM		01-Apr-2014 9:05 AM	N
	NA	NA	MW43	WG	MW43-0314	1403070-03	NA	1/1	26-Mar-2014 9:29 AM		01-Apr-2014 9:05 AM	N
	NA	NA	MW44	WG	MW44-0314	1403070-04	NA	1/1	26-Mar-2014 10:17 AM		01-Apr-2014 9:05 AM	N
	NA	NA	MW49	WG	MW49-0314	1403070-05	NA	1/1	26-Mar-2014 7:57 AM		01-Apr-2014 9:05 AM	N
	NA	NA	MW56	WG	MW56-0314	1403070-06	NA	1/1	26-Mar-2014 8:03 AM		01-Apr-2014 9:05 AM	N
	NA	NA	SAIA-MW1A	WG	SAIA-MW1A-0314	1403071-02	NA	1/1	27-Mar-2014 9:55 AM		01-Apr-2014 9:05 AM	N
	NA	NA	SAIA-MW1B	WG	SAIA-MW1B-0314	1403071-03	NA	1/1	27-Mar-2014 9:02 AM		01-Apr-2014 9:05 AM	N
	NA	NA	SAIA-MW1C	WG	SAIA-MW1C-0314	1403071-04	NA	1/1	27-Mar-2014 8:05 AM		01-Apr-2014 9:05 AM	N

AUTOMATED DATA REVIEW SUMMARY for 14085A

Batch Report

Test Method: A2540C; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B14D001	NA	NA	SAIA-MW2A	WG	SAIA-MW2A-0314	1403071-05	NA	1/1	27-Mar-2014 10:02 AM		01-Apr-2014 9:05 AM	N

AUTOMATED DATA REVIEW SUMMARY for 14085A

Field Batch Report

Test Method: A2540C		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
27031401			FIELDQC	WQ	SAIA-EL01-0314	1403071-01	3/27/2014 12:30:00 PM	EB
27031401			SAIA-MW1A	WG	SAIA-MW1A-0314	1403071-02	3/27/2014 9:55:00 AM	N
27031401			SAIA-MW1B	WG	SAIA-MW1B-0314	1403071-03	3/27/2014 9:02:00 AM	N
27031401			SAIA-MW1C	WG	SAIA-MW1C-0314	1403071-04	3/27/2014 8:05:00 AM	N
27031401			SAIA-MW2A	WG	SAIA-MW2A-0314	1403071-05	3/27/2014 10:02:00 AM	N

Test Method: A2540C		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
26031401			FIELDQC	WQ	SAIA-EL02-0314	1403070-08	3/26/2014 10:50:00 AM	EB
26031401			MW34	WG	MW34-0314	1403070-09	3/26/2014 9:06:00 AM	N
26031401			MW34	WG	MW934-0314	1403070-07	3/26/2014 9:11:00 AM	FD
26031401			MW35	WG	MW35-0314	1403070-01	3/26/2014 10:15:00 AM	N
26031401			MW42	WG	MW42-0314	1403070-02	3/26/2014 11:55:00 AM	N
26031401			MW42	WG	MW42-0314	B14D001-DUP1	3/26/2014 11:55:00 AM	LR
26031401			MW43	WG	MW43-0314	1403070-03	3/26/2014 9:29:00 AM	N
26031401			MW44	WG	MW44-0314	1403070-04	3/26/2014 10:17:00 AM	N
26031401			MW49	WG	MW49-0314	1403070-05	3/26/2014 7:57:00 AM	N
26031401			MW56	WG	MW56-0314	1403070-06	3/26/2014 8:03:00 AM	N

QC Outlier Report

--No Records Found--

Qualified Results

--No Records Found--

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
A2540C/NONE	WG	MW34-0314	N	Total Dissolved Solids	20.0	1600 =	1600	MG/L	
A2540C/NONE	WG	MW35-0314	N	Total Dissolved Solids	20.0	6000 =	6000	MG/L	
A2540C/NONE	WG	MW42-0314	N	Total Dissolved Solids	20.0	1300 =	1300	MG/L	
A2540C/NONE	WG	MW43-0314	N	Total Dissolved Solids	20.0	4800 =	4800	MG/L	
A2540C/NONE	WG	MW44-0314	N	Total Dissolved Solids	20.0	5700 =	5700	MG/L	
A2540C/NONE	WG	MW49-0314	N	Total Dissolved Solids	20.0	5300 =	5300	MG/L	
A2540C/NONE	WG	MW56-0314	N	Total Dissolved Solids	20.0	1300 =	1300	MG/L	
A2540C/NONE	WG	MW934-0314	FD	Total Dissolved Solids	20.0	1600 =	1600	MG/L	
A2540C/NONE	WG	SAIA-MW1A-0314	N	Total Dissolved Solids	20.0	1000 =	1000	MG/L	
A2540C/NONE	WG	SAIA-MW1B-0314	N	Total Dissolved Solids	20.0	3300 =	3300	MG/L	
A2540C/NONE	WG	SAIA-MW1C-0314	N	Total Dissolved Solids	20.0	5100 =	5100	MG/L	
A2540C/NONE	WG	SAIA-MW2A-0314	N	Total Dissolved Solids	20.0	1000 =	1000	MG/L	
A2540C/NONE	WG	SAIA-MW4C-0314	N	Total Dissolved Solids	20.0	2600 =	2600	MG/L	
A2540C/NONE	WG	SAIA-MW5A-0314	N	Total Dissolved Solids	20.0	3000 =	3000	MG/L	
A2540C/NONE	WG	SAIA-MW5B-0314	N	Total Dissolved Solids	20.0	2600 =	2600	MG/L	
A2540C/NONE	WG	SAIA-MW5C-0314	N	Total Dissolved Solids	20.0	3300 =	3300	MG/L	

AUTOMATED DATA REVIEW SUMMARY for 14085A

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for 14085A_PCATE

Facility: Southern Avenue Industrial Area

Guidance Document: Perchlorate in Groundwater, March 2014

Contract Laboratory: U.S. EPA, Region 9 Lab, Richmond, CA

Field Contractor:

Data Review Contractor: Gilbane

SDG: 14085A_PCATE, Certified - 4/22/2014 by wtse

QC Level: S1BVEM (Tier 1B)

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: April 21, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG 14085A_PCATE

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
E331.0/NONE	8	3

AUTOMATED DATA REVIEW SUMMARY for 14085A_PCATE

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by U.S. EPA, Region 9 Lab, Richmond, CA and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Equipment Blank
- Field Duplicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for 14085A_PCATE

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 0 results (0.00%) out of the 11 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked EPA R9 lab report and COC.

No data quality issues were noted. No data required qualification.

21-Apr-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for 14085A_PCATE

Batch Report

Test Method: E331.0; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
S14D028	B14D023	NA	FIELDQC	WQ	SAIA-EL01-0314	1403071-01	1404002	1/1	27-Mar-2014 12:30 PM	04-Apr-2014 10:19 AM	08-Apr-2014 2:53 PM	EB
	B14D023	NA	FIELDQC	WQ	SAIA-EL02-0314	1403070-08	1404002	1/1	26-Mar-2014 10:50 AM	04-Apr-2014 10:19 AM	08-Apr-2014 2:18 PM	EB
	B14D023	NA	LABQC	WQ	LABQC	B14D023-BS1	1404002	1/1	04-Apr-2014 10:19 AM	04-Apr-2014 10:19 AM	08-Apr-2014 12:55 PM	BS
	B14D023	NA	LABQC	WQ	LABQC	B14D023-BLK1	1404002	1/1	04-Apr-2014 10:19 AM	04-Apr-2014 10:19 AM	08-Apr-2014 12:43 PM	LB
	B14D023	NA	MW34	WG	MW34-0314	1403070-09	1404002	1/1	26-Mar-2014 9:06 AM	04-Apr-2014 10:19 AM	08-Apr-2014 2:41 PM	N
	B14D023	NA	MW34	WG	MW934-0314	1403070-07	1404002	1/1	26-Mar-2014 9:11 AM	04-Apr-2014 10:19 AM	08-Apr-2014 2:06 PM	FD
	B14D023	NA	MW42	WG	MW42-0314	B14D023-MS1	1404002	1/1	26-Mar-2014 11:55 AM	04-Apr-2014 10:19 AM	08-Apr-2014 1:19 PM	MS
	B14D023	NA	MW42	WG	MW42-0314	1403070-02	1404002	1/1	26-Mar-2014 11:55 AM	04-Apr-2014 10:19 AM	08-Apr-2014 1:07 PM	N
	B14D023	NA	MW42	WG	MW42-0314	B14D023-MSD1	1404002	1/1	26-Mar-2014 11:55 AM	04-Apr-2014 10:19 AM	08-Apr-2014 1:31 PM	SD
	B14D023	NA	MW43	WG	MW43-0314	1403070-03	1404002	1/1	26-Mar-2014 9:29 AM	04-Apr-2014 10:19 AM	08-Apr-2014 1:42 PM	N
	B14D023	NA	MW44	WG	MW44-0314	1403070-04	1404002	1/1	26-Mar-2014 10:17 AM	04-Apr-2014 10:19 AM	08-Apr-2014 1:54 PM	N
	B14D023	NA	SAIA-MW1A	WG	SAIA-MW1A-0314	1403071-02	1404002	1/1	27-Mar-2014 9:55 AM	04-Apr-2014 10:19 AM	08-Apr-2014 3:05 PM	N
	B14D023	NA	SAIA-MW1B	WG	SAIA-MW1B-0314	1403071-03	1404002	1/1	27-Mar-2014 9:02 AM	04-Apr-2014 10:19 AM	08-Apr-2014 3:17 PM	N
	B14D023	NA	SAIA-MW1C	WG	SAIA-MW1C-0314	1403071-04	1404002	1/1	27-Mar-2014 8:05 AM	04-Apr-2014 10:19 AM	08-Apr-2014 3:28 PM	N
	B14D023	NA	SAIA-MW2A	WG	SAIA-MW2A-0314	1403071-05	1404002	1/1	27-Mar-2014 10:02 AM	04-Apr-2014 10:19 AM	08-Apr-2014 3:40 PM	N

Field Batch Report

Test Method: E331.0		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
27031401			FIELDQC	WQ	SAIA-EL01-0314	1403071-01	3/27/2014 12:30:00 PM	EB
27031401			SAIA-MW1A	WG	SAIA-MW1A-0314	1403071-02	3/27/2014 9:55:00 AM	N
27031401			SAIA-MW1B	WG	SAIA-MW1B-0314	1403071-03	3/27/2014 9:02:00 AM	N
27031401			SAIA-MW1C	WG	SAIA-MW1C-0314	1403071-04	3/27/2014 8:05:00 AM	N
27031401			SAIA-MW2A	WG	SAIA-MW2A-0314	1403071-05	3/27/2014 10:02:00 AM	N

Test Method: E331.0		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
26031401			FIELDQC	WQ	SAIA-EL02-0314	1403070-08	3/26/2014 10:50:00 AM	EB
26031401			MW34	WG	MW34-0314	1403070-09	3/26/2014 9:06:00 AM	N
26031401			MW34	WG	MW934-0314	1403070-07	3/26/2014 9:11:00 AM	FD
26031401			MW42	WG	MW42-0314	1403070-02	3/26/2014 11:55:00 AM	N
26031401			MW42	WG	MW42-0314	B14D023-MS1	3/26/2014 11:55:00 AM	MS
26031401			MW42	WG	MW42-0314	B14D023-MSD1	3/26/2014 11:55:00 AM	SD
26031401			MW43	WG	MW43-0314	1403070-03	3/26/2014 9:29:00 AM	N
26031401			MW44	WG	MW44-0314	1403070-04	3/26/2014 10:17:00 AM	N

QC Outlier Report

--No Records Found--

Qualified Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for 14085A_PCATE

Detected Results

--No Records Found--

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for 14087A

Facility: Southern Avenue Industrial Area

TDS in Groundwater, March 2014

Guidance Document:

Contract Laboratory: U.S. EPA, Region 9 Lab, Richmond, CA

Field Contractor:

Data Review Contractor: Gilbane

SDG: 14087A, Certified - 4/18/2014 by wtse

QC Level: S1BVEM (Tier 1B)

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: April 21, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG 14087A

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
A2540C/NONE	3	2

AUTOMATED DATA REVIEW SUMMARY for 14087A

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by U.S. EPA, Region 9 Lab, Richmond, CA and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

Blank
Blank - Negative
Field Duplicate RPD
Lab Replicate RPD
Prep Hold Time
Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

Ambient Blank
Calibration Blank
Calibration Blank - Negative
Continuing Calibration Verification
Equipment Blank
Field Blank
Initial Calibration Verification
LCS Recovery
Material Blank
MS Recovery
MS RPD
Negative Blank
Surrogate
Trip Blank

AUTOMATED DATA REVIEW SUMMARY for 14087A

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 0 results (0.00%) out of the 5 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked EPA R9 lab report and COC.

No data quality issues were noted. No data required qualification.

21-Apr-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

Batch Report

Test Method: A2540C; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B14D001	NA	NA	LABQC	WQ	LABQC	B14D001-BLK1	NA	1/1	01-Apr-2014 9:05 AM		01-Apr-2014 9:05 AM	LB
	NA	NA	LABQC	WQ	LABQC	B14D001-SRM1	NA	1/1	01-Apr-2014 9:05 AM		01-Apr-2014 9:05 AM	RM
	NA	NA	SAIA-MW2B	WG	SAIA-MW2B-0314	1403072-01	NA	1/1	27-Mar-2014 9:08 AM		01-Apr-2014 9:05 AM	N
	NA	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	B14D001-DUP2	NA	1/1	27-Mar-2014 7:58 AM		01-Apr-2014 9:05 AM	LR
	NA	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	1403072-02	NA	1/1	27-Mar-2014 7:58 AM		01-Apr-2014 9:05 AM	N
	NA	NA	SAIA-MW7	WG	SAIA-MW7-0314	1403072-03	NA	1/1	27-Mar-2014 11:35 AM		01-Apr-2014 9:05 AM	N
	NA	NA	SAIA-MW7	WG	SAIA-MW97-0314	1403072-04	NA	1/1	27-Mar-2014 11:40 AM		01-Apr-2014 9:05 AM	FD

AUTOMATED DATA REVIEW SUMMARY for 14087A

Field Batch Report

--No Records Found--

QC Outlier Report

--No Records Found--

Qualified Results

--No Records Found--

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
A2540C/NONE	WG	SAIA-MW2B-0314	N	Total Dissolved Solids	20.0	3200 =	3200	MG/L	
A2540C/NONE	WG	SAIA-MW2C-0314	N	Total Dissolved Solids	20.0	5000 =	5000	MG/L	
A2540C/NONE	WG	SAIA-MW7-0314	N	Total Dissolved Solids	20.0	4800 =	4800	MG/L	
A2540C/NONE	WG	SAIA-MW97-0314	FD	Total Dissolved Solids	20.0	4700 =	4700	MG/L	

AUTOMATED DATA REVIEW SUMMARY for 14087A

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for 14087A_INO

Facility: Southern Avenue Industrial Area

Guidance Document: Alkalinity, Anions, and TOC, in Groundwater, March 2014

Contract Laboratory: U.S. EPA, Region 9 Lab, Richmond, CA

Field Contractor:

Data Review Contractor: Gilbane

SDG: 14087A_INO, Certified - 4/23/2014 by wtse

QC Level: S1BVEM (Tier 1B)

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: April 21, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG 14087A_INO

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
A2320/NONE	3	2
E300/NONE	3	1
E415.3/NONE	3	1

AUTOMATED DATA REVIEW SUMMARY for 14087A_INO

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by U.S. EPA, Region 9 Lab, Richmond, CA and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Material Blank
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for 14087A_INO

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 0 results (0.00%) out of the 29 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked EPA R9 lab report and COC.

No data quality issues were noted. No data required qualification.

21-Apr-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for 14087A_INO

Batch Report

Test Method: A2320; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B14D021	NA	NA	LABQC	WQ	LABQC	B14D021-BS1	NA	1/1	04-Apr-2014 8:05 AM		04-Apr-2014 8:05 AM	BS
	NA	NA	LABQC	WQ	LABQC	B14D021-BLK1	NA	1/1	04-Apr-2014 8:05 AM		04-Apr-2014 8:05 AM	LB
	NA	NA	LABQC	WQ	LABQC	B14D021-MRL1	NA	1/1	04-Apr-2014 8:05 AM		04-Apr-2014 8:05 AM	RM
	NA	NA	SAIA-MW2B	WG	SAIA-MW2B-0314	1403072-01	NA	1/1	27-Mar-2014 9:08 AM		04-Apr-2014 8:05 AM	N
	NA	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	B14D021-DUP1	NA	1/1	27-Mar-2014 7:58 AM		04-Apr-2014 8:05 AM	LR
	NA	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	1403072-02	NA	1/1	27-Mar-2014 7:58 AM		04-Apr-2014 8:05 AM	N
	NA	NA	SAIA-MW7	WG	SAIA-MW7-0314	1403072-03	NA	1/1	27-Mar-2014 11:35 AM		04-Apr-2014 8:05 AM	N
	NA	NA	SAIA-MW7	WG	SAIA-MW97-0314	1403072-04	NA	1/1	27-Mar-2014 11:40 AM		04-Apr-2014 8:05 AM	FD

AUTOMATED DATA REVIEW SUMMARY for 14087A_INO

Batch Report

Test Method: E300; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
S14D002	B14D002	NA	LABQC	WQ	LABQC	B14D002-BS1	1312009	1/1	01-Apr-2014 9:02 AM	01-Apr-2014 9:02 AM	01-Apr-2014 9:37 AM	BS
	B14D002	NA	LABQC	WQ	LABQC	B14D002-BLK1	1312009	1/1	01-Apr-2014 9:02 AM	01-Apr-2014 9:02 AM	01-Apr-2014 9:53 AM	LB
	B14D002	NA	LABQC	WQ	LABQC	B14D002-BLK2	1312009	1/1	01-Apr-2014 9:02 AM	01-Apr-2014 9:02 AM	01-Apr-2014 10:23 AM	LB
	B14D002	NA	SAIA-MW2B	WG	SAIA-MW2B-0314	1403072-01RE1	1312009	1/100	27-Mar-2014 9:08 AM	01-Apr-2014 9:02 AM	01-Apr-2014 8:41 PM	N
	B14D002	NA	SAIA-MW2B	WG	SAIA-MW2B-0314	1403072-01RE2	1312009	1/20	27-Mar-2014 9:08 AM	01-Apr-2014 9:02 AM	01-Apr-2014 8:56 PM	N
	B14D002	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	B14D002-DUP2	1312009	1/20	27-Mar-2014 7:58 AM	01-Apr-2014 9:02 AM	01-Apr-2014 5:36 PM	LR
	B14D002	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	1403072-02RE2	1312009	1/20	27-Mar-2014 7:58 AM	01-Apr-2014 9:02 AM	01-Apr-2014 5:21 PM	N
	B14D002	NA	SAIA-MW7	WG	SAIA-MW7-0314	1403072-03RE1	1312009	1/100	27-Mar-2014 11:35 AM	01-Apr-2014 9:02 AM	01-Apr-2014 9:12 PM	N
	B14D002	NA	SAIA-MW7	WG	SAIA-MW97-0314	1403072-04RE1	1312009	1/100	27-Mar-2014 11:40 AM	01-Apr-2014 9:02 AM	01-Apr-2014 9:42 PM	FD
S14D006	B14D008	NA	LABQC	WQ	LABQC	B14D008-BS1	1312009	1/1	02-Apr-2014 9:30 AM	02-Apr-2014 9:30 AM	02-Apr-2014 9:57 AM	BS
	B14D008	NA	LABQC	WQ	LABQC	B14D008-BLK1	1312009	1/1	02-Apr-2014 9:30 AM	02-Apr-2014 9:30 AM	02-Apr-2014 10:12 AM	LB
	B14D008	NA	LABQC	WQ	LABQC	B14D008-BLK2	1312009	1/1	02-Apr-2014 9:30 AM	02-Apr-2014 9:30 AM	02-Apr-2014 10:43 AM	LB
	B14D008	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	B14D008-DUP1	1312009	1/100	27-Mar-2014 7:58 AM	02-Apr-2014 9:30 AM	02-Apr-2014 11:14 AM	LR
	B14D008	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	1403072-02RE3	1312009	1/100	27-Mar-2014 7:58 AM	02-Apr-2014 9:30 AM	02-Apr-2014 10:58 AM	N

AUTOMATED DATA REVIEW SUMMARY for 14087A_INO

Batch Report

Test Method: E415.3; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
S14D043	B14D043	NA	LABQC	WQ	LABQC	B14D043-BS1	1402010	1/1	09-Apr-2014 10:45 AM	09-Apr-2014 10:45 AM	09-Apr-2014 6:36 PM	BS
	B14D043	NA	LABQC	WQ	LABQC	B14D043-BLK1	1402010	1/1	09-Apr-2014 10:45 AM	09-Apr-2014 10:45 AM	09-Apr-2014 5:31 PM	LB
	B14D043	NA	SAIA-MW2B	WG	SAIA-MW2B-0314	1403072-01	1402010	1/1	27-Mar-2014 9:08 AM	09-Apr-2014 10:45 AM	09-Apr-2014 7:07 PM	N
	B14D043	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	B14D043-MS1	1402010	1/1	27-Mar-2014 7:58 AM	09-Apr-2014 10:45 AM	09-Apr-2014 7:48 PM	MS
	B14D043	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	1403072-02	1402010	1/1	27-Mar-2014 7:58 AM	09-Apr-2014 10:45 AM	09-Apr-2014 7:26 PM	N
	B14D043	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	B14D043-MSD1	1402010	1/1	27-Mar-2014 7:58 AM	09-Apr-2014 10:45 AM	09-Apr-2014 8:10 PM	SD
	B14D043	NA	SAIA-MW7	WG	SAIA-MW7-0314	1403072-03	1402010	1/1	27-Mar-2014 11:35 AM	09-Apr-2014 10:45 AM	09-Apr-2014 8:38 PM	N
	B14D043	NA	SAIA-MW7	WG	SAIA-MW97-0314	1403072-04	1402010	1/1	27-Mar-2014 11:40 AM	09-Apr-2014 10:45 AM	09-Apr-2014 9:01 PM	FD

AUTOMATED DATA REVIEW SUMMARY for 14087A_INO

Field Batch Report

--No Records Found--

QC Outlier Report

--No Records Found--

Qualified Results

--No Records Found--

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
A2320/NONE	WG	SAIA-MW2B-0314	N	Alkalinity, Total (as CaCO3)	10.0	490 =	490	MG/L	
A2320/NONE	WG	SAIA-MW2B-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	490 =	490	MG/L	
A2320/NONE	WG	SAIA-MW2C-0314	N	Alkalinity, Total (as CaCO3)	10.0	700 =	700	MG/L	
A2320/NONE	WG	SAIA-MW2C-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	700 =	700	MG/L	
A2320/NONE	WG	SAIA-MW7-0314	N	Alkalinity, Total (as CaCO3)	10.0	420 =	420	MG/L	
A2320/NONE	WG	SAIA-MW7-0314	N	Alkalinity, Bicarbonate (as CaCO3)	10.0	420 =	420	MG/L	
A2320/NONE	WG	SAIA-MW97-0314	FD	Alkalinity, Total (as CaCO3)	10.0	420 =	420	MG/L	
A2320/NONE	WG	SAIA-MW97-0314	FD	Alkalinity, Bicarbonate (as CaCO3)	10.0	420 =	420	MG/L	

AUTOMATED DATA REVIEW SUMMARY for 14087A_INO

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E300/NONE	WG	SAIA-MW2B-0314	N	Chloride	20.0	320 =	320	MG/L	
E300/NONE	WG	SAIA-MW2B-0314	N	Sulfate (as SO4)	50.0	1500 =	1500	MG/L	
E300/NONE	WG	SAIA-MW2C-0314	N	Chloride	20.0	160 =	160	MG/L	
E300/NONE	WG	SAIA-MW2C-0314	N	Sulfate (as SO4)	50.0	2900 =	2900	MG/L	
E300/NONE	WG	SAIA-MW7-0314	N	Chloride	100	730 =	730	MG/L	
E300/NONE	WG	SAIA-MW7-0314	N	Sulfate (as SO4)	50.0	2100 =	2100	MG/L	
E300/NONE	WG	SAIA-MW97-0314	FD	Chloride	100	740 =	740	MG/L	
E300/NONE	WG	SAIA-MW97-0314	FD	Sulfate (as SO4)	50.0	2200 =	2200	MG/L	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E415.3/NONE	WG	SAIA-MW2B-0314	N	Total Organic Carbon	0.50	6.4 =	6.4	MG/L	
E415.3/NONE	WG	SAIA-MW2C-0314	N	Total Organic Carbon	0.50	6.6 =	6.6	MG/L	
E415.3/NONE	WG	SAIA-MW7-0314	N	Total Organic Carbon	0.50	4.0 =	4.0	MG/L	
E415.3/NONE	WG	SAIA-MW97-0314	FD	Total Organic Carbon	0.50	3.9 =	3.9	MG/L	

AUTOMATED DATA REVIEW SUMMARY for 14087A_INO

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for 14087A_PCATE

Facility: Southern Avenue Industrial Area

Guidance Document: Perchlorate in Groundwater, March 2014

Contract Laboratory: U.S. EPA, Region 9 Lab, Richmond, CA

Field Contractor:

Data Review Contractor: Gilbane

SDG: 14087A_PCATE, Certified - 4/22/2014 by wtse

QC Level: S1BVEM (Tier 1B)

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: April 21, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG 14087A_PCATE

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
E331.0/NONE	3	1

AUTOMATED DATA REVIEW SUMMARY for 14087A_PCATE

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by U.S. EPA, Region 9 Lab, Richmond, CA and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for 14087A_PCATE

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 0 results (0.00%) out of the 4 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked EPA R9 lab report and COC.

No data quality issues were noted. No data required qualification.

21-Apr-2015

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for 14087A_PCATE

Batch Report

Test Method: E331.0; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
S14D028	B14D023	NA	LABQC	WQ	LABQC	B14D023-BS1	1404002	1/1	04-Apr-2014 10:19 AM	04-Apr-2014 10:19 AM	08-Apr-2014 12:55 PM	BS
	B14D023	NA	LABQC	WQ	LABQC	B14D023-BLK1	1404002	1/1	04-Apr-2014 10:19 AM	04-Apr-2014 10:19 AM	08-Apr-2014 12:43 PM	LB
	B14D023	NA	SAIA-MW2B	WG	SAIA-MW2B-0314	1403072-01	1404002	1/1	27-Mar-2014 9:08 AM	04-Apr-2014 10:19 AM	08-Apr-2014 3:52 PM	N
	B14D023	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	B14D023-MS2	1404002	1/1	27-Mar-2014 7:58 AM	04-Apr-2014 10:19 AM	08-Apr-2014 4:16 PM	MS
	B14D023	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	1403072-02	1404002	1/1	27-Mar-2014 7:58 AM	04-Apr-2014 10:19 AM	08-Apr-2014 4:04 PM	N
	B14D023	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	B14D023-MSD2	1404002	1/1	27-Mar-2014 7:58 AM	04-Apr-2014 10:19 AM	08-Apr-2014 4:27 PM	SD
	B14D023	NA	SAIA-MW7	WG	SAIA-MW7-0314	1403072-03	1404002	1/1	27-Mar-2014 11:35 AM	04-Apr-2014 10:19 AM	08-Apr-2014 4:51 PM	N
	B14D023	NA	SAIA-MW7	WG	SAIA-MW97-0314	1403072-04	1404002	1/1	27-Mar-2014 11:40 AM	04-Apr-2014 10:19 AM	08-Apr-2014 5:03 PM	FD

AUTOMATED DATA REVIEW SUMMARY for 14087A_PCATE

Field Batch Report

--No Records Found--

QC Outlier Report

--No Records Found--

Qualified Results

--No Records Found--

Detected Results

--No Records Found--

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for YA809

Facility: Southern Avenue Industrial Area

New Wells Groundwater Sampling, September 2016

Guidance Document:

Contract Laboratory: EUROFINS SPECTRUM ANALYTICAL, INC., NORTH KINGSTON, RI

Field Contractor:

Data Review Contractor: Gilbane

SDG: YA809, Certified - 10/18/2016 by wtse

QC Level: Tier 1B (S2BVEM)

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: March 03, 2017

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG YA809

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
BNASIM/NONE	8	2
CVOL/NONE	8	4

AUTOMATED DATA REVIEW SUMMARY for YA809

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by EUROFINS SPECTRUM ANALYTICAL, INC., NORTH KINGSTON, RI and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Ambient Blank
- Blank
- Blank - Negative
- Equipment Blank
- Lab Replicate RPD
- LCS Recovery
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Field Blank
- Field Duplicate
- Initial Calibration Verification
- Material Blank
- MS Recovery
- MS RPD
- Negative Blank

AUTOMATED DATA REVIEW SUMMARY for YA809

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 12 results (1.89%) out of the 634 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked CLP lab report case narrative, EXES summary QC report, COC as received, and Tier 3 validation report for SDG YA813

One cooler received at elevated temperature but no data qualifiers warranted. No calibration issues noted.

VOCs data qualified for field rinse blank detect (K1), and an ambient blank detect (K2). 1,4-dioxane data qualified for poor DMC recovery (S) and LCS anomalies (L).

Based on SDG YA813 Tier 3 report, all 1,4-dioxane results changed and data qualified for re-run out of hold time (H2). Re-run needed due to LCS spike added instead of DMC.

03-Mar-2017

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	The analyte was found in an associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field duplicate precision
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for YA809

Batch Report

AUTOMATED DATA REVIEW SUMMARY for YA809

Batch Report

Test Method: BNASIM; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
S3J7724.D	2646	NA	FIELDQC	WQ	SAIA-EL01-0916	501150206	S3J7704A.D	1/1	20-Sep-2016 7:35 AM	27-Sep-2016 8:22 AM	08-Oct-2016 10:30 PM	EB
	2646	NA	FIELDQC	WQ	SAIA-FL01-0916	501150205	S3J7704A.D	1/1	20-Sep-2016 7:30 AM	27-Sep-2016 8:22 AM	08-Oct-2016 10:19 PM	AB
	2646	NA	LABQC	WQ	LABQC	24392LCS	S3J7704A.D	1/1	27-Sep-2016 8:22 AM	27-Sep-2016 8:22 AM	08-Oct-2016 9:23 PM	BS
	2646	NA	LABQC	WQ	LABQC	24391MB	S3J7704A.D	1/1	27-Sep-2016 8:22 AM	27-Sep-2016 8:22 AM	08-Oct-2016 9:12 PM	LB
	2646	NA	SAIA-MW10	WG	SAIA-MW10-0916	501150204	S3J7704A.D	1/1	20-Sep-2016 11:56 AM	27-Sep-2016 8:22 AM	08-Oct-2016 10:08 PM	N
	2646	NA	SAIA-MW12A	WG	SAIA-MW12A-0916	501150208	S3J7704A.D	1/1	21-Sep-2016 10:15 AM	27-Sep-2016 8:22 AM	08-Oct-2016 10:42 PM	N
	2646	NA	SAIA-MW12B	WG	SAIA-MW12B-0916	501150209	S3J7704A.D	1/1	21-Sep-2016 10:51 AM	27-Sep-2016 8:22 AM	08-Oct-2016 10:53 PM	N
	2646	NA	SAIA-MW12C	WG	SAIA-MW12C-0916	501150210	S3J7704A.D	1/1	21-Sep-2016 12:10 PM	27-Sep-2016 8:22 AM	08-Oct-2016 11:04 PM	N
	2646	NA	SAIA-MW13	WG	SAIA-MW13-0916	501150211	S3J7704A.D	1/1	21-Sep-2016 9:21 AM	27-Sep-2016 8:22 AM	08-Oct-2016 11:15 PM	N
	2646	NA	SAIA-MW9A	WG	SAIA-MW9A-0916	501150201	S3J7704A.D	1/1	20-Sep-2016 9:05 AM	27-Sep-2016 8:22 AM	08-Oct-2016 9:34 PM	N
	2646	NA	SAIA-MW9B	WG	SAIA-MW9B-0916	501150202	S3J7704A.D	1/1	20-Sep-2016 9:49 AM	27-Sep-2016 8:22 AM	08-Oct-2016 9:45 PM	N
	2646	NA	SAIA-MW9C	WG	SAIA-MW9C-0916	501150203	S3J7704A.D	1/1	20-Sep-2016 10:57 AM	27-Sep-2016 8:22 AM	08-Oct-2016 9:56 PM	N
S3J7790.D	2646	NA	FIELDQC	WQ	SAIA-EL01-0916	501150206	S3J7704A.D	1/1	20-Sep-2016 7:35 AM	27-Sep-2016 8:22 AM	12-Oct-2016 2:42 PM	LR
	2646	NA	FIELDQC	WQ	SAIA-FL01-0916	501150205	S3J7704A.D	1/1	20-Sep-2016 7:30 AM	27-Sep-2016 8:22 AM	12-Oct-2016 2:31 PM	LR
	2646	NA	SAIA-MW10	WG	SAIA-MW10-0916	501150204	S3J7704A.D	1/1	20-Sep-2016 11:56 AM	27-Sep-2016 8:22 AM	12-Oct-2016 2:20 PM	LR
	2646	NA	SAIA-MW12A	WG	SAIA-MW12A-0916	501150208	S3J7704A.D	1/1	21-Sep-2016 10:15 AM	27-Sep-2016 8:22 AM	12-Oct-2016 2:53 PM	LR
	2646	NA	SAIA-MW12B	WG	SAIA-MW12B-0916	501150209	S3J7704A.D	1/1	21-Sep-2016 10:51 AM	27-Sep-2016 8:22 AM	12-Oct-2016 3:04 PM	LR
	2646	NA	SAIA-MW12C	WG	SAIA-MW12C-0916	501150210	S3J7704A.D	1/1	21-Sep-2016 12:10 PM	27-Sep-2016 8:22 AM	12-Oct-2016 3:15 PM	LR
	2646	NA	SAIA-MW13	WG	SAIA-MW13-0916	501150211	S3J7704A.D	1/1	21-Sep-2016 9:21 AM	27-Sep-2016 8:22 AM	12-Oct-2016 3:25 PM	LR
	2646	NA	SAIA-MW9A	WG	SAIA-MW9A-0916	501150201	S3J7704A.D	1/1	20-Sep-2016 9:05 AM	27-Sep-2016 8:22 AM	12-Oct-2016 1:47 PM	LR
	2646	NA	SAIA-MW9B	WG	SAIA-MW9B-0916	501150202	S3J7704A.D	1/1	20-Sep-2016 9:49 AM	27-Sep-2016 8:22 AM	12-Oct-2016 1:58 PM	LR
	2646	NA	SAIA-MW9C	WG	SAIA-MW9C-0916	501150203	S3J7704A.D	1/1	20-Sep-2016 10:57 AM	27-Sep-2016 8:22 AM	12-Oct-2016 2:09 PM	LR

AUTOMATED DATA REVIEW SUMMARY for YA809

Batch Report

Test Method: BNASIM; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
S3J7790.D	2815	NA	LABQC	WQ	LABQC	26275LCS	S3J7704A.D	1/1	11-Oct-2016 11:06 AM	11-Oct-2016 11:06 AM	12-Oct-2016 1:37 PM	BS
	2815	NA	LABQC	WQ	LABQC	26274MB	S3J7704A.D	1/1	11-Oct-2016 11:06 AM	11-Oct-2016 11:06 AM	12-Oct-2016 1:29 PM	LB

AUTOMATED DATA REVIEW SUMMARY for YA809

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
V5Q9708.D	V5Q9711.D	NA	FIELDQC	WQ	SAIA-EL01-0916	501150206	V5Q9698.D	1/1	20-Sep-2016 7:35 AM	24-Sep-2016 5:59 PM	24-Sep-2016 5:59 PM	EB
	V5Q9711.D	NA	FIELDQC	WQ	SAIA-RL01-0916	501150207	V5Q9698.D	1/1	20-Sep-2016 7:25 AM	24-Sep-2016 6:26 PM	24-Sep-2016 6:26 PM	TB
	V5Q9711.D	NA	LABQC	WQ	LABQC	24062MB	V5Q9698.D	1/1	24-Sep-2016 2:01 PM	24-Sep-2016 2:01 PM	24-Sep-2016 2:01 PM	LB
	V5Q9711.D	NA	SAIA-MW10	WG	SAIA-MW10-0916	501150204	V5Q9698.D	1/1	20-Sep-2016 11:56 AM	24-Sep-2016 5:06 PM	24-Sep-2016 5:06 PM	N
	V5Q9711.D	NA	SAIA-MW12A	WG	SAIA-MW12A-0916	501150208	V5Q9698.D	1/1	21-Sep-2016 10:15 AM	24-Sep-2016 6:53 PM	24-Sep-2016 6:53 PM	N
	V5Q9711.D	NA	SAIA-MW12B	WG	SAIA-MW12B-0916	501150209	V5Q9698.D	1/1	21-Sep-2016 10:51 AM	24-Sep-2016 7:20 PM	24-Sep-2016 7:20 PM	N
	V5Q9711.D	NA	SAIA-MW12C	WG	SAIA-MW12C-0916	501150210	V5Q9698.D	1/1	21-Sep-2016 12:10 PM	24-Sep-2016 7:47 PM	24-Sep-2016 7:47 PM	N
	V5Q9711.D	NA	SAIA-MW13	WG	SAIA-MW13-0916	501150211	V5Q9698.D	1/1	21-Sep-2016 9:21 AM	24-Sep-2016 8:14 PM	24-Sep-2016 8:14 PM	N
	V5Q9711.D	NA	SAIA-MW9A	WG	SAIA-MW9A-0916	501150201	V5Q9698.D	1/1	20-Sep-2016 9:05 AM	24-Sep-2016 3:45 PM	24-Sep-2016 3:45 PM	N
	V5Q9711.D	NA	SAIA-MW9B	WG	SAIA-MW9B-0916	501150202	V5Q9698.D	1/1	20-Sep-2016 9:49 AM	24-Sep-2016 4:12 PM	24-Sep-2016 4:12 PM	N
	V5Q9711.D	NA	SAIA-MW9C	WG	SAIA-MW9C-0916	501150203	V5Q9698.D	1/1	20-Sep-2016 10:57 AM	24-Sep-2016 4:39 PM	24-Sep-2016 4:39 PM	N
V5Q9749.D	V5Q9711.D	NA	SAIA-MW10	WG	SAIA-MW10-0916	501150204	V5Q9698.D	1/40	20-Sep-2016 11:56 AM	24-Sep-2016 5:06 PM	26-Sep-2016 4:45 PM	LR
	V5Q9711.D	NA	SAIA-MW10	WG	SAIA-MW10-0916	501150204	V5Q9698.D	1/40	20-Sep-2016 11:56 AM	24-Sep-2016 5:06 PM	26-Sep-2016 4:45 PM	N
	V5Q9711.D	NA	SAIA-MW13	WG	SAIA-MW13-0916	501150211	V5Q9698.D	1/20	21-Sep-2016 9:21 AM	24-Sep-2016 8:14 PM	26-Sep-2016 5:12 PM	LR
	V5Q9711.D	NA	SAIA-MW13	WG	SAIA-MW13-0916	501150211	V5Q9698.D	1/20	21-Sep-2016 9:21 AM	24-Sep-2016 8:14 PM	26-Sep-2016 5:12 PM	N
	V5Q9711.D	NA	SAIA-MW9C	WG	SAIA-MW9C-0916	501150203	V5Q9698.D	1/40	20-Sep-2016 10:57 AM	24-Sep-2016 4:39 PM	26-Sep-2016 4:17 PM	LR
	V5Q9711.D	NA	SAIA-MW9C	WG	SAIA-MW9C-0916	501150203	V5Q9698.D	1/40	20-Sep-2016 10:57 AM	24-Sep-2016 4:39 PM	26-Sep-2016 4:17 PM	N
	V5Q9751.D	NA	FIELDQC	WQ	SAIA-FL01-0916	501150205	V5Q9698.D	1/1	20-Sep-2016 7:30 AM	26-Sep-2016 2:57 PM	26-Sep-2016 2:57 PM	AB
	V5Q9751.D	NA	FIELDQC	WQ	SAIA-RL02-0916	501150212	V5Q9698.D	1/1	21-Sep-2016 8:00 AM	26-Sep-2016 3:50 PM	26-Sep-2016 3:50 PM	TB
	V5Q9751.D	NA	LABQC	WQ	LABQC	24436MB	V5Q9698.D	1/1	26-Sep-2016 2:30 PM	26-Sep-2016 2:30 PM	26-Sep-2016 2:30 PM	LB
	V5Q9751.D	NA	LABQC	WQ	LABQC	24437SB	V5Q9698.D	1/1	26-Sep-2016 5:39 PM	26-Sep-2016 5:39 PM	26-Sep-2016 5:39 PM	LB

Field Batch Report

Test Method: BNASIM		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
20091601			FIELDQC	WQ	SAIA-EL01-0916	501150206	9/20/2016 7:35:00 AM	EB
20091601			SAIA-MW10	WG	SAIA-MW10-0916	501150204	9/20/2016 11:56:00 AM	LR
20091601			SAIA-MW10	WG	SAIA-MW10-0916	501150204	9/20/2016 11:56:00 AM	N
20091601			SAIA-MW9A	WG	SAIA-MW9A-0916	501150201	9/20/2016 9:05:00 AM	LR
20091601			SAIA-MW9A	WG	SAIA-MW9A-0916	501150201	9/20/2016 9:05:00 AM	N
20091601			SAIA-MW9B	WG	SAIA-MW9B-0916	501150202	9/20/2016 9:49:00 AM	LR
20091601			SAIA-MW9B	WG	SAIA-MW9B-0916	501150202	9/20/2016 9:49:00 AM	N
20091601			SAIA-MW9C	WG	SAIA-MW9C-0916	501150203	9/20/2016 10:57:00 AM	LR
20091601			SAIA-MW9C	WG	SAIA-MW9C-0916	501150203	9/20/2016 10:57:00 AM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
20091601			FIELDQC	WQ	SAIA-EL01-0916	501150206	9/20/2016 7:35:00 AM	EB
20091601			SAIA-MW10	WG	SAIA-MW10-0916	501150204	9/20/2016 11:56:00 AM	LR
20091601			SAIA-MW10	WG	SAIA-MW10-0916	501150204	9/20/2016 11:56:00 AM	N
20091601			SAIA-MW9A	WG	SAIA-MW9A-0916	501150201	9/20/2016 9:05:00 AM	N
20091601			SAIA-MW9B	WG	SAIA-MW9B-0916	501150202	9/20/2016 9:49:00 AM	N
20091601			SAIA-MW9C	WG	SAIA-MW9C-0916	501150203	9/20/2016 10:57:00 AM	LR
20091601			SAIA-MW9C	WG	SAIA-MW9C-0916	501150203	9/20/2016 10:57:00 AM	N
Test Method: BNASIM		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	21091601		SAIA-MW12A	WG	SAIA-MW12A-0916	501150208	9/21/2016 10:15:00 AM	LR
	21091601		SAIA-MW12A	WG	SAIA-MW12A-0916	501150208	9/21/2016 10:15:00 AM	N
	21091601		SAIA-MW12B	WG	SAIA-MW12B-0916	501150209	9/21/2016 10:51:00 AM	LR
	21091601		SAIA-MW12B	WG	SAIA-MW12B-0916	501150209	9/21/2016 10:51:00 AM	N

Field Batch Report

Test Method: BNASIM		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	21091601		SAIA-MW12C	WG	SAIA-MW12C-0916	501150210	9/21/2016 12:10:00 PM	LR
	21091601		SAIA-MW12C	WG	SAIA-MW12C-0916	501150210	9/21/2016 12:10:00 PM	N
	21091601		SAIA-MW13	WG	SAIA-MW13-0916	501150211	9/21/2016 9:21:00 AM	LR
	21091601		SAIA-MW13	WG	SAIA-MW13-0916	501150211	9/21/2016 9:21:00 AM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	21091601		FIELDQC	WQ	SAIA-RL02-0916	501150212	9/21/2016 8:00:00 AM	TB
	21091601		SAIA-MW12A	WG	SAIA-MW12A-0916	501150208	9/21/2016 10:15:00 AM	N
	21091601		SAIA-MW12B	WG	SAIA-MW12B-0916	501150209	9/21/2016 10:51:00 AM	N
	21091601		SAIA-MW12C	WG	SAIA-MW12C-0916	501150210	9/21/2016 12:10:00 PM	N
	21091601		SAIA-MW13	WG	SAIA-MW13-0916	501150211	9/21/2016 9:21:00 AM	LR
	21091601		SAIA-MW13	WG	SAIA-MW13-0916	501150211	9/21/2016 9:21:00 AM	N
Test Method: BNASIM		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	20091601		SAIA-MW10	WG	SAIA-MW10-0916	501150204	9/20/2016 11:56:00 AM	LR
	20091601		SAIA-MW10	WG	SAIA-MW10-0916	501150204	9/20/2016 11:56:00 AM	N
	20091601		SAIA-MW9A	WG	SAIA-MW9A-0916	501150201	9/20/2016 9:05:00 AM	LR
	20091601		SAIA-MW9A	WG	SAIA-MW9A-0916	501150201	9/20/2016 9:05:00 AM	N
	20091601		SAIA-MW9B	WG	SAIA-MW9B-0916	501150202	9/20/2016 9:49:00 AM	LR
	20091601		SAIA-MW9B	WG	SAIA-MW9B-0916	501150202	9/20/2016 9:49:00 AM	N
	20091601		SAIA-MW9C	WG	SAIA-MW9C-0916	501150203	9/20/2016 10:57:00 AM	LR
	20091601		SAIA-MW9C	WG	SAIA-MW9C-0916	501150203	9/20/2016 10:57:00 AM	N

AUTOMATED DATA REVIEW SUMMARY for YA809

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	20091601		FIELDQC	WQ	SAIA-RL01-0916	501150207	9/20/2016 7:25:00 AM	TB
	20091601		SAIA-MW10	WG	SAIA-MW10-0916	501150204	9/20/2016 11:56:00 AM	LR
	20091601		SAIA-MW10	WG	SAIA-MW10-0916	501150204	9/20/2016 11:56:00 AM	N
	20091601		SAIA-MW9A	WG	SAIA-MW9A-0916	501150201	9/20/2016 9:05:00 AM	N
	20091601		SAIA-MW9B	WG	SAIA-MW9B-0916	501150202	9/20/2016 9:49:00 AM	N
	20091601		SAIA-MW9C	WG	SAIA-MW9C-0916	501150203	9/20/2016 10:57:00 AM	LR
	20091601		SAIA-MW9C	WG	SAIA-MW9C-0916	501150203	9/20/2016 10:57:00 AM	N
Test Method: BNASIM		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
		20091601	FIELDQC	WQ	SAIA-FL01-0916	501150205	9/20/2016 7:30:00 AM	AB
		20091601	SAIA-MW10	WG	SAIA-MW10-0916	501150204	9/20/2016 11:56:00 AM	LR
		20091601	SAIA-MW10	WG	SAIA-MW10-0916	501150204	9/20/2016 11:56:00 AM	N
		20091601	SAIA-MW9A	WG	SAIA-MW9A-0916	501150201	9/20/2016 9:05:00 AM	LR
		20091601	SAIA-MW9A	WG	SAIA-MW9A-0916	501150201	9/20/2016 9:05:00 AM	N
		20091601	SAIA-MW9B	WG	SAIA-MW9B-0916	501150202	9/20/2016 9:49:00 AM	LR
		20091601	SAIA-MW9B	WG	SAIA-MW9B-0916	501150202	9/20/2016 9:49:00 AM	N
		20091601	SAIA-MW9C	WG	SAIA-MW9C-0916	501150203	9/20/2016 10:57:00 AM	LR
		20091601	SAIA-MW9C	WG	SAIA-MW9C-0916	501150203	9/20/2016 10:57:00 AM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
		20091601	FIELDQC	WQ	SAIA-FL01-0916	501150205	9/20/2016 7:30:00 AM	AB
		20091601	SAIA-MW10	WG	SAIA-MW10-0916	501150204	9/20/2016 11:56:00 AM	LR
		20091601	SAIA-MW10	WG	SAIA-MW10-0916	501150204	9/20/2016 11:56:00 AM	N
		20091601	SAIA-MW9A	WG	SAIA-MW9A-0916	501150201	9/20/2016 9:05:00 AM	N

AUTOMATED DATA REVIEW SUMMARY for YA809

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
		20091601	SAIA-MW9B	WG	SAIA-MW9B-0916	501150202	9/20/2016 9:49:00 AM	N
		20091601	SAIA-MW9C	WG	SAIA-MW9C-0916	501150203	9/20/2016 10:57:00 AM	LR
		20091601	SAIA-MW9C	WG	SAIA-MW9C-0916	501150203	9/20/2016 10:57:00 AM	N

AUTOMATED DATA REVIEW SUMMARY for YA809

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
BNASIM / SW3510C	Blank	24391MB (LB)	1 / 1.00	1,4-Dioxane (p-Dioxane)	1.10	ug/l	U/None	< 0.025	< 0.5	B1		1	1.10
BNASIM / SW3510C	LCS Recovery	24392LCS (BS)	1 / 1.00	1,4-Dioxane (p-Dioxane)	300	percent	J/None	64 - 144	10 - 154	L			
BNASIM / SW3510C	LCS Recovery	26275LCS (BS)	1 / 1.00	1,4-Dioxane (p-Dioxane)	52.0	percent	J/UJ	64 - 144	10 - 154	L			
BNASIM / SW3510C	Surrogate	SAIA-MW13-0916 (N)	1 / 1.00	1,4-Dioxane-d8	0.185	percent	J/R	40 - 150	10 - 160	S			
CVOL / METHOD	Ambient Blank	SAIA-FL01-0916 (AB)	1 / 1.00	Chloromethane	0.550	ug/l	U/None	< 0.057	< 0.5	A1		1	0.550
CVOL / METHOD	Equipment Blank	SAIA-EL01-0916 (EB)	1 / 1.00	Acetone	4.80	ug/l	U/None	< 1	< 5	K1		2	9.60

AUTOMATED DATA REVIEW SUMMARY for YA809

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	SAIA-MW10-0916	N	1,4-Dioxane (p-Dioxane)	0.50	0.50 B	1.1 J	ug/L	H2
BNASIM/NONE	WG	SAIA-MW12A-0916	N	1,4-Dioxane (p-Dioxane)	0.50	0.50 B	0.72 J	ug/L	H2
BNASIM/NONE	WG	SAIA-MW12B-0916	N	1,4-Dioxane (p-Dioxane)	0.50	0.50 B	1.0 J	ug/L	H2
BNASIM/NONE	WG	SAIA-MW12C-0916	N	1,4-Dioxane (p-Dioxane)	0.50	0.50 B	0.48 J	ug/L	H2/TR
BNASIM/NONE	WG	SAIA-MW13-0916	N	1,4-Dioxane (p-Dioxane)	0.50	1.2 B	0.22 J	ug/L	L/S/H2/TR
BNASIM/NONE	WG	SAIA-MW9A-0916	N	1,4-Dioxane (p-Dioxane)	0.50	6.5 B	5.5 J	ug/L	L/H2
BNASIM/NONE	WG	SAIA-MW9B-0916	N	1,4-Dioxane (p-Dioxane)	0.50	1.4 B	1.0 J	ug/L	L/H2
BNASIM/NONE	WG	SAIA-MW9C-0916	N	1,4-Dioxane (p-Dioxane)	0.50	2.6 B	2.1 J	ug/L	L/H2
Test Leach	**Matrix**	**FieldSample ID**	**Type**	**Analyte**	**RL**	**Lab Result**	**Qualified Result**	**Units**	**Reason**
CVOL/NONE	WQ	SAIA-EL01-0916	EB	Acetone	5.0	4.8 J	4.8 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW10-0916	N	1,1-Dichloroethane	0.50	0.32 J	0.32 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW10-0916	N	Chloromethane	0.50	0.66	0.66 J	ug/L	K2
CVOL/NONE	WG	SAIA-MW10-0916	N	Cyclohexane	0.50	0.21 J	0.21 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW10-0916	N	trans-1,2-Dichloroethene	20.0	19.0 JD	19.0 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW12A-0916	N	Acetone	5.0	5.3	5.3 J	ug/L	K1
CVOL/NONE	WG	SAIA-MW12A-0916	N	trans-1,2-Dichloroethene	0.50	0.35 J	0.35 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW12B-0916	N	trans-1,2-Dichloroethene	0.50	0.42 J	0.42 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW12C-0916	N	Acetone	5.0	9.0	9.0 J	ug/L	K1
CVOL/NONE	WG	SAIA-MW13-0916	N	1,1-Dichloroethene	0.50	0.47 J	0.47 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW13-0916	N	Chloromethane	0.50	0.31 J	0.50 U	ug/L	K2
CVOL/NONE	WG	SAIA-MW13-0916	N	Vinyl Chloride	0.50	0.36 J	0.36 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW9A-0916	N	cis-1,2-Dichloroethylene	0.50	0.30 J	0.30 J	ug/L	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	SAIA-MW10-0916	N	1,4-Dioxane (p-Dioxane)	0.50	0.50 B	1.1 J	ug/L	H2
BNASIM/NONE	WG	SAIA-MW12A-0916	N	1,4-Dioxane (p-Dioxane)	0.50	0.50 B	0.72 J	ug/L	H2
BNASIM/NONE	WG	SAIA-MW12B-0916	N	1,4-Dioxane (p-Dioxane)	0.50	0.50 B	1.0 J	ug/L	H2
BNASIM/NONE	WG	SAIA-MW12C-0916	N	1,4-Dioxane (p-Dioxane)	0.50	0.50 B	0.48 J	ug/L	H2/TR
BNASIM/NONE	WG	SAIA-MW13-0916	N	1,4-Dioxane (p-Dioxane)	0.50	1.2 B	0.22 J	ug/L	L/S/H2/TR
BNASIM/NONE	WG	SAIA-MW9A-0916	N	1,4-Dioxane (p-Dioxane)	0.50	6.5 B	5.5 J	ug/L	L/H2
BNASIM/NONE	WG	SAIA-MW9B-0916	N	1,4-Dioxane (p-Dioxane)	0.50	1.4 B	1.0 J	ug/L	L/H2
BNASIM/NONE	WG	SAIA-MW9C-0916	N	1,4-Dioxane (p-Dioxane)	0.50	2.6 B	2.1 J	ug/L	L/H2

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WQ	SAIA-EL01-0916	EB	Acetone	5.0	4.8 J	4.8 J	ug/L	TR
CVOL/NONE	WQ	SAIA-FL01-0916	AB	Chloromethane	0.50	0.55	0.55	ug/L	
CVOL/NONE	WG	SAIA-MW10-0916	N	Chloromethane	0.50	0.66	0.66 J	ug/L	K2
CVOL/NONE	WG	SAIA-MW10-0916	N	Cyclohexane	0.50	0.21 J	0.21 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW10-0916	N	1,1-Dichloroethane	0.50	0.32 J	0.32 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW10-0916	N	1,1-Dichloroethene	0.50	1.2	1.2	ug/L	
CVOL/NONE	WG	SAIA-MW10-0916	N	cis-1,2-Dichloroethylene	20.0	480 D	480	ug/L	
CVOL/NONE	WG	SAIA-MW10-0916	N	trans-1,2-Dichloroethene	20.0	19.0 JD	19.0 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW10-0916	N	Trichloroethene (TCE)	0.50	1.4	1.4	ug/L	
CVOL/NONE	WG	SAIA-MW10-0916	N	Vinyl Chloride	0.50	0.67	0.67	ug/L	
CVOL/NONE	WG	SAIA-MW12A-0916	N	Acetone	5.0	5.3	5.3 J	ug/L	K1
CVOL/NONE	WG	SAIA-MW12A-0916	N	cis-1,2-Dichloroethylene	0.50	1.5	1.5	ug/L	
CVOL/NONE	WG	SAIA-MW12A-0916	N	trans-1,2-Dichloroethene	0.50	0.35 J	0.35 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW12A-0916	N	tert-Butyl Methyl Ether (MTBE)	0.50	0.56	0.56	ug/L	
CVOL/NONE	WG	SAIA-MW12A-0916	N	Trichloroethene (TCE)	0.50	0.97	0.97	ug/L	
CVOL/NONE	WG	SAIA-MW12B-0916	N	cis-1,2-Dichloroethylene	0.50	1.7	1.7	ug/L	
CVOL/NONE	WG	SAIA-MW12B-0916	N	trans-1,2-Dichloroethene	0.50	0.42 J	0.42 J	ug/L	TR

AUTOMATED DATA REVIEW SUMMARY for YA809

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW12B-0916	N	tert-Butyl Methyl Ether (MTBE)	0.50	1.3	1.3	ug/L	
CVOL/NONE	WG	SAIA-MW12B-0916	N	Trichloroethene (TCE)	0.50	1.6	1.6	ug/L	
CVOL/NONE	WG	SAIA-MW12C-0916	N	Acetone	5.0	9.0	9.0 J	ug/L	K1
CVOL/NONE	WG	SAIA-MW12C-0916	N	cis-1,2-Dichloroethylene	0.50	8.0	8.0	ug/L	
CVOL/NONE	WG	SAIA-MW12C-0916	N	trans-1,2-Dichloroethene	0.50	0.67	0.67	ug/L	
CVOL/NONE	WG	SAIA-MW12C-0916	N	tert-Butyl Methyl Ether (MTBE)	0.50	0.51	0.51	ug/L	
CVOL/NONE	WG	SAIA-MW12C-0916	N	Trichloroethene (TCE)	0.50	1.5	1.5	ug/L	
CVOL/NONE	WG	SAIA-MW13-0916	N	Acetone	5.0	10.0	10.0	ug/L	
CVOL/NONE	WG	SAIA-MW13-0916	N	1,1-Dichloroethene	0.50	0.47 J	0.47 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW13-0916	N	cis-1,2-Dichloroethylene	10.0	250 D	250	ug/L	
CVOL/NONE	WG	SAIA-MW13-0916	N	trans-1,2-Dichloroethene	10.0	32.0 D	32.0	ug/L	
CVOL/NONE	WG	SAIA-MW13-0916	N	Trichloroethene (TCE)	0.50	2.0	2.0	ug/L	
CVOL/NONE	WG	SAIA-MW13-0916	N	Vinyl Chloride	0.50	0.36 J	0.36 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW9A-0916	N	cis-1,2-Dichloroethylene	0.50	0.30 J	0.30 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW9B-0916	N	cis-1,2-Dichloroethylene	0.50	18.0	18.0	ug/L	
CVOL/NONE	WG	SAIA-MW9B-0916	N	trans-1,2-Dichloroethene	0.50	1.4	1.4	ug/L	
CVOL/NONE	WG	SAIA-MW9B-0916	N	Trichloroethene (TCE)	0.50	1.4	1.4	ug/L	
CVOL/NONE	WG	SAIA-MW9C-0916	N	1,1-Dichloroethane	0.50	0.88	0.88	ug/L	
CVOL/NONE	WG	SAIA-MW9C-0916	N	1,1-Dichloroethene	0.50	0.82	0.82	ug/L	
CVOL/NONE	WG	SAIA-MW9C-0916	N	cis-1,2-Dichloroethylene	20.0	500 D	500	ug/L	
CVOL/NONE	WG	SAIA-MW9C-0916	N	trans-1,2-Dichloroethene	20.0	35.0 D	35.0	ug/L	
CVOL/NONE	WG	SAIA-MW9C-0916	N	Trichloroethene (TCE)	0.50	0.79	0.79	ug/L	
CVOL/NONE	WG	SAIA-MW9C-0916	N	Vinyl Chloride	0.50	0.71	0.71	ug/L	

AUTOMATED DATA REVIEW SUMMARY for YA809

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9DP8

Facility: Southern Avenue Industrial Area

Groundwater Sampling Event, March 2014

Guidance Document:

Contract Laboratory: CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ

Field Contractor:

Data Review Contractor: Gilbane

SDG: MY9DP8, Certified - 4/26/2014 by wtse

QC Level: S1BVEM

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: November 17, 2014

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG MY9DP8

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
E200.7/NONE	18	3
E200.8/NONE	18	3
SW7470A/NONE	18	3

AUTOMATED DATA REVIEW SUMMARY for MY9DP8

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Equipment Blank
- Field Duplicate RPD
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Field Blank
- Initial Calibration Verification
- Material Blank
- MS RPD
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for MY9DP8

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 44 results (9.11%) out of the 483 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Gilbane reviewed Chemtech lab report, COCs, case narrative, and EXES data review package.

No sample receipt issues or calibration anomalies were noted.

Qualifiers were added for field (K1) and lab blank (B2) detects.

LCS and negative blank QC outliers were resolved.

17-Nov-2014

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70326-CC	PB75661	NA	FIELDQC	WQ	SAIA-EL03-0314	F1763-21	LB70326-S0	1/1	25-Mar-2014 9:20 AM	27-Mar-2014 12:00 PM	27-Mar-2014 2:20 PM	EB
	PB75661	NA	FIELDQC	WQ	SAIA-EL03-0314	F1763-22	LB70326-S0	1/1	25-Mar-2014 9:20 AM	27-Mar-2014 12:00 PM	27-Mar-2014 2:30 PM	LR
	PB75661	NA	FIELDQC	WQ	SAIA-EL03-0314	F1763-23	LB70326-S0	1/1	25-Mar-2014 9:20 AM	27-Mar-2014 12:00 PM	27-Mar-2014 2:06 PM	MS
	PB75661	NA	LABQC	WQ	LABQC	PB75661BS	LB70326-S0	1/1	27-Mar-2014 9:30 AM	27-Mar-2014 9:30 AM	27-Mar-2014 11:57 AM	BS
	PB75661	NA	LABQC	WQ	LABQC	PB75661BL	LB70326-S0	1/1	27-Mar-2014 9:30 AM	27-Mar-2014 9:30 AM	27-Mar-2014 11:53 AM	LB
	PB75661	NA	MW45	WG	MW45-0314	F1763-12	LB70326-S0	1/1	25-Mar-2014 1:07 PM	27-Mar-2014 12:00 PM	27-Mar-2014 1:22 PM	N
	PB75661	NA	MW46	WG	MW46-0314	F1763-01	LB70326-S0	1/1	24-Mar-2014 11:42 AM	27-Mar-2014 12:00 PM	27-Mar-2014 12:29 PM	N
	PB75661	NA	MW47	WG	MW47-0314	F1763-11	LB70326-S0	1/1	24-Mar-2014 2:15 PM	27-Mar-2014 12:00 PM	27-Mar-2014 1:10 PM	N
	PB75661	NA	MW48	WG	MW48-0314	F1763-02	LB70326-S0	1/1	24-Mar-2014 12:37 PM	27-Mar-2014 12:00 PM	27-Mar-2014 12:33 PM	N
	PB75661	NA	MW52	WG	MW52-0314	F1763-13	LB70326-S0	1/1	25-Mar-2014 11:30 AM	27-Mar-2014 12:00 PM	27-Mar-2014 1:26 PM	N
	PB75661	NA	MW52	WG	MW952-0314	F1763-14	LB70326-S0	1/1	25-Mar-2014 11:35 AM	27-Mar-2014 12:00 PM	27-Mar-2014 1:30 PM	FD
	PB75661	NA	SAIA-MW3A	WG	SAIA-MW3A-0314	F1763-03	LB70326-S0	1/1	24-Mar-2014 10:52 AM	27-Mar-2014 12:00 PM	27-Mar-2014 12:37 PM	N
	PB75661	NA	SAIA-MW3B	WG	SAIA-MW3B-0314	F1763-04	LB70326-S0	1/1	24-Mar-2014 10:08 AM	27-Mar-2014 12:00 PM	27-Mar-2014 12:41 PM	N
	PB75661	NA	SAIA-MW3C	WG	SAIA-MW3C-0314	F1763-05	LB70326-S0	1/1	24-Mar-2014 9:02 AM	27-Mar-2014 12:00 PM	27-Mar-2014 12:45 PM	N
	PB75661	NA	SAIA-MW3C	WG	SAIA-MW93C-0314	F1763-06	LB70326-S0	1/1	24-Mar-2014 9:07 AM	27-Mar-2014 12:00 PM	27-Mar-2014 12:50 PM	FD
	PB75661	NA	SAIA-MW4A	WG	SAIA-MW4A-0314	F1763-15	LB70326-S0	1/1	25-Mar-2014 8:21 AM	27-Mar-2014 12:00 PM	27-Mar-2014 1:34 PM	N
	PB75661	NA	SAIA-MW4B	WG	SAIA-MW4B-0314	F1763-16	LB70326-S0	1/1	25-Mar-2014 10:10 AM	27-Mar-2014 12:00 PM	27-Mar-2014 1:38 PM	N
	PB75661	NA	SAIA-MW4C	WG	SAIA-MW4C-0314	F1763-17	LB70326-S0	1/1	25-Mar-2014 9:13 AM	27-Mar-2014 12:00 PM	27-Mar-2014 1:42 PM	N
	PB75661	NA	SAIA-MW5A	WG	SAIA-MW5A-0314	F1763-18	LB70326-S0	1/1	25-Mar-2014 10:22 AM	27-Mar-2014 12:00 PM	27-Mar-2014 1:46 PM	N
	PB75661	NA	SAIA-MW5B	WG	SAIA-MW5B-0314	F1763-19	LB70326-S0	1/1	25-Mar-2014 11:30 AM	27-Mar-2014 12:00 PM	27-Mar-2014 1:50 PM	N
	PB75661	NA	SAIA-MW5C	WG	SAIA-MW5C-0314	F1763-20	LB70326-S0	1/1	25-Mar-2014 8:51 AM	27-Mar-2014 12:00 PM	27-Mar-2014 1:54 PM	N

AUTOMATED DATA REVIEW SUMMARY for MY9DP8

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70326-CC	PB75661	NA	SAIA-MW6A	WG	SAIA-MW6A-0314	F1763-07	LB70326-S0	1/1	24-Mar-2014 12:27 PM	27-Mar-2014 12:00 PM	27-Mar-2014 12:54 PM	N
	PB75661	NA	SAIA-MW6B	WG	SAIA-MW6B-0314	F1763-08	LB70326-S0	1/1	24-Mar-2014 10:44 AM	27-Mar-2014 12:00 PM	27-Mar-2014 12:58 PM	N
	PB75661	NA	SAIA-MW6C	WG	SAIA-MW6C-0314	F1763-09	LB70326-S0	1/1	24-Mar-2014 9:19 AM	27-Mar-2014 12:00 PM	27-Mar-2014 1:02 PM	N
	PB75661	NA	SAIA-MW8	WG	SAIA-MW8-0314	F1763-10	LB70326-S0	1/1	24-Mar-2014 2:20 PM	27-Mar-2014 12:00 PM	27-Mar-2014 1:06 PM	N

Test Method: E200.8; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70331-CC	PB75662	NA	FIELDQC	WQ	SAIA-EL03-0314	F1763-21	LB70331-S0	1/1	25-Mar-2014 9:20 AM	27-Mar-2014 12:00 PM	27-Mar-2014 7:50 PM	EB
	PB75662	NA	FIELDQC	WQ	SAIA-EL03-0314	F1763-22	LB70331-S0	1/1	25-Mar-2014 9:20 AM	27-Mar-2014 12:00 PM	27-Mar-2014 8:05 PM	LR
	PB75662	NA	FIELDQC	WQ	SAIA-EL03-0314	F1763-23	LB70331-S0	1/1	25-Mar-2014 9:20 AM	27-Mar-2014 12:00 PM	27-Mar-2014 8:35 PM	MS
	PB75662	NA	LABQC	WQ	LABQC	PB75662BS	LB70331-S0	1/1	27-Mar-2014 12:00 PM	27-Mar-2014 12:00 PM	27-Mar-2014 1:40 PM	BS
	PB75662	NA	LABQC	WQ	LABQC	PB75662BL	LB70331-S0	1/1	27-Mar-2014 12:00 PM	27-Mar-2014 12:00 PM	27-Mar-2014 1:32 PM	LB
	PB75662	NA	MW45	WG	MW45-0314	F1763-12	LB70331-S0	1/1	25-Mar-2014 1:07 PM	27-Mar-2014 12:00 PM	27-Mar-2014 5:03 PM	N
	PB75662	NA	MW45	WG	MW45-0314	F1763-12	LB70331-S0	1/25	25-Mar-2014 1:07 PM	27-Mar-2014 12:00 PM	27-Mar-2014 5:11 PM	N
	PB75662	NA	MW46	WG	MW46-0314	F1763-01	LB70331-S0	1/1	24-Mar-2014 11:42 AM	27-Mar-2014 12:00 PM	27-Mar-2014 1:47 PM	N
	PB75662	NA	MW47	WG	MW47-0314	F1763-11	LB70331-S0	1/1	24-Mar-2014 2:15 PM	27-Mar-2014 12:00 PM	27-Mar-2014 4:49 PM	N
	PB75662	NA	MW48	WG	MW48-0314	F1763-02	LB70331-S0	1/1	24-Mar-2014 12:37 PM	27-Mar-2014 12:00 PM	27-Mar-2014 2:02 PM	N
	PB75662	NA	MW48	WG	MW48-0314	F1763-02	LB70331-S0	1/25	24-Mar-2014 12:37 PM	27-Mar-2014 12:00 PM	27-Mar-2014 2:10 PM	N
	PB75662	NA	MW52	WG	MW52-0314	F1763-13	LB70331-S0	1/1	25-Mar-2014 11:30 AM	27-Mar-2014 12:00 PM	27-Mar-2014 5:18 PM	N
	PB75662	NA	MW52	WG	MW52-0314	F1763-13	LB70331-S0	1/25	25-Mar-2014 11:30 AM	27-Mar-2014 12:00 PM	27-Mar-2014 5:26 PM	N
	PB75662	NA	MW52	WG	MW952-0314	F1763-14	LB70331-S0	1/1	25-Mar-2014 11:35 AM	27-Mar-2014 12:00 PM	27-Mar-2014 5:33 PM	FD
	PB75662	NA	MW52	WG	MW952-0314	F1763-14	LB70331-S0	1/25	25-Mar-2014 11:35 AM	27-Mar-2014 12:00 PM	27-Mar-2014 5:41 PM	FD

AUTOMATED DATA REVIEW SUMMARY for MY9DP8

Batch Report

Test Method: E200.8; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70331-CC	PB75662	NA	SAIA-MW3A	WG	SAIA-MW3A-0314	F1763-03	LB70331-S0	1/1	24-Mar-2014 10:52 AM	27-Mar-2014 12:00 PM	27-Mar-2014 2:17 PM	N
	PB75662	NA	SAIA-MW3B	WG	SAIA-MW3B-0314	F1763-04	LB70331-S0	1/1	24-Mar-2014 10:08 AM	27-Mar-2014 12:00 PM	27-Mar-2014 2:33 PM	N
	PB75662	NA	SAIA-MW3C	WG	SAIA-MW3C-0314	F1763-05	LB70331-S0	1/1	24-Mar-2014 9:02 AM	27-Mar-2014 12:00 PM	27-Mar-2014 3:03 PM	N
	PB75662	NA	SAIA-MW3C	WG	SAIA-MW3C-0314	F1763-05	LB70331-S0	1/25	24-Mar-2014 9:02 AM	27-Mar-2014 12:00 PM	27-Mar-2014 3:10 PM	N
	PB75662	NA	SAIA-MW3C	WG	SAIA-MW93C-0314	F1763-06	LB70331-S0	1/1	24-Mar-2014 9:07 AM	27-Mar-2014 12:00 PM	27-Mar-2014 3:18 PM	FD
	PB75662	NA	SAIA-MW3C	WG	SAIA-MW93C-0314	F1763-06	LB70331-S0	1/25	24-Mar-2014 9:07 AM	27-Mar-2014 12:00 PM	27-Mar-2014 3:25 PM	FD
	PB75662	NA	SAIA-MW4A	WG	SAIA-MW4A-0314	F1763-15	LB70331-S0	1/1	25-Mar-2014 8:21 AM	27-Mar-2014 12:00 PM	27-Mar-2014 6:04 PM	N
	PB75662	NA	SAIA-MW4B	WG	SAIA-MW4B-0314	F1763-16	LB70331-S0	1/1	25-Mar-2014 10:10 AM	27-Mar-2014 12:00 PM	27-Mar-2014 6:19 PM	N
	PB75662	NA	SAIA-MW4C	WG	SAIA-MW4C-0314	F1763-17	LB70331-S0	1/1	25-Mar-2014 9:13 AM	27-Mar-2014 12:00 PM	27-Mar-2014 6:34 PM	N
	PB75662	NA	SAIA-MW4C	WG	SAIA-MW4C-0314	F1763-17	LB70331-S0	1/25	25-Mar-2014 9:13 AM	27-Mar-2014 12:00 PM	27-Mar-2014 6:42 PM	N
	PB75662	NA	SAIA-MW5A	WG	SAIA-MW5A-0314	F1763-18	LB70331-S0	1/1	25-Mar-2014 10:22 AM	27-Mar-2014 12:00 PM	27-Mar-2014 6:49 PM	N
	PB75662	NA	SAIA-MW5A	WG	SAIA-MW5A-0314	F1763-18	LB70331-S0	1/25	25-Mar-2014 10:22 AM	27-Mar-2014 12:00 PM	27-Mar-2014 6:57 PM	N
	PB75662	NA	SAIA-MW5B	WG	SAIA-MW5B-0314	F1763-19	LB70331-S0	1/1	25-Mar-2014 11:30 AM	27-Mar-2014 12:00 PM	27-Mar-2014 7:04 PM	N
	PB75662	NA	SAIA-MW5C	WG	SAIA-MW5C-0314	F1763-20	LB70331-S0	1/1	25-Mar-2014 8:51 AM	27-Mar-2014 12:00 PM	27-Mar-2014 7:35 PM	N
	PB75662	NA	SAIA-MW5C	WG	SAIA-MW5C-0314	F1763-20	LB70331-S0	1/25	25-Mar-2014 8:51 AM	27-Mar-2014 12:00 PM	27-Mar-2014 7:42 PM	N
	PB75662	NA	SAIA-MW6A	WG	SAIA-MW6A-0314	F1763-07	LB70331-S0	1/1	24-Mar-2014 12:27 PM	27-Mar-2014 12:00 PM	27-Mar-2014 3:33 PM	N
	PB75662	NA	SAIA-MW6B	WG	SAIA-MW6B-0314	F1763-08	LB70331-S0	1/1	24-Mar-2014 10:44 AM	27-Mar-2014 12:00 PM	27-Mar-2014 3:48 PM	N
	PB75662	NA	SAIA-MW6C	WG	SAIA-MW6C-0314	F1763-09	LB70331-S0	1/1	24-Mar-2014 9:19 AM	27-Mar-2014 12:00 PM	27-Mar-2014 4:03 PM	N
	PB75662	NA	SAIA-MW6C	WG	SAIA-MW6C-0314	F1763-09	LB70331-S0	1/25	24-Mar-2014 9:19 AM	27-Mar-2014 12:00 PM	27-Mar-2014 4:11 PM	N
	PB75662	NA	SAIA-MW8	WG	SAIA-MW8-0314	F1763-10	LB70331-S0	1/1	24-Mar-2014 2:20 PM	27-Mar-2014 12:00 PM	27-Mar-2014 4:34 PM	N

AUTOMATED DATA REVIEW SUMMARY for MY9DP8

Batch Report

Test Method: SW7470A; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70330-CC	PB75683	NA	FIELDQC	WQ	SAIA-EL03-0314	F1763-21	LB70330-S0	1/1	25-Mar-2014 9:20 AM	27-Mar-2014 12:00 PM	28-Mar-2014 10:23 AM	EB
	PB75683	NA	FIELDQC	WQ	SAIA-EL03-0314	F1763-22	LB70330-S0	1/1	25-Mar-2014 9:20 AM	27-Mar-2014 12:00 PM	28-Mar-2014 10:25 AM	LR
	PB75683	NA	FIELDQC	WQ	SAIA-EL03-0314	F1763-23	LB70330-S0	1/1	25-Mar-2014 9:20 AM	27-Mar-2014 12:00 PM	28-Mar-2014 10:27 AM	MS
	PB75683	NA	LABQC	WQ	LABQC	PB75683BL	LB70330-S0	1/1	27-Mar-2014 12:00 PM	27-Mar-2014 12:00 PM	28-Mar-2014 9:34 AM	LB
	PB75683	NA	MW45	WG	MW45-0314	F1763-12	LB70330-S0	1/1	25-Mar-2014 1:07 PM	27-Mar-2014 12:00 PM	28-Mar-2014 10:00 AM	N
	PB75683	NA	MW46	WG	MW46-0314	F1763-01	LB70330-S0	1/1	24-Mar-2014 11:42 AM	27-Mar-2014 12:00 PM	28-Mar-2014 9:36 AM	N
	PB75683	NA	MW47	WG	MW47-0314	F1763-11	LB70330-S0	1/1	24-Mar-2014 2:15 PM	27-Mar-2014 12:00 PM	28-Mar-2014 9:57 AM	N
	PB75683	NA	MW48	WG	MW48-0314	F1763-02	LB70330-S0	1/1	24-Mar-2014 12:37 PM	27-Mar-2014 12:00 PM	28-Mar-2014 9:38 AM	N
	PB75683	NA	MW52	WG	MW52-0314	F1763-13	LB70330-S0	1/1	25-Mar-2014 11:30 AM	27-Mar-2014 12:00 PM	28-Mar-2014 10:02 AM	N
	PB75683	NA	MW52	WG	MW952-0314	F1763-14	LB70330-S0	1/1	25-Mar-2014 11:35 AM	27-Mar-2014 12:00 PM	28-Mar-2014 10:04 AM	FD
	PB75683	NA	SAIA-MW3A	WG	SAIA-MW3A-0314	F1763-03	LB70330-S0	1/1	24-Mar-2014 10:52 AM	27-Mar-2014 12:00 PM	28-Mar-2014 9:40 AM	N
	PB75683	NA	SAIA-MW3B	WG	SAIA-MW3B-0314	F1763-04	LB70330-S0	1/1	24-Mar-2014 10:08 AM	27-Mar-2014 12:00 PM	28-Mar-2014 9:43 AM	N
	PB75683	NA	SAIA-MW3C	WG	SAIA-MW3C-0314	F1763-05	LB70330-S0	1/1	24-Mar-2014 9:02 AM	27-Mar-2014 12:00 PM	28-Mar-2014 9:45 AM	N
	PB75683	NA	SAIA-MW3C	WG	SAIA-MW93C-0314	F1763-06	LB70330-S0	1/1	24-Mar-2014 9:07 AM	27-Mar-2014 12:00 PM	28-Mar-2014 9:47 AM	FD
	PB75683	NA	SAIA-MW4A	WG	SAIA-MW4A-0314	F1763-15	LB70330-S0	1/1	25-Mar-2014 8:21 AM	27-Mar-2014 12:00 PM	28-Mar-2014 10:06 AM	N
	PB75683	NA	SAIA-MW4B	WG	SAIA-MW4B-0314	F1763-16	LB70330-S0	1/1	25-Mar-2014 10:10 AM	27-Mar-2014 12:00 PM	28-Mar-2014 10:08 AM	N
	PB75683	NA	SAIA-MW4C	WG	SAIA-MW4C-0314	F1763-17	LB70330-S0	1/1	25-Mar-2014 9:13 AM	27-Mar-2014 12:00 PM	28-Mar-2014 10:10 AM	N
	PB75683	NA	SAIA-MW5A	WG	SAIA-MW5A-0314	F1763-18	LB70330-S0	1/1	25-Mar-2014 10:22 AM	27-Mar-2014 12:00 PM	28-Mar-2014 10:12 AM	N
	PB75683	NA	SAIA-MW5B	WG	SAIA-MW5B-0314	F1763-19	LB70330-S0	1/1	25-Mar-2014 11:30 AM	27-Mar-2014 12:00 PM	28-Mar-2014 10:14 AM	N
	PB75683	NA	SAIA-MW5C	WG	SAIA-MW5C-0314	F1763-20	LB70330-S0	1/1	25-Mar-2014 8:51 AM	27-Mar-2014 12:00 PM	28-Mar-2014 10:21 AM	N
	PB75683	NA	SAIA-MW6A	WG	SAIA-MW6A-0314	F1763-07	LB70330-S0	1/1	24-Mar-2014 12:27 PM	27-Mar-2014 12:00 PM	28-Mar-2014 9:49 AM	N
	PB75683	NA	SAIA-MW6B	WG	SAIA-MW6B-0314	F1763-08	LB70330-S0	1/1	24-Mar-2014 10:44 AM	27-Mar-2014 12:00 PM	28-Mar-2014 9:51 AM	N

AUTOMATED DATA REVIEW SUMMARY for MY9DP8

Batch Report

Test Method: SW7470A; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70330-CC	PB75683	NA	SAIA-MW6C	WG	SAIA-MW6C-0314	F1763-09	LB70330-S0	1/1	24-Mar-2014 9:19 AM	27-Mar-2014 12:00 PM	28-Mar-2014 9:53 AM	N
	PB75683	NA	SAIA-MW8	WG	SAIA-MW8-0314	F1763-10	LB70330-S0	1/1	24-Mar-2014 2:20 PM	27-Mar-2014 12:00 PM	28-Mar-2014 9:55 AM	N

Field Batch Report

Test Method: E200.7		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
25031401			FIELDQC	WQ	SAIA-EL03-0314	F1763-21	3/25/2014 9:20:00 AM	EB
25031401			MW45	WG	MW45-0314	F1763-12	3/25/2014 1:07:00 PM	N
25031401			MW52	WG	MW52-0314	F1763-13	3/25/2014 11:30:00 AM	N
25031401			MW52	WG	MW952-0314	F1763-14	3/25/2014 11:35:00 AM	FD
25031401			SAIA-MW4A	WG	SAIA-MW4A-0314	F1763-15	3/25/2014 8:21:00 AM	N
25031401			SAIA-MW4B	WG	SAIA-MW4B-0314	F1763-16	3/25/2014 10:10:00 AM	N
25031401			SAIA-MW4C	WG	SAIA-MW4C-0314	F1763-17	3/25/2014 9:13:00 AM	N
25031401			SAIA-MW5A	WG	SAIA-MW5A-0314	F1763-18	3/25/2014 10:22:00 AM	N
25031401			SAIA-MW5B	WG	SAIA-MW5B-0314	F1763-19	3/25/2014 11:30:00 AM	N
25031401			SAIA-MW5C	WG	SAIA-MW5C-0314	F1763-20	3/25/2014 8:51:00 AM	N

Test Method: E200.8		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
25031401			FIELDQC	WQ	SAIA-EL03-0314	F1763-21	3/25/2014 9:20:00 AM	EB
25031401			MW45	WG	MW45-0314	F1763-12	3/25/2014 1:07:00 PM	N
25031401			MW52	WG	MW52-0314	F1763-13	3/25/2014 11:30:00 AM	N
25031401			MW52	WG	MW952-0314	F1763-14	3/25/2014 11:35:00 AM	FD
25031401			SAIA-MW4A	WG	SAIA-MW4A-0314	F1763-15	3/25/2014 8:21:00 AM	N
25031401			SAIA-MW4B	WG	SAIA-MW4B-0314	F1763-16	3/25/2014 10:10:00 AM	N
25031401			SAIA-MW4C	WG	SAIA-MW4C-0314	F1763-17	3/25/2014 9:13:00 AM	N
25031401			SAIA-MW5A	WG	SAIA-MW5A-0314	F1763-18	3/25/2014 10:22:00 AM	N
25031401			SAIA-MW5B	WG	SAIA-MW5B-0314	F1763-19	3/25/2014 11:30:00 AM	N
25031401			SAIA-MW5C	WG	SAIA-MW5C-0314	F1763-20	3/25/2014 8:51:00 AM	N

AUTOMATED DATA REVIEW SUMMARY for MY9DP8

Field Batch Report

Test Method: SW7470A		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
25031401			FIELDQC	WQ	SAIA-EL03-0314	F1763-21	3/25/2014 9:20:00 AM	EB
25031401			MW45	WG	MW45-0314	F1763-12	3/25/2014 1:07:00 PM	N
25031401			MW52	WG	MW52-0314	F1763-13	3/25/2014 11:30:00 AM	N
25031401			MW52	WG	MW952-0314	F1763-14	3/25/2014 11:35:00 AM	FD
25031401			SAIA-MW4A	WG	SAIA-MW4A-0314	F1763-15	3/25/2014 8:21:00 AM	N
25031401			SAIA-MW4B	WG	SAIA-MW4B-0314	F1763-16	3/25/2014 10:10:00 AM	N
25031401			SAIA-MW4C	WG	SAIA-MW4C-0314	F1763-17	3/25/2014 9:13:00 AM	N
25031401			SAIA-MW5A	WG	SAIA-MW5A-0314	F1763-18	3/25/2014 10:22:00 AM	N
25031401			SAIA-MW5B	WG	SAIA-MW5B-0314	F1763-19	3/25/2014 11:30:00 AM	N
25031401			SAIA-MW5C	WG	SAIA-MW5C-0314	F1763-20	3/25/2014 8:51:00 AM	N

AUTOMATED DATA REVIEW SUMMARY for MY9DP8

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
E200.7 / METHOD	LCS Recovery	PB75661BS (BS)	1 / 1.00	Iron	117	PERCENT	J/None	85 - 115	50 - 125	L			
E200.8 / METHOD	Equipment Blank	SAIA-EL03-0314 (EB)	1 / 1.00	Barium	0.290	ug/L	U/None	< 0.15	< 10	K1			
E200.8 / METHOD	Equipment Blank	SAIA-EL03-0314 (EB)	1 / 1.00	Chromium	2.70	ug/L	U/None	< 0.053	< 2	K1			
E200.8 / METHOD	Equipment Blank	SAIA-EL03-0314 (EB)	1 / 1.00	Lead	1.20	ug/L	U/None	< 0.062	< 1	K1			
E200.8 / METHOD	Equipment Blank	SAIA-EL03-0314 (EB)	1 / 1.00	Manganese	7.80	ug/L	U/None	< 0.12	< 1	K1	Blank is over 3X RL		
E200.8 / METHOD	Equipment Blank	SAIA-EL03-0314 (EB)	1 / 1.00	Zinc	15.7	ug/L	U/None	< 0.13	< 2	K1	Blank is over 3X RL		
E200.8 / METHOD	LCS Recovery	PB75662BS (BS)	1 / 1.00	Aluminum	118	PERCENT	J/None	85 - 115	50 - 125	L			
E200.8 / METHOD	LCS Recovery	PB75662BS (BS)	1 / 1.00	Arsenic	120	PERCENT	J/None	85 - 115	50 - 125	L			
E200.8 / METHOD	LCS Recovery	PB75662BS (BS)	1 / 1.00	Zinc	118	PERCENT	J/None	85 - 115	50 - 125	L			
SW7470A / METHOD	Blank - Negative	PB75683BL (LB)	1 / 1.00	Mercury	-0.0320	ug/L	J/UJ	< 0.008	< 0.2	L1			

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	WG	MW45-0314	N	Potassium	5000	3700 J	3700 J	ug/L	TR
E200.7/NONE	WG	MW47-0314	N	Potassium	5000	2860 J	2860 J	ug/L	TR
E200.7/NONE	WG	MW48-0314	N	Potassium	5000	4440 J	4440 J	ug/L	TR
E200.7/NONE	WQ	SAIA-EL03-0314	EB	Calcium	5000	5000 J	5000 U	ug/L	B2
E200.7/NONE	WQ	SAIA-EL03-0314	EB	Iron	100	100 J	100 U	ug/L	B2
E200.7/NONE	WQ	SAIA-EL03-0314	EB	Sodium	5000	5000 J	5000 U	ug/L	B2
E200.7/NONE	WG	SAIA-MW3B-0314	N	Potassium	5000	4230 J	4230 J	ug/L	TR
E200.7/NONE	WG	SAIA-MW4B-0314	N	Potassium	5000	4640 J	4640 J	ug/L	TR
E200.7/NONE	WG	SAIA-MW5B-0314	N	Potassium	5000	4900 J	4900 J	ug/L	TR
E200.7/NONE	WG	SAIA-MW6A-0314	N	Potassium	5000	4000 J	4000 J	ug/L	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	WG	MW45-0314	N	Antimony	2.0	2.0 J	2.0 U	ug/L	B2
E200.8/NONE	WG	MW45-0314	N	Cadmium	1.0	0.28 J	0.28 J	ug/L	TR
E200.8/NONE	WG	MW45-0314	N	Cobalt	1.0	0.65 J	0.65 J	ug/L	TR
E200.8/NONE	WG	MW45-0314	N	Selenium	5.0	5.0 J	5.0 U	ug/L	B2
E200.8/NONE	WG	MW45-0314	N	Silver	1.0	0.048 J	0.048 J	ug/L	TR
E200.8/NONE	WG	MW46-0314	N	Antimony	2.0	2.0 J	2.0 U	ug/L	B2
E200.8/NONE	WG	MW46-0314	N	Cadmium	1.0	0.17 J	0.17 J	ug/L	TR
E200.8/NONE	WG	MW46-0314	N	Cobalt	1.0	0.25 J	0.25 J	ug/L	TR
E200.8/NONE	WG	MW46-0314	N	Lead	1.0	0.43 J	0.43 J	ug/L	TR
E200.8/NONE	WG	MW46-0314	N	Selenium	5.0	5.0 J	5.0 U	ug/L	B2
E200.8/NONE	WG	MW46-0314	N	Silver	1.0	0.088 J	0.088 J	ug/L	TR
E200.8/NONE	WG	MW47-0314	N	Antimony	2.0	2.0 J	2.0 U	ug/L	B2
E200.8/NONE	WG	MW47-0314	N	Cobalt	1.0	0.52 J	0.52 J	ug/L	TR
E200.8/NONE	WG	MW47-0314	N	Selenium	5.0	5.0 J	5.0 U	ug/L	B2
E200.8/NONE	WG	MW47-0314	N	Silver	1.0	0.057 J	0.057 J	ug/L	TR
E200.8/NONE	WG	MW48-0314	N	Aluminum	20.0	20.0 J	20.0 U	ug/L	B2

AUTOMATED DATA REVIEW SUMMARY for MY9DP8

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	WG	MW48-0314	N	Antimony	2.0	2.0 J	2.0 U	ug/L	B2
E200.8/NONE	WG	MW48-0314	N	Cadmium	1.0	0.50 J	0.50 J	ug/L	TR
E200.8/NONE	WG	MW48-0314	N	Cobalt	1.0	0.30 J	0.30 J	ug/L	TR
E200.8/NONE	WG	MW48-0314	N	Lead	1.0	0.33 J	0.33 J	ug/L	TR
E200.8/NONE	WG	MW48-0314	N	Selenium	5.0	5.0 J	5.0 U	ug/L	B2
E200.8/NONE	WG	MW48-0314	N	Silver	1.0	0.076 J	0.076 J	ug/L	TR
E200.8/NONE	WG	MW52-0314	N	Antimony	2.0	2.0 J	2.0 U	ug/L	B2
E200.8/NONE	WG	MW52-0314	N	Cobalt	1.0	0.68 J	0.68 J	ug/L	TR
E200.8/NONE	WG	MW52-0314	N	Lead	1.0	0.80 J	0.80 J	ug/L	TR
E200.8/NONE	WG	MW52-0314	N	Selenium	5.0	5.0 J	5.0 U	ug/L	B2
E200.8/NONE	WG	MW52-0314	N	Silver	1.0	0.061 J	0.061 J	ug/L	TR
E200.8/NONE	WG	MW952-0314	FD	Antimony	2.0	2.0 J	2.0 U	ug/L	B2
E200.8/NONE	WG	MW952-0314	FD	Cobalt	1.0	0.72 J	0.72 J	ug/L	TR
E200.8/NONE	WG	MW952-0314	FD	Lead	1.0	0.41 J	0.41 J	ug/L	TR
E200.8/NONE	WG	MW952-0314	FD	Selenium	5.0	5.0 J	5.0 U	ug/L	B2
E200.8/NONE	WG	MW952-0314	FD	Silver	1.0	0.076 J	0.076 J	ug/L	TR
E200.8/NONE	WQ	SAIA-EL03-0314	EB	Aluminum	20.0	20.0 J	20.0 U	ug/L	B2
E200.8/NONE	WQ	SAIA-EL03-0314	EB	Barium	10.0	0.29 J	0.29 J	ug/L	TR
E200.8/NONE	WQ	SAIA-EL03-0314	EB	Copper	2.0	2.0 J	2.0 U	ug/L	B2
E200.8/NONE	WQ	SAIA-EL03-0314	EB	Nickel	1.0	1.0 J	1.0 U	ug/L	B2
E200.8/NONE	WG	SAIA-MW3A-0314	N	Antimony	2.0	2.0 J	2.0 U	ug/L	B2
E200.8/NONE	WG	SAIA-MW3A-0314	N	Beryllium	1.0	0.36 J	0.36 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW3A-0314	N	Cadmium	1.0	0.10 J	0.10 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW3A-0314	N	Silver	1.0	0.21 J	0.21 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW3A-0314	N	Thallium	1.0	1.0 J	1.0 U	ug/L	B2
E200.8/NONE	WG	SAIA-MW3B-0314	N	Antimony	2.0	2.0 J	2.0 U	ug/L	B2
E200.8/NONE	WG	SAIA-MW3B-0314	N	Cobalt	1.0	0.74 J	0.74 J	ug/L	TR

AUTOMATED DATA REVIEW SUMMARY for MY9DP8

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	WG	SAIA-MW3B-0314	N	Lead	1.0	0.62 J	0.62 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW3B-0314	N	Selenium	5.0	5.0 J	5.0 U	ug/L	B2
E200.8/NONE	WG	SAIA-MW3B-0314	N	Silver	1.0	0.078 J	0.078 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW3C-0314	N	Antimony	2.0	2.0 J	2.0 U	ug/L	B2
E200.8/NONE	WG	SAIA-MW3C-0314	N	Cobalt	1.0	0.62 J	0.62 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW3C-0314	N	Lead	1.0	0.75 J	0.75 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW3C-0314	N	Selenium	5.0	5.0 J	5.0 U	ug/L	B2
E200.8/NONE	WG	SAIA-MW3C-0314	N	Silver	1.0	0.052 J	0.052 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW3C-0314	N	Zinc	2.0	14.2 *	14.2 J	ug/L	D5
E200.8/NONE	WG	SAIA-MW4A-0314	N	Antimony	2.0	2.0 J	2.0 U	ug/L	B2
E200.8/NONE	WG	SAIA-MW4A-0314	N	Lead	1.0	0.94 J	0.94 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW4A-0314	N	Vanadium	5.0	1.6 J	1.6 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW4B-0314	N	Antimony	2.0	2.0 J	2.0 U	ug/L	B2
E200.8/NONE	WG	SAIA-MW4B-0314	N	Cobalt	1.0	0.50 J	0.50 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW4B-0314	N	Lead	1.0	0.59 J	0.59 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW4B-0314	N	Selenium	5.0	5.0 J	5.0 U	ug/L	B2
E200.8/NONE	WG	SAIA-MW4B-0314	N	Silver	1.0	0.11 J	0.11 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW4C-0314	N	Antimony	2.0	2.0 J	2.0 U	ug/L	B2
E200.8/NONE	WG	SAIA-MW4C-0314	N	Cobalt	1.0	0.80 J	0.80 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW4C-0314	N	Lead	1.0	0.80 J	0.80 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW4C-0314	N	Selenium	5.0	5.0 J	5.0 U	ug/L	B2
E200.8/NONE	WG	SAIA-MW5A-0314	N	Antimony	2.0	2.0 J	2.0 U	ug/L	B2
E200.8/NONE	WG	SAIA-MW5A-0314	N	Selenium	5.0	5.0 J	5.0 U	ug/L	B2
E200.8/NONE	WG	SAIA-MW5A-0314	N	Silver	1.0	0.080 J	0.080 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW5A-0314	N	Vanadium	5.0	3.7 J	3.7 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW5B-0314	N	Antimony	2.0	2.0 J	2.0 U	ug/L	B2
E200.8/NONE	WG	SAIA-MW5B-0314	N	Selenium	5.0	5.0 J	5.0 U	ug/L	B2

AUTOMATED DATA REVIEW SUMMARY for MY9DP8

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	WG	SAIA-MW5B-0314	N	Silver	1.0	0.089 J	0.089 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW5B-0314	N	Vanadium	5.0	0.87 J	0.87 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW5C-0314	N	Antimony	2.0	2.0 J	2.0 U	ug/L	B2
E200.8/NONE	WG	SAIA-MW5C-0314	N	Lead	1.0	0.68 J	0.68 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW5C-0314	N	Selenium	5.0	5.0 J	5.0 U	ug/L	B2
E200.8/NONE	WG	SAIA-MW5C-0314	N	Silver	1.0	0.055 J	0.055 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW6A-0314	N	Antimony	2.0	2.0 J	2.0 U	ug/L	B2
E200.8/NONE	WG	SAIA-MW6A-0314	N	Beryllium	1.0	0.36 J	0.36 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW6A-0314	N	Cadmium	1.0	0.15 J	0.15 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW6A-0314	N	Silver	1.0	0.21 J	0.21 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW6B-0314	N	Antimony	2.0	2.0 J	2.0 U	ug/L	B2
E200.8/NONE	WG	SAIA-MW6B-0314	N	Cobalt	1.0	0.73 J	0.73 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW6B-0314	N	Lead	1.0	0.45 J	0.45 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW6B-0314	N	Silver	1.0	0.049 J	0.049 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW6C-0314	N	Antimony	2.0	2.0 J	2.0 U	ug/L	B2
E200.8/NONE	WG	SAIA-MW6C-0314	N	Cobalt	1.0	0.86 J	0.86 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW6C-0314	N	Silver	1.0	0.071 J	0.071 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW8-0314	N	Antimony	2.0	2.0 J	2.0 U	ug/L	B2
E200.8/NONE	WG	SAIA-MW8-0314	N	Cobalt	1.0	0.54 J	0.54 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW8-0314	N	Lead	1.0	0.83 J	0.83 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW8-0314	N	Silver	1.0	0.27 J	0.27 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW93C-0314	FD	Antimony	2.0	2.0 J	2.0 U	ug/L	B2
E200.8/NONE	WG	SAIA-MW93C-0314	FD	Cobalt	1.0	0.56 J	0.56 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW93C-0314	FD	Lead	1.0	0.46 J	0.46 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW93C-0314	FD	Selenium	5.0	5.0 J	5.0 U	ug/L	B2
E200.8/NONE	WG	SAIA-MW93C-0314	FD	Silver	1.0	0.066 J	0.066 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW93C-0314	FD	Zinc	2.0	8.7 *	8.7 J	ug/L	D5

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	WG	MW45-0314	N	Calcium	5000	339000	339000	ug/L	
E200.7/NONE	WG	MW45-0314	N	Iron	100	2430	2430	ug/L	
E200.7/NONE	WG	MW45-0314	N	Potassium	5000	3700 J	3700 J	ug/L	TR
E200.7/NONE	WG	MW45-0314	N	Magnesium	5000	111000	111000	ug/L	
E200.7/NONE	WG	MW45-0314	N	Sodium	5000	201000	201000	ug/L	
E200.7/NONE	WG	MW46-0314	N	Calcium	5000	126000	126000	ug/L	
E200.7/NONE	WG	MW46-0314	N	Iron	100	1050	1050	ug/L	
E200.7/NONE	WG	MW46-0314	N	Potassium	5000	6800	6800	ug/L	
E200.7/NONE	WG	MW46-0314	N	Magnesium	5000	42600	42600	ug/L	
E200.7/NONE	WG	MW46-0314	N	Sodium	5000	439000	439000	ug/L	
E200.7/NONE	WG	MW47-0314	N	Calcium	5000	143000	143000	ug/L	
E200.7/NONE	WG	MW47-0314	N	Iron	100	1210	1210	ug/L	
E200.7/NONE	WG	MW47-0314	N	Potassium	5000	2860 J	2860 J	ug/L	TR
E200.7/NONE	WG	MW47-0314	N	Magnesium	5000	43000	43000	ug/L	
E200.7/NONE	WG	MW47-0314	N	Sodium	5000	199000	199000	ug/L	
E200.7/NONE	WG	MW48-0314	N	Calcium	5000	395000	395000	ug/L	
E200.7/NONE	WG	MW48-0314	N	Iron	100	2350	2350	ug/L	
E200.7/NONE	WG	MW48-0314	N	Potassium	5000	4440 J	4440 J	ug/L	TR
E200.7/NONE	WG	MW48-0314	N	Magnesium	5000	131000	131000	ug/L	
E200.7/NONE	WG	MW48-0314	N	Sodium	5000	241000	241000	ug/L	
E200.7/NONE	WG	MW52-0314	N	Calcium	5000	395000	395000	ug/L	
E200.7/NONE	WG	MW52-0314	N	Iron	100	3710	3710	ug/L	
E200.7/NONE	WG	MW52-0314	N	Potassium	5000	5750	5750	ug/L	
E200.7/NONE	WG	MW52-0314	N	Magnesium	5000	142000	142000	ug/L	
E200.7/NONE	WG	MW52-0314	N	Sodium	5000	340000	340000	ug/L	
E200.7/NONE	WG	MW952-0314	FD	Calcium	5000	395000	395000	ug/L	
E200.7/NONE	WG	MW952-0314	FD	Iron	100	3740	3740	ug/L	

AUTOMATED DATA REVIEW SUMMARY for MY9DP8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	WG	MW952-0314	FD	Potassium	5000	5740	5740	ug/L	
E200.7/NONE	WG	MW952-0314	FD	Magnesium	5000	142000	142000	ug/L	
E200.7/NONE	WG	MW952-0314	FD	Sodium	5000	340000	340000	ug/L	
E200.7/NONE	WG	SAIA-MW3A-0314	N	Calcium	5000	238000	238000	ug/L	
E200.7/NONE	WG	SAIA-MW3A-0314	N	Iron	100	12900	12900	ug/L	
E200.7/NONE	WG	SAIA-MW3A-0314	N	Potassium	5000	7740	7740	ug/L	
E200.7/NONE	WG	SAIA-MW3A-0314	N	Magnesium	5000	68900	68900	ug/L	
E200.7/NONE	WG	SAIA-MW3A-0314	N	Sodium	5000	156000	156000	ug/L	
E200.7/NONE	WG	SAIA-MW3B-0314	N	Calcium	5000	141000	141000	ug/L	
E200.7/NONE	WG	SAIA-MW3B-0314	N	Iron	100	540	540	ug/L	
E200.7/NONE	WG	SAIA-MW3B-0314	N	Potassium	5000	4230 J	4230 J	ug/L	TR
E200.7/NONE	WG	SAIA-MW3B-0314	N	Magnesium	5000	42400	42400	ug/L	
E200.7/NONE	WG	SAIA-MW3B-0314	N	Sodium	5000	160000	160000	ug/L	
E200.7/NONE	WG	SAIA-MW3C-0314	N	Calcium	5000	497000	497000	ug/L	
E200.7/NONE	WG	SAIA-MW3C-0314	N	Iron	100	3710	3710	ug/L	
E200.7/NONE	WG	SAIA-MW3C-0314	N	Potassium	5000	6850	6850	ug/L	
E200.7/NONE	WG	SAIA-MW3C-0314	N	Magnesium	5000	154000	154000	ug/L	
E200.7/NONE	WG	SAIA-MW3C-0314	N	Sodium	5000	308000	308000	ug/L	
E200.7/NONE	WG	SAIA-MW4A-0314	N	Calcium	5000	170000	170000	ug/L	
E200.7/NONE	WG	SAIA-MW4A-0314	N	Iron	100	2170	2170	ug/L	
E200.7/NONE	WG	SAIA-MW4A-0314	N	Potassium	5000	6150	6150	ug/L	
E200.7/NONE	WG	SAIA-MW4A-0314	N	Magnesium	5000	55400	55400	ug/L	
E200.7/NONE	WG	SAIA-MW4A-0314	N	Sodium	5000	263000	263000	ug/L	
E200.7/NONE	WG	SAIA-MW4B-0314	N	Calcium	5000	177000	177000	ug/L	
E200.7/NONE	WG	SAIA-MW4B-0314	N	Iron	100	803	803	ug/L	
E200.7/NONE	WG	SAIA-MW4B-0314	N	Potassium	5000	4640 J	4640 J	ug/L	TR
E200.7/NONE	WG	SAIA-MW4B-0314	N	Magnesium	5000	48700	48700	ug/L	

AUTOMATED DATA REVIEW SUMMARY for MY9DP8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	WG	SAIA-MW4B-0314	N	Sodium	5000	162000	162000	ug/L	
E200.7/NONE	WG	SAIA-MW4C-0314	N	Calcium	5000	348000	348000	ug/L	
E200.7/NONE	WG	SAIA-MW4C-0314	N	Iron	100	2160	2160	ug/L	
E200.7/NONE	WG	SAIA-MW4C-0314	N	Potassium	5000	5210	5210	ug/L	
E200.7/NONE	WG	SAIA-MW4C-0314	N	Magnesium	5000	100000	100000	ug/L	
E200.7/NONE	WG	SAIA-MW4C-0314	N	Sodium	5000	280000	280000	ug/L	
E200.7/NONE	WG	SAIA-MW5A-0314	N	Calcium	5000	330000	330000	ug/L	
E200.7/NONE	WG	SAIA-MW5A-0314	N	Iron	100	3440	3440	ug/L	
E200.7/NONE	WG	SAIA-MW5A-0314	N	Potassium	5000	9010	9010	ug/L	
E200.7/NONE	WG	SAIA-MW5A-0314	N	Magnesium	5000	110000	110000	ug/L	
E200.7/NONE	WG	SAIA-MW5A-0314	N	Sodium	5000	366000	366000	ug/L	
E200.7/NONE	WG	SAIA-MW5B-0314	N	Calcium	5000	276000	276000	ug/L	
E200.7/NONE	WG	SAIA-MW5B-0314	N	Iron	100	2520	2520	ug/L	
E200.7/NONE	WG	SAIA-MW5B-0314	N	Potassium	5000	4900 J	4900 J	ug/L	TR
E200.7/NONE	WG	SAIA-MW5B-0314	N	Magnesium	5000	87800	87800	ug/L	
E200.7/NONE	WG	SAIA-MW5B-0314	N	Sodium	5000	337000	337000	ug/L	
E200.7/NONE	WG	SAIA-MW5C-0314	N	Calcium	5000	507000	507000	ug/L	
E200.7/NONE	WG	SAIA-MW5C-0314	N	Iron	100	1820	1820	ug/L	
E200.7/NONE	WG	SAIA-MW5C-0314	N	Potassium	5000	7330	7330	ug/L	
E200.7/NONE	WG	SAIA-MW5C-0314	N	Magnesium	5000	147000	147000	ug/L	
E200.7/NONE	WG	SAIA-MW5C-0314	N	Sodium	5000	299000	299000	ug/L	
E200.7/NONE	WG	SAIA-MW6A-0314	N	Calcium	5000	31800	31800	ug/L	
E200.7/NONE	WG	SAIA-MW6A-0314	N	Iron	100	12300	12300	ug/L	
E200.7/NONE	WG	SAIA-MW6A-0314	N	Potassium	5000	4000 J	4000 J	ug/L	TR
E200.7/NONE	WG	SAIA-MW6A-0314	N	Magnesium	5000	13300	13300	ug/L	
E200.7/NONE	WG	SAIA-MW6A-0314	N	Sodium	5000	255000	255000	ug/L	
E200.7/NONE	WG	SAIA-MW6B-0314	N	Calcium	5000	408000	408000	ug/L	

AUTOMATED DATA REVIEW SUMMARY for MY9DP8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	WG	SAIA-MW6B-0314	N	Iron	100	1600	1600	ug/L	
E200.7/NONE	WG	SAIA-MW6B-0314	N	Potassium	5000	12400	12400	ug/L	
E200.7/NONE	WG	SAIA-MW6B-0314	N	Magnesium	5000	110000	110000	ug/L	
E200.7/NONE	WG	SAIA-MW6B-0314	N	Sodium	5000	719000	719000	ug/L	
E200.7/NONE	WG	SAIA-MW6C-0314	N	Calcium	5000	499000	499000	ug/L	
E200.7/NONE	WG	SAIA-MW6C-0314	N	Iron	100	2270	2270	ug/L	
E200.7/NONE	WG	SAIA-MW6C-0314	N	Potassium	5000	8710	8710	ug/L	
E200.7/NONE	WG	SAIA-MW6C-0314	N	Magnesium	5000	130000	130000	ug/L	
E200.7/NONE	WG	SAIA-MW6C-0314	N	Sodium	5000	492000	492000	ug/L	
E200.7/NONE	WG	SAIA-MW8-0314	N	Calcium	5000	374000	374000	ug/L	
E200.7/NONE	WG	SAIA-MW8-0314	N	Iron	100	874	874	ug/L	
E200.7/NONE	WG	SAIA-MW8-0314	N	Potassium	5000	5180	5180	ug/L	
E200.7/NONE	WG	SAIA-MW8-0314	N	Magnesium	5000	80500	80500	ug/L	
E200.7/NONE	WG	SAIA-MW8-0314	N	Sodium	5000	142000	142000	ug/L	
E200.7/NONE	WG	SAIA-MW93C-0314	FD	Calcium	5000	499000	499000	ug/L	
E200.7/NONE	WG	SAIA-MW93C-0314	FD	Iron	100	3490	3490	ug/L	
E200.7/NONE	WG	SAIA-MW93C-0314	FD	Potassium	5000	6750	6750	ug/L	
E200.7/NONE	WG	SAIA-MW93C-0314	FD	Magnesium	5000	155000	155000	ug/L	
E200.7/NONE	WG	SAIA-MW93C-0314	FD	Sodium	5000	307000	307000	ug/L	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	WG	MW45-0314	N	Silver	1.0	0.048 J	0.048 J	ug/L	TR
E200.8/NONE	WG	MW45-0314	N	Aluminum	20.0	268	268	ug/L	
E200.8/NONE	WG	MW45-0314	N	Arsenic	1.0	21.6	21.6	ug/L	
E200.8/NONE	WG	MW45-0314	N	Barium	10.0	41.2	41.2	ug/L	
E200.8/NONE	WG	MW45-0314	N	Cadmium	1.0	0.28 J	0.28 J	ug/L	TR
E200.8/NONE	WG	MW45-0314	N	Cobalt	1.0	0.65 J	0.65 J	ug/L	TR

AUTOMATED DATA REVIEW SUMMARY for MY9DP8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	WG	MW45-0314	N	Chromium	2.0	12.7	12.7	ug/L	
E200.8/NONE	WG	MW45-0314	N	Copper	2.0	2.7	2.7	ug/L	
E200.8/NONE	WG	MW45-0314	N	Manganese	25.0	1940 D	1940	ug/L	
E200.8/NONE	WG	MW45-0314	N	Nickel	1.0	10.9	10.9	ug/L	
E200.8/NONE	WG	MW45-0314	N	Lead	1.0	1.6	1.6	ug/L	
E200.8/NONE	WG	MW45-0314	N	Zinc	2.0	12.8 *	12.8	ug/L	
E200.8/NONE	WG	MW46-0314	N	Silver	1.0	0.088 J	0.088 J	ug/L	TR
E200.8/NONE	WG	MW46-0314	N	Aluminum	20.0	57.3	57.3	ug/L	
E200.8/NONE	WG	MW46-0314	N	Arsenic	1.0	50.0	50.0	ug/L	
E200.8/NONE	WG	MW46-0314	N	Barium	10.0	42.3	42.3	ug/L	
E200.8/NONE	WG	MW46-0314	N	Cadmium	1.0	0.17 J	0.17 J	ug/L	TR
E200.8/NONE	WG	MW46-0314	N	Cobalt	1.0	0.25 J	0.25 J	ug/L	TR
E200.8/NONE	WG	MW46-0314	N	Chromium	2.0	3.8	3.8	ug/L	
E200.8/NONE	WG	MW46-0314	N	Copper	2.0	7.3	7.3	ug/L	
E200.8/NONE	WG	MW46-0314	N	Manganese	1.0	764	764	ug/L	
E200.8/NONE	WG	MW46-0314	N	Nickel	1.0	3.1	3.1	ug/L	
E200.8/NONE	WG	MW46-0314	N	Lead	1.0	0.43 J	0.43 J	ug/L	TR
E200.8/NONE	WG	MW46-0314	N	Zinc	2.0	18.8 *	18.8	ug/L	
E200.8/NONE	WG	MW47-0314	N	Silver	1.0	0.057 J	0.057 J	ug/L	TR
E200.8/NONE	WG	MW47-0314	N	Aluminum	20.0	303	303	ug/L	
E200.8/NONE	WG	MW47-0314	N	Arsenic	1.0	34.0	34.0	ug/L	
E200.8/NONE	WG	MW47-0314	N	Barium	10.0	50.1	50.1	ug/L	
E200.8/NONE	WG	MW47-0314	N	Cobalt	1.0	0.52 J	0.52 J	ug/L	TR
E200.8/NONE	WG	MW47-0314	N	Chromium	2.0	5.0	5.0	ug/L	
E200.8/NONE	WG	MW47-0314	N	Copper	2.0	2.4	2.4	ug/L	
E200.8/NONE	WG	MW47-0314	N	Manganese	1.0	1040	1040	ug/L	
E200.8/NONE	WG	MW47-0314	N	Nickel	1.0	4.3	4.3	ug/L	

AUTOMATED DATA REVIEW SUMMARY for MY9DP8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	WG	MW47-0314	N	Lead	1.0	1.2	1.2	ug/L	
E200.8/NONE	WG	MW47-0314	N	Zinc	2.0	11.5 *	11.5	ug/L	
E200.8/NONE	WG	MW48-0314	N	Silver	1.0	0.076 J	0.076 J	ug/L	TR
E200.8/NONE	WG	MW48-0314	N	Arsenic	1.0	24.2	24.2	ug/L	
E200.8/NONE	WG	MW48-0314	N	Barium	10.0	44.0	44.0	ug/L	
E200.8/NONE	WG	MW48-0314	N	Cadmium	1.0	0.50 J	0.50 J	ug/L	TR
E200.8/NONE	WG	MW48-0314	N	Cobalt	1.0	0.30 J	0.30 J	ug/L	TR
E200.8/NONE	WG	MW48-0314	N	Chromium	2.0	3.6	3.6	ug/L	
E200.8/NONE	WG	MW48-0314	N	Copper	2.0	2.2	2.2	ug/L	
E200.8/NONE	WG	MW48-0314	N	Manganese	25.0	2550 D	2550	ug/L	
E200.8/NONE	WG	MW48-0314	N	Nickel	1.0	4.4	4.4	ug/L	
E200.8/NONE	WG	MW48-0314	N	Lead	1.0	0.33 J	0.33 J	ug/L	TR
E200.8/NONE	WG	MW48-0314	N	Zinc	2.0	12.8 *	12.8	ug/L	
E200.8/NONE	WG	MW52-0314	N	Silver	1.0	0.061 J	0.061 J	ug/L	TR
E200.8/NONE	WG	MW52-0314	N	Aluminum	20.0	52.9	52.9	ug/L	
E200.8/NONE	WG	MW52-0314	N	Arsenic	1.0	26.8	26.8	ug/L	
E200.8/NONE	WG	MW52-0314	N	Barium	10.0	46.8	46.8	ug/L	
E200.8/NONE	WG	MW52-0314	N	Cobalt	1.0	0.68 J	0.68 J	ug/L	TR
E200.8/NONE	WG	MW52-0314	N	Chromium	2.0	5.1	5.1	ug/L	
E200.8/NONE	WG	MW52-0314	N	Copper	2.0	2.4	2.4	ug/L	
E200.8/NONE	WG	MW52-0314	N	Manganese	25.0	3520 D	3520	ug/L	
E200.8/NONE	WG	MW52-0314	N	Nickel	1.0	5.0	5.0	ug/L	
E200.8/NONE	WG	MW52-0314	N	Lead	1.0	0.80 J	0.80 J	ug/L	TR
E200.8/NONE	WG	MW52-0314	N	Zinc	2.0	11.0 *	11.0	ug/L	
E200.8/NONE	WG	MW952-0314	FD	Silver	1.0	0.076 J	0.076 J	ug/L	TR
E200.8/NONE	WG	MW952-0314	FD	Aluminum	20.0	83.5	83.5	ug/L	
E200.8/NONE	WG	MW952-0314	FD	Arsenic	1.0	23.3	23.3	ug/L	

AUTOMATED DATA REVIEW SUMMARY for MY9DP8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	WG	MW952-0314	FD	Barium	10.0	45.8	45.8	ug/L	
E200.8/NONE	WG	MW952-0314	FD	Cobalt	1.0	0.72 J	0.72 J	ug/L	TR
E200.8/NONE	WG	MW952-0314	FD	Chromium	2.0	7.6	7.6	ug/L	
E200.8/NONE	WG	MW952-0314	FD	Copper	2.0	2.6	2.6	ug/L	
E200.8/NONE	WG	MW952-0314	FD	Manganese	25.0	3370 D	3370	ug/L	
E200.8/NONE	WG	MW952-0314	FD	Nickel	1.0	4.7	4.7	ug/L	
E200.8/NONE	WG	MW952-0314	FD	Lead	1.0	0.41 J	0.41 J	ug/L	TR
E200.8/NONE	WG	MW952-0314	FD	Zinc	2.0	9.1 *	9.1	ug/L	
E200.8/NONE	WQ	SAIA-EL03-0314	EB	Barium	10.0	0.29 J	0.29 J	ug/L	TR
E200.8/NONE	WQ	SAIA-EL03-0314	EB	Chromium	2.0	2.7	2.7	ug/L	
E200.8/NONE	WQ	SAIA-EL03-0314	EB	Manganese	1.0	7.8	7.8	ug/L	
E200.8/NONE	WQ	SAIA-EL03-0314	EB	Lead	1.0	1.2	1.2	ug/L	
E200.8/NONE	WQ	SAIA-EL03-0314	EB	Zinc	2.0	15.7 *	15.7	ug/L	
E200.8/NONE	WG	SAIA-MW3A-0314	N	Silver	1.0	0.21 J	0.21 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW3A-0314	N	Aluminum	20.0	8320	8320	ug/L	
E200.8/NONE	WG	SAIA-MW3A-0314	N	Arsenic	1.0	41.7	41.7	ug/L	
E200.8/NONE	WG	SAIA-MW3A-0314	N	Barium	10.0	147	147	ug/L	
E200.8/NONE	WG	SAIA-MW3A-0314	N	Beryllium	1.0	0.36 J	0.36 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW3A-0314	N	Cadmium	1.0	0.10 J	0.10 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW3A-0314	N	Cobalt	1.0	6.7	6.7	ug/L	
E200.8/NONE	WG	SAIA-MW3A-0314	N	Chromium	2.0	20.2	20.2	ug/L	
E200.8/NONE	WG	SAIA-MW3A-0314	N	Copper	2.0	21.9	21.9	ug/L	
E200.8/NONE	WG	SAIA-MW3A-0314	N	Manganese	1.0	1430	1430	ug/L	
E200.8/NONE	WG	SAIA-MW3A-0314	N	Nickel	1.0	16.7	16.7	ug/L	
E200.8/NONE	WG	SAIA-MW3A-0314	N	Lead	1.0	6.2	6.2	ug/L	
E200.8/NONE	WG	SAIA-MW3A-0314	N	Selenium	5.0	5.1	5.1	ug/L	
E200.8/NONE	WG	SAIA-MW3A-0314	N	Vanadium	5.0	21.7	21.7	ug/L	

AUTOMATED DATA REVIEW SUMMARY for MY9DP8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	WG	SAIA-MW3A-0314	N	Zinc	2.0	42.0 *	42.0	ug/L	
E200.8/NONE	WG	SAIA-MW3B-0314	N	Silver	1.0	0.078 J	0.078 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW3B-0314	N	Aluminum	20.0	108	108	ug/L	
E200.8/NONE	WG	SAIA-MW3B-0314	N	Arsenic	1.0	18.6	18.6	ug/L	
E200.8/NONE	WG	SAIA-MW3B-0314	N	Barium	10.0	43.0	43.0	ug/L	
E200.8/NONE	WG	SAIA-MW3B-0314	N	Cobalt	1.0	0.74 J	0.74 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW3B-0314	N	Chromium	2.0	8.2	8.2	ug/L	
E200.8/NONE	WG	SAIA-MW3B-0314	N	Copper	2.0	2.1	2.1	ug/L	
E200.8/NONE	WG	SAIA-MW3B-0314	N	Manganese	1.0	766	766	ug/L	
E200.8/NONE	WG	SAIA-MW3B-0314	N	Nickel	1.0	5.6	5.6	ug/L	
E200.8/NONE	WG	SAIA-MW3B-0314	N	Lead	1.0	0.62 J	0.62 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW3B-0314	N	Zinc	2.0	26.0 *	26.0	ug/L	
E200.8/NONE	WG	SAIA-MW3C-0314	N	Silver	1.0	0.052 J	0.052 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW3C-0314	N	Aluminum	20.0	235	235	ug/L	
E200.8/NONE	WG	SAIA-MW3C-0314	N	Arsenic	1.0	6.4	6.4	ug/L	
E200.8/NONE	WG	SAIA-MW3C-0314	N	Barium	10.0	59.8	59.8	ug/L	
E200.8/NONE	WG	SAIA-MW3C-0314	N	Cobalt	1.0	0.62 J	0.62 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW3C-0314	N	Chromium	2.0	7.8	7.8	ug/L	
E200.8/NONE	WG	SAIA-MW3C-0314	N	Copper	2.0	3.0	3.0	ug/L	
E200.8/NONE	WG	SAIA-MW3C-0314	N	Manganese	25.0	3050 D	3050	ug/L	
E200.8/NONE	WG	SAIA-MW3C-0314	N	Nickel	1.0	7.5	7.5	ug/L	
E200.8/NONE	WG	SAIA-MW3C-0314	N	Lead	1.0	0.75 J	0.75 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW3C-0314	N	Zinc	2.0	14.2 *	14.2 J	ug/L	D5
E200.8/NONE	WG	SAIA-MW4A-0314	N	Aluminum	20.0	980	980	ug/L	
E200.8/NONE	WG	SAIA-MW4A-0314	N	Arsenic	1.0	47.3	47.3	ug/L	
E200.8/NONE	WG	SAIA-MW4A-0314	N	Barium	10.0	96.6	96.6	ug/L	
E200.8/NONE	WG	SAIA-MW4A-0314	N	Cobalt	1.0	1.1	1.1	ug/L	

AUTOMATED DATA REVIEW SUMMARY for MY9DP8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	WG	SAIA-MW4A-0314	N	Chromium	2.0	8.6	8.6	ug/L	
E200.8/NONE	WG	SAIA-MW4A-0314	N	Copper	2.0	4.5	4.5	ug/L	
E200.8/NONE	WG	SAIA-MW4A-0314	N	Manganese	1.0	1080	1080	ug/L	
E200.8/NONE	WG	SAIA-MW4A-0314	N	Nickel	1.0	6.9	6.9	ug/L	
E200.8/NONE	WG	SAIA-MW4A-0314	N	Lead	1.0	0.94 J	0.94 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW4A-0314	N	Selenium	5.0	6.6	6.6	ug/L	
E200.8/NONE	WG	SAIA-MW4A-0314	N	Vanadium	5.0	1.6 J	1.6 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW4A-0314	N	Zinc	2.0	13.2 *	13.2	ug/L	
E200.8/NONE	WG	SAIA-MW4B-0314	N	Silver	1.0	0.11 J	0.11 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW4B-0314	N	Aluminum	20.0	157	157	ug/L	
E200.8/NONE	WG	SAIA-MW4B-0314	N	Arsenic	1.0	16.9	16.9	ug/L	
E200.8/NONE	WG	SAIA-MW4B-0314	N	Barium	10.0	36.1	36.1	ug/L	
E200.8/NONE	WG	SAIA-MW4B-0314	N	Cobalt	1.0	0.50 J	0.50 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW4B-0314	N	Chromium	2.0	6.7	6.7	ug/L	
E200.8/NONE	WG	SAIA-MW4B-0314	N	Copper	2.0	2.1	2.1	ug/L	
E200.8/NONE	WG	SAIA-MW4B-0314	N	Manganese	1.0	957	957	ug/L	
E200.8/NONE	WG	SAIA-MW4B-0314	N	Nickel	1.0	3.7	3.7	ug/L	
E200.8/NONE	WG	SAIA-MW4B-0314	N	Lead	1.0	0.59 J	0.59 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW4B-0314	N	Zinc	2.0	9.2 *	9.2	ug/L	
E200.8/NONE	WG	SAIA-MW4C-0314	N	Aluminum	20.0	382	382	ug/L	
E200.8/NONE	WG	SAIA-MW4C-0314	N	Arsenic	1.0	8.3	8.3	ug/L	
E200.8/NONE	WG	SAIA-MW4C-0314	N	Barium	10.0	45.1	45.1	ug/L	
E200.8/NONE	WG	SAIA-MW4C-0314	N	Cobalt	1.0	0.80 J	0.80 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW4C-0314	N	Chromium	2.0	9.0	9.0	ug/L	
E200.8/NONE	WG	SAIA-MW4C-0314	N	Copper	2.0	2.5	2.5	ug/L	
E200.8/NONE	WG	SAIA-MW4C-0314	N	Manganese	25.0	2420 D	2420	ug/L	
E200.8/NONE	WG	SAIA-MW4C-0314	N	Nickel	1.0	7.9	7.9	ug/L	

AUTOMATED DATA REVIEW SUMMARY for MY9DP8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	WG	SAIA-MW4C-0314	N	Lead	1.0	0.80 J	0.80 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW4C-0314	N	Zinc	2.0	9.2 *	9.2	ug/L	
E200.8/NONE	WG	SAIA-MW5A-0314	N	Silver	1.0	0.080 J	0.080 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW5A-0314	N	Aluminum	20.0	1340	1340	ug/L	
E200.8/NONE	WG	SAIA-MW5A-0314	N	Arsenic	1.0	15.7	15.7	ug/L	
E200.8/NONE	WG	SAIA-MW5A-0314	N	Barium	10.0	62.0	62.0	ug/L	
E200.8/NONE	WG	SAIA-MW5A-0314	N	Cobalt	1.0	2.5	2.5	ug/L	
E200.8/NONE	WG	SAIA-MW5A-0314	N	Chromium	2.0	19.0	19.0	ug/L	
E200.8/NONE	WG	SAIA-MW5A-0314	N	Copper	2.0	8.2	8.2	ug/L	
E200.8/NONE	WG	SAIA-MW5A-0314	N	Manganese	25.0	2250 D	2250	ug/L	
E200.8/NONE	WG	SAIA-MW5A-0314	N	Nickel	1.0	14.0	14.0	ug/L	
E200.8/NONE	WG	SAIA-MW5A-0314	N	Lead	1.0	1.8	1.8	ug/L	
E200.8/NONE	WG	SAIA-MW5A-0314	N	Vanadium	5.0	3.7 J	3.7 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW5A-0314	N	Zinc	2.0	19.2 *	19.2	ug/L	
E200.8/NONE	WG	SAIA-MW5B-0314	N	Silver	1.0	0.089 J	0.089 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW5B-0314	N	Aluminum	20.0	611	611	ug/L	
E200.8/NONE	WG	SAIA-MW5B-0314	N	Arsenic	1.0	18.1	18.1	ug/L	
E200.8/NONE	WG	SAIA-MW5B-0314	N	Barium	10.0	47.2	47.2	ug/L	
E200.8/NONE	WG	SAIA-MW5B-0314	N	Cobalt	1.0	1.2	1.2	ug/L	
E200.8/NONE	WG	SAIA-MW5B-0314	N	Chromium	2.0	14.2	14.2	ug/L	
E200.8/NONE	WG	SAIA-MW5B-0314	N	Copper	2.0	4.9	4.9	ug/L	
E200.8/NONE	WG	SAIA-MW5B-0314	N	Manganese	1.0	1930	1930	ug/L	
E200.8/NONE	WG	SAIA-MW5B-0314	N	Nickel	1.0	10.7	10.7	ug/L	
E200.8/NONE	WG	SAIA-MW5B-0314	N	Lead	1.0	1.0	1.0	ug/L	
E200.8/NONE	WG	SAIA-MW5B-0314	N	Vanadium	5.0	0.87 J	0.87 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW5B-0314	N	Zinc	2.0	11.6 *	11.6	ug/L	
E200.8/NONE	WG	SAIA-MW5C-0314	N	Silver	1.0	0.055 J	0.055 J	ug/L	TR

AUTOMATED DATA REVIEW SUMMARY for MY9DP8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	WG	SAIA-MW5C-0314	N	Aluminum	20.0	297	297	ug/L	
E200.8/NONE	WG	SAIA-MW5C-0314	N	Arsenic	1.0	4.9	4.9	ug/L	
E200.8/NONE	WG	SAIA-MW5C-0314	N	Barium	10.0	51.5	51.5	ug/L	
E200.8/NONE	WG	SAIA-MW5C-0314	N	Cobalt	1.0	1.1	1.1	ug/L	
E200.8/NONE	WG	SAIA-MW5C-0314	N	Chromium	2.0	6.3	6.3	ug/L	
E200.8/NONE	WG	SAIA-MW5C-0314	N	Copper	2.0	3.1	3.1	ug/L	
E200.8/NONE	WG	SAIA-MW5C-0314	N	Manganese	25.0	3050 D	3050	ug/L	
E200.8/NONE	WG	SAIA-MW5C-0314	N	Nickel	1.0	7.5	7.5	ug/L	
E200.8/NONE	WG	SAIA-MW5C-0314	N	Lead	1.0	0.68 J	0.68 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW5C-0314	N	Zinc	2.0	7.9 *	7.9	ug/L	
E200.8/NONE	WG	SAIA-MW6A-0314	N	Silver	1.0	0.21 J	0.21 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW6A-0314	N	Aluminum	20.0	7550	7550	ug/L	
E200.8/NONE	WG	SAIA-MW6A-0314	N	Arsenic	1.0	16.0	16.0	ug/L	
E200.8/NONE	WG	SAIA-MW6A-0314	N	Barium	10.0	112	112	ug/L	
E200.8/NONE	WG	SAIA-MW6A-0314	N	Beryllium	1.0	0.36 J	0.36 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW6A-0314	N	Cadmium	1.0	0.15 J	0.15 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW6A-0314	N	Cobalt	1.0	6.7	6.7	ug/L	
E200.8/NONE	WG	SAIA-MW6A-0314	N	Chromium	2.0	27.1	27.1	ug/L	
E200.8/NONE	WG	SAIA-MW6A-0314	N	Copper	2.0	29.4	29.4	ug/L	
E200.8/NONE	WG	SAIA-MW6A-0314	N	Manganese	1.0	454	454	ug/L	
E200.8/NONE	WG	SAIA-MW6A-0314	N	Nickel	1.0	22.4	22.4	ug/L	
E200.8/NONE	WG	SAIA-MW6A-0314	N	Lead	1.0	7.4	7.4	ug/L	
E200.8/NONE	WG	SAIA-MW6A-0314	N	Vanadium	5.0	20.4	20.4	ug/L	
E200.8/NONE	WG	SAIA-MW6A-0314	N	Zinc	2.0	65.1 *	65.1	ug/L	
E200.8/NONE	WG	SAIA-MW6B-0314	N	Silver	1.0	0.049 J	0.049 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW6B-0314	N	Aluminum	20.0	415	415	ug/L	
E200.8/NONE	WG	SAIA-MW6B-0314	N	Arsenic	1.0	5.9	5.9	ug/L	

AUTOMATED DATA REVIEW SUMMARY for MY9DP8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	WG	SAIA-MW6B-0314	N	Barium	10.0	49.1	49.1	ug/L	
E200.8/NONE	WG	SAIA-MW6B-0314	N	Cobalt	1.0	0.73 J	0.73 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW6B-0314	N	Chromium	2.0	10.7	10.7	ug/L	
E200.8/NONE	WG	SAIA-MW6B-0314	N	Copper	2.0	4.6	4.6	ug/L	
E200.8/NONE	WG	SAIA-MW6B-0314	N	Manganese	1.0	1800	1800	ug/L	
E200.8/NONE	WG	SAIA-MW6B-0314	N	Nickel	1.0	7.0	7.0	ug/L	
E200.8/NONE	WG	SAIA-MW6B-0314	N	Lead	1.0	0.45 J	0.45 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW6B-0314	N	Selenium	5.0	12.0	12.0	ug/L	
E200.8/NONE	WG	SAIA-MW6B-0314	N	Zinc	2.0	10.0 *	10.0	ug/L	
E200.8/NONE	WG	SAIA-MW6C-0314	N	Silver	1.0	0.071 J	0.071 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW6C-0314	N	Aluminum	20.0	237	237	ug/L	
E200.8/NONE	WG	SAIA-MW6C-0314	N	Arsenic	1.0	4.2	4.2	ug/L	
E200.8/NONE	WG	SAIA-MW6C-0314	N	Barium	10.0	52.5	52.5	ug/L	
E200.8/NONE	WG	SAIA-MW6C-0314	N	Cobalt	1.0	0.86 J	0.86 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW6C-0314	N	Chromium	2.0	18.6	18.6	ug/L	
E200.8/NONE	WG	SAIA-MW6C-0314	N	Copper	2.0	3.5	3.5	ug/L	
E200.8/NONE	WG	SAIA-MW6C-0314	N	Manganese	25.0	2300 D	2300	ug/L	
E200.8/NONE	WG	SAIA-MW6C-0314	N	Nickel	1.0	13.8	13.8	ug/L	
E200.8/NONE	WG	SAIA-MW6C-0314	N	Lead	1.0	2.0	2.0	ug/L	
E200.8/NONE	WG	SAIA-MW6C-0314	N	Selenium	5.0	12.3	12.3	ug/L	
E200.8/NONE	WG	SAIA-MW6C-0314	N	Zinc	2.0	10.2 *	10.2	ug/L	
E200.8/NONE	WG	SAIA-MW8-0314	N	Silver	1.0	0.27 J	0.27 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW8-0314	N	Aluminum	20.0	178	178	ug/L	
E200.8/NONE	WG	SAIA-MW8-0314	N	Arsenic	1.0	8.9	8.9	ug/L	
E200.8/NONE	WG	SAIA-MW8-0314	N	Barium	10.0	82.6	82.6	ug/L	
E200.8/NONE	WG	SAIA-MW8-0314	N	Cobalt	1.0	0.54 J	0.54 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW8-0314	N	Chromium	2.0	8.4	8.4	ug/L	

AUTOMATED DATA REVIEW SUMMARY for MY9DP8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	WG	SAIA-MW8-0314	N	Copper	2.0	2.3	2.3	ug/L	
E200.8/NONE	WG	SAIA-MW8-0314	N	Manganese	1.0	703	703	ug/L	
E200.8/NONE	WG	SAIA-MW8-0314	N	Nickel	1.0	5.5	5.5	ug/L	
E200.8/NONE	WG	SAIA-MW8-0314	N	Lead	1.0	0.83 J	0.83 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW8-0314	N	Zinc	2.0	25.6 *	25.6	ug/L	
E200.8/NONE	WG	SAIA-MW93C-0314	FD	Silver	1.0	0.066 J	0.066 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW93C-0314	FD	Aluminum	20.0	161	161	ug/L	
E200.8/NONE	WG	SAIA-MW93C-0314	FD	Arsenic	1.0	6.4	6.4	ug/L	
E200.8/NONE	WG	SAIA-MW93C-0314	FD	Barium	10.0	58.1	58.1	ug/L	
E200.8/NONE	WG	SAIA-MW93C-0314	FD	Cobalt	1.0	0.56 J	0.56 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW93C-0314	FD	Chromium	2.0	8.4	8.4	ug/L	
E200.8/NONE	WG	SAIA-MW93C-0314	FD	Copper	2.0	2.6	2.6	ug/L	
E200.8/NONE	WG	SAIA-MW93C-0314	FD	Manganese	25.0	2970 D	2970	ug/L	
E200.8/NONE	WG	SAIA-MW93C-0314	FD	Nickel	1.0	7.0	7.0	ug/L	
E200.8/NONE	WG	SAIA-MW93C-0314	FD	Lead	1.0	0.46 J	0.46 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW93C-0314	FD	Zinc	2.0	8.7 *	8.7 J	ug/L	D5

AUTOMATED DATA REVIEW SUMMARY for MY9DP8

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for Y9DP8

Facility: Southern Avenue Industrial Area

Groundwater Sampling Event, March 2014

Guidance Document:

Contract Laboratory: KAP TECHNOLOGIES INC., THE WOODLANDS, TX

Field Contractor:

Data Review Contractor: Gilbane

SDG: Y9DP8, Certified - 4/29/2014 by wtse

QC Level: S1BVEM

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: November 18, 2014

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG Y9DP8

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
CSVOL12/NONE	17	2
CVOL/NONE	17	3
SW8270D/NONE	17	2

AUTOMATED DATA REVIEW SUMMARY for Y9DP8

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by KAP TECHNOLOGIES INC., THE WOODLANDS, TX and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- LCS Recovery
- Material Blank
- Negative Blank

AUTOMATED DATA REVIEW SUMMARY for Y9DP8

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 90 results (3.86%) out of the 2332 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Gilbane reviewed the KAP Tech lab report, COCs, case narrative, and EXES data review package.

One sample was analyzed out of hold time (H1), and calibration anomalies (C11, G1) were also qualified.

Qualifiers were also added for field (B5) and lab blank (B1) detects, and minor surrogate recoveries (S) and matrix (M) effects.

Most matrix, blank, and surrogate QC outliers were resolved.

18-Nov-2014

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons

Code	Definition
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

Batch Report

Test Method: CSVOL12; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
D13107	F53938	NA	SAIA-MW3A	WG	SAIA-MW3A-0314	S-6376.04MS	D13101	1/1	24-Mar-2014 10:52 AM	27-Mar-2014 1:10 PM	04-Apr-2014 12:29 PM	MS
	F53938	NA	SAIA-MW3A	WG	SAIA-MW3A-0314	S-6376.04MSD	D13101	1/1	24-Mar-2014 10:52 AM	27-Mar-2014 1:10 PM	04-Apr-2014 12:56 PM	SD
	F53938	NA	SAIA-MW3C	WG	SAIA-MW3C-0314	S-6376.06	D13101	1/1	24-Mar-2014 9:02 AM	27-Mar-2014 1:10 PM	04-Apr-2014 2:25 PM	N
	F53938	NA	SAIA-MW3C	WG	SAIA-MW93C-0314	S-6376.07	D13101	1/1	24-Mar-2014 9:07 AM	27-Mar-2014 1:10 PM	04-Apr-2014 2:52 PM	FD
	F53938	NA	SAIA-MW6A	WG	SAIA-MW6A-0314	S-6376.08	D13101	1/1	24-Mar-2014 12:27 PM	27-Mar-2014 1:10 PM	04-Apr-2014 3:18 PM	N
	F53938	NA	SAIA-MW6B	WG	SAIA-MW6B-0314	S-6376.09	D13101	1/1	24-Mar-2014 10:44 AM	27-Mar-2014 1:10 PM	04-Apr-2014 3:45 PM	N
	F53938	NA	SAIA-MW6C	WG	SAIA-MW6C-0314	S-6376.10	D13101	1/1	24-Mar-2014 9:19 AM	27-Mar-2014 1:10 PM	04-Apr-2014 4:11 PM	N
D13128	F53938	NA	MW45	WG	MW45-0314	S-6380.01	D13101	1/1	25-Mar-2014 1:07 PM	27-Mar-2014 1:10 PM	05-Apr-2014 2:15 AM	N
	F53938	NA	MW52	WG	MW52-0314	S-6380.02	D13101	1/1	25-Mar-2014 11:30 AM	27-Mar-2014 1:10 PM	05-Apr-2014 2:41 AM	N
	F53938	NA	MW52	WG	MW952-0314	S-6380.03	D13101	1/1	25-Mar-2014 11:35 AM	27-Mar-2014 1:10 PM	05-Apr-2014 3:08 AM	FD
	F53938	NA	SAIA-MW4A	WG	SAIA-MW4A-0314	S-6380.04	D13101	1/1	25-Mar-2014 8:21 AM	27-Mar-2014 1:10 PM	05-Apr-2014 3:35 AM	N
	F53938	NA	SAIA-MW4B	WG	SAIA-MW4B-0314	S-6380.05	D13101	1/1	25-Mar-2014 10:10 AM	27-Mar-2014 1:10 PM	05-Apr-2014 4:01 AM	N
	F53938	NA	SAIA-MW4C	WG	SAIA-MW4C-0314	S-6380.06	D13101	1/1	25-Mar-2014 9:13 AM	27-Mar-2014 1:10 PM	05-Apr-2014 4:27 AM	N
	F53938	NA	SAIA-MW5A	WG	SAIA-MW5A-0314	S-6380.07	D13101	1/1	25-Mar-2014 10:22 AM	27-Mar-2014 1:10 PM	05-Apr-2014 4:54 AM	N
	F53938	NA	SAIA-MW5B	WG	SAIA-MW5B-0314	S-6380.08	D13101	1/1	25-Mar-2014 11:30 AM	27-Mar-2014 1:10 PM	05-Apr-2014 5:21 AM	N
	F53938	NA	SAIA-MW8	WG	SAIA-MW8-0314	S-6376.11	D13101	1/1	24-Mar-2014 2:20 PM	27-Mar-2014 1:10 PM	05-Apr-2014 1:48 AM	N
F53914	F53938	NA	MW46	WG	MW46-0314	S-6376.01	F53899	1/1	24-Mar-2014 11:42 AM	27-Mar-2014 1:10 PM	02-Apr-2014 5:35 PM	N
	F53938	NA	MW47	WG	MW47-0314	S-6376.02	F53899	1/1	24-Mar-2014 2:15 PM	27-Mar-2014 1:10 PM	02-Apr-2014 6:12 PM	N
F53935	F53938	NA	LABQC	WQ	LABQC	SBLK56	F53899	1/1	27-Mar-2014 1:10 PM	27-Mar-2014 1:10 PM	03-Apr-2014 8:37 AM	LB
	F53938	NA	MW48	WG	MW48-0314	S-6376.03	F53899	1/1	24-Mar-2014 12:37 PM	27-Mar-2014 1:10 PM	03-Apr-2014 9:15 AM	N
	F53938	NA	SAIA-MW3A	WG	SAIA-MW3A-0314	S-6376.04	F53899	1/1	24-Mar-2014 10:52 AM	27-Mar-2014 1:10 PM	03-Apr-2014 9:53 AM	N

AUTOMATED DATA REVIEW SUMMARY for Y9DP8

Batch Report

Test Method: CSVOL12; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
F53935	F53938	NA	SAIA-MW3B	WG	SAIA-MW3B-0314	S-6376.05	F53899	1/1	24-Mar-2014 10:08 AM	27-Mar-2014 1:10 PM	03-Apr-2014 10:30 AM	N

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B50063	B50067	NA	LABQC	WQ	LABQC	VBLK27	B50051	1/1	31-Mar-2014 10:13 AM	31-Mar-2014 10:13 AM	31-Mar-2014 10:13 AM	LB
	B50067	NA	SAIA-MW3A	WG	SAIA-MW3A-0314	S-6376.04	B50051	1/1	24-Mar-2014 10:52 AM	31-Mar-2014 4:50 PM	31-Mar-2014 4:50 PM	N
	B50067	NA	SAIA-MW6A	WG	SAIA-MW6A-0314	S-6376.08	B50051	1/1	24-Mar-2014 12:27 PM	31-Mar-2014 5:22 PM	31-Mar-2014 5:22 PM	N
	B50067	NA	SAIA-MW6B	WG	SAIA-MW6B-0314	S-6376.09	B50051	1/1	24-Mar-2014 10:44 AM	31-Mar-2014 5:54 PM	31-Mar-2014 5:54 PM	N
	B50067	NA	SAIA-MW6C	WG	SAIA-MW6C-0314	S-6376.10	B50051	1/1	24-Mar-2014 9:19 AM	31-Mar-2014 6:27 PM	31-Mar-2014 6:27 PM	N
	B50067	NA	SAIA-MW8	WG	SAIA-MW8-0314	S-6376.11	B50051	1/1	24-Mar-2014 2:20 PM	31-Mar-2014 6:58 PM	31-Mar-2014 6:58 PM	N
B50100	B50104	NA	FIELDQC	WQ	SAIA-RL06-0314	S-6376.12	B50095	1/1	24-Mar-2014 2:20 PM	02-Apr-2014 1:26 PM	02-Apr-2014 1:26 PM	TB
	B50104	NA	LABQC	WQ	LABQC	VBLK32	B50095	1/1	02-Apr-2014 11:17 AM	02-Apr-2014 11:17 AM	02-Apr-2014 11:17 AM	LB
	B50104	NA	MW45	WG	MW45-0314	S-6380.01	B50095	1/1	25-Mar-2014 1:07 PM	02-Apr-2014 11:48 AM	02-Apr-2014 11:48 AM	N
	B50104	NA	MW47	WG	MW47-0314	S-6376.02	B50095	1/8	24-Mar-2014 2:15 PM	02-Apr-2014 2:31 PM	02-Apr-2014 2:31 PM	N
	B50104	NA	MW48	WG	MW48-0314	S-6376.03DL	B50095	1/8	24-Mar-2014 12:37 PM	02-Apr-2014 4:06 PM	02-Apr-2014 4:06 PM	N
	B50104	NA	MW52	WG	MW52-0314	S-6380.02	B50095	1/1	25-Mar-2014 11:30 AM	02-Apr-2014 12:54 PM	02-Apr-2014 12:54 PM	N
	B50104	NA	MW52	WG	MW952-0314	S-6380.03	B50095	1/1	25-Mar-2014 11:35 AM	02-Apr-2014 1:59 PM	02-Apr-2014 1:59 PM	FD
	B50104	NA	SAIA-MW3B	WG	SAIA-MW3B-0314	S-6376.05	B50095	1/50	24-Mar-2014 10:08 AM	02-Apr-2014 5:43 PM	02-Apr-2014 5:43 PM	N
	B50104	NA	SAIA-MW3C	WG	SAIA-MW3C-0314	S-6376.06DL	B50095	1/5	24-Mar-2014 9:02 AM	02-Apr-2014 4:38 PM	02-Apr-2014 4:38 PM	N
	B50104	NA	SAIA-MW3C	WG	SAIA-MW93C-0314	S-6376.07DL	B50095	1/5	24-Mar-2014 9:07 AM	02-Apr-2014 5:11 PM	02-Apr-2014 5:11 PM	FD
B50119	B50126	NA	LABQC	WQ	LABQC	VBLK34	B50124	1/1	04-Apr-2014 12:21 PM	04-Apr-2014 12:21 PM	04-Apr-2014 12:21 PM	LB
	B50126	NA	MW45	WG	MW45-0314	S-6380.01DL	B50124	1/5	25-Mar-2014 1:07 PM	04-Apr-2014 6:47 PM	04-Apr-2014 6:47 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9DP8

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B50119	B50126	NA	MW46	WG	MW46-0314	S-6376.01DL	B50124	1/4	24-Mar-2014 11:42 AM	04-Apr-2014 2:30 PM	04-Apr-2014 2:30 PM	N
	B50126	NA	MW47	WG	MW47-0314	S-6376.02DL	B50124	1/100	24-Mar-2014 2:15 PM	04-Apr-2014 3:03 PM	04-Apr-2014 3:03 PM	N
	B50126	NA	SAIA-MW3A	WG	SAIA-MW3A-0314	S-6376.04MS	B50124	1/1	24-Mar-2014 10:52 AM	04-Apr-2014 5:12 PM	04-Apr-2014 5:12 PM	MS
	B50126	NA	SAIA-MW3A	WG	SAIA-MW3A-0314	S-6376.04MSD	B50124	1/1	24-Mar-2014 10:52 AM	04-Apr-2014 5:44 PM	04-Apr-2014 5:44 PM	SD
	B50126	NA	SAIA-MW3B	WG	SAIA-MW3B-0314	S-6376.05DL	B50124	1/1000	24-Mar-2014 10:08 AM	04-Apr-2014 3:34 PM	04-Apr-2014 3:34 PM	N
	B50126	NA	SAIA-MW4C	WG	SAIA-MW4C-0314	S-6380.06	B50124	1/20	25-Mar-2014 9:13 AM	04-Apr-2014 1:26 PM	04-Apr-2014 1:26 PM	N
B50296	B50298	NA	LABQC	WQ	LABQC	VBLK58	B50295	1/1	15-Apr-2014 9:47 AM	15-Apr-2014 9:47 AM	15-Apr-2014 9:47 AM	LB
	B50298	NA	LABQC	WQ	LABQC	S6376.13	B50295	1/1	15-Apr-2014 12:10 PM	15-Apr-2014 12:10 PM	15-Apr-2014 12:10 PM	LB
	B50298	NA	MW46	WG	MW46-0314	S-6376.01	B50295	1/1	24-Mar-2014 11:42 AM	15-Apr-2014 11:05 AM	15-Apr-2014 11:05 AM	N
G28414	G28417	NA	LABQC	WQ	LABQC	VBLK8V	G28413	1/1	01-Apr-2014 3:27 PM	01-Apr-2014 3:27 PM	01-Apr-2014 3:27 PM	LB
	G28417	NA	MW48	WG	MW48-0314	S-6376.03	G28413	1/1	24-Mar-2014 12:37 PM	01-Apr-2014 4:00 PM	01-Apr-2014 4:00 PM	N
	G28417	NA	SAIA-MW3C	WG	SAIA-MW3C-0314	S-6376.06	G28413	1/1	24-Mar-2014 9:02 AM	01-Apr-2014 6:25 PM	01-Apr-2014 6:25 PM	N
	G28417	NA	SAIA-MW3C	WG	SAIA-MW93C-0314	S-6376.07	G28413	1/1	24-Mar-2014 9:07 AM	01-Apr-2014 8:46 PM	01-Apr-2014 8:46 PM	FD
	G28417	NA	SAIA-MW4A	WG	SAIA-MW4A-0314	S-6380.04	G28413	1/1	25-Mar-2014 8:21 AM	01-Apr-2014 5:00 PM	01-Apr-2014 5:00 PM	N
G28434	G28440	NA	LABQC	WQ	LABQC	VBLK9A	G28439	1/1	04-Apr-2014 12:46 PM	04-Apr-2014 12:46 PM	04-Apr-2014 12:46 PM	LB
	G28440	NA	SAIA-MW4B	WG	SAIA-MW4B-0314	S-6380.05	G28439	1/50	25-Mar-2014 10:10 AM	04-Apr-2014 7:53 PM	04-Apr-2014 7:53 PM	N
	G28440	NA	SAIA-MW4C	WG	SAIA-MW4C-0314	S-6380.06DL	G28439	1/80	25-Mar-2014 9:13 AM	04-Apr-2014 6:00 PM	04-Apr-2014 6:00 PM	N
	G28440	NA	SAIA-MW5A	WG	SAIA-MW5A-0314	S-6380.07	G28439	1/10	25-Mar-2014 10:22 AM	04-Apr-2014 1:57 PM	04-Apr-2014 1:57 PM	N
	G28440	NA	SAIA-MW5A	WG	SAIA-MW5A-0314	S-6380.07DL	G28439	1/50	25-Mar-2014 10:22 AM	04-Apr-2014 6:56 PM	04-Apr-2014 6:56 PM	N
	G28440	NA	SAIA-MW5B	WG	SAIA-MW5B-0314	S-6380.08	G28439	1/50	25-Mar-2014 11:30 AM	04-Apr-2014 2:58 PM	04-Apr-2014 2:58 PM	N
	G28440	NA	SAIA-MW5B	WG	SAIA-MW5B-0314	S-6380.08DL	G28439	1/500	25-Mar-2014 11:30 AM	04-Apr-2014 5:31 PM	04-Apr-2014 5:31 PM	N
G28455	G28458	NA	LABQC	WQ	LABQC	VBLK9C	G28439	1/1	05-Apr-2014 9:57 AM	05-Apr-2014 9:57 AM	05-Apr-2014 9:57 AM	LB

AUTOMATED DATA REVIEW SUMMARY for Y9DP8

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
G28455	G28458	NA	SAIA-MW4B	WG	SAIA-MW4B-0314	S-6380.05DL	G28439	1/400	25-Mar-2014 10:10 AM	05-Apr-2014 10:26 AM	05-Apr-2014 10:26 AM	N

Test Method: SW8270D; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
F53978	F53980	NA	LABQC	WQ	LABQC	SBLK56	F53673	1/1	27-Mar-2014 1:10 PM	27-Mar-2014 1:10 PM	08-Apr-2014 10:19 AM	LB
	F53980	NA	MW46	WG	MW46-0314	S-6376.01	F53673	1/1	24-Mar-2014 11:42 AM	27-Mar-2014 1:10 PM	08-Apr-2014 11:28 AM	N
	F53980	NA	MW47	WG	MW47-0314	S-6376.02	F53673	1/1	24-Mar-2014 2:15 PM	27-Mar-2014 1:10 PM	08-Apr-2014 11:14 AM	N
	F53980	NA	MW48	WG	MW48-0314	S-6376.03	F53673	1/1	24-Mar-2014 12:37 PM	27-Mar-2014 1:10 PM	08-Apr-2014 11:41 AM	N
	F53980	NA	SAIA-MW3A	WG	SAIA-MW3A-0314	S-6376.04	F53673	1/1	24-Mar-2014 10:52 AM	27-Mar-2014 1:10 PM	08-Apr-2014 11:56 AM	N
	F53980	NA	SAIA-MW3B	WG	SAIA-MW3B-0314	S-6376.05	F53673	1/1	24-Mar-2014 10:08 AM	27-Mar-2014 1:10 PM	08-Apr-2014 12:09 PM	N
	F53980	NA	SAIA-MW3C	WG	SAIA-MW3C-0314	S-6376.06	F53673	1/1	24-Mar-2014 9:02 AM	27-Mar-2014 1:10 PM	08-Apr-2014 12:23 PM	N
	F53980	NA	SAIA-MW3C	WG	SAIA-MW93C-0314	S-6376.07	F53673	1/1	24-Mar-2014 9:07 AM	27-Mar-2014 1:10 PM	08-Apr-2014 12:37 PM	FD
F53999	F53980	NA	MW45	WG	MW45-0314	S-6380.01	F53673	1/1	25-Mar-2014 1:07 PM	27-Mar-2014 1:10 PM	09-Apr-2014 11:47 AM	N
	F53980	NA	MW48	WG	MW48-0314	S-6376.03DL	F53673	1/5	24-Mar-2014 12:37 PM	27-Mar-2014 1:10 PM	09-Apr-2014 9:32 AM	N
	F53980	NA	MW52	WG	MW52-0314	S-6380.02	F53673	1/1	25-Mar-2014 11:30 AM	27-Mar-2014 1:10 PM	09-Apr-2014 11:08 AM	N
	F53980	NA	MW52	WG	MW952-0314	S-6380.03	F53673	1/1	25-Mar-2014 11:35 AM	27-Mar-2014 1:10 PM	09-Apr-2014 12:02 PM	FD
	F53980	NA	SAIA-MW3B	WG	SAIA-MW3B-0314	S-6376.05DL	F53673	1/20	24-Mar-2014 10:08 AM	27-Mar-2014 1:10 PM	09-Apr-2014 9:46 AM	N
	F53980	NA	SAIA-MW4A	WG	SAIA-MW4A-0314	S-6380.04	F53673	1/1	25-Mar-2014 8:21 AM	27-Mar-2014 1:10 PM	09-Apr-2014 12:15 PM	N
	F53980	NA	SAIA-MW4B	WG	SAIA-MW4B-0314	S-6380.05	F53673	1/1	25-Mar-2014 10:10 AM	27-Mar-2014 1:10 PM	09-Apr-2014 12:29 PM	N
	F53980	NA	SAIA-MW4B	WG	SAIA-MW4B-0314	S-6380.05DL	F53673	1/10	25-Mar-2014 10:10 AM	27-Mar-2014 1:10 PM	09-Apr-2014 12:45 PM	N
	F53980	NA	SAIA-MW4C	WG	SAIA-MW4C-0314	S-6380.06	F53673	1/1	25-Mar-2014 9:13 AM	27-Mar-2014 1:10 PM	09-Apr-2014 12:59 PM	N
	F53980	NA	SAIA-MW4C	WG	SAIA-MW4C-0314	S-6380.06DL	F53673	1/5	25-Mar-2014 9:13 AM	27-Mar-2014 1:10 PM	09-Apr-2014 1:39 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9DP8

Batch Report

Test Method: SW8270D; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
F53999	F53980	NA	SAIA-MW5A	WG	SAIA-MW5A-0314	S-6380.07	F53673	1/1	25-Mar-2014 10:22 AM	27-Mar-2014 1:10 PM	09-Apr-2014 1:12 PM	N
	F53980	NA	SAIA-MW5B	WG	SAIA-MW5B-0314	S-6380.08	F53673	1/1	25-Mar-2014 11:30 AM	27-Mar-2014 1:10 PM	09-Apr-2014 1:26 PM	N
	F53980	NA	SAIA-MW5B	WG	SAIA-MW5B-0314	S-6380.08DL	F53673	1/5	25-Mar-2014 11:30 AM	27-Mar-2014 1:10 PM	09-Apr-2014 1:52 PM	N
	F53980	NA	SAIA-MW6A	WG	SAIA-MW6A-0314	S-6376.08	F53673	1/1	24-Mar-2014 12:27 PM	27-Mar-2014 1:10 PM	09-Apr-2014 10:01 AM	N
	F53980	NA	SAIA-MW6B	WG	SAIA-MW6B-0314	S-6376.09	F53673	1/1	24-Mar-2014 10:44 AM	27-Mar-2014 1:10 PM	09-Apr-2014 10:14 AM	N
	F53980	NA	SAIA-MW6C	WG	SAIA-MW6C-0314	S-6376.10	F53673	1/1	24-Mar-2014 9:19 AM	27-Mar-2014 1:10 PM	09-Apr-2014 10:28 AM	N
	F53980	NA	SAIA-MW8	WG	SAIA-MW8-0314	S-6376.11	F53673	1/1	24-Mar-2014 2:20 PM	27-Mar-2014 1:10 PM	09-Apr-2014 10:40 AM	N
F54032	F54044	NA	LABQC	WQ	LABQC	SBLK65	F54032	1/1	06-Apr-2014 1:10 PM	06-Apr-2014 1:10 PM	11-Apr-2014 4:35 PM	LB

Field Batch Report

Test Method: CVOL **Leach Method: NONE**

EBLOT	TBLOT	ABLOT	LOCID	Matrix	FLDSAMPID	LABSAMPID	LOGDATE	SACODE
	24031401		FIELDQC	WQ	SAIA-RL06-0314	S-6376.12	3/24/2014 2:20:00 PM	TB
	24031401		MW46	WG	MW46-0314	S-6376.01	3/24/2014 11:42:00 AM	N
	24031401		MW46	WG	MW46-0314	S-6376.01DL	3/24/2014 11:42:00 AM	N
	24031401		MW47	WG	MW47-0314	S-6376.02	3/24/2014 2:15:00 PM	N
	24031401		MW47	WG	MW47-0314	S-6376.02DL	3/24/2014 2:15:00 PM	N
	24031401		MW48	WG	MW48-0314	S-6376.03	3/24/2014 12:37:00 PM	N
	24031401		MW48	WG	MW48-0314	S-6376.03DL	3/24/2014 12:37:00 PM	N
	24031401		SAIA-MW3A	WG	SAIA-MW3A-0314	S-6376.04	3/24/2014 10:52:00 AM	N
	24031401		SAIA-MW3A	WG	SAIA-MW3A-0314	S-6376.04MS	3/24/2014 10:52:00 AM	MS
	24031401		SAIA-MW3A	WG	SAIA-MW3A-0314	S-6376.04MSD	3/24/2014 10:52:00 AM	SD
	24031401		SAIA-MW3B	WG	SAIA-MW3B-0314	S-6376.05	3/24/2014 10:08:00 AM	N
	24031401		SAIA-MW3B	WG	SAIA-MW3B-0314	S-6376.05DL	3/24/2014 10:08:00 AM	N
	24031401		SAIA-MW3C	WG	SAIA-MW3C-0314	S-6376.06	3/24/2014 9:02:00 AM	N
	24031401		SAIA-MW3C	WG	SAIA-MW3C-0314	S-6376.06DL	3/24/2014 9:02:00 AM	N
	24031401		SAIA-MW3C	WG	SAIA-MW93C-0314	S-6376.07	3/24/2014 9:07:00 AM	FD
	24031401		SAIA-MW3C	WG	SAIA-MW93C-0314	S-6376.07DL	3/24/2014 9:07:00 AM	FD
	24031401		SAIA-MW6A	WG	SAIA-MW6A-0314	S-6376.08	3/24/2014 12:27:00 PM	N
	24031401		SAIA-MW6B	WG	SAIA-MW6B-0314	S-6376.09	3/24/2014 10:44:00 AM	N
	24031401		SAIA-MW6C	WG	SAIA-MW6C-0314	S-6376.10	3/24/2014 9:19:00 AM	N
	24031401		SAIA-MW8	WG	SAIA-MW8-0314	S-6376.11	3/24/2014 2:20:00 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9DP8

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CSVOL12 / SW3510C	MS Recovery	SAIA-MW3A-0314 (MS)	1 / 1.00	4-Chloro-3-Methylphenol	113	Percent	J/None	23 - 97	10 - 120	M			
CSVOL12 / SW3510C	MS Recovery	SAIA-MW3A-0314 (SD)	1 / 1.00	4-Chloro-3-Methylphenol	115	Percent	J/None	23 - 97	10 - 120	M			
CSVOL12 / SW3510C	MS Recovery	SAIA-MW3A-0314 (MS)	1 / 1.00	4-Nitrophenol	120	Percent	J/None	10 - 80	5 - 120	M			
CSVOL12 / SW3510C	MS Recovery	SAIA-MW3A-0314 (SD)	1 / 1.00	4-Nitrophenol	123	Percent	J/None	10 - 80	5 - 120	M			
CSVOL12 / SW3510C	MS Recovery	SAIA-MW3A-0314 (MS)	1 / 1.00	Pentachlorophenol	115	Percent	J/None	9 - 103	5 - 120	M			
CSVOL12 / SW3510C	MS Recovery	SAIA-MW3A-0314 (SD)	1 / 1.00	Pentachlorophenol	120	Percent	J/None	9 - 103	5 - 120	M			
CSVOL12 / SW3510C	Surrogate	MW46-0314 (N)	1 / 1.00	2-Nitrophenol-d4	115	Percent	J/None	40 - 108	10 - 120	S			
CSVOL12 / SW3510C	Surrogate	MW46-0314 (N)	1 / 1.00	4,6-Dinitro-2-methylphenol-d2	108	Percent	J/None	22 - 104	10 - 120	S			
CSVOL12 / SW3510C	Surrogate	MW47-0314 (N)	1 / 1.00	2-Nitrophenol-d4	113	Percent	J/None	40 - 108	10 - 120	S			
CSVOL12 / SW3510C	Surrogate	MW47-0314 (N)	1 / 1.00	4,6-Dinitro-2-methylphenol-d2	108	Percent	J/None	22 - 104	10 - 120	S			
CSVOL12 / SW3510C	Surrogate	SAIA-MW3B-0314 (N)	1 / 1.00	2-Nitrophenol-d4	110	Percent	J/None	40 - 108	10 - 120	S			
CSVOL12 / SW3510C	Surrogate	SAIA-MW3B-0314 (N)	1 / 1.00	4,6-Dinitro-2-methylphenol-d2	108	Percent	J/None	22 - 104	10 - 120	S			
CSVOL12 / SW3510C	Surrogate	SAIA-MW4B-0314 (N)	1 / 1.00	2,4-Dichlorophenol-d3	108	Percent	J/None	37 - 105	10 - 120	S			
CSVOL12 / SW3510C	Surrogate	SAIA-MW4B-0314 (N)	1 / 1.00	4-Nitrophenol-d4	120	Percent	J/None	33 - 116	10 - 120	S			
CSVOL12 / SW3510C	Surrogate	SAIA-MW4B-0314 (N)	1 / 1.00	Pyrene-d10	110	Percent	J/None	39 - 106	10 - 120	S			
CSVOL12 / SW3510C	Surrogate	SAIA-MW4C-0314 (N)	1 / 1.00	4-Nitrophenol-d4	123	Percent	J/None	33 - 116	10 - 120	S			
CSVOL12 / SW3510C	Surrogate	SAIA-MW6B-0314 (N)	1 / 1.00	4-Nitrophenol-d4	120	Percent	J/None	33 - 116	10 - 120	S			
CVOL / METHOD	Blank	S6376.13 (LB)	1 / 1.00	cis-1,2-Dichloroethylene	0.0320	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	S6376.13 (LB)	1 / 1.00	Methylene Chloride	0.130	UG/L	U/None	< 0.2	< 0.5	B1			
CVOL / METHOD	Blank	VBLK27 (LB)	1 / 1.00	1,2,3-Trichlorobenzene	0.120	UG/L	U/None	< 0.4	< 0.5	B1			
CVOL / METHOD	Blank	VBLK27 (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.110	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK27 (LB)	1 / 1.00	1,3-Dichlorobenzene	0.0310	UG/L	U/None	< 0.3	< 0.5	B1			

AUTOMATED DATA REVIEW SUMMARY for Y9DP8

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CVOL / METHOD	Blank	VBLK27 (LB)	1 / 1.00	Bromomethane	0.210	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK27 (LB)	1 / 1.00	Methylene Chloride	0.200	UG/L	U/None	< 0.2	< 0.5	B1			
CVOL / METHOD	Blank	VBLK32 (LB)	1 / 1.00	1,2,3-Trichlorobenzene	0.0910	UG/L	U/None	< 0.4	< 0.5	B1			
CVOL / METHOD	Blank	VBLK32 (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.0980	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK32 (LB)	1 / 1.00	Methylene Chloride	0.410	UG/L	U/None	< 0.2	< 0.5	B1			
CVOL / METHOD	Blank	VBLK32 (LB)	1 / 1.00	Toluene	0.140	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK34 (LB)	1 / 1.00	Methylene Chloride	0.170	UG/L	U/None	< 0.2	< 0.5	B1			
CVOL / METHOD	Blank	VBLK34 (LB)	1 / 1.00	Toluene	0.110	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK58 (LB)	1 / 1.00	1,2,3-Trichlorobenzene	0.220	UG/L	U/None	< 0.4	< 0.5	B1			
CVOL / METHOD	Blank	VBLK58 (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.230	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK58 (LB)	1 / 1.00	1,3-Dichlorobenzene	0.100	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK58 (LB)	1 / 1.00	1,4-Dichlorobenzene	0.100	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK58 (LB)	1 / 1.00	Ethylbenzene	0.0440	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK58 (LB)	1 / 1.00	Isopropylbenzene (Cumene)	0.0450	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK58 (LB)	1 / 1.00	m,p-Xylene	0.0480	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK58 (LB)	1 / 1.00	Methylene Chloride	0.120	UG/L	U/None	< 0.2	< 0.5	B1			
CVOL / METHOD	Blank	VBLK58 (LB)	1 / 1.00	o-Xylene	0.0410	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK58 (LB)	1 / 1.00	Styrene	0.0560	UG/L	U/None	< 0.4	< 0.5	B1			
CVOL / METHOD	Blank	VBLK8V (LB)	1 / 1.00	Methylene Chloride	0.440	UG/L	U/None	< 0.2	< 0.5	B1			
CVOL / METHOD	Blank	VBLK8V (LB)	1 / 1.00	Toluene	0.160	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9A (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.110	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9A (LB)	1 / 1.00	Methylene Chloride	0.0530	UG/L	U/None	< 0.2	< 0.5	B1			

AUTOMATED DATA REVIEW SUMMARY for Y9DP8

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CVOL / METHOD	Blank	VBLK9C (LB)	1 / 1.00	Methylene Chloride	0.110	UG/L	U/None	< 0.2	< 0.5	B1			
CVOL / METHOD	MS Recovery	SAIA-MW3A-0314 (MS)	1 / 1.00	Trichloroethene (TCE)	136	PERCENT	J/None	70 - 130	20 - 140	M			
CVOL / METHOD	MS Recovery	SAIA-MW3A-0314 (SD)	1 / 1.00	Trichloroethene (TCE)	136	PERCENT	J/None	70 - 130	20 - 140	M			
CVOL / METHOD	Test Hold Time	MW46-0314 (N)	1 / 1.00	All in Run	22.0	Days	J/UJ	< 14	< 28	H1			
CVOL / METHOD	Test Hold Time	MW46-0314 (N)	1 / 1.00	All in Run	22.0	Days	J/UJ	< 14	< 28	H1			
SW8270D / SW3510C	Surrogate	SAIA-MW3B-0314 (N)	1 / 1.00	1,4-Dioxane-d8	3350	PERCENT	J/None	40 - 135	10 - 140	S			

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	MW45-0314	N	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	MW46-0314	N	1,1,1-Trichloroethane	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	1,1,2,2-Tetrachloroethane	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	1,1,2-Trichloroethane	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	1,1-Dichloroethane	0.50	0.097 J	0.097 J	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	1,2,3-Trichloropropane	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	1,2,4-Trichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	1,2-Dibromo-3-chloropropane	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	1,2-Dibromoethane (EDB)	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	1,2-Dichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	1,2-Dichloroethane	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	1,2-Dichloropropane	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	1,3-Dichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	1,4-Dichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	2-Hexanone	5.0	5.0 U	5.0 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	4-Methyl-2-pentanone (MIBK)	5.0	0.36 J	0.36 J	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	Acetone	5.0	5.0 U	5.0 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	Benzene	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	Bromochloromethane	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	Bromodichloromethane	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	Bromoform	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	Bromomethane	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	Carbon Disulfide	0.50	0.50 U	0.50 UJ	UG/L	H1

AUTOMATED DATA REVIEW SUMMARY for Y9DP8

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	MW46-0314	N	Carbon Tetrachloride	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	Chlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	Chloroethane	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	Chloroform	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	Chloromethane	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	cis-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	Cyclohexane	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	Dibromochloromethane	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	Dichlorodifluoromethane	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	Ethylbenzene	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	Isopropylbenzene (Cumene)	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	m,p-Xylene	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	Methyl Acetate	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	Methylcyclohexane	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	Methylene Chloride	0.50	0.50 JB	0.50 UJ	UG/L	B1/H1
CVOL/NONE	WG	MW46-0314	N	o-Xylene	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	Styrene	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	tert-Butyl Methyl Ether (MTBE)	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	Tetrachloroethene (PCE)	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	Toluene	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	trans-1,2-Dichloroethene	0.50	3.7	3.7 J	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	trans-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	Trichloroethene (TCE)	0.50	8.6	8.6 J	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	Trichlorofluoromethane	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	Vinyl Chloride	0.50	0.50 U	0.50 UJ	UG/L	H1
CVOL/NONE	WG	MW47-0314	N	1,1-Dichloroethane	4.0	1.3 J	1.3 J	UG/L	TR
CVOL/NONE	WG	MW47-0314	N	Methylene Chloride	4.0	4.0 JB	4.0 U	UG/L	B1

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	MW47-0314	N	Toluene	4.0	4.0 JB	4.0 U	UG/L	B1
CVOL/NONE	WG	MW48-0314	N	Bromoform	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	MW48-0314	N	Bromomethane	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	MW48-0314	N	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	MW52-0314	N	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	MW952-0314	FD	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW3A-0314	N	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW3A-0314	N	Trichloroethene (TCE)	0.50	9.2	9.2 J	UG/L	M
CVOL/NONE	WG	SAIA-MW3B-0314	N	1,1-Dichloroethene	25.0	18.0 J	18.0 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW3B-0314	N	Methylene Chloride	25.0	25.0 JB	25.0 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW3B-0314	N	Toluene	25.0	25.0 JB	25.0 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW3C-0314	N	Bromoform	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	SAIA-MW3C-0314	N	Bromomethane	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	SAIA-MW3C-0314	N	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW3C-0314	N	Toluene	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW4A-0314	N	Bromoform	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	SAIA-MW4A-0314	N	Bromomethane	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	SAIA-MW4A-0314	N	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW4A-0314	N	Toluene	0.50	0.50 U	0.50 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW4B-0314	N	1,1-Dichloroethane	25.0	15.0 J	15.0 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW4B-0314	N	Methylene Chloride	25.0	25.0 JB	25.0 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW4C-0314	N	1,1-Dichloroethane	10.0	3.6 J	3.6 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW4C-0314	N	Methylene Chloride	10.0	10.0 JB	10.0 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW4C-0314	N	Toluene	10.0	10.0 JB	10.0 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW4C-0314	N	Trichloroethene (TCE)	10.0	3.9 J	3.9 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW5A-0314	N	1,1,2,2-Tetrachloroethane	5.0	5.0 U	5.0 UJ	UG/L	S
CVOL/NONE	WG	SAIA-MW5A-0314	N	1,2-Dibromo-3-chloropropane	5.0	5.0 U	5.0 UJ	UG/L	S

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW5A-0314	N	1,4-Dichlorobenzene	5.0	0.70 J	0.70 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW5A-0314	N	Methylene Chloride	5.0	5.0 JB	5.0 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW5A-0314	N	Toluene	5.0	1.4 J	1.4 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW5A-0314	N	Trichloroethene (TCE)	5.0	1.8 J	1.8 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW5B-0314	N	Methylene Chloride	25.0	25.0 JB	25.0 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW5B-0314	N	Toluene	25.0	8.9 J	8.9 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW6A-0314	N	cis-1,2-Dichloroethylene	0.50	0.50 J	0.50 U	UG/L	B5
CVOL/NONE	WG	SAIA-MW6A-0314	N	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW6B-0314	N	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW6C-0314	N	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW8-0314	N	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW93C-0314	FD	1,2,3-Trichlorobenzene	0.50	0.32 J	0.32 J	UG/L	G1
CVOL/NONE	WG	SAIA-MW93C-0314	FD	1,2,4-Trichlorobenzene	0.50	0.13 J	0.13 J	UG/L	G1
CVOL/NONE	WG	SAIA-MW93C-0314	FD	Bromoform	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	SAIA-MW93C-0314	FD	Bromomethane	0.50	0.12 J	0.12 J	UG/L	C11
CVOL/NONE	WG	SAIA-MW93C-0314	FD	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WQ	SAIA-RL06-0314	TB	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
Test Leach	**Matrix**	**FieldSample ID**	**Type**	**Analyte**	**RL**	**Lab Result**	**Qualified Result**	**Units**	**Reason**
SW8270D/NONE	WG	SAIA-MW3B-0314	N	1,4-Dioxane (p-Dioxane)	10.0	110 D	110 J	UG/L	S

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	WG	MW52-0314	N	bis(2-Ethylhexyl) Phthalate	5.0	2.3 J	2.3	UG/L	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	MW45-0314	N	1,1-Dichloroethane	0.50	0.21 J	0.21	UG/L	
CVOL/NONE	WG	MW45-0314	N	1,2-Dichloroethane	0.50	0.84	0.84	UG/L	
CVOL/NONE	WG	MW45-0314	N	1,3-Dichlorobenzene	0.50	0.070 J	0.070	UG/L	
CVOL/NONE	WG	MW45-0314	N	cis-1,2-Dichloroethylene	2.5	39.0 D	39.0	UG/L	
CVOL/NONE	WG	MW45-0314	N	trans-1,2-Dichloroethene	0.50	3.7	3.7	UG/L	
CVOL/NONE	WG	MW45-0314	N	Trichloroethene (TCE)	0.50	2.2	2.2	UG/L	
CVOL/NONE	WG	MW46-0314	N	1,1-Dichloroethane	0.50	0.097 J	0.097 J	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	cis-1,2-Dichloroethylene	2.0	47.0 D	47.0	UG/L	
CVOL/NONE	WG	MW46-0314	N	trans-1,2-Dichloroethene	0.50	3.7	3.7 J	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	4-Methyl-2-pentanone (MIBK)	5.0	0.36 J	0.36 J	UG/L	H1
CVOL/NONE	WG	MW46-0314	N	Trichloroethene (TCE)	0.50	8.6	8.6 J	UG/L	H1
CVOL/NONE	WG	MW47-0314	N	1,1-Dichloroethane	4.0	1.3 J	1.3 J	UG/L	TR
CVOL/NONE	WG	MW47-0314	N	cis-1,2-Dichloroethylene	50.0	700 D	700	UG/L	
CVOL/NONE	WG	MW47-0314	N	trans-1,2-Dichloroethene	4.0	47.0	47.0	UG/L	
CVOL/NONE	WG	MW47-0314	N	Trichloroethene (TCE)	4.0	14.0	14.0	UG/L	
CVOL/NONE	WG	MW48-0314	N	Cyclohexane	0.50	0.87	0.87	UG/L	
CVOL/NONE	WG	MW48-0314	N	1,1-Dichloroethane	0.50	1.6	1.6	UG/L	
CVOL/NONE	WG	MW48-0314	N	1,2-Dichloroethane	0.50	6.9	6.9	UG/L	
CVOL/NONE	WG	MW48-0314	N	1,1-Dichloroethene	0.50	2.1	2.1	UG/L	
CVOL/NONE	WG	MW48-0314	N	cis-1,2-Dichloroethylene	4.0	82.0 D	82.0	UG/L	
CVOL/NONE	WG	MW48-0314	N	trans-1,2-Dichloroethene	0.50	5.5	5.5	UG/L	
CVOL/NONE	WG	MW48-0314	N	1,2-Dichloropropane	0.50	0.12 J	0.12	UG/L	
CVOL/NONE	WG	MW48-0314	N	Trichloroethene (TCE)	4.0	29.0 D	29.0	UG/L	
CVOL/NONE	WG	MW52-0314	N	Benzene	0.50	2.4	2.4	UG/L	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	MW52-0314	N	Cyclohexane	0.50	0.96	0.96	UG/L	
CVOL/NONE	WG	MW52-0314	N	cis-1,2-Dichloroethylene	0.50	18.0	18.0	UG/L	
CVOL/NONE	WG	MW52-0314	N	trans-1,2-Dichloroethene	0.50	5.0	5.0	UG/L	
CVOL/NONE	WG	MW52-0314	N	Trichloroethene (TCE)	0.50	6.1	6.1	UG/L	
CVOL/NONE	WG	MW952-0314	FD	Benzene	0.50	2.1	2.1	UG/L	
CVOL/NONE	WG	MW952-0314	FD	Cyclohexane	0.50	0.78	0.78	UG/L	
CVOL/NONE	WG	MW952-0314	FD	cis-1,2-Dichloroethylene	0.50	16.0	16.0	UG/L	
CVOL/NONE	WG	MW952-0314	FD	trans-1,2-Dichloroethene	0.50	4.2	4.2	UG/L	
CVOL/NONE	WG	MW952-0314	FD	Trichloroethene (TCE)	0.50	5.6	5.6	UG/L	
CVOL/NONE	WG	SAIA-MW3A-0314	N	Toluene	0.50	0.073 J	0.073	UG/L	
CVOL/NONE	WG	SAIA-MW3A-0314	N	1,1-Dichloroethane	0.50	0.13 J	0.13	UG/L	
CVOL/NONE	WG	SAIA-MW3A-0314	N	cis-1,2-Dichloroethylene	0.50	8.9	8.9	UG/L	
CVOL/NONE	WG	SAIA-MW3A-0314	N	trans-1,2-Dichloroethene	0.50	0.20 J	0.20	UG/L	
CVOL/NONE	WG	SAIA-MW3A-0314	N	Trichloroethene (TCE)	0.50	9.2	9.2 J	UG/L	M
CVOL/NONE	WG	SAIA-MW3B-0314	N	1,1-Dichloroethane	25.0	49.0	49.0	UG/L	
CVOL/NONE	WG	SAIA-MW3B-0314	N	1,1-Dichloroethene	25.0	18.0 J	18.0 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW3B-0314	N	cis-1,2-Dichloroethylene	500	7000 D	7000	UG/L	
CVOL/NONE	WG	SAIA-MW3B-0314	N	trans-1,2-Dichloroethene	25.0	120	120	UG/L	
CVOL/NONE	WG	SAIA-MW3B-0314	N	Trichloroethene (TCE)	500	6700 D	6700	UG/L	
CVOL/NONE	WG	SAIA-MW3C-0314	N	Cyclohexane	0.50	0.16 J	0.16	UG/L	
CVOL/NONE	WG	SAIA-MW3C-0314	N	1,1-Dichloroethane	0.50	0.20 J	0.20	UG/L	
CVOL/NONE	WG	SAIA-MW3C-0314	N	1,2-Dichloroethane	0.50	1.8	1.8	UG/L	
CVOL/NONE	WG	SAIA-MW3C-0314	N	cis-1,2-Dichloroethylene	2.5	38.0 D	38.0	UG/L	
CVOL/NONE	WG	SAIA-MW3C-0314	N	trans-1,2-Dichloroethene	0.50	2.5	2.5	UG/L	
CVOL/NONE	WG	SAIA-MW3C-0314	N	1,2-Dichloropropane	0.50	0.23 J	0.23	UG/L	
CVOL/NONE	WG	SAIA-MW3C-0314	N	Trichloroethene (TCE)	0.50	2.1	2.1	UG/L	
CVOL/NONE	WG	SAIA-MW4A-0314	N	1,1-Dichloroethane	0.50	0.32 J	0.32	UG/L	

AUTOMATED DATA REVIEW SUMMARY for Y9DP8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW4A-0314	N	cis-1,2-Dichloroethylene	0.50	4.7	4.7	UG/L	
CVOL/NONE	WG	SAIA-MW4A-0314	N	trans-1,2-Dichloroethene	0.50	0.19 J	0.19	UG/L	
CVOL/NONE	WG	SAIA-MW4A-0314	N	Trichloroethene (TCE)	0.50	0.53	0.53	UG/L	
CVOL/NONE	WG	SAIA-MW4B-0314	N	1,1-Dichloroethane	25.0	15.0 J	15.0 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW4B-0314	N	cis-1,2-Dichloroethylene	200	4200 D	4200	UG/L	
CVOL/NONE	WG	SAIA-MW4B-0314	N	trans-1,2-Dichloroethene	25.0	130	130	UG/L	
CVOL/NONE	WG	SAIA-MW4B-0314	N	Trichloroethene (TCE)	25.0	790	790	UG/L	
CVOL/NONE	WG	SAIA-MW4C-0314	N	1,1-Dichloroethane	10.0	3.6 J	3.6 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW4C-0314	N	cis-1,2-Dichloroethylene	40.0	910 D	910	UG/L	
CVOL/NONE	WG	SAIA-MW4C-0314	N	trans-1,2-Dichloroethene	10.0	53.0	53.0	UG/L	
CVOL/NONE	WG	SAIA-MW4C-0314	N	Trichloroethene (TCE)	10.0	3.9 J	3.9 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW5A-0314	N	Toluene	5.0	1.4 J	1.4 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW5A-0314	N	1,4-Dichlorobenzene	5.0	0.70 J	0.70 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW5A-0314	N	cis-1,2-Dichloroethylene	25.0	530 D	530	UG/L	
CVOL/NONE	WG	SAIA-MW5A-0314	N	trans-1,2-Dichloroethene	5.0	21.0	21.0	UG/L	
CVOL/NONE	WG	SAIA-MW5A-0314	N	Trichloroethene (TCE)	5.0	1.8 J	1.8 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW5B-0314	N	Toluene	25.0	8.9 J	8.9 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW5B-0314	N	cis-1,2-Dichloroethylene	250	3100 D	3100	UG/L	
CVOL/NONE	WG	SAIA-MW5B-0314	N	trans-1,2-Dichloroethene	25.0	98.0	98.0	UG/L	
CVOL/NONE	WG	SAIA-MW5B-0314	N	Trichloroethene (TCE)	25.0	380	380	UG/L	
CVOL/NONE	WG	SAIA-MW6A-0314	N	tert-Butyl Methyl Ether (MTBE)	0.50	0.24 J	0.24	UG/L	
CVOL/NONE	WG	SAIA-MW6A-0314	N	Trichloroethene (TCE)	0.50	0.087 J	0.087	UG/L	
CVOL/NONE	WG	SAIA-MW6B-0314	N	Toluene	0.50	0.069 J	0.069	UG/L	
CVOL/NONE	WG	SAIA-MW6B-0314	N	1,2-Dichloroethane	0.50	0.12 J	0.12	UG/L	
CVOL/NONE	WG	SAIA-MW6B-0314	N	cis-1,2-Dichloroethylene	0.50	13.0	13.0	UG/L	
CVOL/NONE	WG	SAIA-MW6B-0314	N	trans-1,2-Dichloroethene	0.50	3.9	3.9	UG/L	
CVOL/NONE	WG	SAIA-MW6B-0314	N	Trichloroethene (TCE)	0.50	3.7	3.7	UG/L	

AUTOMATED DATA REVIEW SUMMARY for Y9DP8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW6B-0314	N	Chloroform	0.50	1.9	1.9	UG/L	
CVOL/NONE	WG	SAIA-MW6C-0314	N	Toluene	0.50	0.075 J	0.075	UG/L	
CVOL/NONE	WG	SAIA-MW6C-0314	N	1,2-Dichloroethane	0.50	0.20 J	0.20	UG/L	
CVOL/NONE	WG	SAIA-MW6C-0314	N	cis-1,2-Dichloroethylene	0.50	17.0	17.0	UG/L	
CVOL/NONE	WG	SAIA-MW6C-0314	N	trans-1,2-Dichloroethene	0.50	2.3	2.3	UG/L	
CVOL/NONE	WG	SAIA-MW6C-0314	N	Trichloroethene (TCE)	0.50	2.0	2.0	UG/L	
CVOL/NONE	WG	SAIA-MW6C-0314	N	m,p-Xylene	0.50	0.031 J	0.031	UG/L	
CVOL/NONE	WG	SAIA-MW8-0314	N	Toluene	0.50	0.18 J	0.18	UG/L	
CVOL/NONE	WG	SAIA-MW8-0314	N	1,2-Dichloroethane	0.50	0.18 J	0.18	UG/L	
CVOL/NONE	WG	SAIA-MW8-0314	N	cis-1,2-Dichloroethylene	0.50	0.83	0.83	UG/L	
CVOL/NONE	WG	SAIA-MW8-0314	N	trans-1,2-Dichloroethene	0.50	0.080 J	0.080	UG/L	
CVOL/NONE	WG	SAIA-MW8-0314	N	Trichloroethene (TCE)	0.50	0.53	0.53	UG/L	
CVOL/NONE	WG	SAIA-MW93C-0314	FD	Bromomethane	0.50	0.12 J	0.12 J	UG/L	C11
CVOL/NONE	WG	SAIA-MW93C-0314	FD	Cyclohexane	0.50	0.16 J	0.16	UG/L	
CVOL/NONE	WG	SAIA-MW93C-0314	FD	1,1-Dichloroethane	0.50	0.20 J	0.20	UG/L	
CVOL/NONE	WG	SAIA-MW93C-0314	FD	1,2-Dichloroethane	0.50	1.6	1.6	UG/L	
CVOL/NONE	WG	SAIA-MW93C-0314	FD	1,3-Dichlorobenzene	0.50	0.095 J	0.095	UG/L	
CVOL/NONE	WG	SAIA-MW93C-0314	FD	cis-1,2-Dichloroethylene	2.5	37.0 D	37.0	UG/L	
CVOL/NONE	WG	SAIA-MW93C-0314	FD	trans-1,2-Dichloroethene	0.50	2.5	2.5	UG/L	
CVOL/NONE	WG	SAIA-MW93C-0314	FD	1,2-Dichloropropane	0.50	0.25 J	0.25	UG/L	
CVOL/NONE	WG	SAIA-MW93C-0314	FD	Styrene	0.50	0.036 J	0.036	UG/L	
CVOL/NONE	WG	SAIA-MW93C-0314	FD	1,2,3-Trichlorobenzene	0.50	0.32 J	0.32 J	UG/L	G1
CVOL/NONE	WG	SAIA-MW93C-0314	FD	1,2,4-Trichlorobenzene	0.50	0.13 J	0.13 J	UG/L	G1
CVOL/NONE	WG	SAIA-MW93C-0314	FD	Trichloroethene (TCE)	0.50	2.0	2.0	UG/L	
CVOL/NONE	WG	SAIA-MW93C-0314	FD	m,p-Xylene	0.50	0.050 J	0.050	UG/L	

AUTOMATED DATA REVIEW SUMMARY for Y9DP8

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8270D/NONE	WG	MW45-0314	N	1,4-Dioxane (p-Dioxane)	0.50	2.1	2.1	UG/L	
SW8270D/NONE	WG	MW47-0314	N	1,4-Dioxane (p-Dioxane)	0.50	1.8	1.8	UG/L	
SW8270D/NONE	WG	MW48-0314	N	1,4-Dioxane (p-Dioxane)	2.5	8.7 D	8.7	UG/L	
SW8270D/NONE	WG	SAIA-MW3B-0314	N	1,4-Dioxane (p-Dioxane)	10.0	110 D	110 J	UG/L	S
SW8270D/NONE	WG	SAIA-MW3C-0314	N	1,4-Dioxane (p-Dioxane)	0.50	1.5	1.5	UG/L	
SW8270D/NONE	WG	SAIA-MW4A-0314	N	1,4-Dioxane (p-Dioxane)	0.50	1.6	1.6	UG/L	
SW8270D/NONE	WG	SAIA-MW4B-0314	N	1,4-Dioxane (p-Dioxane)	5.0	58.0 D	58.0	UG/L	
SW8270D/NONE	WG	SAIA-MW4C-0314	N	1,4-Dioxane (p-Dioxane)	2.5	14.0 D	14.0	UG/L	
SW8270D/NONE	WG	SAIA-MW5A-0314	N	1,4-Dioxane (p-Dioxane)	0.50	2.4	2.4	UG/L	
SW8270D/NONE	WG	SAIA-MW5B-0314	N	1,4-Dioxane (p-Dioxane)	2.5	16.0 D	16.0	UG/L	
SW8270D/NONE	WG	SAIA-MW6A-0314	N	1,4-Dioxane (p-Dioxane)	0.50	0.52	0.52	UG/L	
SW8270D/NONE	WG	SAIA-MW6C-0314	N	1,4-Dioxane (p-Dioxane)	0.50	0.52	0.52	UG/L	
SW8270D/NONE	WG	SAIA-MW93C-0314	FD	1,4-Dioxane (p-Dioxane)	0.50	1.6	1.6	UG/L	

AUTOMATED DATA REVIEW SUMMARY for Y9DP8

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

Facility: Southern Avenue Industrial Area

Groundwater Sampling Event, March 2014

Guidance Document:

Contract Laboratory: KAP TECHNOLOGIES INC., THE WOODLANDS, TX

Field Contractor:

Data Review Contractor: Gilbane

SDG: Y9DQ5, Certified - 5/2/2014 by wtse

QC Level: S1BVEM

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: November 18, 2014

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG Y9DQ5

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
CSVOL12/NONE	7	2
CVOL/NONE	7	3
SW8082/NONE	7	2
SW8270D/NONE	7	2

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by KAP TECHNOLOGIES INC., THE WOODLANDS, TX and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Equipment Blank
- Field Duplicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- Negative Blank

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 197 results (16.24%) out of the 1213 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Gilbane reviewed the KAP Tech lab report, COCs, case narrative, and EXES data review package.

One sample was analyzed out of hold time (H2), one sample cooler was received at an elevated temperature (T), and calibration anomalies (C11, G1) were also qualified.

Qualifiers were also added for lab blank (B1) detects, and minor surrogate recoveries (S) and matrix (M, D2) effects.

Most matrix, LCS, blank, and surrogate QC outliers were resolved.

18-Nov-2014

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons

Code	Definition
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

Batch Report

Test Method: CSVOL12; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
D13128	D13130	NA	LABQC	WQ	LABQC	SBLK59	D13101	1/1	30-Mar-2014 1:18 PM	30-Mar-2014 1:18 PM	04-Apr-2014 9:23 PM	LB
	D13130	NA	SAIA-MW1A	WG	SAIA-MW1A-0314	S-6390.01	D13101	1/1	27-Mar-2014 9:55 AM	30-Mar-2014 1:18 PM	04-Apr-2014 9:50 PM	N
	D13130	NA	SAIA-MW1B	WG	SAIA-MW1B-0314	S-6390.02	D13101	1/1	27-Mar-2014 9:02 AM	30-Mar-2014 1:18 PM	04-Apr-2014 10:17 PM	N
	D13130	NA	SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03	D13101	1/1	27-Mar-2014 8:05 AM	30-Mar-2014 1:18 PM	04-Apr-2014 10:43 PM	N
	D13130	NA	SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04	D13101	1/1	27-Mar-2014 10:02 AM	30-Mar-2014 1:18 PM	04-Apr-2014 11:09 PM	N
	D13130	NA	SAIA-MW2B	WG	SAIA-MW2B-0314	S-6390.05	D13101	1/1	27-Mar-2014 9:08 AM	30-Mar-2014 1:18 PM	04-Apr-2014 11:36 PM	N
	D13130	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	D13101	1/1	27-Mar-2014 7:58 AM	30-Mar-2014 1:18 PM	05-Apr-2014 12:02 AM	N
	D13130	NA	SAIA-MW7	WG	SAIA-MW7-0314	S-6390.07	D13101	1/1	27-Mar-2014 11:35 AM	30-Mar-2014 1:18 PM	05-Apr-2014 12:29 AM	N
	D13130	NA	SAIA-MW7	WG	SAIA-MW97-0314	S-6390.08	D13101	1/1	27-Mar-2014 11:40 AM	30-Mar-2014 1:18 PM	05-Apr-2014 12:56 AM	FD
D13150	D13130	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06MS	D13101	1/1	27-Mar-2014 7:58 AM	30-Mar-2014 1:18 PM	05-Apr-2014 8:21 AM	MS
	D13130	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06MSD	D13101	1/1	27-Mar-2014 7:58 AM	30-Mar-2014 1:18 PM	05-Apr-2014 8:47 AM	SD
D13203	D13205	NA	FIELDQC	WQ	SAIA-EL01-0314	S-6398.01	D13101	1/1	27-Mar-2014 12:30 PM	06-Apr-2014 1:10 PM	16-Apr-2014 9:25 AM	EB
	D13205	NA	LABQC	WQ	LABQC	SBLK65	D13101	1/1	06-Apr-2014 1:10 PM	06-Apr-2014 1:10 PM	16-Apr-2014 9:00 AM	LB

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B50189	B50192	NA	FIELDQC	WQ	SAIA-EL01-0314	S-6390.09	B50124	1/1	27-Mar-2014 12:30 PM	07-Apr-2014 12:48 PM	07-Apr-2014 12:48 PM	EB
	B50192	NA	LABQC	WQ	LABQC	VBLK42	B50124	1/1	07-Apr-2014 12:15 PM	07-Apr-2014 12:15 PM	07-Apr-2014 12:15 PM	LB
	B50192	NA	SAIA-MW1A	WG	SAIA-MW1A-0314	S-6390.01	B50124	1/200	27-Mar-2014 9:55 AM	07-Apr-2014 1:21 PM	07-Apr-2014 1:21 PM	N
	B50192	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06MS	B50124	1/4	27-Mar-2014 7:58 AM	07-Apr-2014 4:03 PM	07-Apr-2014 4:03 PM	MS
	B50192	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	B50124	1/4	27-Mar-2014 7:58 AM	07-Apr-2014 6:42 PM	07-Apr-2014 6:42 PM	N
	B50192	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06DL	B50124	1/40	27-Mar-2014 7:58 AM	07-Apr-2014 5:08 PM	07-Apr-2014 5:08 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B50189	B50192	NA	SAIA-MW7	WG	SAIA-MW7-0314	S-6390.07DL	B50124	1/5	27-Mar-2014 11:35 AM	07-Apr-2014 5:40 PM	07-Apr-2014 5:40 PM	N
	B50192	NA	SAIA-MW7	WG	SAIA-MW97-0314	S-6390.08DL	B50124	1/5	27-Mar-2014 11:40 AM	07-Apr-2014 6:11 PM	07-Apr-2014 6:11 PM	FD
B50343	B50346	NA	LABQC	WQ	LABQC	VBLK63	B50295	1/1	17-Apr-2014 12:14 PM	17-Apr-2014 12:14 PM	17-Apr-2014 12:14 PM	LB
	B50346	NA	LABQC	WQ	LABQC	S-6390.11	B50295	1/1	17-Apr-2014 5:16 PM	17-Apr-2014 5:16 PM	17-Apr-2014 5:16 PM	LB
G28501	G28504	NA	LABQC	WQ	LABQC	VBLK9G	G28439	1/1	06-Apr-2014 11:31 AM	06-Apr-2014 11:31 AM	06-Apr-2014 11:31 AM	LB
	G28504	NA	SAIA-MW1B	WG	SAIA-MW1B-0314	S-6390.02	G28439	1/1	27-Mar-2014 9:02 AM	06-Apr-2014 8:38 PM	06-Apr-2014 8:38 PM	N
G28523	G28526	NA	FIELDQC	WQ	SAIA-RL04-0314	S-6390.10	G28439	1/1	27-Mar-2014 8:05 AM	07-Apr-2014 12:51 PM	07-Apr-2014 12:51 PM	TB
	G28526	NA	LABQC	WQ	LABQC	VBLK9J	G28439	1/1	07-Apr-2014 11:25 AM	07-Apr-2014 11:25 AM	07-Apr-2014 11:25 AM	LB
	G28526	NA	SAIA-MW1A	WG	SAIA-MW1A-0314	S-6390.01DL	G28439	1/1000	27-Mar-2014 9:55 AM	07-Apr-2014 5:30 PM	07-Apr-2014 5:30 PM	N
	G28526	NA	SAIA-MW1B	WG	SAIA-MW1B-0314	S-6390.02DL	G28439	1/8	27-Mar-2014 9:02 AM	07-Apr-2014 5:59 PM	07-Apr-2014 5:59 PM	N
	G28526	NA	SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03	G28439	1/8	27-Mar-2014 8:05 AM	07-Apr-2014 1:19 PM	07-Apr-2014 1:19 PM	N
	G28526	NA	SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03DL	G28439	1/80	27-Mar-2014 8:05 AM	07-Apr-2014 6:27 PM	07-Apr-2014 6:27 PM	N
	G28526	NA	SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04	G28439	1/20	27-Mar-2014 10:02 AM	07-Apr-2014 2:17 PM	07-Apr-2014 2:17 PM	N
	G28526	NA	SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04DL	G28439	1/200	27-Mar-2014 10:02 AM	07-Apr-2014 6:55 PM	07-Apr-2014 6:55 PM	N
	G28526	NA	SAIA-MW2B	WG	SAIA-MW2B-0314	S-6390.05	G28439	1/1	27-Mar-2014 9:08 AM	07-Apr-2014 11:55 AM	07-Apr-2014 11:55 AM	N
	G28526	NA	SAIA-MW2B	WG	SAIA-MW2B-0314	S-6390.05DL	G28439	1/10	27-Mar-2014 9:08 AM	07-Apr-2014 7:23 PM	07-Apr-2014 7:23 PM	N
	G28526	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06MSD	G28439	1/4	27-Mar-2014 7:58 AM	07-Apr-2014 8:53 PM	07-Apr-2014 8:53 PM	SD
	G28526	NA	SAIA-MW7	WG	SAIA-MW7-0314	S-6390.07	G28439	1/1	27-Mar-2014 11:35 AM	07-Apr-2014 3:21 PM	07-Apr-2014 3:21 PM	N
	G28526	NA	SAIA-MW7	WG	SAIA-MW97-0314	S-6390.08	G28439	1/1	27-Mar-2014 11:40 AM	07-Apr-2014 4:31 PM	07-Apr-2014 4:31 PM	FD

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

Batch Report

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
P49878-1	P49880	NA	FIELDQC	WQ	SAIA-EL01-0314	S-6390.09	P49866-1	1/1	27-Mar-2014 12:30 PM	30-Mar-2014 7:55 PM	08-Apr-2014 12:26 AM	EB
	P49880	NA	LABQC	WQ	LABQC	ALCS72	P49866-1	1/1	30-Mar-2014 7:55 PM	30-Mar-2014 7:55 PM	07-Apr-2014 7:53 PM	BS
	P49880	NA	LABQC	WQ	LABQC	ABLK72	P49866-1	1/1	30-Mar-2014 7:55 PM	30-Mar-2014 7:55 PM	07-Apr-2014 7:23 PM	LB
	P49880	NA	SAIA-MW1A	WG	SAIA-MW1A-0314	S-6390.01	P49866-1	1/1	27-Mar-2014 9:55 AM	30-Mar-2014 7:55 PM	07-Apr-2014 8:24 PM	N
	P49880	NA	SAIA-MW1B	WG	SAIA-MW1B-0314	S-6390.02	P49866-1	1/1	27-Mar-2014 9:02 AM	30-Mar-2014 7:55 PM	07-Apr-2014 8:54 PM	N
	P49880	NA	SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03	P49866-1	1/1	27-Mar-2014 8:05 AM	30-Mar-2014 7:55 PM	07-Apr-2014 9:24 PM	N
	P49880	NA	SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04	P49866-1	1/1	27-Mar-2014 10:02 AM	30-Mar-2014 7:55 PM	07-Apr-2014 9:55 PM	N
	P49880	NA	SAIA-MW2B	WG	SAIA-MW2B-0314	S-6390.05	P49866-1	1/1	27-Mar-2014 9:08 AM	30-Mar-2014 7:55 PM	07-Apr-2014 10:25 PM	N
	P49880	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	P49866-1	1/1	27-Mar-2014 7:58 AM	30-Mar-2014 7:55 PM	08-Apr-2014 12:56 AM	MS
	P49880	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	P49866-1	1/1	27-Mar-2014 7:58 AM	30-Mar-2014 7:55 PM	07-Apr-2014 10:55 PM	N
	P49880	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	P49866-1	1/1	27-Mar-2014 7:58 AM	30-Mar-2014 7:55 PM	08-Apr-2014 1:26 AM	SD
	P49880	NA	SAIA-MW7	WG	SAIA-MW7-0314	S-6390.07	P49866-1	1/1	27-Mar-2014 11:35 AM	30-Mar-2014 7:55 PM	07-Apr-2014 11:25 PM	N
	P49880	NA	SAIA-MW7	WG	SAIA-MW97-0314	S-6390.08	P49866-1	1/1	27-Mar-2014 11:40 AM	30-Mar-2014 7:55 PM	07-Apr-2014 11:56 PM	FD
P49878-2	P49880	NA	FIELDQC	WQ	SAIA-EL01-0314	S-6390.09	P49866-2	1/1	27-Mar-2014 12:30 PM	30-Mar-2014 7:55 PM	08-Apr-2014 12:56 AM	EB
	P49880	NA	LABQC	WQ	LABQC	ALCS72	P49866-2	1/1	30-Mar-2014 7:55 PM	30-Mar-2014 7:55 PM	07-Apr-2014 8:24 PM	BS
	P49880	NA	LABQC	WQ	LABQC	ABLK72	P49866-2	1/1	30-Mar-2014 7:55 PM	30-Mar-2014 7:55 PM	07-Apr-2014 7:53 PM	LB
	P49880	NA	SAIA-MW1A	WG	SAIA-MW1A-0314	S-6390.01	P49866-2	1/1	27-Mar-2014 9:55 AM	30-Mar-2014 7:55 PM	07-Apr-2014 8:54 PM	N
	P49880	NA	SAIA-MW1B	WG	SAIA-MW1B-0314	S-6390.02	P49866-2	1/1	27-Mar-2014 9:02 AM	30-Mar-2014 7:55 PM	07-Apr-2014 9:24 PM	N
	P49880	NA	SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03	P49866-2	1/1	27-Mar-2014 8:05 AM	30-Mar-2014 7:55 PM	07-Apr-2014 9:55 PM	N
	P49880	NA	SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04	P49866-2	1/1	27-Mar-2014 10:02 AM	30-Mar-2014 7:55 PM	07-Apr-2014 10:25 PM	N
	P49880	NA	SAIA-MW2B	WG	SAIA-MW2B-0314	S-6390.05	P49866-2	1/1	27-Mar-2014 9:08 AM	30-Mar-2014 7:55 PM	07-Apr-2014 10:55 PM	N
	P49880	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	P49866-2	1/1	27-Mar-2014 7:58 AM	30-Mar-2014 7:55 PM	08-Apr-2014 1:26 AM	MS

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

Batch Report

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
P49878-2	P49880	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	P49866-2	1/1	27-Mar-2014 7:58 AM	30-Mar-2014 7:55 PM	07-Apr-2014 11:25 PM	N
	P49880	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	P49866-2	1/1	27-Mar-2014 7:58 AM	30-Mar-2014 7:55 PM	08-Apr-2014 1:57 AM	SD
	P49880	NA	SAIA-MW7	WG	SAIA-MW7-0314	S-6390.07	P49866-2	1/1	27-Mar-2014 11:35 AM	30-Mar-2014 7:55 PM	07-Apr-2014 11:56 PM	N
	P49880	NA	SAIA-MW7	WG	SAIA-MW97-0314	S-6390.08	P49866-2	1/1	27-Mar-2014 11:40 AM	30-Mar-2014 7:55 PM	08-Apr-2014 12:26 AM	FD

Test Method: SW8270D; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
F53978	F53982	NA	LABQC	WQ	LABQC	SBLK59	F53673	1/1	30-Mar-2014 1:18 PM	30-Mar-2014 1:18 PM	08-Apr-2014 10:46 AM	LB
F54023	F53982	NA	SAIA-MW1B	WG	SAIA-MW1B-0314	S-6390.02	F53673	1/1	27-Mar-2014 9:02 AM	30-Mar-2014 1:18 PM	09-Apr-2014 3:15 PM	N
	F53982	NA	SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03	F53673	1/1	27-Mar-2014 8:05 AM	30-Mar-2014 1:18 PM	09-Apr-2014 3:28 PM	N
	F53982	NA	SAIA-MW2B	WG	SAIA-MW2B-0314	S-6390.05	F53673	1/1	27-Mar-2014 9:08 AM	30-Mar-2014 1:18 PM	09-Apr-2014 3:56 PM	N
	F53982	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	F53673	1/1	27-Mar-2014 7:58 AM	30-Mar-2014 1:18 PM	09-Apr-2014 4:10 PM	N
F54032	F53982	NA	SAIA-MW7	WG	SAIA-MW7-0314	S-6390.07	F54032	1/1	27-Mar-2014 11:35 AM	30-Mar-2014 1:18 PM	11-Apr-2014 3:15 PM	N
	F53982	NA	SAIA-MW7	WG	SAIA-MW97-0314	S-6390.08	F54032	1/1	27-Mar-2014 11:40 AM	30-Mar-2014 1:18 PM	11-Apr-2014 3:28 PM	FD
	F54044	NA	LABQC	WQ	LABQC	SBLK65	F54032	1/1	06-Apr-2014 1:10 PM	06-Apr-2014 1:10 PM	11-Apr-2014 4:35 PM	LB
F54078	F53982	NA	SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03DL	F54032	1/5	27-Mar-2014 8:05 AM	30-Mar-2014 1:18 PM	15-Apr-2014 1:34 PM	N
	F53982	NA	SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04	F54032	1/1	27-Mar-2014 10:02 AM	30-Mar-2014 1:18 PM	15-Apr-2014 1:07 PM	N
	F53982	NA	SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04DL	F54032	1/5	27-Mar-2014 10:02 AM	30-Mar-2014 1:18 PM	15-Apr-2014 1:21 PM	N
	F53982	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06DL	F54032	1/5	27-Mar-2014 7:58 AM	30-Mar-2014 1:18 PM	15-Apr-2014 1:48 PM	N
	F54044	NA	SAIA-MW1A	WG	SAIA-MW1A-0314	S-6390.01RX	F54032	1/1	27-Mar-2014 9:55 AM	06-Apr-2014 1:10 PM	15-Apr-2014 12:54 PM	N
F54124	F54044	NA	FIELDQC	WQ	SAIA-EL01-0314	S-6398.01	F54032	1/1	27-Mar-2014 12:30 PM	06-Apr-2014 1:10 PM	16-Apr-2014 8:47 AM	EB

Field Batch Report

Test Method: CSVOL12		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
27031401			FIELDQC	WQ	SAIA-EL01-0314	S-6398.01	3/27/2014 12:30:00 PM	EB
27031401			SAIA-MW1A	WG	SAIA-MW1A-0314	S-6390.01	3/27/2014 9:55:00 AM	N
27031401			SAIA-MW1B	WG	SAIA-MW1B-0314	S-6390.02	3/27/2014 9:02:00 AM	N
27031401			SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03	3/27/2014 8:05:00 AM	N
27031401			SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04	3/27/2014 10:02:00 AM	N
27031401			SAIA-MW2B	WG	SAIA-MW2B-0314	S-6390.05	3/27/2014 9:08:00 AM	N
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	3/27/2014 7:58:00 AM	N
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06MS	3/27/2014 7:58:00 AM	MS
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06MSD	3/27/2014 7:58:00 AM	SD
27031401			SAIA-MW7	WG	SAIA-MW7-0314	S-6390.07	3/27/2014 11:35:00 AM	N
27031401			SAIA-MW7	WG	SAIA-MW97-0314	S-6390.08	3/27/2014 11:40:00 AM	FD
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
27031401			FIELDQC	WQ	SAIA-EL01-0314	S-6390.09	3/27/2014 12:30:00 PM	EB
27031401			SAIA-MW1A	WG	SAIA-MW1A-0314	S-6390.01	3/27/2014 9:55:00 AM	N
27031401			SAIA-MW1A	WG	SAIA-MW1A-0314	S-6390.01DL	3/27/2014 9:55:00 AM	N
27031401			SAIA-MW1B	WG	SAIA-MW1B-0314	S-6390.02	3/27/2014 9:02:00 AM	N
27031401			SAIA-MW1B	WG	SAIA-MW1B-0314	S-6390.02DL	3/27/2014 9:02:00 AM	N
27031401			SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03	3/27/2014 8:05:00 AM	N
27031401			SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03DL	3/27/2014 8:05:00 AM	N
27031401			SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04	3/27/2014 10:02:00 AM	N
27031401			SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04DL	3/27/2014 10:02:00 AM	N
27031401			SAIA-MW2B	WG	SAIA-MW2B-0314	S-6390.05	3/27/2014 9:08:00 AM	N
27031401			SAIA-MW2B	WG	SAIA-MW2B-0314	S-6390.05DL	3/27/2014 9:08:00 AM	N
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	3/27/2014 7:58:00 AM	N

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06DL	3/27/2014 7:58:00 AM	N
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06MS	3/27/2014 7:58:00 AM	MS
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06MSD	3/27/2014 7:58:00 AM	SD
27031401			SAIA-MW7	WG	SAIA-MW7-0314	S-6390.07	3/27/2014 11:35:00 AM	N
27031401			SAIA-MW7	WG	SAIA-MW7-0314	S-6390.07DL	3/27/2014 11:35:00 AM	N
27031401			SAIA-MW7	WG	SAIA-MW97-0314	S-6390.08	3/27/2014 11:40:00 AM	FD
27031401			SAIA-MW7	WG	SAIA-MW97-0314	S-6390.08DL	3/27/2014 11:40:00 AM	FD

Test Method: SW8082		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
27031401			FIELDQC	WQ	SAIA-EL01-0314	S-6390.09	3/27/2014 12:30:00 PM	EB
27031401			SAIA-MW1A	WG	SAIA-MW1A-0314	S-6390.01	3/27/2014 9:55:00 AM	N
27031401			SAIA-MW1B	WG	SAIA-MW1B-0314	S-6390.02	3/27/2014 9:02:00 AM	N
27031401			SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03	3/27/2014 8:05:00 AM	N
27031401			SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04	3/27/2014 10:02:00 AM	N
27031401			SAIA-MW2B	WG	SAIA-MW2B-0314	S-6390.05	3/27/2014 9:08:00 AM	N
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	3/27/2014 7:58:00 AM	MS
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	3/27/2014 7:58:00 AM	N
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	3/27/2014 7:58:00 AM	SD
27031401			SAIA-MW7	WG	SAIA-MW7-0314	S-6390.07	3/27/2014 11:35:00 AM	N
27031401			SAIA-MW7	WG	SAIA-MW97-0314	S-6390.08	3/27/2014 11:40:00 AM	FD

Test Method: SW8270D		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
27031401			FIELDQC	WQ	SAIA-EL01-0314	S-6398.01	3/27/2014 12:30:00 PM	EB
27031401			SAIA-MW1A	WG	SAIA-MW1A-0314	S-6390.01RX	3/27/2014 9:55:00 AM	N

Field Batch Report

Test Method: SW8270D		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
27031401			SAIA-MW1B	WG	SAIA-MW1B-0314	S-6390.02	3/27/2014 9:02:00 AM	N
27031401			SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03	3/27/2014 8:05:00 AM	N
27031401			SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03DL	3/27/2014 8:05:00 AM	N
27031401			SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04	3/27/2014 10:02:00 AM	N
27031401			SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04DL	3/27/2014 10:02:00 AM	N
27031401			SAIA-MW2B	WG	SAIA-MW2B-0314	S-6390.05	3/27/2014 9:08:00 AM	N
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	3/27/2014 7:58:00 AM	N
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06DL	3/27/2014 7:58:00 AM	N
27031401			SAIA-MW7	WG	SAIA-MW7-0314	S-6390.07	3/27/2014 11:35:00 AM	N
27031401			SAIA-MW7	WG	SAIA-MW97-0314	S-6390.08	3/27/2014 11:40:00 AM	FD

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	27031402		FIELDQC	WQ	SAIA-RL04-0314	S-6390.10	3/27/2014 8:05:00 AM	TB
	27031402		SAIA-MW1A	WG	SAIA-MW1A-0314	S-6390.01	3/27/2014 9:55:00 AM	N
	27031402		SAIA-MW1A	WG	SAIA-MW1A-0314	S-6390.01DL	3/27/2014 9:55:00 AM	N
	27031402		SAIA-MW1B	WG	SAIA-MW1B-0314	S-6390.02	3/27/2014 9:02:00 AM	N
	27031402		SAIA-MW1B	WG	SAIA-MW1B-0314	S-6390.02DL	3/27/2014 9:02:00 AM	N
	27031402		SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03	3/27/2014 8:05:00 AM	N
	27031402		SAIA-MW1C	WG	SAIA-MW1C-0314	S-6390.03DL	3/27/2014 8:05:00 AM	N
	27031402		SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04	3/27/2014 10:02:00 AM	N
	27031402		SAIA-MW2A	WG	SAIA-MW2A-0314	S-6390.04DL	3/27/2014 10:02:00 AM	N
	27031402		SAIA-MW2B	WG	SAIA-MW2B-0314	S-6390.05	3/27/2014 9:08:00 AM	N
	27031402		SAIA-MW2B	WG	SAIA-MW2B-0314	S-6390.05DL	3/27/2014 9:08:00 AM	N
	27031402		SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06	3/27/2014 7:58:00 AM	N
	27031402		SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06DL	3/27/2014 7:58:00 AM	N

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	27031402		SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06MS	3/27/2014 7:58:00 AM	MS
	27031402		SAIA-MW2C	WG	SAIA-MW2C-0314	S-6390.06MSD	3/27/2014 7:58:00 AM	SD
	27031402		SAIA-MW7	WG	SAIA-MW7-0314	S-6390.07	3/27/2014 11:35:00 AM	N
	27031402		SAIA-MW7	WG	SAIA-MW7-0314	S-6390.07DL	3/27/2014 11:35:00 AM	N
	27031402		SAIA-MW7	WG	SAIA-MW97-0314	S-6390.08	3/27/2014 11:40:00 AM	FD
	27031402		SAIA-MW7	WG	SAIA-MW97-0314	S-6390.08DL	3/27/2014 11:40:00 AM	FD

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CSVOL12 / SW3510C	Blank	SBLK59 (LB)	1 / 1.00	Benzo(g,h,i)perylene	1.20	UG/L	U/None	< 2.7	< 5	B1			
CSVOL12 / SW3510C	Blank	SBLK59 (LB)	1 / 1.00	Dibenz(a,h)anthracene	1.10	UG/L	U/None	< 2.8	< 5	B1			
CSVOL12 / SW3510C	Blank	SBLK59 (LB)	1 / 1.00	Indeno(1,2,3-c,d)pyrene	1.00	UG/L	U/None	< 2.6	< 5	B1			
CSVOL12 / SW3510C	MS Recovery	SAIA-MW2C-0314 (SD)	1 / 1.00	4-Chloro-3-Methylphenol	138	Percent	J/None	23 - 97	10 - 120	M			
CSVOL12 / SW3510C	MS Recovery	SAIA-MW2C-0314 (MS)	1 / 1.00	4-Chloro-3-Methylphenol	140	Percent	J/None	23 - 97	10 - 120	M			
CSVOL12 / SW3510C	MS Recovery	SAIA-MW2C-0314 (SD)	1 / 1.00	4-Nitrophenol	145	Percent	J/None	10 - 80	5 - 120	M			
CSVOL12 / SW3510C	MS Recovery	SAIA-MW2C-0314 (MS)	1 / 1.00	4-Nitrophenol	155	Percent	J/None	10 - 80	5 - 120	M			
CSVOL12 / SW3510C	MS Recovery	SAIA-MW2C-0314 (SD)	1 / 1.00	Pentachlorophenol	145	Percent	J/None	9 - 103	5 - 120	M			
CSVOL12 / SW3510C	MS Recovery	SAIA-MW2C-0314 (MS)	1 / 1.00	Pentachlorophenol	153	Percent	J/None	9 - 103	5 - 120	M			
CSVOL12 / SW3510C	MS Recovery	SAIA-MW2C-0314 (MS)	1 / 1.00	Phenol	130	Percent	J/None	12 - 110	10 - 120	M			
CSVOL12 / SW3510C	MS Recovery	SAIA-MW2C-0314 (SD)	1 / 1.00	Phenol	130	Percent	J/None	12 - 110	10 - 120	M			
CSVOL12 / SW3510C	Prep Hold Time	SAIA-EL01-0314 (EB)	1 / 1.00	All in Run	10.0	Days	J/UJ	< 7	< 14	H2			
CSVOL12 / SW3510C	Surrogate	SAIA-MW1C-0314 (N)	1 / 1.00	4-Nitrophenol-d4	120	Percent	J/None	33 - 116	10 - 120	S			
CSVOL12 / SW3510C	Surrogate	SAIA-MW2B-0314 (N)	1 / 1.00	2-Nitrophenol-d4	110	Percent	J/None	40 - 108	10 - 120	S			
CSVOL12 / SW3510C	Surrogate	SAIA-MW2B-0314 (N)	1 / 1.00	4-Nitrophenol-d4	120	Percent	J/None	33 - 116	10 - 120	S			
CSVOL12 / SW3510C	Surrogate	SAIA-MW2B-0314 (N)	1 / 1.00	Pyrene-d10	108	Percent	J/None	39 - 106	10 - 120	S			
CSVOL12 / SW3510C	Surrogate	SAIA-MW7-0314 (N)	1 / 1.00	2-Nitrophenol-d4	110	Percent	J/None	40 - 108	10 - 120	S			
CSVOL12 / SW3510C	Surrogate	SAIA-MW7-0314 (N)	1 / 1.00	Acenaphthylene-d8	108	Percent	J/None	41 - 107	10 - 120	S			
CVOL / METHOD	Blank	S-6390.11 (LB)	1 / 1.00	Methylene Chloride	0.550	UG/L	U/None	< 0.2	< 0.5	B1			
CVOL / METHOD	Blank	VBLK42 (LB)	1 / 1.00	1,2,3-Trichlorobenzene	0.0740	UG/L	U/None	< 0.4	< 0.5	B1			
CVOL / METHOD	Blank	VBLK42 (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.0980	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK42 (LB)	1 / 1.00	Methylene Chloride	0.850	UG/L	U/None	< 0.2	< 0.5	B1			

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CVOL / METHOD	Blank	VBLK42 (LB)	1 / 1.00	Toluene	0.130	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK42 (LB)	1 / 1.00	Trichloroethene (TCE)	0.250	UG/L	U/None	< 0.4	< 0.5	B1			
CVOL / METHOD	Blank	VBLK63 (LB)	1 / 1.00	1,2,3-Trichlorobenzene	0.110	UG/L	U/None	< 0.4	< 0.5	B1			
CVOL / METHOD	Blank	VBLK63 (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.120	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK63 (LB)	1 / 1.00	1,3-Dichlorobenzene	0.0520	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK63 (LB)	1 / 1.00	1,4-Dichlorobenzene	0.0730	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK63 (LB)	1 / 1.00	Ethylbenzene	0.0380	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK63 (LB)	1 / 1.00	Isopropylbenzene (Cumene)	0.0340	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK63 (LB)	1 / 1.00	m,p-Xylene	0.0690	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK63 (LB)	1 / 1.00	Methylene Chloride	0.340	UG/L	U/None	< 0.2	< 0.5	B1			
CVOL / METHOD	Blank	VBLK63 (LB)	1 / 1.00	o-Xylene	0.0360	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	Blank	VBLK63 (LB)	1 / 1.00	Styrene	0.0320	UG/L	U/None	< 0.4	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9G (LB)	1 / 1.00	Methylene Chloride	0.390	UG/L	U/None	< 0.2	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9J (LB)	1 / 1.00	Methylene Chloride	0.820	UG/L	U/None	< 0.2	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9J (LB)	1 / 1.00	Toluene	0.140	UG/L	U/None	< 0.3	< 0.5	B1			
CVOL / METHOD	MS Recovery	SAIA-MW2C-0314 (SD)	1 / 4.00	1,1,2-Trichloro-1,2,2-trifluoroethane	0.00	PERCENT	J/R	70 - 130	20 - 140	M			
CVOL / METHOD	MS Recovery	SAIA-MW2C-0314 (SD)	1 / 4.00	1,1-Dichloroethene	56.5	PERCENT	J/UJ	70 - 130	20 - 140	M			
CVOL / METHOD	MS Recovery	SAIA-MW2C-0314 (SD)	1 / 4.00	Acetone	0.00	PERCENT	J/R	70 - 130	20 - 140	M			
CVOL / METHOD	MS Recovery	SAIA-MW2C-0314 (SD)	1 / 4.00	Carbon Disulfide	0.00	PERCENT	J/R	70 - 130	20 - 140	M			
CVOL / METHOD	MS Recovery	SAIA-MW2C-0314 (SD)	1 / 4.00	Methyl Acetate	0.00	PERCENT	J/R	70 - 130	20 - 140	M			
CVOL / METHOD	MS Recovery	SAIA-MW2C-0314 (MS)	1 / 4.00	Trichloroethene (TCE)	133	PERCENT	J/None	70 - 130	20 - 140	M			
CVOL / METHOD	MS Recovery	SAIA-MW2C-0314 (SD)	1 / 4.00	Trichloroethene (TCE)	66.7	PERCENT	J/UJ	70 - 130	20 - 140	M			

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CVOL / METHOD	Trip Blank	SAIA-RL04-0314 (TB)	1 / 1.00	Acetone	3.40	UG/L	U/None	< 1.9	< 5	K3			
SW8082 / SW3510C	LCS Recovery	ALCS72 (BS)	1 / 1.00	PCB-1221 (Arochlor 1221)	0.00	Percent	J/R	50 - 150	20 - 160	L			
SW8082 / SW3510C	LCS Recovery	ALCS72 (BS)	1 / 1.00	PCB-1232 (Arochlor 1232)	0.00	Percent	J/R	50 - 150	20 - 160	L			
SW8082 / SW3510C	LCS Recovery	ALCS72 (BS)	1 / 1.00	PCB-1242 (Arochlor 1242)	0.00	Percent	J/R	50 - 150	20 - 160	L			
SW8082 / SW3510C	LCS Recovery	ALCS72 (BS)	1 / 1.00	PCB-1248 (Arochlor 1248)	0.00	Percent	J/R	50 - 150	20 - 160	L			
SW8082 / SW3510C	LCS Recovery	ALCS72 (BS)	1 / 1.00	PCB-1254 (Arochlor 1254)	0.00	Percent	J/R	50 - 150	20 - 160	L			
SW8082 / SW3510C	LCS Recovery	ALCS72 (BS)	1 / 1.00	PCB-1262 (Arochlor 1262)	0.00	Percent	J/R	50 - 150	20 - 160	L			
SW8082 / SW3510C	LCS Recovery	ALCS72 (BS)	1 / 1.00	PCB-1268 (Arochlor 1268)	0.00	Percent	J/R	50 - 150	20 - 160	L			
SW8082 / SW3510C	Surrogate	SAIA-EL01-0314 (EB)	1 / 1.00	2,4,5,6-Tetrachloro-meta-xylene	0.717	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-EL01-0314 (EB)	1 / 1.00	Decachlorobiphenyl	0.692	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-MW1A-0314 (N)	1 / 1.00	2,4,5,6-Tetrachloro-meta-xylene	0.933	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-MW1A-0314 (N)	1 / 1.00	Decachlorobiphenyl	0.833	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-MW1B-0314 (N)	1 / 1.00	2,4,5,6-Tetrachloro-meta-xylene	0.850	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-MW1B-0314 (N)	1 / 1.00	Decachlorobiphenyl	0.767	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-MW1C-0314 (N)	1 / 1.00	2,4,5,6-Tetrachloro-meta-xylene	0.800	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-MW1C-0314 (N)	1 / 1.00	Decachlorobiphenyl	0.800	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-MW2A-0314 (N)	1 / 1.00	2,4,5,6-Tetrachloro-meta-xylene	0.783	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-MW2A-0314 (N)	1 / 1.00	Decachlorobiphenyl	0.708	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-MW2B-0314 (N)	1 / 1.00	2,4,5,6-Tetrachloro-meta-xylene	0.750	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-MW2B-0314 (N)	1 / 1.00	Decachlorobiphenyl	0.567	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-MW7-0314 (N)	1 / 1.00	2,4,5,6-Tetrachloro-meta-xylene	0.833	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-MW7-0314 (N)	1 / 1.00	Decachlorobiphenyl	0.783	Percent	J/R	30 - 150	20 - 160	S			

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
SW8082 / SW3510C	Surrogate	SAIA-MW97-0314 (FD)	1 / 1.00	2,4,5,6-Tetrachloro-meta-xylene	0.733	Percent	J/R	30 - 150	20 - 160	S			
SW8082 / SW3510C	Surrogate	SAIA-MW97-0314 (FD)	1 / 1.00	Decachlorobiphenyl	0.733	Percent	J/R	30 - 150	20 - 160	S			
SW8270D / SW3510C	Prep Hold Time	SAIA-EL01-0314 (EB)	1 / 1.00	All in Run	10.0	Days	J/UJ	< 7	< 14	H2			
SW8270D / SW3510C	Prep Hold Time	SAIA-MW1A-0314 (N)	1 / 1.00	All in Run	10.1	Days	J/UJ	< 7	< 14	H2			
SW8270D / SW3510C	Surrogate	SAIA-MW1A-0314 (N)	1 / 1.00	1,4-Dioxane-d8	1050	PERCENT	J/None	40 - 135	10 - 140	S			

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	1,2,4,5-Tetrachlorobenzene	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2,3,4,6-Tetrachlorophenol	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2,4,5-Trichlorophenol	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2,4,6-Trichlorophenol	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2,4-Dichlorophenol	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2,4-Dimethylphenol	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2,4-Dinitrophenol	10.0	10.0 U	10.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2,4-Dinitrotoluene	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2,6-Dinitrotoluene	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2-Chloronaphthalene	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2-Chlorophenol	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2-Methylnaphthalene	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2-Methylphenol (o-Cresol)	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2-Nitroaniline	10.0	10.0 U	10.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	2-Nitrophenol	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	3,3'-Dichlorobenzidine	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	3-Nitroaniline	10.0	10.0 U	10.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	4,6-Dinitro-2-Methylphenol	10.0	10.0 U	10.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	4-Bromophenyl phenyl ether	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	4-Chloro-3-Methylphenol	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	4-Chloroaniline	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	4-Chlorophenyl Phenyl Ether	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	4-Methylphenol (p-Cresol)	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	4-Nitroaniline	10.0	10.0 U	10.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	4-Nitrophenol	10.0	10.0 U	10.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Acenaphthene	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Acenaphthylene	5.0	5.0 U	5.0 UJ	UG/L	H2

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Acetophenone	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Anthracene	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Atrazine	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Benzaldehyde	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Benzo(a)anthracene	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Benzo(a)pyrene	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Benzo(b)fluoranthene	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Benzo(g,h,i)perylene	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Benzo(k)fluoranthene	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Benzyl butyl phthalate	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Biphenyl (Diphenyl)	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	bis(2-Chloroethoxy) Methane	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	bis(2-Chloroisopropyl) Ether	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	bis(2-Ethylhexyl) Phthalate	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Caprolactam	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Carbazole	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Chrysene	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Dibenz(a,h)anthracene	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Dibenzofuran	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Diethyl Phthalate	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Dimethyl Phthalate	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Di-n-Butyl Phthalate	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Di-n-Octylphthalate	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Fluoranthene	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Fluorene	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Hexachlorobenzene	5.0	5.0 U	5.0 UJ	UG/L	H2

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Hexachlorobutadiene	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Hexachlorocyclopentadiene	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Hexachloroethane	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Indeno(1,2,3-c,d)pyrene	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Isophorone	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Naphthalene	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Nitrobenzene	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	n-Nitrosodi-n-propylamine	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	n-Nitrosodiphenylamine	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Pentachlorophenol	10.0	10.0 U	10.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Phenanthrene	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Phenol	5.0	5.0 U	5.0 UJ	UG/L	H2
CSVOL12/NONE	WQ	SAIA-EL01-0314	EB	Pyrene	5.0	5.0 U	5.0 UJ	UG/L	H2

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,1,1-Trichloroethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,1,2,2-Tetrachloroethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,1,2-Trichloroethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,1-Dichloroethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,2,3-Trichloropropane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,2,4-Trichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,2-Dibromo-3-chloropropane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,2-Dibromoethane (EDB)	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,2-Dichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,2-Dichloroethane	0.50	0.50 U	0.50 UJ	UG/L	T

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,2-Dichloropropane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,3-Dichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	1,4-Dichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	2-Hexanone	5.0	5.0 U	5.0 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	4-Methyl-2-pentanone (MIBK)	5.0	5.0 U	5.0 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Acetone	5.0	5.0 U	5.0 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Benzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Bromochloromethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Bromodichloromethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Bromoform	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Bromomethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Carbon Disulfide	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Carbon Tetrachloride	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Chlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Chloroethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Chloroform	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Chloromethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	cis-1,2-Dichloroethylene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	cis-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Cyclohexane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Dibromochloromethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Dichlorodifluoromethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Ethylbenzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Isopropylbenzene (Cumene)	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	m,p-Xylene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Methyl Acetate	0.50	0.50 U	0.50 UJ	UG/L	T

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Methylcyclohexane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Methylene Chloride	0.50	0.50 B	0.50 UJ	UG/L	T/B1
CVOL/NONE	WQ	SAIA-EL01-0314	EB	o-Xylene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Styrene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	tert-Butyl Methyl Ether (MTBE)	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Tetrachloroethene (PCE)	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Toluene	0.50	0.50 JB	0.50 UJ	UG/L	T/B1
CVOL/NONE	WQ	SAIA-EL01-0314	EB	trans-1,2-Dichloroethene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	trans-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Trichloroethene (TCE)	0.50	0.50 JB	0.50 UJ	UG/L	T/B1
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Trichlorofluoromethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-EL01-0314	EB	Vinyl Chloride	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WG	SAIA-MW1A-0314	N	1,1-Dichloroethane	100	21.0 J	21.0 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW1A-0314	N	Methylene Chloride	100	100 B	100 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW1A-0314	N	Toluene	100	100 JB	100 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW1A-0314	N	trans-1,2-Dichloroethene	100	71.0 J	71.0 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW1A-0314	N	Trichloroethene (TCE)	500	7400 D	7400 J	UG/L	M
CVOL/NONE	WG	SAIA-MW1B-0314	N	1,2-Dichloroethane	0.50	0.48 J	0.48 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW1B-0314	N	Cyclohexane	0.50	0.24 J	0.24 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW1B-0314	N	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW1C-0314	N	1,1-Dichloroethane	4.0	3.9 J	3.9 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW1C-0314	N	1,1-Dichloroethene	4.0	4.0 U	4.0 UJ	UG/L	M
CVOL/NONE	WG	SAIA-MW1C-0314	N	Cyclohexane	4.0	1.6 J	1.6 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW1C-0314	N	Methylene Chloride	4.0	4.0 B	4.0 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW1C-0314	N	Toluene	4.0	4.0 JB	4.0 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW1C-0314	N	Trichloroethene (TCE)	40.0	420 D	420 J	UG/L	M
CVOL/NONE	WG	SAIA-MW2A-0314	N	1,1-Dichloroethane	10.0	4.8 J	4.8 J	UG/L	TR

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW2A-0314	N	1,1-Dichloroethene	10.0	10.0 U	10.0 UJ	UG/L	M
CVOL/NONE	WG	SAIA-MW2A-0314	N	Methylene Chloride	10.0	10.0 B	10.0 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW2A-0314	N	Toluene	10.0	10.0 JB	10.0 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW2A-0314	N	Trichloroethene (TCE)	100	1100 D	1100 J	UG/L	M
CVOL/NONE	WG	SAIA-MW2B-0314	N	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	UG/L	M
CVOL/NONE	WG	SAIA-MW2B-0314	N	Cyclohexane	0.50	0.24 J	0.24 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW2B-0314	N	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW2B-0314	N	Toluene	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW2B-0314	N	Trichloroethene (TCE)	0.50	6.8	6.8 J	UG/L	M/D2
CVOL/NONE	WG	SAIA-MW2C-0314	N	Cyclohexane	2.0	1.7 J	1.7 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW2C-0314	N	Methylene Chloride	2.0	2.0 B	2.0 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW2C-0314	N	Toluene	2.0	2.0 JB	2.0 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW2C-0314	N	Trichloroethene (TCE)	20.0	260 DB	260 J	UG/L	M
CVOL/NONE	WG	SAIA-MW7-0314	N	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	UG/L	M
CVOL/NONE	WG	SAIA-MW7-0314	N	Methylene Chloride	0.50	0.50 B	0.50 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW7-0314	N	Toluene	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW7-0314	N	Trichloroethene (TCE)	2.5	24.0 DB	24.0 J	UG/L	M
CVOL/NONE	WG	SAIA-MW97-0314	FD	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	UG/L	M
CVOL/NONE	WG	SAIA-MW97-0314	FD	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW97-0314	FD	Toluene	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW97-0314	FD	Trichloroethene (TCE)	2.5	22.0 DB	22.0 J	UG/L	M
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,1,1-Trichloroethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,1,2,2-Tetrachloroethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,1,2-Trichloroethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,1-Dichloroethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,1-Dichloroethene	0.50	0.50 U	0.50 UJ	UG/L	M/T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	T

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,2,3-Trichloropropane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,2,4-Trichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,2-Dibromo-3-chloropropane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,2-Dibromoethane (EDB)	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,2-Dichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,2-Dichloroethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,2-Dichloropropane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,3-Dichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	1,4-Dichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	2-Butanone (MEK)	5.0	5.0 U	5.0 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	2-Hexanone	5.0	5.0 U	5.0 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	4-Methyl-2-pentanone (MIBK)	5.0	5.0 U	5.0 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Acetone	5.0	3.4 J	3.4 J	UG/L	T/TR
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Benzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Bromochloromethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Bromodichloromethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Bromoform	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Bromomethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Carbon Tetrachloride	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Chlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Chloroethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Chloroform	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Chloromethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	cis-1,2-Dichloroethylene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	cis-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Cyclohexane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Dibromochloromethane	0.50	0.50 U	0.50 UJ	UG/L	T

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Dichlorodifluoromethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Ethylbenzene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Isopropylbenzene (Cumene)	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	m,p-Xylene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Methylcyclohexane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Methylene Chloride	0.50	0.50 JB	0.50 UJ	UG/L	T/B1
CVOL/NONE	WQ	SAIA-RL04-0314	TB	o-Xylene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Styrene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	tert-Butyl Methyl Ether (MTBE)	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Tetrachloroethene (PCE)	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Toluene	0.50	0.50 JB	0.50 UJ	UG/L	T/B1
CVOL/NONE	WQ	SAIA-RL04-0314	TB	trans-1,2-Dichloroethene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	trans-1,3-Dichloropropene	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Trichloroethene (TCE)	0.50	0.50 U	0.50 UJ	UG/L	M/T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Trichlorofluoromethane	0.50	0.50 U	0.50 UJ	UG/L	T
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Vinyl Chloride	0.50	0.50 U	0.50 UJ	UG/L	T
Test Leach	**Matrix**	**FieldSample ID**	**Type**	**Analyte**	**RL**	**Lab Result**	**Qualified Result**	**Units**	**Reason**
SW8270D/NONE	WQ	SAIA-EL01-0314	EB	1,4-Dioxane (p-Dioxane)	0.50	0.50 U	0.50 UJ	UG/L	H2
SW8270D/NONE	WG	SAIA-MW1A-0314	N	1,4-Dioxane (p-Dioxane)	0.50	1.6	1.6 J	UG/L	H2/S

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	WG	SAIA-MW1C-0314	N	Carbazole	5.0	7.1	7.1	UG/L	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW1A-0314	N	1,1-Dichloroethane	100	21.0 J	21.0 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW1A-0314	N	cis-1,2-Dichloroethylene	100	3300	3300	UG/L	
CVOL/NONE	WG	SAIA-MW1A-0314	N	trans-1,2-Dichloroethene	100	71.0 J	71.0 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW1A-0314	N	Trichloroethene (TCE)	500	7400 D	7400 J	UG/L	M
CVOL/NONE	WG	SAIA-MW1B-0314	N	Cyclohexane	0.50	0.24 J	0.24 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW1B-0314	N	1,1-Dichloroethane	0.50	0.25 J	0.25	UG/L	
CVOL/NONE	WG	SAIA-MW1B-0314	N	1,2-Dichloroethane	0.50	0.48 J	0.48 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW1B-0314	N	cis-1,2-Dichloroethylene	4.0	59.0 D	59.0	UG/L	
CVOL/NONE	WG	SAIA-MW1B-0314	N	trans-1,2-Dichloroethene	0.50	4.6	4.6	UG/L	
CVOL/NONE	WG	SAIA-MW1B-0314	N	Trichloroethene (TCE)	0.50	17.0	17.0	UG/L	
CVOL/NONE	WG	SAIA-MW1C-0314	N	Cyclohexane	4.0	1.6 J	1.6 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW1C-0314	N	1,1-Dichloroethane	4.0	3.9 J	3.9 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW1C-0314	N	1,2-Dichloroethane	4.0	35.0	35.0	UG/L	
CVOL/NONE	WG	SAIA-MW1C-0314	N	cis-1,2-Dichloroethylene	40.0	370 D	370	UG/L	
CVOL/NONE	WG	SAIA-MW1C-0314	N	trans-1,2-Dichloroethene	4.0	34.0	34.0	UG/L	
CVOL/NONE	WG	SAIA-MW1C-0314	N	Trichloroethene (TCE)	40.0	420 D	420 J	UG/L	M
CVOL/NONE	WG	SAIA-MW2A-0314	N	1,1-Dichloroethane	10.0	4.8 J	4.8 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW2A-0314	N	cis-1,2-Dichloroethylene	100	2000 D	2000	UG/L	
CVOL/NONE	WG	SAIA-MW2A-0314	N	trans-1,2-Dichloroethene	10.0	74.0	74.0	UG/L	
CVOL/NONE	WG	SAIA-MW2A-0314	N	Trichloroethene (TCE)	100	1100 D	1100 J	UG/L	M
CVOL/NONE	WG	SAIA-MW2B-0314	N	Cyclohexane	0.50	0.24 J	0.24 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW2B-0314	N	1,2-Dichloroethane	0.50	6.6	6.6	UG/L	
CVOL/NONE	WG	SAIA-MW2B-0314	N	cis-1,2-Dichloroethylene	5.0	69.0 D	69.0	UG/L	
CVOL/NONE	WG	SAIA-MW2B-0314	N	trans-1,2-Dichloroethene	0.50	7.2	7.2	UG/L	

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW2B-0314	N	Trichloroethene (TCE)	0.50	6.8	6.8 J	UG/L	M/D2
CVOL/NONE	WG	SAIA-MW2C-0314	N	Benzene	2.0	6.1	6.1	UG/L	
CVOL/NONE	WG	SAIA-MW2C-0314	N	Cyclohexane	2.0	1.7 J	1.7 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW2C-0314	N	1,1-Dichloroethane	2.0	3.0	3.0	UG/L	
CVOL/NONE	WG	SAIA-MW2C-0314	N	1,2-Dichloroethane	2.0	32.0	32.0	UG/L	
CVOL/NONE	WG	SAIA-MW2C-0314	N	1,1-Dichloroethene	2.0	4.7	4.7	UG/L	
CVOL/NONE	WG	SAIA-MW2C-0314	N	cis-1,2-Dichloroethylene	20.0	360 D	360	UG/L	
CVOL/NONE	WG	SAIA-MW2C-0314	N	trans-1,2-Dichloroethene	2.0	28.0	28.0	UG/L	
CVOL/NONE	WG	SAIA-MW2C-0314	N	1,2-Dichloropropane	2.0	0.19 J	0.19	UG/L	
CVOL/NONE	WG	SAIA-MW2C-0314	N	Trichloroethene (TCE)	20.0	260 DB	260 J	UG/L	M
CVOL/NONE	WG	SAIA-MW7-0314	N	1,1-Dichloroethane	0.50	0.30 J	0.30	UG/L	
CVOL/NONE	WG	SAIA-MW7-0314	N	1,2-Dichloroethane	0.50	0.96	0.96	UG/L	
CVOL/NONE	WG	SAIA-MW7-0314	N	1,3-Dichlorobenzene	0.50	0.11 J	0.11	UG/L	
CVOL/NONE	WG	SAIA-MW7-0314	N	1,4-Dichlorobenzene	0.50	0.14 J	0.14	UG/L	
CVOL/NONE	WG	SAIA-MW7-0314	N	cis-1,2-Dichloroethylene	0.50	16.0	16.0	UG/L	
CVOL/NONE	WG	SAIA-MW7-0314	N	trans-1,2-Dichloroethene	0.50	1.1	1.1	UG/L	
CVOL/NONE	WG	SAIA-MW7-0314	N	Trichloroethene (TCE)	2.5	24.0 DB	24.0 J	UG/L	M
CVOL/NONE	WG	SAIA-MW97-0314	FD	1,1-Dichloroethane	0.50	0.37 J	0.37	UG/L	
CVOL/NONE	WG	SAIA-MW97-0314	FD	1,2-Dichloroethane	0.50	1.1	1.1	UG/L	
CVOL/NONE	WG	SAIA-MW97-0314	FD	1,3-Dichlorobenzene	0.50	0.12 J	0.12	UG/L	
CVOL/NONE	WG	SAIA-MW97-0314	FD	cis-1,2-Dichloroethylene	0.50	17.0	17.0	UG/L	
CVOL/NONE	WG	SAIA-MW97-0314	FD	trans-1,2-Dichloroethene	0.50	1.1	1.1	UG/L	
CVOL/NONE	WG	SAIA-MW97-0314	FD	Trichloroethene (TCE)	2.5	22.0 DB	22.0 J	UG/L	M
CVOL/NONE	WQ	SAIA-RL04-0314	TB	Acetone	5.0	3.4 J	3.4 J	UG/L	T/TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8270D/NONE	WG	SAIA-MW1A-0314	N	1,4-Dioxane (p-Dioxane)	0.50	1.6	1.6 J	UG/L	H2/S

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8270D/NONE	WG	SAIA-MW1B-0314	N	1,4-Dioxane (p-Dioxane)	0.50	1.9	1.9	UG/L	
SW8270D/NONE	WG	SAIA-MW1C-0314	N	1,4-Dioxane (p-Dioxane)	2.5	18.0 D	18.0	UG/L	
SW8270D/NONE	WG	SAIA-MW2A-0314	N	1,4-Dioxane (p-Dioxane)	2.5	12.0 D	12.0	UG/L	
SW8270D/NONE	WG	SAIA-MW2B-0314	N	1,4-Dioxane (p-Dioxane)	0.50	1.7	1.7	UG/L	
SW8270D/NONE	WG	SAIA-MW2C-0314	N	1,4-Dioxane (p-Dioxane)	2.5	14.0 D	14.0	UG/L	
SW8270D/NONE	WG	SAIA-MW7-0314	N	1,4-Dioxane (p-Dioxane)	0.50	1.9	1.9	UG/L	
SW8270D/NONE	WG	SAIA-MW97-0314	FD	1,4-Dioxane (p-Dioxane)	0.50	2.0	2.0	UG/L	

AUTOMATED DATA REVIEW SUMMARY for Y9DQ5

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

Facility: Southern Avenue Industrial Area

Groundwater Sampling Event, March 2014

Guidance Document:

Contract Laboratory: KAP TECHNOLOGIES INC., THE WOODLANDS, TX

Field Contractor:

Data Review Contractor: Gilbane

SDG: Y9DS0, Certified - 5/30/2014 by wtse

QC Level: S1BVEM

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: November 18, 2014

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG Y9DS0

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
CSVOL12/NONE	8	3
CVOL/NONE	8	6
SW8082/NONE	4	2
WSM0011/NONE	8	3

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by KAP TECHNOLOGIES INC., THE WOODLANDS, TX and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Equipment Blank
- Field Duplicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- Negative Blank

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 66 results (4.31%) out of the 1530 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Gilbane reviewed the KAP Tech lab report, COCs, case narrative, and EXES data review package.

Calibration anomalies (C11) were qualified, and no sample receipt issues were noted.

Qualifiers were also added for lab blank (B1, B5) and field blank (K1) detects, and surrogate recoveries (S).

Most matrix and blank QC outliers were resolved.

18-Nov-2014

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

Batch Report

Test Method: CSVOL12; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
D13107	D13109	NA	FIELDQC	WQ	SAIA-EL03-0314	S-6381.02	D13101	1/1	25-Mar-2014 9:20 AM	28-Mar-2014 1:25 PM	04-Apr-2014 5:04 PM	EB
	D13109	NA	LABQC	WQ	LABQC	SBLK57	D13101	1/1	28-Mar-2014 1:25 PM	28-Mar-2014 1:25 PM	04-Apr-2014 12:03 PM	LB
	D13109	NA	MW34	WG	MW34-0314	S-6386.01	D13101	1/1	26-Mar-2014 9:06 AM	28-Mar-2014 1:25 PM	04-Apr-2014 5:30 PM	N
	D13109	NA	MW34	WG	MW934-0314	S-6386.02	D13101	1/1	26-Mar-2014 9:11 AM	28-Mar-2014 1:25 PM	04-Apr-2014 5:57 PM	FD
	D13109	NA	MW35	WG	MW35-0314	S-6386.03	D13101	1/1	26-Mar-2014 10:15 AM	28-Mar-2014 1:25 PM	04-Apr-2014 6:23 PM	N
	D13109	NA	MW42	WG	MW42-0314	S-6386.04MS	D13101	1/1	26-Mar-2014 11:55 AM	28-Mar-2014 1:25 PM	04-Apr-2014 1:22 PM	MS
	D13109	NA	MW42	WG	MW42-0314	S-6386.04	D13101	1/1	26-Mar-2014 11:55 AM	28-Mar-2014 1:25 PM	04-Apr-2014 6:50 PM	N
	D13109	NA	MW42	WG	MW42-0314	S-6386.04MSD	D13101	1/1	26-Mar-2014 11:55 AM	28-Mar-2014 1:25 PM	04-Apr-2014 1:59 PM	SD
	D13109	NA	MW43	WG	MW43-0314	S-6386.05	D13101	1/1	26-Mar-2014 9:29 AM	28-Mar-2014 1:25 PM	04-Apr-2014 7:16 PM	N
	D13109	NA	MW44	WG	MW44-0314	S-6386.06	D13101	1/1	26-Mar-2014 10:17 AM	28-Mar-2014 1:25 PM	04-Apr-2014 7:43 PM	N
	D13109	NA	SAIA-MW5C	WG	SAIA-MW5C-0314	S-6381.01	D13101	1/1	25-Mar-2014 8:51 AM	28-Mar-2014 1:25 PM	04-Apr-2014 4:38 PM	N
D13150	D13109	NA	FIELDQC	WQ	SAIA-EL02-0314	S-6386.09	D13101	1/1	26-Mar-2014 10:50 AM	28-Mar-2014 1:25 PM	05-Apr-2014 7:54 AM	EB
	D13109	NA	MW49	WG	MW49-0314	S-6386.07	D13101	1/1	26-Mar-2014 7:57 AM	28-Mar-2014 1:25 PM	05-Apr-2014 7:01 AM	N
	D13109	NA	MW56	WG	MW56-0314	S-6386.08	D13101	1/1	26-Mar-2014 8:03 AM	28-Mar-2014 1:25 PM	05-Apr-2014 7:27 AM	N

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B50139	B50143	NA	LABQC	WQ	LABQC	VBLK36	B50124	1/1	05-Apr-2014 10:04 AM	05-Apr-2014 10:04 AM	05-Apr-2014 10:04 AM	LB
	B50143	NA	MW34	WG	MW34-0314	S-6386.01	B50124	1/5	26-Mar-2014 9:06 AM	05-Apr-2014 5:48 PM	05-Apr-2014 5:48 PM	N
	B50143	NA	MW43	WG	MW43-0314	S-6386.05	B50124	1/1	26-Mar-2014 9:29 AM	05-Apr-2014 3:57 PM	05-Apr-2014 3:57 PM	N
	B50143	NA	MW44	WG	MW44-0314	S-6386.06	B50124	1/1	26-Mar-2014 10:17 AM	05-Apr-2014 6:52 PM	05-Apr-2014 6:52 PM	N
G28414	G28417	NA	FIELDQC	WQ	SAIA-EL03-0314	S-6381.02	G28413	1/1	25-Mar-2014 9:20 AM	01-Apr-2014 5:57 PM	01-Apr-2014 5:57 PM	EB

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
G28414	G28417	NA	FIELDQC	WQ	SAIA-RL03-0314	S-6381.03	G28413	1/1	25-Mar-2014 11:00 AM	01-Apr-2014 5:29 PM	01-Apr-2014 5:29 PM	TB
	G28417	NA	LABQC	WQ	LABQC	VBLK8V	G28413	1/1	01-Apr-2014 3:27 PM	01-Apr-2014 3:27 PM	01-Apr-2014 3:27 PM	LB
G28434	G28440	NA	LABQC	WQ	LABQC	VBLK9A	G28439	1/1	04-Apr-2014 12:46 PM	04-Apr-2014 12:46 PM	04-Apr-2014 12:46 PM	LB
	G28440	NA	SAIA-MW5C	WG	SAIA-MW5C-0314	S-6381.01	G28439	1/8	25-Mar-2014 8:51 AM	04-Apr-2014 4:00 PM	04-Apr-2014 4:00 PM	N
	G28440	NA	SAIA-MW5C	WG	SAIA-MW5C-0314	S-6381.01DL	G28439	1/50	25-Mar-2014 8:51 AM	04-Apr-2014 7:25 PM	04-Apr-2014 7:25 PM	N
G28455	G28458	NA	FIELDQC	WQ	SAIA-EL02-0314	S-6386.09	G28439	1/1	26-Mar-2014 10:50 AM	05-Apr-2014 6:51 PM	05-Apr-2014 6:51 PM	EB
	G28458	NA	LABQC	WQ	LABQC	VBLK9C	G28439	1/1	05-Apr-2014 9:57 AM	05-Apr-2014 9:57 AM	05-Apr-2014 9:57 AM	LB
	G28458	NA	MW34	WG	MW934-0314	S-6386.02	G28439	1/4	26-Mar-2014 9:11 AM	05-Apr-2014 7:20 PM	05-Apr-2014 7:20 PM	FD
	G28458	NA	MW35	WG	MW35-0314	S-6386.03	G28439	1/1	26-Mar-2014 10:15 AM	05-Apr-2014 3:49 PM	05-Apr-2014 3:49 PM	N
	G28458	NA	MW49	WG	MW49-0314	S-6386.07	G28439	1/1	26-Mar-2014 7:57 AM	05-Apr-2014 4:47 PM	05-Apr-2014 4:47 PM	N
G28478	G28481	NA	FIELDQC	WQ	SAIA-RL01-0314	S-6386.10	G28439	1/1	26-Mar-2014 10:55 AM	06-Apr-2014 4:23 AM	06-Apr-2014 4:23 AM	TB
	G28481	NA	FIELDQC	WQ	SAIA-RL02-0314	S-6386.11	G28439	1/1	26-Mar-2014 7:57 AM	06-Apr-2014 1:58 AM	06-Apr-2014 1:58 AM	TB
	G28481	NA	LABQC	WQ	LABQC	VBLK9E	G28439	1/1	05-Apr-2014 11:35 PM	05-Apr-2014 11:35 PM	05-Apr-2014 11:35 PM	LB
	G28481	NA	MW34	WG	MW34-0314	S-6386.01DL	G28439	1/40	26-Mar-2014 9:06 AM	06-Apr-2014 4:51 AM	06-Apr-2014 4:51 AM	N
	G28481	NA	MW34	WG	MW934-0314	S-6386.02DL	G28439	1/50	26-Mar-2014 9:11 AM	06-Apr-2014 5:19 AM	06-Apr-2014 5:19 AM	FD
	G28481	NA	MW35	WG	MW35-0314	S-6386.03DL	G28439	1/8	26-Mar-2014 10:15 AM	06-Apr-2014 5:47 AM	06-Apr-2014 5:47 AM	N
	G28481	NA	MW42	WG	MW42-0314	S-6386.04MS	G28439	1/20	26-Mar-2014 11:55 AM	06-Apr-2014 1:01 AM	06-Apr-2014 1:01 AM	MS
	G28481	NA	MW42	WG	MW42-0314	S-6386.04	G28439	1/20	26-Mar-2014 11:55 AM	06-Apr-2014 12:04 AM	06-Apr-2014 12:04 AM	N
	G28481	NA	MW42	WG	MW42-0314	S-6386.04MSD	G28439	1/20	26-Mar-2014 11:55 AM	06-Apr-2014 3:27 AM	06-Apr-2014 3:27 AM	SD
	G28481	NA	MW43	WG	MW43-0314	S-6386.05DL	G28439	1/4	26-Mar-2014 9:29 AM	06-Apr-2014 6:44 AM	06-Apr-2014 6:44 AM	N
	G28481	NA	MW44	WG	MW44-0314	S-6386.06DL	G28439	1/4	26-Mar-2014 10:17 AM	06-Apr-2014 7:12 AM	06-Apr-2014 7:12 AM	N
	G28481	NA	MW49	WG	MW49-0314	S-6386.07DL	G28439	1/8	26-Mar-2014 7:57 AM	06-Apr-2014 7:40 AM	06-Apr-2014 7:40 AM	N

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
G28478	G28481	NA	MW56	WG	MW56-0314	S-6386.08	G28439	1/4	26-Mar-2014 8:03 AM	06-Apr-2014 8:36 AM	06-Apr-2014 8:36 AM	N
	G28481	NA	MW56	WG	MW56-0314	S-6386.08DL	G28439	1/40	26-Mar-2014 8:03 AM	06-Apr-2014 8:08 AM	06-Apr-2014 8:08 AM	N
G28501	G28504	NA	LABQC	WQ	LABQC	VBLK9G	G28439	1/1	06-Apr-2014 11:31 AM	06-Apr-2014 11:31 AM	06-Apr-2014 11:31 AM	LB
	G28504	NA	MW42	WG	MW42-0314	S-6386.04DL	G28439	1/400	26-Mar-2014 11:55 AM	06-Apr-2014 1:24 PM	06-Apr-2014 1:24 PM	N
G28547	G28549	NA	LABQC	WQ	LABQC	VBLK9L	G28439	1/1	08-Apr-2014 10:37 AM	08-Apr-2014 10:37 AM	08-Apr-2014 10:37 AM	LB
	G28549	NA	LABQC	WQ	LABQC	S-6381.04	G28439	1/1	08-Apr-2014 6:45 PM	08-Apr-2014 6:45 PM	08-Apr-2014 6:45 PM	LB

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

Batch Report

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
P49896-1	P49898	NA	FIELDQC	WQ	SAIA-EL02-0314	S-6386.09	P49866-1	1/1	26-Mar-2014 10:50 AM	28-Mar-2014 1:10 PM	08-Apr-2014 8:00 AM	EB
	P49898	NA	LABQC	WQ	LABQC	ALCS70	P49866-1	1/1	28-Mar-2014 1:10 PM	28-Mar-2014 1:10 PM	08-Apr-2014 4:59 AM	BS
	P49898	NA	LABQC	WQ	LABQC	ABLK70	P49866-1	1/1	28-Mar-2014 1:10 PM	28-Mar-2014 1:10 PM	08-Apr-2014 4:28 AM	LB
	P49898	NA	MW34	WG	MW34-0314	S-6386.01	P49866-1	1/1	26-Mar-2014 9:06 AM	28-Mar-2014 1:10 PM	08-Apr-2014 5:29 AM	N
	P49898	NA	MW34	WG	MW934-0314	S-6386.02	P49866-1	1/1	26-Mar-2014 9:11 AM	28-Mar-2014 1:10 PM	08-Apr-2014 5:59 AM	FD
	P49898	NA	MW42	WG	MW42-0314	S-6386.04	P49866-1	1/1	26-Mar-2014 11:55 AM	28-Mar-2014 1:10 PM	08-Apr-2014 8:31 AM	MS
	P49898	NA	MW42	WG	MW42-0314	S-6386.04	P49866-1	1/1	26-Mar-2014 11:55 AM	28-Mar-2014 1:10 PM	08-Apr-2014 6:29 AM	N
	P49898	NA	MW42	WG	MW42-0314	S-6386.04	P49866-1	1/1	26-Mar-2014 11:55 AM	28-Mar-2014 1:10 PM	08-Apr-2014 9:01 AM	SD
	P49898	NA	MW43	WG	MW43-0314	S-6386.05	P49866-1	1/1	26-Mar-2014 9:29 AM	28-Mar-2014 1:10 PM	08-Apr-2014 7:00 AM	N
	P49898	NA	MW44	WG	MW44-0314	S-6386.06	P49866-1	1/1	26-Mar-2014 10:17 AM	28-Mar-2014 1:10 PM	08-Apr-2014 7:30 AM	N
P49896-2	P49898	NA	FIELDQC	WQ	SAIA-EL02-0314	S-6386.09	P49866-2	1/1	26-Mar-2014 10:50 AM	28-Mar-2014 1:10 PM	08-Apr-2014 8:31 AM	EB
	P49898	NA	LABQC	WQ	LABQC	ALCS70	P49866-2	1/1	28-Mar-2014 1:10 PM	28-Mar-2014 1:10 PM	08-Apr-2014 5:29 AM	BS
	P49898	NA	LABQC	WQ	LABQC	ABLK70	P49866-2	1/1	28-Mar-2014 1:10 PM	28-Mar-2014 1:10 PM	08-Apr-2014 4:59 AM	LB
	P49898	NA	MW34	WG	MW34-0314	S-6386.01	P49866-2	1/1	26-Mar-2014 9:06 AM	28-Mar-2014 1:10 PM	08-Apr-2014 5:59 AM	N
	P49898	NA	MW34	WG	MW934-0314	S-6386.02	P49866-2	1/1	26-Mar-2014 9:11 AM	28-Mar-2014 1:10 PM	08-Apr-2014 6:29 AM	FD
	P49898	NA	MW42	WG	MW42-0314	S-6386.04	P49866-2	1/1	26-Mar-2014 11:55 AM	28-Mar-2014 1:10 PM	08-Apr-2014 9:01 AM	MS
	P49898	NA	MW42	WG	MW42-0314	S-6386.04	P49866-2	1/1	26-Mar-2014 11:55 AM	28-Mar-2014 1:10 PM	08-Apr-2014 7:00 AM	N
	P49898	NA	MW42	WG	MW42-0314	S-6386.04	P49866-2	1/1	26-Mar-2014 11:55 AM	28-Mar-2014 1:10 PM	08-Apr-2014 9:31 AM	SD
	P49898	NA	MW43	WG	MW43-0314	S-6386.05	P49866-2	1/1	26-Mar-2014 9:29 AM	28-Mar-2014 1:10 PM	08-Apr-2014 7:30 AM	N
	P49898	NA	MW44	WG	MW44-0314	S-6386.06	P49866-2	1/1	26-Mar-2014 10:17 AM	28-Mar-2014 1:10 PM	08-Apr-2014 8:00 AM	N

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

Batch Report

Test Method: WSM0011; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
F53978	F53981	NA	LABQC	WQ	LABQC	SBLK57	F53673	1/1	28-Mar-2014 1:25 PM	28-Mar-2014 1:25 PM	08-Apr-2014 10:33 AM	LB
F54032	F53981	NA	FIELDQC	WQ	SAIA-EL02-0314	S-6386.09	F54032	1/1	26-Mar-2014 10:50 AM	28-Mar-2014 1:25 PM	11-Apr-2014 6:50 PM	EB
	F53981	NA	FIELDQC	WQ	SAIA-EL03-0314	S-6381.02	F54032	1/1	25-Mar-2014 9:20 AM	28-Mar-2014 1:25 PM	11-Apr-2014 4:09 PM	EB
	F53981	NA	MW34	WG	MW34-0314	S-6386.01	F54032	1/1	26-Mar-2014 9:06 AM	28-Mar-2014 1:25 PM	11-Apr-2014 4:21 PM	N
	F53981	NA	MW34	WG	MW934-0314	S-6386.02	F54032	1/1	26-Mar-2014 9:11 AM	28-Mar-2014 1:25 PM	11-Apr-2014 5:15 PM	FD
	F53981	NA	MW43	WG	MW43-0314	S-6386.05	F54032	1/1	26-Mar-2014 9:29 AM	28-Mar-2014 1:25 PM	11-Apr-2014 5:56 PM	N
	F53981	NA	MW44	WG	MW44-0314	S-6386.06	F54032	1/1	26-Mar-2014 10:17 AM	28-Mar-2014 1:25 PM	11-Apr-2014 6:09 PM	N
	F53981	NA	MW49	WG	MW49-0314	S-6386.07	F54032	1/1	26-Mar-2014 7:57 AM	28-Mar-2014 1:25 PM	11-Apr-2014 6:23 PM	N
	F53981	NA	MW56	WG	MW56-0314	S-6386.08	F54032	1/1	26-Mar-2014 8:03 AM	28-Mar-2014 1:25 PM	11-Apr-2014 6:37 PM	N
	F53981	NA	SAIA-MW5C	WG	SAIA-MW5C-0314	S-6381.01	F54032	1/1	25-Mar-2014 8:51 AM	28-Mar-2014 1:25 PM	11-Apr-2014 3:55 PM	N
F54078	F53981	NA	MW35	WG	MW35-0314	S-6386.03	F54032	1/1	26-Mar-2014 10:15 AM	28-Mar-2014 1:25 PM	15-Apr-2014 12:14 PM	N
	F53981	NA	MW42	WG	MW42-0314	S-6386.04DL	F54032	1/10	26-Mar-2014 11:55 AM	28-Mar-2014 1:25 PM	15-Apr-2014 12:40 PM	N

Field Batch Report

Test Method: CSVOL12		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
26031401			FIELDQC	WQ	SAIA-EL02-0314	S-6386.09	3/26/2014 10:50:00 AM	EB
26031401			MW34	WG	MW34-0314	S-6386.01	3/26/2014 9:06:00 AM	N
26031401			MW34	WG	MW934-0314	S-6386.02	3/26/2014 9:11:00 AM	FD
26031401			MW35	WG	MW35-0314	S-6386.03	3/26/2014 10:15:00 AM	N
26031401			MW42	WG	MW42-0314	S-6386.04	3/26/2014 11:55:00 AM	N
26031401			MW42	WG	MW42-0314	S-6386.04MS	3/26/2014 11:55:00 AM	MS
26031401			MW42	WG	MW42-0314	S-6386.04MSD	3/26/2014 11:55:00 AM	SD
26031401			MW43	WG	MW43-0314	S-6386.05	3/26/2014 9:29:00 AM	N
26031401			MW44	WG	MW44-0314	S-6386.06	3/26/2014 10:17:00 AM	N
26031401			MW49	WG	MW49-0314	S-6386.07	3/26/2014 7:57:00 AM	N
26031401			MW56	WG	MW56-0314	S-6386.08	3/26/2014 8:03:00 AM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
26031401			FIELDQC	WQ	SAIA-EL02-0314	S-6386.09	3/26/2014 10:50:00 AM	EB
26031401			MW34	WG	MW34-0314	S-6386.01	3/26/2014 9:06:00 AM	N
26031401			MW34	WG	MW34-0314	S-6386.01DL	3/26/2014 9:06:00 AM	N
26031401			MW34	WG	MW934-0314	S-6386.02	3/26/2014 9:11:00 AM	FD
26031401			MW34	WG	MW934-0314	S-6386.02DL	3/26/2014 9:11:00 AM	FD
26031401			MW35	WG	MW35-0314	S-6386.03	3/26/2014 10:15:00 AM	N
26031401			MW35	WG	MW35-0314	S-6386.03DL	3/26/2014 10:15:00 AM	N
26031401			MW42	WG	MW42-0314	S-6386.04	3/26/2014 11:55:00 AM	N
26031401			MW42	WG	MW42-0314	S-6386.04DL	3/26/2014 11:55:00 AM	N
26031401			MW42	WG	MW42-0314	S-6386.04MS	3/26/2014 11:55:00 AM	MS
26031401			MW42	WG	MW42-0314	S-6386.04MSD	3/26/2014 11:55:00 AM	SD
26031401			MW43	WG	MW43-0314	S-6386.05	3/26/2014 9:29:00 AM	N

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
26031401			MW43	WG	MW43-0314	S-6386.05DL	3/26/2014 9:29:00 AM	N
26031401			MW44	WG	MW44-0314	S-6386.06	3/26/2014 10:17:00 AM	N
26031401			MW44	WG	MW44-0314	S-6386.06DL	3/26/2014 10:17:00 AM	N
26031401			MW49	WG	MW49-0314	S-6386.07	3/26/2014 7:57:00 AM	N
26031401			MW49	WG	MW49-0314	S-6386.07DL	3/26/2014 7:57:00 AM	N
26031401			MW56	WG	MW56-0314	S-6386.08	3/26/2014 8:03:00 AM	N
26031401			MW56	WG	MW56-0314	S-6386.08DL	3/26/2014 8:03:00 AM	N
Test Method: SW8082		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
26031401			FIELDQC	WQ	SAIA-EL02-0314	S-6386.09	3/26/2014 10:50:00 AM	EB
26031401			MW34	WG	MW34-0314	S-6386.01	3/26/2014 9:06:00 AM	N
26031401			MW34	WG	MW934-0314	S-6386.02	3/26/2014 9:11:00 AM	FD
26031401			MW42	WG	MW42-0314	S-6386.04	3/26/2014 11:55:00 AM	MS
26031401			MW42	WG	MW42-0314	S-6386.04	3/26/2014 11:55:00 AM	N
26031401			MW42	WG	MW42-0314	S-6386.04	3/26/2014 11:55:00 AM	SD
26031401			MW43	WG	MW43-0314	S-6386.05	3/26/2014 9:29:00 AM	N
26031401			MW44	WG	MW44-0314	S-6386.06	3/26/2014 10:17:00 AM	N
Test Method: WSM0011		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
26031401			FIELDQC	WQ	SAIA-EL02-0314	S-6386.09	3/26/2014 10:50:00 AM	EB
26031401			MW34	WG	MW34-0314	S-6386.01	3/26/2014 9:06:00 AM	N
26031401			MW34	WG	MW934-0314	S-6386.02	3/26/2014 9:11:00 AM	FD
26031401			MW35	WG	MW35-0314	S-6386.03	3/26/2014 10:15:00 AM	N
26031401			MW42	WG	MW42-0314	S-6386.04DL	3/26/2014 11:55:00 AM	N

Field Batch Report

Test Method: WSM0011		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
26031401			MW43	WG	MW43-0314	S-6386.05	3/26/2014 9:29:00 AM	N
26031401			MW44	WG	MW44-0314	S-6386.06	3/26/2014 10:17:00 AM	N
26031401			MW49	WG	MW49-0314	S-6386.07	3/26/2014 7:57:00 AM	N
26031401			MW56	WG	MW56-0314	S-6386.08	3/26/2014 8:03:00 AM	N
Test Method: CSVOL12		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
25031401			FIELDQC	WQ	SAIA-EL03-0314	S-6381.02	3/25/2014 9:20:00 AM	EB
25031401			SAIA-MW5C	WG	SAIA-MW5C-0314	S-6381.01	3/25/2014 8:51:00 AM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
25031401			FIELDQC	WQ	SAIA-EL03-0314	S-6381.02	3/25/2014 9:20:00 AM	EB
25031401			SAIA-MW5C	WG	SAIA-MW5C-0314	S-6381.01	3/25/2014 8:51:00 AM	N
25031401			SAIA-MW5C	WG	SAIA-MW5C-0314	S-6381.01DL	3/25/2014 8:51:00 AM	N
Test Method: WSM0011		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
25031401			FIELDQC	WQ	SAIA-EL03-0314	S-6381.02	3/25/2014 9:20:00 AM	EB
25031401			SAIA-MW5C	WG	SAIA-MW5C-0314	S-6381.01	3/25/2014 8:51:00 AM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	26031402		FIELDQC	WQ	SAIA-RL01-0314	S-6386.10	3/26/2014 10:55:00 AM	TB
	26031402		MW42	WG	MW42-0314	S-6386.04	3/26/2014 11:55:00 AM	N
	26031402		MW42	WG	MW42-0314	S-6386.04DL	3/26/2014 11:55:00 AM	N

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	26031402		MW42	WG	MW42-0314	S-6386.04MS	3/26/2014 11:55:00 AM	MS
	26031402		MW42	WG	MW42-0314	S-6386.04MSD	3/26/2014 11:55:00 AM	SD

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	26031401		FIELDQC	WQ	SAIA-RL02-0314	S-6386.11	3/26/2014 7:57:00 AM	TB
	26031401		MW34	WG	MW34-0314	S-6386.01	3/26/2014 9:06:00 AM	N
	26031401		MW34	WG	MW34-0314	S-6386.01DL	3/26/2014 9:06:00 AM	N
	26031401		MW34	WG	MW934-0314	S-6386.02	3/26/2014 9:11:00 AM	FD
	26031401		MW34	WG	MW934-0314	S-6386.02DL	3/26/2014 9:11:00 AM	FD
	26031401		MW35	WG	MW35-0314	S-6386.03	3/26/2014 10:15:00 AM	N
	26031401		MW35	WG	MW35-0314	S-6386.03DL	3/26/2014 10:15:00 AM	N
	26031401		MW43	WG	MW43-0314	S-6386.05	3/26/2014 9:29:00 AM	N
	26031401		MW43	WG	MW43-0314	S-6386.05DL	3/26/2014 9:29:00 AM	N
	26031401		MW44	WG	MW44-0314	S-6386.06	3/26/2014 10:17:00 AM	N
	26031401		MW44	WG	MW44-0314	S-6386.06DL	3/26/2014 10:17:00 AM	N
	26031401		MW49	WG	MW49-0314	S-6386.07	3/26/2014 7:57:00 AM	N
	26031401		MW49	WG	MW49-0314	S-6386.07DL	3/26/2014 7:57:00 AM	N
	26031401		MW56	WG	MW56-0314	S-6386.08	3/26/2014 8:03:00 AM	N
	26031401		MW56	WG	MW56-0314	S-6386.08DL	3/26/2014 8:03:00 AM	N

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	25031402		FIELDQC	WQ	SAIA-RL03-0314	S-6381.03	3/25/2014 11:00:00 AM	TB
	25031402		SAIA-MW5C	WG	SAIA-MW5C-0314	S-6381.01	3/25/2014 8:51:00 AM	N
	25031402		SAIA-MW5C	WG	SAIA-MW5C-0314	S-6381.01DL	3/25/2014 8:51:00 AM	N

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CSVOL12 / SW3520	Equipment Blank	SAIA-EL02-0314 (EB)	1 / 1.00	Diethyl Phthalate	10.0	UG/L	U/None	< 3.3	< 5	K1			
CSVOL12 / SW3520	MS Recovery	MW42-0314 (MS)	1 / 1.00	4-Chloro-3-Methylphenol	100	Percent	J/None	23 - 97	10 - 120	M			
CSVOL12 / SW3520	MS Recovery	MW42-0314 (SD)	1 / 1.00	4-Chloro-3-Methylphenol	97.5	Percent	J/None	23 - 97	10 - 120	M			
CSVOL12 / SW3520	MS Recovery	MW42-0314 (MS)	1 / 1.00	4-Nitrophenol	105	Percent	J/None	10 - 80	5 - 120	M			
CSVOL12 / SW3520	MS Recovery	MW42-0314 (SD)	1 / 1.00	4-Nitrophenol	113	Percent	J/None	10 - 80	5 - 120	M			
CSVOL12 / SW3520	MS Recovery	MW42-0314 (SD)	1 / 1.00	Pentachlorophenol	105	Percent	J/None	9 - 103	5 - 120	M			
CVOL / METHOD	Blank	S-6381.04 (LB)	1 / 1.00	Methylene Chloride	0.310	UG/L	U/None	< 0.2	< 0.5	B1			
CVOL / METHOD	Blank	S-6381.04 (LB)	1 / 1.00	Toluene	0.150	UG/L	U/None	< 0	< 0.5	B1			
CVOL / METHOD	Blank	VBLK36 (LB)	1 / 1.00	Methylene Chloride	0.0860	UG/L	U/None	< 0	< 0.5	B1			
CVOL / METHOD	Blank	VBLK8V (LB)	1 / 1.00	Methylene Chloride	0.440	UG/L	U/None	< 0.2	< 0.5	B1			
CVOL / METHOD	Blank	VBLK8V (LB)	1 / 1.00	Toluene	0.160	UG/L	U/None	< 0	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9A (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.110	UG/L	U/None	< 0	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9A (LB)	1 / 1.00	Methylene Chloride	0.0530	UG/L	U/None	< 0	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9C (LB)	1 / 1.00	Methylene Chloride	0.110	UG/L	U/None	< 0	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9E (LB)	1 / 1.00	Methylene Chloride	0.230	UG/L	U/None	< 0.2	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9E (LB)	1 / 1.00	Toluene	0.120	UG/L	U/None	< 0	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9G (LB)	1 / 1.00	Methylene Chloride	0.390	UG/L	U/None	< 0.2	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9L (LB)	1 / 1.00	1,2,3-Trichlorobenzene	0.240	UG/L	U/None	< 0	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9L (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.170	UG/L	U/None	< 0	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9L (LB)	1 / 1.00	Methylene Chloride	0.420	UG/L	U/None	< 0.2	< 0.5	B1			
CVOL / METHOD	Blank	VBLK9L (LB)	1 / 1.00	Toluene	0.0970	UG/L	U/None	< 0	< 0.5	B1			
CVOL / METHOD	Equipment Blank	SAIA-EL03-0314 (EB)	1 / 1.00	cis-1,2-Dichloroethylene	0.130	UG/L	U/None	< 0	< 0.5	K1			

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CVOL / METHOD	Trip Blank	SAIA-RL03-0314 (TB)	1 / 1.00	m,p-Xylene	0.0540	UG/L	U/None	< 0	< 0.5	K3			
WSM0011 / SW3520	Surrogate	MW42-0314 (N)	1 / 10.00	1,4-Dioxane-d8	120	Percent	J/None	10 - 115	10 - 115	S	Diluted Out	2.00	

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	WG	MW43-0314	N	bis(2-Ethylhexyl) Phthalate	5.0	3.4 J	3.4 J	UG/L	TR
CSVOL12/NONE	WG	MW43-0314	N	Diethyl Phthalate	5.0	2.4 J	5.0 U	UG/L	K1
CSVOL12/NONE	WG	MW49-0314	N	4-Methylphenol (p-Cresol)	5.0	5.0 U	5.0 UJ	UG/L	C11
CSVOL12/NONE	WG	MW56-0314	N	4-Methylphenol (p-Cresol)	5.0	5.0 U	5.0 UJ	UG/L	C11
CSVOL12/NONE	WQ	SAIA-EL02-0314	EB	4-Methylphenol (p-Cresol)	5.0	5.0 U	5.0 UJ	UG/L	C11

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	MW34-0314	N	1,1-Dichloroethane	2.5	1.6 J	1.6 J	UG/L	TR
CVOL/NONE	WG	MW34-0314	N	1,2,3-Trichlorobenzene	2.5	2.5 U	2.5 UJ	UG/L	C11
CVOL/NONE	WG	MW34-0314	N	Bromoform	2.5	2.5 U	2.5 UJ	UG/L	C11
CVOL/NONE	WG	MW34-0314	N	Bromomethane	2.5	2.5 U	2.5 UJ	UG/L	C11
CVOL/NONE	WG	MW34-0314	N	Methylene Chloride	2.5	2.5 JB	2.5 U	UG/L	B1
CVOL/NONE	WG	MW34-0314	N	tert-Butyl Methyl Ether (MTBE)	2.5	1.8 J	1.8 J	UG/L	TR
CVOL/NONE	WG	MW34-0314	N	Toluene	2.5	2.5 J	2.5 U	UG/L	B1/B5
CVOL/NONE	WG	MW35-0314	N	1,1-Dichloroethane	0.50	0.33 J	0.33 J	UG/L	TR
CVOL/NONE	WG	MW35-0314	N	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	MW35-0314	N	Bromoform	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	MW35-0314	N	Bromomethane	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	MW35-0314	N	Methylene Chloride	0.50	0.50 U	0.50 U	UG/L	B1
CVOL/NONE	WG	MW35-0314	N	Toluene	0.50	0.50 U	0.50 U	UG/L	B1/B5
CVOL/NONE	WG	MW42-0314	N	1,2,3-Trichlorobenzene	10.0	10.0 U	10.0 UJ	UG/L	C11
CVOL/NONE	WG	MW42-0314	N	Bromoform	10.0	10.0 U	10.0 UJ	UG/L	C11
CVOL/NONE	WG	MW42-0314	N	Bromomethane	10.0	10.0 U	10.0 UJ	UG/L	C11
CVOL/NONE	WG	MW42-0314	N	Methylene Chloride	10.0	10.0 JB	10.0 U	UG/L	B1
CVOL/NONE	WG	MW42-0314	N	Toluene	10.0	10.0 U	10.0 U	UG/L	B5
CVOL/NONE	WG	MW43-0314	N	1,1-Dichloroethane	0.50	0.22 J	0.22 J	UG/L	TR
CVOL/NONE	WG	MW43-0314	N	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	MW43-0314	N	Bromoform	0.50	0.50 U	0.50 UJ	UG/L	C11

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	MW43-0314	N	Bromomethane	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	MW43-0314	N	Methylene Chloride	0.50	0.50 U	0.50 U	UG/L	B1
CVOL/NONE	WG	MW43-0314	N	Toluene	0.50	0.50 U	0.50 U	UG/L	B1/B5
CVOL/NONE	WG	MW44-0314	N	1,1-Dichloroethane	0.50	0.20 J	0.20 J	UG/L	TR
CVOL/NONE	WG	MW44-0314	N	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	MW44-0314	N	Bromoform	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	MW44-0314	N	Bromomethane	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	MW44-0314	N	Cyclohexane	0.50	0.42 J	0.42 J	UG/L	TR
CVOL/NONE	WG	MW44-0314	N	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	MW44-0314	N	Toluene	0.50	0.50 U	0.50 U	UG/L	B1/B5
CVOL/NONE	WG	MW49-0314	N	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	MW49-0314	N	Bromoform	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	MW49-0314	N	Bromomethane	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WG	MW49-0314	N	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	MW49-0314	N	Toluene	0.50	0.50 U	0.50 U	UG/L	B1/B5
CVOL/NONE	WG	MW56-0314	N	1,1-Dichloroethane	2.0	2.0 U	2.0 UJ	UG/L	S
CVOL/NONE	WG	MW56-0314	N	1,2,3-Trichlorobenzene	2.0	2.0 U	2.0 UJ	UG/L	C11
CVOL/NONE	WG	MW56-0314	N	Bromochloromethane	2.0	2.0 U	2.0 UJ	UG/L	S
CVOL/NONE	WG	MW56-0314	N	Bromoform	2.0	2.0 U	2.0 UJ	UG/L	S/C11
CVOL/NONE	WG	MW56-0314	N	Bromomethane	2.0	2.0 U	2.0 UJ	UG/L	C11
CVOL/NONE	WG	MW56-0314	N	Chloroform	2.0	2.0 U	2.0 UJ	UG/L	S
CVOL/NONE	WG	MW56-0314	N	Dibromochloromethane	2.0	2.0 U	2.0 UJ	UG/L	S
CVOL/NONE	WG	MW56-0314	N	Methylene Chloride	2.0	2.0 JB	2.0 U	UG/L	B1
CVOL/NONE	WG	MW56-0314	N	Toluene	2.0	2.0 U	2.0 U	UG/L	B1/B5
CVOL/NONE	WG	MW934-0314	FD	1,1-Dichloroethane	2.0	1.3 J	1.3 J	UG/L	TR
CVOL/NONE	WG	MW934-0314	FD	1,2,3-Trichlorobenzene	2.0	2.0 U	2.0 UJ	UG/L	C11
CVOL/NONE	WG	MW934-0314	FD	Bromoform	2.0	2.0 U	2.0 UJ	UG/L	C11

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	MW934-0314	FD	Bromomethane	2.0	2.0 U	2.0 UJ	UG/L	C11
CVOL/NONE	WG	MW934-0314	FD	Methylene Chloride	2.0	2.0 JB	2.0 U	UG/L	B1
CVOL/NONE	WG	MW934-0314	FD	tert-Butyl Methyl Ether (MTBE)	2.0	1.5 J	1.5 J	UG/L	TR
CVOL/NONE	WQ	SAIA-EL02-0314	EB	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WQ	SAIA-EL03-0314	EB	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WQ	SAIA-EL03-0314	EB	Bromoform	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WQ	SAIA-EL03-0314	EB	Bromomethane	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WQ	SAIA-EL03-0314	EB	cis-1,2-Dichloroethylene	0.50	0.13 J	0.13 J	UG/L	TR
CVOL/NONE	WQ	SAIA-EL03-0314	EB	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW5C-0314	N	1,2-Dichloroethane	4.0	2.0 J	2.0 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW5C-0314	N	Methylene Chloride	4.0	4.0 JB	4.0 U	UG/L	B1
CVOL/NONE	WG	SAIA-MW5C-0314	N	Toluene	4.0	4.0 J	4.0 U	UG/L	B5
CVOL/NONE	WQ	SAIA-RL01-0314	TB	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WQ	SAIA-RL01-0314	TB	Bromoform	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WQ	SAIA-RL01-0314	TB	Bromomethane	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WQ	SAIA-RL01-0314	TB	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WQ	SAIA-RL02-0314	TB	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WQ	SAIA-RL02-0314	TB	Bromoform	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WQ	SAIA-RL02-0314	TB	Bromomethane	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WQ	SAIA-RL02-0314	TB	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1
CVOL/NONE	WQ	SAIA-RL03-0314	TB	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WQ	SAIA-RL03-0314	TB	Bromoform	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WQ	SAIA-RL03-0314	TB	Bromomethane	0.50	0.50 U	0.50 UJ	UG/L	C11
CVOL/NONE	WQ	SAIA-RL03-0314	TB	m,p-Xylene	0.50	0.054 J	0.054 J	UG/L	TR
CVOL/NONE	WQ	SAIA-RL03-0314	TB	Methylene Chloride	0.50	0.50 JB	0.50 U	UG/L	B1

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CSVOL12/NONE	WG	MW43-0314	N	bis(2-Ethylhexyl) Phthalate	5.0	3.4 J	3.4 J	UG/L	TR
CSVOL12/NONE	WQ	SAIA-EL02-0314	EB	Diethyl Phthalate	5.0	10.0	10.0	UG/L	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	MW34-0314	N	1,1-Dichloroethane	2.5	1.6 J	1.6 J	UG/L	TR
CVOL/NONE	WG	MW34-0314	N	cis-1,2-Dichloroethylene	20.0	470 D	470	UG/L	
CVOL/NONE	WG	MW34-0314	N	trans-1,2-Dichloroethene	2.5	25.0	25.0	UG/L	
CVOL/NONE	WG	MW34-0314	N	tert-Butyl Methyl Ether (MTBE)	2.5	1.8 J	1.8 J	UG/L	TR
CVOL/NONE	WG	MW34-0314	N	Trichloroethene (TCE)	2.5	45.0	45.0	UG/L	
CVOL/NONE	WG	MW35-0314	N	Cyclohexane	0.50	0.69	0.69	UG/L	
CVOL/NONE	WG	MW35-0314	N	1,1-Dichloroethane	0.50	0.33 J	0.33 J	UG/L	TR
CVOL/NONE	WG	MW35-0314	N	1,2-Dichloroethane	0.50	5.8	5.8	UG/L	
CVOL/NONE	WG	MW35-0314	N	cis-1,2-Dichloroethylene	4.0	58.0 D	58.0	UG/L	
CVOL/NONE	WG	MW35-0314	N	trans-1,2-Dichloroethene	0.50	5.5	5.5	UG/L	
CVOL/NONE	WG	MW35-0314	N	Trichloroethene (TCE)	0.50	6.9	6.9	UG/L	
CVOL/NONE	WG	MW42-0314	N	1,1-Dichloroethane	10.0	25.0	25.0	UG/L	
CVOL/NONE	WG	MW42-0314	N	cis-1,2-Dichloroethylene	200	4000 D	4000	UG/L	
CVOL/NONE	WG	MW42-0314	N	trans-1,2-Dichloroethene	10.0	75.0	75.0	UG/L	
CVOL/NONE	WG	MW42-0314	N	Trichloroethene (TCE)	200	390 D	390	UG/L	
CVOL/NONE	WG	MW43-0314	N	Cyclohexane	0.50	1.2	1.2	UG/L	
CVOL/NONE	WG	MW43-0314	N	1,1-Dichloroethane	0.50	0.22 J	0.22 J	UG/L	TR
CVOL/NONE	WG	MW43-0314	N	1,2-Dichloroethane	0.50	7.6	7.6	UG/L	
CVOL/NONE	WG	MW43-0314	N	cis-1,2-Dichloroethylene	2.0	25.0 D	25.0	UG/L	
CVOL/NONE	WG	MW43-0314	N	trans-1,2-Dichloroethene	0.50	1.4	1.4	UG/L	
CVOL/NONE	WG	MW43-0314	N	Trichloroethene (TCE)	0.50	8.6	8.6	UG/L	
CVOL/NONE	WG	MW44-0314	N	Cyclohexane	0.50	0.42 J	0.42 J	UG/L	TR
CVOL/NONE	WG	MW44-0314	N	1,1-Dichloroethane	0.50	0.20 J	0.20 J	UG/L	TR

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	MW44-0314	N	1,2-Dichloroethane	0.50	4.0	4.0	UG/L	
CVOL/NONE	WG	MW44-0314	N	cis-1,2-Dichloroethylene	2.0	21.0 D	21.0	UG/L	
CVOL/NONE	WG	MW44-0314	N	trans-1,2-Dichloroethene	0.50	1.5	1.5	UG/L	
CVOL/NONE	WG	MW44-0314	N	Trichloroethene (TCE)	0.50	2.9	2.9	UG/L	
CVOL/NONE	WG	MW49-0314	N	cis-1,2-Dichloroethylene	4.0	41.0 D	41.0	UG/L	
CVOL/NONE	WG	MW49-0314	N	trans-1,2-Dichloroethene	0.50	3.4	3.4	UG/L	
CVOL/NONE	WG	MW49-0314	N	Trichloroethene (TCE)	0.50	2.9	2.9	UG/L	
CVOL/NONE	WG	MW56-0314	N	cis-1,2-Dichloroethylene	20.0	450 D	450	UG/L	
CVOL/NONE	WG	MW56-0314	N	trans-1,2-Dichloroethene	2.0	15.0	15.0	UG/L	
CVOL/NONE	WG	MW56-0314	N	Trichloroethene (TCE)	20.0	290 D	290	UG/L	
CVOL/NONE	WG	MW934-0314	FD	1,1-Dichloroethane	2.0	1.3 J	1.3 J	UG/L	TR
CVOL/NONE	WG	MW934-0314	FD	cis-1,2-Dichloroethylene	25.0	450 D	450	UG/L	
CVOL/NONE	WG	MW934-0314	FD	trans-1,2-Dichloroethene	2.0	20.0	20.0	UG/L	
CVOL/NONE	WG	MW934-0314	FD	tert-Butyl Methyl Ether (MTBE)	2.0	1.5 J	1.5 J	UG/L	TR
CVOL/NONE	WG	MW934-0314	FD	Trichloroethene (TCE)	2.0	38.0	38.0	UG/L	
CVOL/NONE	WQ	SAIA-EL03-0314	EB	cis-1,2-Dichloroethylene	0.50	0.13 J	0.13 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW5C-0314	N	1,2-Dichloroethane	4.0	2.0 J	2.0 J	UG/L	TR
CVOL/NONE	WG	SAIA-MW5C-0314	N	cis-1,2-Dichloroethylene	25.0	300 D	300	UG/L	
CVOL/NONE	WG	SAIA-MW5C-0314	N	trans-1,2-Dichloroethene	4.0	21.0	21.0	UG/L	
CVOL/NONE	WG	SAIA-MW5C-0314	N	Trichloroethene (TCE)	4.0	6.5	6.5	UG/L	
CVOL/NONE	WQ	SAIA-RL03-0314	TB	m,p-Xylene	0.50	0.054 J	0.054 J	UG/L	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
WSM0011/NONE	WG	MW34-0314	N	1,4-Dioxane (p-Dioxane)	0.50	1.3	1.3	UG/L	
WSM0011/NONE	WG	MW35-0314	N	1,4-Dioxane (p-Dioxane)	0.50	2.3	2.3	UG/L	
WSM0011/NONE	WG	MW42-0314	N	1,4-Dioxane (p-Dioxane)	5.0	24.0 D	24.0	UG/L	
WSM0011/NONE	WG	MW43-0314	N	1,4-Dioxane (p-Dioxane)	0.50	2.8	2.8	UG/L	

AUTOMATED DATA REVIEW SUMMARY for Y9DS0

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
WSM0011/NONE	WG	MW44-0314	N	1,4-Dioxane (p-Dioxane)	0.50	2.8	2.8	UG/L	
WSM0011/NONE	WG	MW934-0314	FD	1,4-Dioxane (p-Dioxane)	0.50	1.5	1.5	UG/L	
WSM0011/NONE	WG	SAIA-MW5C-0314	N	1,4-Dioxane (p-Dioxane)	0.50	3.4	3.4	UG/L	

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for Y9XT5

Facility: Southern Avenue Industrial Area

Guidance Document:

Contract Laboratory: KAP TECHNOLOGIES INC., THE WOODLANDS, TX

Field Contractor:

Data Review Contractor: Gilbane

SDG: Y9XT5, Certified - 8/26/2015 by wtse

QC Level: S2BVEM (Tier 1B)

Project Manager: Don Gruber

Data Reviewer: Kristen Carlyon Peyton

Data Reviewer Title: Senior Chemist

Date of Review Report: September 09, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG Y9XT5

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
BNASIM/NONE	14	2
CVOL/NONE	15	5

AUTOMATED DATA REVIEW SUMMARY for Y9XT5

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by KAP TECHNOLOGIES INC., THE WOODLANDS, TX and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- Negative Blank

AUTOMATED DATA REVIEW SUMMARY for Y9XT5

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 5 results (0.47%) out of the 1056 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

EXES validation reviewed and qualifiers entered. See EXES data review reports for details.

Chain-of-custody and sample receipt documentation reviewed for sample receipt condition and custody issues. None found.

Field duplicate pairs reviewed. No RPD or RL check exceedances. See attached Field Duplicate Report.

Equipment blanks and trip blanks reviewed. See QC outliers and qualified results section below for details.

09-Sep-2015

Released by Kristen Carlyon Peyton, Senior Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for Y9XT5

Batch Report

Test Method: BNASIM; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
C21918	C21920	NA	LABQC	WQ	LABQC	SBLK62	C21789	1/1	28-Jul-2015 2:55 PM	28-Jul-2015 2:55 PM	11-Aug-2015 12:45 PM	LB
	C21920	NA	SAIA-CPT14	WG	SAIA-CPT14-130	S-1123.05	C21789	1/1	23-Jul-2015 2:05 PM	28-Jul-2015 2:55 PM	11-Aug-2015 2:52 PM	N
	C21920	NA	SAIA-CPT14	WG	SAIA-CPT14-60	S-1123.01	C21789	1/1	23-Jul-2015 11:45 AM	28-Jul-2015 2:55 PM	11-Aug-2015 1:59 PM	N
	C21920	NA	SAIA-CPT14	WG	SAIA-CPT14-75	S-1123.03	C21789	1/1	23-Jul-2015 12:15 PM	28-Jul-2015 2:55 PM	11-Aug-2015 2:26 PM	N
	C21920	NA	SAIA-CPT14	WG	SAIA-CPT14-76	S-1123.02	C21789	1/1	23-Jul-2015 12:20 PM	28-Jul-2015 2:55 PM	11-Aug-2015 2:13 PM	FD
	C21920	NA	SAIA-CPT14	WG	SAIA-CPT14-90	S-1123.04	C21789	1/1	23-Jul-2015 1:15 PM	28-Jul-2015 2:55 PM	11-Aug-2015 2:39 PM	N
	C21920	NA	SAIA-CPT19	WG	SAIA-CPT19-105	S-1123.09	C21789	1/1	24-Jul-2015 12:40 PM	28-Jul-2015 2:55 PM	11-Aug-2015 3:44 PM	N
	C21920	NA	SAIA-CPT19	WG	SAIA-CPT19-130	S-1123.10	C21789	1/1	24-Jul-2015 1:25 PM	28-Jul-2015 2:55 PM	11-Aug-2015 3:57 PM	N
	C21920	NA	SAIA-CPT19	WG	SAIA-CPT19-45	S-1127.04	C21789	1/1	27-Jul-2015 7:50 AM	28-Jul-2015 2:55 PM	11-Aug-2015 5:56 PM	N
	C21920	NA	SAIA-CPT19	WG	SAIA-CPT19-75	S-1123.07	C21789	1/1	24-Jul-2015 10:25 AM	28-Jul-2015 2:55 PM	11-Aug-2015 3:18 PM	N
	C21920	NA	SAIA-CPT19	WG	SAIA-CPT19-90	S-1123.08	C21789	1/1	24-Jul-2015 11:50 AM	28-Jul-2015 2:55 PM	11-Aug-2015 3:31 PM	N
	C21920	NA	SAIA-CPT20	WG	SAIA-CPT20-105	S-1127.05	C21789	1/1	27-Jul-2015 12:45 PM	28-Jul-2015 2:55 PM	11-Aug-2015 6:10 PM	N
	C21920	NA	SAIA-CPT20	WG	SAIA-CPT20-60	S-1127.01	C21789	1/1	27-Jul-2015 10:45 AM	28-Jul-2015 2:55 PM	11-Aug-2015 5:13 PM	N
	C21920	NA	SAIA-CPT20	WG	SAIA-CPT20-75	S-1127.02	C21789	1/1	27-Jul-2015 11:40 AM	28-Jul-2015 2:55 PM	11-Aug-2015 5:27 PM	N
	C21920	NA	SAIA-CPT20	WG	SAIA-CPT20-76	S-1127.03	C21789	1/1	27-Jul-2015 11:45 AM	28-Jul-2015 2:55 PM	11-Aug-2015 5:41 PM	FD
	C21921	NA	LABQC	WQ	LABQC	SLCS62	C21789	1/1	28-Jul-2015 2:55 PM	28-Jul-2015 2:55 PM	11-Aug-2015 1:34 PM	BS
C21939	C21920	NA	SAIA-CPT19	WG	SAIA-CPT19-60	S-1123.06	C21789	1/1	24-Jul-2015 9:50 AM	28-Jul-2015 2:55 PM	12-Aug-2015 3:12 PM	N
	C21941	NA	LABQC	WQ	LABQC	SBLK66	C21789	1/1	01-Aug-2015 1:05 PM	01-Aug-2015 1:05 PM	12-Aug-2015 10:44 AM	LB
	C21941	NA	SAIA-CPT15	WG	SAIA-CPT15-60	S-1136.01	C21789	1/1	28-Jul-2015 9:25 AM	01-Aug-2015 1:05 PM	12-Aug-2015 1:41 PM	N
	C21942	NA	LABQC	WQ	LABQC	SLCS66	C21789	1/1	01-Aug-2015 1:05 PM	01-Aug-2015 1:05 PM	12-Aug-2015 10:57 AM	BS

AUTOMATED DATA REVIEW SUMMARY for Y9XT5

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
G32582	G32586	NA	LABQC	WQ	LABQC	VBLK7P	G32568	1/1	01-Aug-2015 11:36 AM	01-Aug-2015 11:36 AM	01-Aug-2015 11:36 AM	LB
	G32586	NA	SAIA-CPT14	WG	SAIA-CPT14-130	S-1123.05	G32568	1/10	23-Jul-2015 2:05 PM	01-Aug-2015 4:32 PM	01-Aug-2015 4:32 PM	N
	G32586	NA	SAIA-CPT14	WG	SAIA-CPT14-60	S-1123.01	G32568	1/1	23-Jul-2015 11:45 AM	01-Aug-2015 12:09 PM	01-Aug-2015 12:09 PM	N
	G32586	NA	SAIA-CPT14	WG	SAIA-CPT14-75	S-1123.03	G32568	1/1	23-Jul-2015 12:15 PM	01-Aug-2015 2:37 PM	01-Aug-2015 2:37 PM	N
	G32586	NA	SAIA-CPT14	WG	SAIA-CPT14-76	S-1123.02	G32568	1/1	23-Jul-2015 12:20 PM	01-Aug-2015 12:39 PM	01-Aug-2015 12:39 PM	FD
	G32586	NA	SAIA-CPT14	WG	SAIA-CPT14-90	S-1123.04	G32568	1/5	23-Jul-2015 1:15 PM	01-Aug-2015 3:35 PM	01-Aug-2015 3:35 PM	N
	G32586	NA	SAIA-CPT19	WG	SAIA-CPT19-60	S-1123.06	G32568	1/1	24-Jul-2015 9:50 AM	01-Aug-2015 5:56 PM	01-Aug-2015 5:56 PM	N
	G32586	NA	SAIA-CPT19	WG	SAIA-CPT19-75	S-1123.07	G32568	1/1	24-Jul-2015 10:25 AM	01-Aug-2015 6:24 PM	01-Aug-2015 6:24 PM	N
	G32586	NA	SAIA-CPT19	WG	SAIA-CPT19-90	S-1123.08	G32568	1/1	24-Jul-2015 11:50 AM	01-Aug-2015 7:52 PM	01-Aug-2015 7:52 PM	N
G32603	G32605	NA	FIELDQC	WQ	SAIA-RL01-0715	S-1123.11	G32568	1/1	23-Jul-2015 11:20 AM	02-Aug-2015 12:12 PM	02-Aug-2015 12:12 PM	TB
	G32605	NA	FIELDQC	WQ	SAIA-RL02-0715	S-1123.12	G32568	1/1	24-Jul-2015 8:00 AM	02-Aug-2015 12:40 PM	02-Aug-2015 12:40 PM	TB
	G32605	NA	LABQC	WQ	LABQC	VBLK7R	G32568	1/1	02-Aug-2015 11:36 AM	02-Aug-2015 11:36 AM	02-Aug-2015 11:36 AM	LB
	G32605	NA	SAIA-CPT14	WG	SAIA-CPT14-130	S-1123.05	G32568	1/50	23-Jul-2015 2:05 PM	02-Aug-2015 7:15 PM	02-Aug-2015 7:15 PM	N
	G32605	NA	SAIA-CPT14	WG	SAIA-CPT14-75	S-1123.03	G32568	1/10	23-Jul-2015 12:15 PM	02-Aug-2015 6:17 PM	02-Aug-2015 6:17 PM	N
	G32605	NA	SAIA-CPT14	WG	SAIA-CPT14-76	S-1123.02	G32568	1/10	23-Jul-2015 12:20 PM	02-Aug-2015 5:47 PM	02-Aug-2015 5:47 PM	FD
	G32605	NA	SAIA-CPT14	WG	SAIA-CPT14-90	S-1123.04	G32568	1/50	23-Jul-2015 1:15 PM	02-Aug-2015 6:46 PM	02-Aug-2015 6:46 PM	N
	G32605	NA	SAIA-CPT19	WG	SAIA-CPT19-105	S-1123.09	G32568	1/1	24-Jul-2015 12:40 PM	02-Aug-2015 3:05 PM	02-Aug-2015 3:05 PM	N
	G32605	NA	SAIA-CPT19	WG	SAIA-CPT19-105	S-1123.09	G32568	1/10	24-Jul-2015 12:40 PM	02-Aug-2015 8:40 PM	02-Aug-2015 8:40 PM	N
	G32605	NA	SAIA-CPT19	WG	SAIA-CPT19-130	S-1123.10	G32568	1/50	24-Jul-2015 1:25 PM	02-Aug-2015 9:09 PM	02-Aug-2015 9:09 PM	N
	G32605	NA	SAIA-CPT19	WG	SAIA-CPT19-75	S-1123.07MS	G32568	1/1	24-Jul-2015 10:25 AM	02-Aug-2015 1:09 PM	02-Aug-2015 1:09 PM	MS
	G32605	NA	SAIA-CPT19	WG	SAIA-CPT19-75	S-1123.07	G32568	1/10	24-Jul-2015 10:25 AM	02-Aug-2015 7:44 PM	02-Aug-2015 7:44 PM	N
	G32605	NA	SAIA-CPT19	WG	SAIA-CPT19-75	S-1123.07MSD	G32568	1/1	24-Jul-2015 10:25 AM	02-Aug-2015 2:06 PM	02-Aug-2015 2:06 PM	SD

AUTOMATED DATA REVIEW SUMMARY for Y9XT5

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
G32603	G32605	NA	SAIA-CPT19	WG	SAIA-CPT19-90	S-1123.08	G32568	1/10	24-Jul-2015 11:50 AM	02-Aug-2015 8:12 PM	02-Aug-2015 8:12 PM	N
G32626	G32628	NA	LABQC	WQ	LABQC	VBLK7S	G32568	1/1	03-Aug-2015 10:36 AM	03-Aug-2015 10:36 AM	03-Aug-2015 10:36 AM	LB
	G32628	NA	SAIA-CPT19	WG	SAIA-CPT19-130	S-1123.10	G32568	1/5	24-Jul-2015 1:25 PM	03-Aug-2015 1:02 PM	03-Aug-2015 1:02 PM	N
	G32628	NA	SAIA-CPT19	WG	SAIA-CPT19-45	S-1127.04	G32568	1/1	27-Jul-2015 7:50 AM	03-Aug-2015 2:08 PM	03-Aug-2015 2:08 PM	N
	G32628	NA	SAIA-CPT20	WG	SAIA-CPT20-105	S-1127.05	G32568	1/1	27-Jul-2015 12:45 PM	03-Aug-2015 3:05 PM	03-Aug-2015 3:05 PM	N
	G32628	NA	SAIA-CPT20	WG	SAIA-CPT20-130	S-1127.06	G32568	1/1	27-Jul-2015 1:45 PM	03-Aug-2015 6:05 PM	03-Aug-2015 6:05 PM	N
	G32628	NA	SAIA-CPT20	WG	SAIA-CPT20-60	S-1127.01	G32568	1/1	27-Jul-2015 10:45 AM	03-Aug-2015 2:36 PM	03-Aug-2015 2:36 PM	N
	G32628	NA	SAIA-CPT20	WG	SAIA-CPT20-75	S-1127.02	G32568	1/1	27-Jul-2015 11:40 AM	03-Aug-2015 5:08 PM	03-Aug-2015 5:08 PM	N
	G32628	NA	SAIA-CPT20	WG	SAIA-CPT20-76	S-1127.03	G32568	1/1	27-Jul-2015 11:45 AM	03-Aug-2015 4:33 PM	03-Aug-2015 4:33 PM	FD
G32650	G32652	NA	LABQC	WQ	LABQC	VBLK7U	G32568	1/1	04-Aug-2015 3:32 PM	04-Aug-2015 3:32 PM	04-Aug-2015 3:32 PM	LB
	G32652	NA	SAIA-CPT15	WG	SAIA-CPT15-60	S-1136.01	G32568	1/1	28-Jul-2015 9:25 AM	04-Aug-2015 4:06 PM	04-Aug-2015 4:06 PM	N
G32672	G32674	NA	FIELDQC	WQ	SAIA-RL03-0715	S-1127.07	G32568	1/1	27-Jul-2015 7:20 AM	05-Aug-2015 2:52 PM	05-Aug-2015 2:52 PM	TB
	G32674	NA	LABQC	WQ	LABQC	VBLK7X	G32568	1/1	05-Aug-2015 11:52 AM	05-Aug-2015 11:52 AM	05-Aug-2015 11:52 AM	LB
	G32674	NA	SAIA-CPT20	WG	SAIA-CPT20-130	S-1127.06	G32568	1/5	27-Jul-2015 1:45 PM	05-Aug-2015 2:24 PM	05-Aug-2015 2:24 PM	N
G32783	G32785	NA	LABQC	WQ	LABQC	VBLK8M	G32727	1/1	13-Aug-2015 12:49 PM	13-Aug-2015 12:49 PM	13-Aug-2015 12:49 PM	LB
	G32785	NA	LABQC	WQ	LABQC	S-1123.13	G32727	1/1	13-Aug-2015 1:52 PM	13-Aug-2015 1:52 PM	13-Aug-2015 1:52 PM	LB

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	27071501		FIELDQC	WQ	SAIA-RL03-0715	S-1127.07	7/27/2015 7:20:00 AM	TB
	27071501		SAIA-CPT19	WG	SAIA-CPT19-45	S-1127.04	7/27/2015 7:50:00 AM	N
	27071501		SAIA-CPT20	WG	SAIA-CPT20-105	S-1127.05	7/27/2015 12:45:00 PM	N
	27071501		SAIA-CPT20	WG	SAIA-CPT20-130	S-1127.06	7/27/2015 1:45:00 PM	N
	27071501		SAIA-CPT20	WG	SAIA-CPT20-60	S-1127.01	7/27/2015 10:45:00 AM	N
	27071501		SAIA-CPT20	WG	SAIA-CPT20-75	S-1127.02	7/27/2015 11:40:00 AM	N
	27071501		SAIA-CPT20	WG	SAIA-CPT20-76	S-1127.03	7/27/2015 11:45:00 AM	FD

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	24071501		FIELDQC	WQ	SAIA-RL02-0715	S-1123.12	7/24/2015 8:00:00 AM	TB
	24071501		SAIA-CPT19	WG	SAIA-CPT19-105	S-1123.09	7/24/2015 12:40:00 PM	N
	24071501		SAIA-CPT19	WG	SAIA-CPT19-130	S-1123.10	7/24/2015 1:25:00 PM	N
	24071501		SAIA-CPT19	WG	SAIA-CPT19-60	S-1123.06	7/24/2015 9:50:00 AM	N
	24071501		SAIA-CPT19	WG	SAIA-CPT19-75	S-1123.07	7/24/2015 10:25:00 AM	N
	24071501		SAIA-CPT19	WG	SAIA-CPT19-75	S-1123.07MS	7/24/2015 10:25:00 AM	MS
	24071501		SAIA-CPT19	WG	SAIA-CPT19-75	S-1123.07MSD	7/24/2015 10:25:00 AM	SD
	24071501		SAIA-CPT19	WG	SAIA-CPT19-90	S-1123.08	7/24/2015 11:50:00 AM	N

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	23071501		FIELDQC	WQ	SAIA-RL01-0715	S-1123.11	7/23/2015 11:20:00 AM	TB
	23071501		SAIA-CPT14	WG	SAIA-CPT14-130	S-1123.05	7/23/2015 2:05:00 PM	N
	23071501		SAIA-CPT14	WG	SAIA-CPT14-60	S-1123.01	7/23/2015 11:45:00 AM	N
	23071501		SAIA-CPT14	WG	SAIA-CPT14-75	S-1123.03	7/23/2015 12:15:00 PM	N
	23071501		SAIA-CPT14	WG	SAIA-CPT14-76	S-1123.02	7/23/2015 12:20:00 PM	FD

AUTOMATED DATA REVIEW SUMMARY for Y9XT5

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	23071501		SAIA-CPT14	WG	SAIA-CPT14-90	S-1123.04	7/23/2015 1:15:00 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9XT5

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
BNASIM / SW3510C	Field Duplicate RPD	S-1123.02 (N)	1 / 1.00	1,4-Dioxane (p-Dioxane)	200	RPD	None/None	< 25	< 50	D5		RPD	
CVOL / METHOD	Blank	VBLK7S (LB)	1 / 1.00	Methylene Chloride	0.260	ug/L	U/None	< 0.1	< 0.5	B1		2	0.520
CVOL / METHOD	Field Duplicate RPD	S-1123.02 (N)	1 / 1.00	Methylene Chloride	200	RPD	J/None	< 50	< 100	D5		RPD	
CVOL / METHOD	Trip Blank	SAIA-RL03-0715 (TB)	1 / 1.00	Acetone	11.0	ug/L	U/None	< 3.1	< 5	K3		2	22.0
CVOL / METHOD	Trip Blank	SAIA-RL03-0715 (TB)	1 / 1.00	Methylene Chloride	0.370	ug/L	U/None	< 0.1	< 0.5	K3		2	0.740

AUTOMATED DATA REVIEW SUMMARY for Y9XT5

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	SAIA-CPT14-130	N	1,4-Dioxane (p-Dioxane)	0.50	0.27 J	0.27 J	ug/L	TR
BNASIM/NONE	WG	SAIA-CPT14-76	FD	1,4-Dioxane (p-Dioxane)	0.50	0.37 J	0.37 J	ug/L	TR
BNASIM/NONE	WG	SAIA-CPT20-75	N	1,4-Dioxane (p-Dioxane)	0.50	0.35 J	0.35 J	ug/L	TR
BNASIM/NONE	WG	SAIA-CPT20-76	FD	1,4-Dioxane (p-Dioxane)	0.50	0.42 J	0.42 J	ug/L	TR
Test Leach	**Matrix**	**FieldSample ID**	**Type**	**Analyte**	**RL**	**Lab Result**	**Qualified Result**	**Units**	**Reason**
CVOL/NONE	WG	SAIA-CPT14-60	N	Methylene Chloride	0.50	0.30 J	0.30 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT14-76	FD	Methylene Chloride	0.50	0.26 J	0.26 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT19-45	N	Methylene Chloride	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-CPT19-90	N	1,2-Dichloroethane	0.50	0.26 J	0.26 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT20-105	N	Acetone	15.0	15.0	15.0 U	ug/L	K3
CVOL/NONE	WG	SAIA-CPT20-105	N	Methylene Chloride	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-CPT20-130	N	1,2-Dichloroethane	0.50	0.35 J	0.35 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT20-130	N	Acetone	7.5	7.5	7.5 U	ug/L	K3
CVOL/NONE	WG	SAIA-CPT20-130	N	Trichloroethene (TCE)	0.50	0.42 J	0.42 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT20-60	N	Methylene Chloride	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WQ	SAIA-RL03-0715	TB	Methylene Chloride	0.50	0.37 J	0.37 J	ug/L	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	SAIA-CPT14-130	N	1,4-Dioxane (p-Dioxane)	0.50	0.27 J	0.27 J	ug/L	TR
BNASIM/NONE	WG	SAIA-CPT14-76	FD	1,4-Dioxane (p-Dioxane)	0.50	0.37 J	0.37 J	ug/L	TR
BNASIM/NONE	WG	SAIA-CPT19-130	N	1,4-Dioxane (p-Dioxane)	0.50	0.87	0.87	ug/L	
BNASIM/NONE	WG	SAIA-CPT19-45	N	1,4-Dioxane (p-Dioxane)	0.50	1.6	1.6	ug/L	
BNASIM/NONE	WG	SAIA-CPT20-60	N	1,4-Dioxane (p-Dioxane)	0.50	0.62	0.62	ug/L	
BNASIM/NONE	WG	SAIA-CPT20-75	N	1,4-Dioxane (p-Dioxane)	0.50	0.35 J	0.35 J	ug/L	TR
BNASIM/NONE	WG	SAIA-CPT20-76	FD	1,4-Dioxane (p-Dioxane)	0.50	0.42 J	0.42 J	ug/L	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-CPT14-130	N	cis-1,2-Dichloroethylene	5.0	770 D	770	ug/L	
CVOL/NONE	WG	SAIA-CPT14-130	N	trans-1,2-Dichloroethene	5.0	33.0	33.0	ug/L	
CVOL/NONE	WG	SAIA-CPT14-60	N	Methylene Chloride	0.50	0.30 J	0.30 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT14-75	N	cis-1,2-Dichloroethylene	0.50	130 D	130	ug/L	
CVOL/NONE	WG	SAIA-CPT14-75	N	trans-1,2-Dichloroethene	0.50	7.1	7.1	ug/L	
CVOL/NONE	WG	SAIA-CPT14-75	N	Trichloroethene (TCE)	0.50	2.7	2.7	ug/L	
CVOL/NONE	WG	SAIA-CPT14-76	FD	cis-1,2-Dichloroethylene	0.50	140 D	140	ug/L	
CVOL/NONE	WG	SAIA-CPT14-76	FD	trans-1,2-Dichloroethene	0.50	8.4	8.4	ug/L	
CVOL/NONE	WG	SAIA-CPT14-76	FD	Methylene Chloride	0.50	0.26 J	0.26 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT14-76	FD	Trichloroethene (TCE)	0.50	3.1	3.1	ug/L	
CVOL/NONE	WG	SAIA-CPT14-90	N	cis-1,2-Dichloroethylene	2.5	440 D	440	ug/L	
CVOL/NONE	WG	SAIA-CPT14-90	N	trans-1,2-Dichloroethene	2.5	36.0	36.0	ug/L	
CVOL/NONE	WG	SAIA-CPT19-105	N	cis-1,2-Dichloroethylene	0.50	46.0 D	46.0	ug/L	
CVOL/NONE	WG	SAIA-CPT19-105	N	trans-1,2-Dichloroethene	0.50	3.6	3.6	ug/L	
CVOL/NONE	WG	SAIA-CPT19-105	N	Trichloroethene (TCE)	0.50	33.0 D	33.0	ug/L	
CVOL/NONE	WG	SAIA-CPT19-130	N	cis-1,2-Dichloroethylene	2.5	530 D	530	ug/L	
CVOL/NONE	WG	SAIA-CPT19-130	N	trans-1,2-Dichloroethene	2.5	26.0	26.0	ug/L	
CVOL/NONE	WG	SAIA-CPT19-130	N	Methylene Chloride	2.5	3.2 B	3.2	ug/L	

AUTOMATED DATA REVIEW SUMMARY for Y9XT5

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-CPT19-130	N	Trichloroethene (TCE)	2.5	8.0	8.0	ug/L	
CVOL/NONE	WG	SAIA-CPT19-60	N	cis-1,2-Dichloroethylene	0.50	20.0	20.0	ug/L	
CVOL/NONE	WG	SAIA-CPT19-60	N	trans-1,2-Dichloroethene	0.50	6.7	6.7	ug/L	
CVOL/NONE	WG	SAIA-CPT19-75	N	cis-1,2-Dichloroethylene	0.50	46.0 D	46.0	ug/L	
CVOL/NONE	WG	SAIA-CPT19-75	N	trans-1,2-Dichloroethene	0.50	11.0	11.0	ug/L	
CVOL/NONE	WG	SAIA-CPT19-75	N	Trichloroethene (TCE)	0.50	0.52	0.52	ug/L	
CVOL/NONE	WG	SAIA-CPT19-90	N	1,2-Dichloroethane	0.50	0.26 J	0.26 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT19-90	N	cis-1,2-Dichloroethylene	0.50	44.0 D	44.0	ug/L	
CVOL/NONE	WG	SAIA-CPT19-90	N	trans-1,2-Dichloroethene	0.50	13.0	13.0	ug/L	
CVOL/NONE	WG	SAIA-CPT19-90	N	Trichloroethene (TCE)	0.50	1.1	1.1	ug/L	
CVOL/NONE	WG	SAIA-CPT20-105	N	cis-1,2-Dichloroethylene	0.50	7.5	7.5	ug/L	
CVOL/NONE	WG	SAIA-CPT20-105	N	trans-1,2-Dichloroethene	0.50	1.2	1.2	ug/L	
CVOL/NONE	WG	SAIA-CPT20-105	N	Trichloroethene (TCE)	0.50	0.55	0.55	ug/L	
CVOL/NONE	WG	SAIA-CPT20-130	N	1,2-Dichloroethane	0.50	0.35 J	0.35 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT20-130	N	cis-1,2-Dichloroethylene	0.50	45.0 D	45.0	ug/L	
CVOL/NONE	WG	SAIA-CPT20-130	N	trans-1,2-Dichloroethene	0.50	7.6	7.6	ug/L	
CVOL/NONE	WG	SAIA-CPT20-130	N	Trichloroethene (TCE)	0.50	0.42 J	0.42 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT20-60	N	cis-1,2-Dichloroethylene	0.50	9.5	9.5	ug/L	
CVOL/NONE	WG	SAIA-CPT20-60	N	trans-1,2-Dichloroethene	0.50	2.0	2.0	ug/L	
CVOL/NONE	WG	SAIA-CPT20-60	N	Trichloroethene (TCE)	0.50	1.5	1.5	ug/L	
CVOL/NONE	WG	SAIA-CPT20-75	N	cis-1,2-Dichloroethylene	0.50	20.0	20.0	ug/L	
CVOL/NONE	WG	SAIA-CPT20-75	N	trans-1,2-Dichloroethene	0.50	3.5	3.5	ug/L	
CVOL/NONE	WG	SAIA-CPT20-75	N	Trichloroethene (TCE)	0.50	2.0	2.0	ug/L	
CVOL/NONE	WG	SAIA-CPT20-76	FD	cis-1,2-Dichloroethylene	0.50	18.0	18.0	ug/L	
CVOL/NONE	WG	SAIA-CPT20-76	FD	trans-1,2-Dichloroethene	0.50	3.6	3.6	ug/L	
CVOL/NONE	WG	SAIA-CPT20-76	FD	Trichloroethene (TCE)	0.50	2.0	2.0	ug/L	
CVOL/NONE	WQ	SAIA-RL03-0715	TB	Acetone	5.0	11.0	11.0	ug/L	

AUTOMATED DATA REVIEW SUMMARY for Y9XT5

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WQ	SAIA-RL03-0715	TB	Methylene Chloride	0.50	0.37 J	0.37 J	ug/L	TR

AUTOMATED DATA REVIEW SUMMARY for Y9XT5

Rejected Results

--No Records Found--

July 2015 CPT GW Sampling
Field Duplicate Report By SDG
SAIA
SAIA QAPP
Field Duplicates for SDG: Y9XT5

Location	Analysis
SAIA-CPT14	BNASIM

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,4-Dioxane (p-Dioxane)	ND	0.370	0.500	NA	NA	OK

Location	Analysis
SAIA-CPT14	CVOL

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,1,1-Trichloroethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,1,2,2-Tetrachloroethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,1,2-Trichloroethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,1-Dichloroethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,1-Dichloroethene	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,2,3-Trichlorobenzene	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,2,3-Trichloropropane	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,2,4-Trichlorobenzene	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,2-Dibromo-3-chloropropane	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,2-Dibromoethane (EDB)	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,2-Dichlorobenzene	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,2-Dichloroethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,2-Dichloropropane	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,3-Dichlorobenzene	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,4-Dichlorobenzene	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	2-Butanone (MEK)	ND	ND	5.00	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	2-Hexanone	ND	ND	5.00	NA	NA	OK

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference

RL Check = If either the primary sample or field duplicate result is less than 1 times the RL then the criteria used to determine if the field duplicate is outside QC limits is +/- RL for Water and +/- 2 times RL for Soil

The RPD criteria used for organic analysis is: 35
The RPD criteria used for non-organic analysis is: 35

July 2015 CPT GW Sampling
Field Duplicate Report By SDG
SAIA
SAIA QAPP
Field Duplicates for SDG: Y9XT5

Location	Analysis
SAIA-CPT14	CVOL

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Acetone	ND	ND	5.00	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Benzene	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Bromochloromethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Bromodichloromethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Bromoform	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Bromomethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Carbon Disulfide	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Carbon Tetrachloride	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Chlorobenzene	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Chloroethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Chloroform	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Chloromethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	cis-1,2-Dichloroethylene	130	140	0.500	7.41	OK	NA
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	cis-1,3-Dichloropropene	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Cyclohexane	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Dibromochloromethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Dichlorodifluoromethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Ethylbenzene	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Isopropylbenzene (Cumene)	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	m,p-Xylene	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Methyl Acetate	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Methylcyclohexane	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Methylene Chloride	ND	0.260	0.500	NA	NA	OK

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference

RL Check = If either the primary sample or field duplicate result is less than 1 times the RL then the criteria used to determine if the field duplicate is outside QC limits is +/- RL for Water and +/- 2 times RL for Soil

The RPD criteria used for organic analysis is: 35
The RPD criteria used for non-organic analysis is: 35

July 2015 CPT GW Sampling
Field Duplicate Report By SDG
SAIA
SAIA QAPP
Field Duplicates for SDG: Y9XT5

Location	Analysis
SAIA-CPT14	CVOL

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	o-Xylene	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Styrene	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Tetrachloroethene (PCE)	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Toluene	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	trans-1,2-Dichloroethene	7.10	8.40	0.500	16.8	OK	NA
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	trans-1,3-Dichloropropene	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Trichloroethene (TCE)	2.70	3.10	0.500	13.8	OK	NA
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Trichlorofluoromethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Vinyl Chloride	ND	ND	0.500	NA	NA	OK

Location	Analysis
SAIA-CPT20	BNASIM

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,4-Dioxane (p-Dioxane)	0.350	0.420	0.500	18.2	NA	OK

Location	Analysis
SAIA-CPT20	CVOL

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,1,1-Trichloroethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,1,2,2-Tetrachloroethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,1,2-Trichloroethane	ND	ND	0.500	NA	NA	OK

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference

RL Check = If either the primary sample or field duplicate result is less than 1 times the RL then the criteria used to determine if the field duplicate is outside QC limits is +/- RL for Water and +/- 2 times RL for Soil

The RPD criteria used for organic analysis is: 35
The RPD criteria used for non-organic analysis is: 35

July 2015 CPT GW Sampling
Field Duplicate Report By SDG
SAIA
SAIA QAPP
Field Duplicates for SDG: Y9XT5

Location	Analysis
SAIA-CPT20	CVOL

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,1-Dichloroethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,1-Dichloroethene	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,2,3-Trichlorobenzene	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,2,3-Trichloropropane	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,2,4-Trichlorobenzene	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,2-Dibromo-3-chloropropane	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,2-Dibromoethane (EDB)	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,2-Dichlorobenzene	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,2-Dichloroethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,2-Dichloropropane	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,3-Dichlorobenzene	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,4-Dichlorobenzene	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	2-Butanone (MEK)	ND	ND	5.00	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	2-Hexanone	ND	ND	5.00	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Acetone	ND	ND	5.00	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Benzene	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Bromochloromethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Bromodichloromethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Bromoform	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Bromomethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Carbon Disulfide	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Carbon Tetrachloride	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Chlorobenzene	ND	ND	0.500	NA	NA	OK

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference

RL Check = If either the primary sample or field duplicate result is less than 1 times the RL then the criteria used to determine if the field duplicate is outside QC limits is +/- RL for Water and +/- 2 times RL for Soil

The RPD criteria used for organic analysis is: 35
The RPD criteria used for non-organic analysis is: 35

July 2015 CPT GW Sampling
Field Duplicate Report By SDG
SAIA
SAIA QAPP
Field Duplicates for SDG: Y9XT5

Location	Analysis
SAIA-CPT20	CVOL

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Chloroethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Chloroform	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Chloromethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	cis-1,2-Dichloroethylene	20.0	18.0	0.500	10.5	OK	NA
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	cis-1,3-Dichloropropene	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Cyclohexane	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Dibromochloromethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Dichlorodifluoromethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Ethylbenzene	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Isopropylbenzene (Cumene)	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	m,p-Xylene	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Methyl Acetate	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Methylcyclohexane	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Methylene Chloride	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	o-Xylene	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Styrene	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Tetrachloroethene (PCE)	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Toluene	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	trans-1,2-Dichloroethene	3.50	3.60	0.500	2.82	OK	NA
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	trans-1,3-Dichloropropene	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Trichloroethene (TCE)	2.00	2.00	0.500	0.00	OK	NA
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Trichlorofluoromethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Vinyl Chloride	ND	ND	0.500	NA	NA	OK

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference

RL Check = If either the primary sample or field duplicate result is less than 1 times the RL then the criteria used to determine if the field duplicate is outside QC limits is +/- RL for Water and +/- 2 times RL for Soil

The RPD criteria used for organic analysis is: 35
The RPD criteria used for non-organic analysis is: 35

AUTOMATED DATA REVIEW SUMMARY for Y9XW3

Facility: Southern Avenue Industrial Area

Guidance Document:

Contract Laboratory: KAP TECHNOLOGIES INC., THE WOODLANDS, TX

Field Contractor:

Data Review Contractor: Gilbane

SDG: Y9XW3, Certified - 9/11/2015 by wtse

QC Level: S2BVEM (Tier 1B)

Project Manager: Peter Phillips

Data Reviewer: Kristen Carlyon Peyton

Data Reviewer Title: Senior Chemist

Date of Review Report: September 11, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG Y9XW3

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
BNASIM/NONE	14	3
CVOL/NONE	15	5

AUTOMATED DATA REVIEW SUMMARY for Y9XW3

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by KAP TECHNOLOGIES INC., THE WOODLANDS, TX and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Equipment Blank
- Field Duplicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- Negative Blank

AUTOMATED DATA REVIEW SUMMARY for Y9XW3

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 19 results (1.80%) out of the 1057 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

EXES validation reviewed and qualifiers entered. See EXES data review reports for details concerning MeCl2 storage blank issues and 1,2,3-trichlorobenzene/1,2,4-trichlorobenzene ICAL RSD issues.

Chain-of-custody and sample receipt documentation reviewed for sample receipt condition and custody issues. None found.

Field duplicate pairs reviewed. See attached Field Duplicate Report for details.

Field blanks (equipment blanks and trip blanks review). See QC outlier and qualified results sections below for details of detections and resulting qualifications.

11-Sep-2015

Released by Kristen Carlyon Peyton, Senior Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for Y9XW3

Batch Report

Test Method: BNASIM; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
C21939	C21941	NA	FIELDQC	WQ	SAIA-EL01-0715	S-1137.07	C21789	1/1	28-Jul-2015 1:45 PM	01-Aug-2015 1:05 PM	12-Aug-2015 12:38 PM	EB
	C21941	NA	LABQC	WQ	LABQC	SBLK66	C21789	1/1	01-Aug-2015 1:05 PM	01-Aug-2015 1:05 PM	12-Aug-2015 10:44 AM	LB
	C21941	NA	SAIA-CPT15	WG	SAIA-CPT15-105	S-1137.04	C21789	1/1	28-Jul-2015 12:10 PM	01-Aug-2015 1:05 PM	12-Aug-2015 11:59 AM	N
	C21941	NA	SAIA-CPT15	WG	SAIA-CPT15-130	S-1137.05	C21789	1/1	28-Jul-2015 1:15 PM	01-Aug-2015 1:05 PM	12-Aug-2015 12:11 PM	N
	C21941	NA	SAIA-CPT15	WG	SAIA-CPT15-45	S-1141.01	C21789	1/1	29-Jul-2015 6:30 AM	01-Aug-2015 1:05 PM	12-Aug-2015 1:55 PM	N
	C21941	NA	SAIA-CPT15	WG	SAIA-CPT15-75	S-1137.01	C21789	1/1	28-Jul-2015 10:25 AM	01-Aug-2015 1:05 PM	12-Aug-2015 11:18 AM	N
	C21941	NA	SAIA-CPT15	WG	SAIA-CPT15-90	S-1137.02	C21789	1/1	28-Jul-2015 11:00 AM	01-Aug-2015 1:05 PM	12-Aug-2015 11:33 AM	N
	C21941	NA	SAIA-CPT15	WG	SAIA-CPT15-91	S-1137.03	C21789	1/1	28-Jul-2015 11:05 AM	01-Aug-2015 1:05 PM	12-Aug-2015 11:46 AM	FD
	C21941	NA	SAIA-CPT16	WG	SAIA-CPT16-105	S-1141.05	C21789	1/1	29-Jul-2015 11:40 AM	01-Aug-2015 1:05 PM	12-Aug-2015 2:46 PM	N
	C21941	NA	SAIA-CPT16	WG	SAIA-CPT16-130	S-1141.06	C21789	1/1	29-Jul-2015 12:35 PM	01-Aug-2015 1:05 PM	12-Aug-2015 2:58 PM	N
	C21941	NA	SAIA-CPT16	WG	SAIA-CPT16-60	S-1141.02	C21789	1/1	29-Jul-2015 9:10 AM	01-Aug-2015 1:05 PM	12-Aug-2015 2:07 PM	N
	C21941	NA	SAIA-CPT16	WG	SAIA-CPT16-75	S-1141.03	C21789	1/1	29-Jul-2015 9:45 AM	01-Aug-2015 1:05 PM	12-Aug-2015 2:20 PM	N
	C21941	NA	SAIA-CPT16	WG	SAIA-CPT16-90	S-1141.04	C21789	1/1	29-Jul-2015 10:25 AM	01-Aug-2015 1:05 PM	12-Aug-2015 2:33 PM	N
	C21941	NA	SAIA-CPT17	WG	SAIA-CPT17-60	S-1145.02	C21789	1/5	30-Jul-2015 9:40 AM	01-Aug-2015 1:05 PM	12-Aug-2015 6:12 PM	N
	C21941	NA	SAIA-CPT17	WG	SAIA-CPT17-75	S-1145.03	C21789	1/1	30-Jul-2015 10:20 AM	01-Aug-2015 1:05 PM	12-Aug-2015 6:24 PM	N
	C21941	NA	SAIA-CPT17	WG	SAIA-CPT17-76	S-1145.04	C21789	1/1	30-Jul-2015 10:25 AM	01-Aug-2015 1:05 PM	12-Aug-2015 1:16 PM	FD
	C21941	NA	SAIA-CPT17	WG	SAIA-CPT17-90	S-1145.05	C21789	1/1	30-Jul-2015 11:40 AM	01-Aug-2015 1:05 PM	12-Aug-2015 1:29 PM	N
	C21941	NA	SAIA-CPT20	WG	SAIA-CPT20-45	S-1137.06	C21789	1/1	28-Jul-2015 6:50 AM	01-Aug-2015 1:05 PM	12-Aug-2015 12:24 PM	N
	C21942	NA	LABQC	WQ	LABQC	SLCS66	C21789	1/1	01-Aug-2015 1:05 PM	01-Aug-2015 1:05 PM	12-Aug-2015 10:57 AM	BS

AUTOMATED DATA REVIEW SUMMARY for Y9XW3

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B01568	B01570	NA	FIELDQC	WQ	SAIA-RL05-0715	S-1141.07	B01546	1/1	29-Jul-2015 7:00 AM	10-Aug-2015 9:29 PM	10-Aug-2015 9:29 PM	TB
	B01570	NA	LABQC	WQ	LABQC	VBLK63	B01546	1/1	10-Aug-2015 1:27 PM	10-Aug-2015 1:27 PM	10-Aug-2015 1:27 PM	LB
	B01570	NA	SAIA-CPT15	WG	SAIA-CPT15-45	S-1141.01	B01546	1/1	29-Jul-2015 6:30 AM	10-Aug-2015 6:49 PM	10-Aug-2015 6:49 PM	N
	B01570	NA	SAIA-CPT16	WG	SAIA-CPT16-130	S-1141.06	B01546	1/1	29-Jul-2015 12:35 PM	10-Aug-2015 7:57 PM	10-Aug-2015 7:57 PM	N
	B01570	NA	SAIA-CPT16	WG	SAIA-CPT16-60	S-1141.02	B01546	1/1	29-Jul-2015 9:10 AM	10-Aug-2015 7:23 PM	10-Aug-2015 7:23 PM	N
	B01570	NA	SAIA-CPT16	WG	SAIA-CPT16-75	S-1141.03	B01546	1/1	29-Jul-2015 9:45 AM	10-Aug-2015 2:48 PM	10-Aug-2015 2:48 PM	N
	B01570	NA	SAIA-CPT16	WG	SAIA-CPT16-90	S-1141.04	B01546	1/10	29-Jul-2015 10:25 AM	10-Aug-2015 10:03 PM	10-Aug-2015 10:03 PM	N
	B01570	NA	SAIA-CPT16	WG	SAIA-CPT16-90	S-1141.04	B01546	1/1	29-Jul-2015 10:25 AM	10-Aug-2015 10:37 PM	10-Aug-2015 10:37 PM	N
G32650	G32652	NA	FIELDQC	WQ	SAIA-EL01-0715	S-1137.07	G32568	1/1	28-Jul-2015 1:45 PM	04-Aug-2015 5:04 PM	04-Aug-2015 5:04 PM	EB
	G32652	NA	FIELDQC	WQ	SAIA-RL04-0715	S-1137.08	G32568	1/1	28-Jul-2015 7:45 AM	04-Aug-2015 5:32 PM	04-Aug-2015 5:32 PM	TB
	G32652	NA	LABQC	WQ	LABQC	VBLK7U	G32568	1/1	04-Aug-2015 3:32 PM	04-Aug-2015 3:32 PM	04-Aug-2015 3:32 PM	LB
	G32652	NA	SAIA-CPT15	WG	SAIA-CPT15-105	S-1137.04	G32568	1/10	28-Jul-2015 12:10 PM	04-Aug-2015 7:26 PM	04-Aug-2015 7:26 PM	N
	G32652	NA	SAIA-CPT15	WG	SAIA-CPT15-130	S-1137.05	G32568	1/10	28-Jul-2015 1:15 PM	04-Aug-2015 7:54 PM	04-Aug-2015 7:54 PM	N
	G32652	NA	SAIA-CPT15	WG	SAIA-CPT15-130	S-1137.05	G32568	1/1	28-Jul-2015 1:15 PM	04-Aug-2015 8:23 PM	04-Aug-2015 8:23 PM	N
	G32652	NA	SAIA-CPT15	WG	SAIA-CPT15-75	S-1137.01	G32568	1/20	28-Jul-2015 10:25 AM	04-Aug-2015 6:01 PM	04-Aug-2015 6:01 PM	N
	G32652	NA	SAIA-CPT15	WG	SAIA-CPT15-90	S-1137.02	G32568	1/20	28-Jul-2015 11:00 AM	04-Aug-2015 6:29 PM	04-Aug-2015 6:29 PM	N
	G32652	NA	SAIA-CPT15	WG	SAIA-CPT15-90	S-1137.02	G32568	1/4	28-Jul-2015 11:00 AM	04-Aug-2015 11:28 PM	04-Aug-2015 11:28 PM	N
	G32652	NA	SAIA-CPT15	WG	SAIA-CPT15-91	S-1137.03	G32568	1/25	28-Jul-2015 11:05 AM	04-Aug-2015 6:58 PM	04-Aug-2015 6:58 PM	FD
	G32652	NA	SAIA-CPT15	WG	SAIA-CPT15-91	S-1137.03	G32568	1/5	28-Jul-2015 11:05 AM	05-Aug-2015 12:25 AM	05-Aug-2015 12:25 AM	FD
	G32652	NA	SAIA-CPT20	WG	SAIA-CPT20-45	S-1137.06	G32568	1/1	28-Jul-2015 6:50 AM	04-Aug-2015 4:35 PM	04-Aug-2015 4:35 PM	N
G32672	G32674	NA	LABQC	WQ	LABQC	VBLK7X	G32568	1/1	05-Aug-2015 11:52 AM	05-Aug-2015 11:52 AM	05-Aug-2015 11:52 AM	LB
	G32674	NA	SAIA-CPT15	WG	SAIA-CPT15-105	S-1137.04	G32568	1/1	28-Jul-2015 12:10 PM	05-Aug-2015 1:25 PM	05-Aug-2015 1:25 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9XW3

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
G32672	G32674	NA	SAIA-CPT15	WG	SAIA-CPT15-75	S-1137.01	G32568	1/1	28-Jul-2015 10:25 AM	05-Aug-2015 12:26 PM	05-Aug-2015 12:26 PM	N
G32722	G32728	NA	LABQC	WQ	LABQC	VBLK8F	G32727	1/1	10-Aug-2015 10:23 PM	10-Aug-2015 10:23 PM	10-Aug-2015 10:23 PM	LB
	G32728	NA	SAIA-CPT16	WG	SAIA-CPT16-105	S-1141.05	G32727	1/20	29-Jul-2015 11:40 AM	10-Aug-2015 10:58 PM	10-Aug-2015 10:58 PM	N
	G32728	NA	SAIA-CPT16	WG	SAIA-CPT16-105	S-1141.05	G32727	1/1	29-Jul-2015 11:40 AM	10-Aug-2015 11:26 PM	10-Aug-2015 11:26 PM	N
	G32728	NA	SAIA-CPT17	WG	SAIA-CPT17-75	S-1145.03	G32727	1/10	30-Jul-2015 10:20 AM	11-Aug-2015 12:56 AM	11-Aug-2015 12:56 AM	N
	G32728	NA	SAIA-CPT17	WG	SAIA-CPT17-75	S-1145.03	G32727	1/1	30-Jul-2015 10:20 AM	11-Aug-2015 1:26 AM	11-Aug-2015 1:26 AM	N
	G32728	NA	SAIA-CPT17	WG	SAIA-CPT17-90	S-1145.05	G32727	1/1	30-Jul-2015 11:40 AM	11-Aug-2015 2:30 AM	11-Aug-2015 2:30 AM	N
G32738	G32740	NA	LABQC	WQ	LABQC	VBLK8H	G32727	1/1	11-Aug-2015 10:30 AM	11-Aug-2015 10:30 AM	11-Aug-2015 10:30 AM	LB
	G32740	NA	SAIA-CPT16	WG	SAIA-CPT16-45	S-1145.01	G32727	1/1	30-Jul-2015 6:45 AM	11-Aug-2015 11:38 AM	11-Aug-2015 11:38 AM	N
	G32740	NA	SAIA-CPT17	WG	SAIA-CPT17-60	S-1145.02	G32727	1/1	30-Jul-2015 9:40 AM	11-Aug-2015 12:07 PM	11-Aug-2015 12:07 PM	N
	G32740	NA	SAIA-CPT17	WG	SAIA-CPT17-76	S-1145.04	G32727	1/8	30-Jul-2015 10:25 AM	11-Aug-2015 3:00 PM	11-Aug-2015 3:00 PM	FD
	G32740	NA	SAIA-CPT17	WG	SAIA-CPT17-76	S-1145.04	G32727	1/1	30-Jul-2015 10:25 AM	11-Aug-2015 3:58 PM	11-Aug-2015 3:58 PM	FD
G32783	G32785	NA	LABQC	WQ	LABQC	VBLK8M	G32727	1/1	13-Aug-2015 12:49 PM	13-Aug-2015 12:49 PM	13-Aug-2015 12:49 PM	LB
	G32785	NA	LABQC	WQ	LABQC	S-1137.09	G32727	1/1	13-Aug-2015 5:54 PM	13-Aug-2015 5:54 PM	13-Aug-2015 5:54 PM	LB
	G32785	NA	SAIA-CPT16	WG	SAIA-CPT16-90	S-1141.04MS	G32727	1/1	29-Jul-2015 10:25 AM	13-Aug-2015 3:58 PM	13-Aug-2015 3:58 PM	MS
	G32785	NA	SAIA-CPT16	WG	SAIA-CPT16-90	S-1141.04MSD	G32727	1/1	29-Jul-2015 10:25 AM	13-Aug-2015 4:56 PM	13-Aug-2015 4:56 PM	SD

Field Batch Report

Test Method: BNASIM		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
28071501			FIELDQC	WQ	SAIA-EL01-0715	S-1137.07	7/28/2015 1:45:00 PM	EB
28071501			SAIA-CPT15	WG	SAIA-CPT15-105	S-1137.04	7/28/2015 12:10:00 PM	N
28071501			SAIA-CPT15	WG	SAIA-CPT15-130	S-1137.05	7/28/2015 1:15:00 PM	N
28071501			SAIA-CPT15	WG	SAIA-CPT15-75	S-1137.01	7/28/2015 10:25:00 AM	N
28071501			SAIA-CPT15	WG	SAIA-CPT15-90	S-1137.02	7/28/2015 11:00:00 AM	N
28071501			SAIA-CPT15	WG	SAIA-CPT15-91	S-1137.03	7/28/2015 11:05:00 AM	FD
28071501			SAIA-CPT20	WG	SAIA-CPT20-45	S-1137.06	7/28/2015 6:50:00 AM	N

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
28071501			FIELDQC	WQ	SAIA-EL01-0715	S-1137.07	7/28/2015 1:45:00 PM	EB
28071501			SAIA-CPT15	WG	SAIA-CPT15-105	S-1137.04	7/28/2015 12:10:00 PM	N
28071501			SAIA-CPT15	WG	SAIA-CPT15-130	S-1137.05	7/28/2015 1:15:00 PM	N
28071501			SAIA-CPT15	WG	SAIA-CPT15-75	S-1137.01	7/28/2015 10:25:00 AM	N
28071501			SAIA-CPT15	WG	SAIA-CPT15-90	S-1137.02	7/28/2015 11:00:00 AM	N
28071501			SAIA-CPT15	WG	SAIA-CPT15-91	S-1137.03	7/28/2015 11:05:00 AM	FD
28071501			SAIA-CPT20	WG	SAIA-CPT20-45	S-1137.06	7/28/2015 6:50:00 AM	N

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	29071501		FIELDQC	WQ	SAIA-RL05-0715	S-1141.07	7/29/2015 7:00:00 AM	TB
	29071501		SAIA-CPT15	WG	SAIA-CPT15-45	S-1141.01	7/29/2015 6:30:00 AM	N
	29071501		SAIA-CPT16	WG	SAIA-CPT16-105	S-1141.05	7/29/2015 11:40:00 AM	N
	29071501		SAIA-CPT16	WG	SAIA-CPT16-130	S-1141.06	7/29/2015 12:35:00 PM	N
	29071501		SAIA-CPT16	WG	SAIA-CPT16-60	S-1141.02	7/29/2015 9:10:00 AM	N
	29071501		SAIA-CPT16	WG	SAIA-CPT16-75	S-1141.03	7/29/2015 9:45:00 AM	N

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	29071501		SAIA-CPT16	WG	SAIA-CPT16-90	S-1141.04	7/29/2015 10:25:00 AM	N
	29071501		SAIA-CPT16	WG	SAIA-CPT16-90	S-1141.04MS	7/29/2015 10:25:00 AM	MS
	29071501		SAIA-CPT16	WG	SAIA-CPT16-90	S-1141.04MSD	7/29/2015 10:25:00 AM	SD

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	28071501		FIELDQC	WQ	SAIA-RL04-0715	S-1137.08	7/28/2015 7:45:00 AM	TB
	28071501		SAIA-CPT15	WG	SAIA-CPT15-105	S-1137.04	7/28/2015 12:10:00 PM	N
	28071501		SAIA-CPT15	WG	SAIA-CPT15-130	S-1137.05	7/28/2015 1:15:00 PM	N
	28071501		SAIA-CPT15	WG	SAIA-CPT15-75	S-1137.01	7/28/2015 10:25:00 AM	N
	28071501		SAIA-CPT15	WG	SAIA-CPT15-90	S-1137.02	7/28/2015 11:00:00 AM	N
	28071501		SAIA-CPT15	WG	SAIA-CPT15-91	S-1137.03	7/28/2015 11:05:00 AM	FD
	28071501		SAIA-CPT20	WG	SAIA-CPT20-45	S-1137.06	7/28/2015 6:50:00 AM	N

AUTOMATED DATA REVIEW SUMMARY for Y9XW3

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
BNASIM / SW3510C	Field Duplicate RPD	S-1145.04 (N)	1 / 1.00	1,4-Dioxane (p-Dioxane)	40.0	RPD	None/None	< 25	< 50	D5		RPD	
CVOL / METHOD	Blank	S-1137.09 (LB)	1 / 1.00	Methylene Chloride	0.260	ug/L	U/None	< 0.1	< 0.5	B1		2	0.520
CVOL / METHOD	Blank	VBLK63 (LB)	1 / 1.00	Methylene Chloride	0.240	ug/L	U/None	< 0.1	< 0.5	B1		2	0.480
CVOL / METHOD	MS Recovery	SAIA-CPT16-90 (MS)	1 / 1.00	Trichloroethene (TCE)	64.0	Percent	J/UJ	70 - 130	20 - 140	M			
CVOL / METHOD	MS Recovery	SAIA-CPT16-90 (SD)	1 / 1.00	Trichloroethene (TCE)	64.0	Percent	J/UJ	70 - 130	20 - 140	M			
CVOL / METHOD	Trip Blank	SAIA-RL04-0715 (TB)	1 / 1.00	Acetone	8.20	ug/L	U/None	< 3.1	< 5	K3		2	16.4
CVOL / METHOD	Trip Blank	SAIA-RL05-0715 (TB)	1 / 1.00	Acetone	19.0	ug/L	U/None	< 3.1	< 5	K3	Blank is over 3X RL	2	38.0

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	SAIA-CPT16-60	N	1,4-Dioxane (p-Dioxane)	0.50	0.31 J	0.31 J	ug/L	TR
BNASIM/NONE	WG	SAIA-CPT17-75	N	1,4-Dioxane (p-Dioxane)	0.50	2.1	2.1 J	ug/L	D5
BNASIM/NONE	WG	SAIA-CPT17-76	FD	1,4-Dioxane (p-Dioxane)	0.50	1.4	1.4 J	ug/L	D5
BNASIM/NONE	WG	SAIA-CPT20-45	N	1,4-Dioxane (p-Dioxane)	0.50	0.35 J	0.35 J	ug/L	TR
Test Leach	**Matrix**	**FieldSample ID**	**Type**	**Analyte**	**RL**	**Lab Result**	**Qualified Result**	**Units**	**Reason**
CVOL/NONE	WG	SAIA-CPT15-105	N	1,2-Dichloroethane	0.50	0.40 J	0.40 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT15-130	N	Acetone	7.8	7.8	7.8 U	ug/L	K3
CVOL/NONE	WG	SAIA-CPT15-45	N	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	G1
CVOL/NONE	WG	SAIA-CPT15-45	N	1,2,4-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	G1
CVOL/NONE	WG	SAIA-CPT15-45	N	Acetone	6.2	6.2	6.2 U	ug/L	K3
CVOL/NONE	WG	SAIA-CPT15-90	N	Methylene Chloride	2.0	2.0 J	2.0 U	ug/L	K4
CVOL/NONE	WG	SAIA-CPT15-91	FD	Methylene Chloride	2.5	2.5 J	2.5 U	ug/L	K4
CVOL/NONE	WG	SAIA-CPT15-91	FD	Trichloroethene (TCE)	2.5	2.2 J	2.2 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT16-130	N	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	G1
CVOL/NONE	WG	SAIA-CPT16-130	N	1,2,4-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	G1
CVOL/NONE	WG	SAIA-CPT16-130	N	Acetone	5.5	5.5	5.5 U	ug/L	K3
CVOL/NONE	WG	SAIA-CPT16-130	N	Methylene Chloride	0.50	0.50 JB	0.50 U	ug/L	B1/K4
CVOL/NONE	WG	SAIA-CPT16-130	N	trans-1,2-Dichloroethene	0.50	0.40 J	0.40 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT16-45	N	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	G1
CVOL/NONE	WG	SAIA-CPT16-45	N	1,2,4-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	G1
CVOL/NONE	WG	SAIA-CPT16-45	N	Methylene Chloride	0.50	0.50 U	0.50 U	ug/L	B1/K4
CVOL/NONE	WG	SAIA-CPT16-75	N	1,2,3-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	G1
CVOL/NONE	WG	SAIA-CPT16-75	N	1,2,4-Trichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	G1
CVOL/NONE	WG	SAIA-CPT16-90	N	1,2-Dichloroethane	0.50	0.23 J	0.23 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT16-90	N	Acetone	11.0	11.0	11.0 U	ug/L	K3
CVOL/NONE	WG	SAIA-CPT16-90	N	Methylene Chloride	0.50	0.50 JB	0.50 U	ug/L	B1/K4

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	SAIA-CPT16-60	N	1,4-Dioxane (p-Dioxane)	0.50	0.31 J	0.31 J	ug/L	TR
BNASIM/NONE	WG	SAIA-CPT17-60	N	1,4-Dioxane (p-Dioxane)	0.50	14.0 D	14.0	ug/L	
BNASIM/NONE	WG	SAIA-CPT17-75	N	1,4-Dioxane (p-Dioxane)	0.50	2.1	2.1 J	ug/L	D5
BNASIM/NONE	WG	SAIA-CPT17-76	FD	1,4-Dioxane (p-Dioxane)	0.50	1.4	1.4 J	ug/L	D5
BNASIM/NONE	WG	SAIA-CPT20-45	N	1,4-Dioxane (p-Dioxane)	0.50	0.35 J	0.35 J	ug/L	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-CPT15-105	N	1,2-Dichloroethane	0.50	0.40 J	0.40 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT15-105	N	cis-1,2-Dichloroethylene	0.50	120 D	120	ug/L	
CVOL/NONE	WG	SAIA-CPT15-105	N	trans-1,2-Dichloroethene	0.50	11.0	11.0	ug/L	
CVOL/NONE	WG	SAIA-CPT15-105	N	Trichloroethene (TCE)	0.50	0.87	0.87	ug/L	
CVOL/NONE	WG	SAIA-CPT15-130	N	cis-1,2-Dichloroethylene	0.50	150 D	150	ug/L	
CVOL/NONE	WG	SAIA-CPT15-130	N	trans-1,2-Dichloroethene	0.50	3.4	3.4	ug/L	
CVOL/NONE	WG	SAIA-CPT15-130	N	Trichloroethene (TCE)	0.50	4.1	4.1	ug/L	
CVOL/NONE	WG	SAIA-CPT15-45	N	cis-1,2-Dichloroethylene	0.50	0.65	0.65	ug/L	
CVOL/NONE	WG	SAIA-CPT15-45	N	Methylene Chloride	0.50	0.53 B	0.53	ug/L	
CVOL/NONE	WG	SAIA-CPT15-75	N	cis-1,2-Dichloroethylene	0.50	180 D	180	ug/L	
CVOL/NONE	WG	SAIA-CPT15-75	N	trans-1,2-Dichloroethene	0.50	19.0	19.0	ug/L	
CVOL/NONE	WG	SAIA-CPT15-75	N	Trichloroethene (TCE)	0.50	5.0	5.0	ug/L	
CVOL/NONE	WG	SAIA-CPT15-90	N	cis-1,2-Dichloroethylene	2.0	250 D	250	ug/L	
CVOL/NONE	WG	SAIA-CPT15-90	N	trans-1,2-Dichloroethene	2.0	25.0	25.0	ug/L	
CVOL/NONE	WG	SAIA-CPT15-90	N	Trichloroethene (TCE)	2.0	2.4	2.4	ug/L	
CVOL/NONE	WG	SAIA-CPT15-91	FD	cis-1,2-Dichloroethylene	2.5	270 D	270	ug/L	
CVOL/NONE	WG	SAIA-CPT15-91	FD	trans-1,2-Dichloroethene	2.5	24.0	24.0	ug/L	
CVOL/NONE	WG	SAIA-CPT15-91	FD	Trichloroethene (TCE)	2.5	2.2 J	2.2 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT16-105	N	cis-1,2-Dichloroethylene	0.50	120 D	120	ug/L	
CVOL/NONE	WG	SAIA-CPT16-105	N	trans-1,2-Dichloroethene	0.50	14.0	14.0	ug/L	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-CPT16-105	N	Trichloroethene (TCE)	0.50	0.94	0.94	ug/L	
CVOL/NONE	WG	SAIA-CPT16-130	N	cis-1,2-Dichloroethylene	0.50	6.4	6.4	ug/L	
CVOL/NONE	WG	SAIA-CPT16-130	N	trans-1,2-Dichloroethene	0.50	0.40 J	0.40 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT16-130	N	Trichloroethene (TCE)	0.50	1.2	1.2	ug/L	
CVOL/NONE	WG	SAIA-CPT16-45	N	cis-1,2-Dichloroethylene	0.50	0.56	0.56	ug/L	
CVOL/NONE	WG	SAIA-CPT16-75	N	cis-1,2-Dichloroethylene	0.50	9.8	9.8	ug/L	
CVOL/NONE	WG	SAIA-CPT16-75	N	trans-1,2-Dichloroethene	0.50	2.0	2.0	ug/L	
CVOL/NONE	WG	SAIA-CPT16-75	N	Trichloroethene (TCE)	0.50	1.4	1.4	ug/L	
CVOL/NONE	WG	SAIA-CPT16-90	N	1,2-Dichloroethane	0.50	0.23 J	0.23 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT16-90	N	cis-1,2-Dichloroethylene	0.50	72.0 D	72.0	ug/L	
CVOL/NONE	WG	SAIA-CPT16-90	N	trans-1,2-Dichloroethene	0.50	16.0	16.0	ug/L	
CVOL/NONE	WG	SAIA-CPT16-90	N	Trichloroethene (TCE)	0.50	7.8	7.8	ug/L	
CVOL/NONE	WG	SAIA-CPT17-60	N	1,1-Dichloroethane	0.50	7.7	7.7	ug/L	
CVOL/NONE	WG	SAIA-CPT17-60	N	1,1-Dichloroethene	0.50	4.9	4.9	ug/L	
CVOL/NONE	WG	SAIA-CPT17-60	N	cis-1,2-Dichloroethylene	0.50	6.9	6.9	ug/L	
CVOL/NONE	WG	SAIA-CPT17-60	N	trans-1,2-Dichloroethene	0.50	0.57	0.57	ug/L	
CVOL/NONE	WG	SAIA-CPT17-60	N	Trichloroethene (TCE)	0.50	0.59	0.59	ug/L	
CVOL/NONE	WG	SAIA-CPT17-75	N	1,1-Dichloroethane	0.50	1.3	1.3	ug/L	
CVOL/NONE	WG	SAIA-CPT17-75	N	1,1-Dichloroethene	0.50	3.4	3.4	ug/L	
CVOL/NONE	WG	SAIA-CPT17-75	N	cis-1,2-Dichloroethylene	0.50	37.0 D	37.0	ug/L	
CVOL/NONE	WG	SAIA-CPT17-75	N	trans-1,2-Dichloroethene	0.50	5.1	5.1	ug/L	
CVOL/NONE	WG	SAIA-CPT17-75	N	Trichloroethene (TCE)	0.50	13.0	13.0	ug/L	
CVOL/NONE	WG	SAIA-CPT17-76	FD	1,1-Dichloroethane	0.50	1.4	1.4	ug/L	
CVOL/NONE	WG	SAIA-CPT17-76	FD	1,1-Dichloroethene	0.50	3.6	3.6	ug/L	
CVOL/NONE	WG	SAIA-CPT17-76	FD	cis-1,2-Dichloroethylene	0.50	40.0 D	40.0	ug/L	
CVOL/NONE	WG	SAIA-CPT17-76	FD	trans-1,2-Dichloroethene	0.50	5.6	5.6	ug/L	
CVOL/NONE	WG	SAIA-CPT17-76	FD	Trichloroethene (TCE)	0.50	14.0	14.0	ug/L	

AUTOMATED DATA REVIEW SUMMARY for Y9XW3

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-CPT17-90	N	cis-1,2-Dichloroethylene	0.50	11.0	11.0	ug/L	
CVOL/NONE	WG	SAIA-CPT17-90	N	trans-1,2-Dichloroethene	0.50	1.2	1.2	ug/L	
CVOL/NONE	WG	SAIA-CPT17-90	N	Trichloroethene (TCE)	0.50	2.5	2.5	ug/L	
CVOL/NONE	WQ	SAIA-RL04-0715	TB	Acetone	5.0	8.2	8.2	ug/L	
CVOL/NONE	WQ	SAIA-RL05-0715	TB	Acetone	5.0	19.0	19.0	ug/L	

AUTOMATED DATA REVIEW SUMMARY for Y9XW3

Rejected Results

--No Records Found--

July 2015 CPT GW Sampling
Field Duplicate Report By SDG
SAIA
SAIA QAPP
Field Duplicates for SDG: Y9XW3

Location	Analysis
SAIA-CPT15	BNASIM

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,4-Dioxane (p-Dioxane)	ND	ND	0.500	NA	NA	OK

Location	Analysis
SAIA-CPT15	CVOL

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,1,1-Trichloroethane	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,1,2,2-Tetrachloroethane	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,1,2-Trichloroethane	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,1-Dichloroethane	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,1-Dichloroethene	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,2,3-Trichlorobenzene	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,2,3-Trichloropropane	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,2,4-Trichlorobenzene	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,2-Dibromo-3-chloropropane	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,2-Dibromoethane (EDB)	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,2-Dichlorobenzene	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,2-Dichloroethane	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,2-Dichloropropane	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,3-Dichlorobenzene	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,4-Dichlorobenzene	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	2-Butanone (MEK)	ND	ND	20.0	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	2-Hexanone	ND	ND	20.0	NA	NA	OK

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference

RL Check = If either the primary sample or field duplicate result is less than 1 times the RL then the criteria used to determine if the field duplicate is outside QC limits is +/- RL for Water and +/- 2 times RL for Soil

The RPD criteria used for organic analysis is: 35
The RPD criteria used for non-organic analysis is: 35

July 2015 CPT GW Sampling
Field Duplicate Report By SDG
SAIA
SAIA QAPP
Field Duplicates for SDG: Y9XW3

Location	Analysis
SAIA-CPT15	CVOL

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	4-Methyl-2-pentanone (MIBK)	ND	ND	20.0	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Acetone	ND	ND	20.0	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Benzene	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Bromochloromethane	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Bromodichloromethane	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Bromoform	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Bromomethane	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Carbon Disulfide	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Carbon Tetrachloride	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Chlorobenzene	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Chloroethane	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Chloroform	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Chloromethane	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	cis-1,2-Dichloroethylene	250	270	2.00	7.69	OK	NA
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	cis-1,3-Dichloropropene	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Cyclohexane	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Dibromochloromethane	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Dichlorodifluoromethane	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Ethylbenzene	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Isopropylbenzene (Cumene)	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	m,p-Xylene	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Methyl Acetate	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Methylcyclohexane	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Methylene Chloride	ND	ND	2.00	NA	NA	OK

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference

RL Check = If either the primary sample or field duplicate result is less than 1 times the RL then the criteria used to determine if the field duplicate is outside QC limits is +/- RL for Water and +/- 2 times RL for Soil

The RPD criteria used for organic analysis is: 35
The RPD criteria used for non-organic analysis is: 35

July 2015 CPT GW Sampling
Field Duplicate Report By SDG
SAIA
SAIA QAPP
Field Duplicates for SDG: Y9XW3

Location	Analysis
SAIA-CPT15	CVOL

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	o-Xylene	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Styrene	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	tert-Butyl Methyl Ether (MTBE)	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Tetrachloroethene (PCE)	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Toluene	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	trans-1,2-Dichloroethene	25.0	24.0	2.00	4.08	OK	NA
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	trans-1,3-Dichloropropene	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Trichloroethene (TCE)	2.40	2.20	2.00	8.70	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Trichlorofluoromethane	ND	ND	2.00	NA	NA	OK
SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Vinyl Chloride	ND	ND	2.00	NA	NA	OK

Location	Analysis
SAIA-CPT17	BNASIM

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,4-Dioxane (p-Dioxane)	2.10	1.40	0.500	40.0	Out	NA

Location	Analysis
SAIA-CPT17	CVOL

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,1,1-Trichloroethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,1,2,2-Tetrachloroethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,1,2-Trichloroethane	ND	ND	0.500	NA	NA	OK

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference

RL Check = If either the primary sample or field duplicate result is less than 1 times the RL then the criteria used to determine if the field duplicate is outside QC limits is +/- RL for Water and +/- 2 times RL for Soil

The RPD criteria used for organic analysis is: 35
The RPD criteria used for non-organic analysis is: 35

July 2015 CPT GW Sampling
Field Duplicate Report By SDG
SAIA
SAIA QAPP
Field Duplicates for SDG: Y9XW3

Location	Analysis
SAIA-CPT17	CVOL

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,1-Dichloroethane	1.30	1.40	0.500	7.41	OK	NA
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,1-Dichloroethene	3.40	3.60	0.500	5.71	OK	NA
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,2,3-Trichlorobenzene	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,2,3-Trichloropropane	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,2,4-Trichlorobenzene	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,2-Dibromo-3-chloropropane	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,2-Dibromoethane (EDB)	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,2-Dichlorobenzene	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,2-Dichloroethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,2-Dichloropropane	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,3-Dichlorobenzene	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,4-Dichlorobenzene	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	2-Butanone (MEK)	ND	ND	5.00	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	2-Hexanone	ND	ND	5.00	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Acetone	ND	ND	5.00	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Benzene	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Bromochloromethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Bromodichloromethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Bromoform	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Bromomethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Carbon Disulfide	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Carbon Tetrachloride	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Chlorobenzene	ND	ND	0.500	NA	NA	OK

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RL Check = If either the primary sample or field duplicate result is less than 1 times the RL then the criteria used to determine if the field duplicate is outside QC limits is +/- RL for Water and +/- 2 times RL for Soil

The RPD criteria used for organic analysis is: 35
The RPD criteria used for non-organic analysis is: 35

July 2015 CPT GW Sampling
Field Duplicate Report By SDG
SAIA
SAIA QAPP
Field Duplicates for SDG: Y9XW3

Location	Analysis
SAIA-CPT17	CVOL

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Chloroethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Chloroform	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Chloromethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	cis-1,2-Dichloroethylene	37.0	40.0	0.500	7.79	OK	NA
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	cis-1,3-Dichloropropene	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Cyclohexane	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Dibromochloromethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Dichlorodifluoromethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Ethylbenzene	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Isopropylbenzene (Cumene)	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	m,p-Xylene	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Methyl Acetate	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Methylcyclohexane	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Methylene Chloride	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	o-Xylene	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Styrene	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Tetrachloroethene (PCE)	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Toluene	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	trans-1,2-Dichloroethene	5.10	5.60	0.500	9.35	OK	NA
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	trans-1,3-Dichloropropene	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Trichloroethene (TCE)	13.0	14.0	0.500	7.41	OK	NA
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Trichlorofluoromethane	ND	ND	0.500	NA	NA	OK
SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Vinyl Chloride	ND	ND	0.500	NA	NA	OK

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RPD = Relative Percent Difference

RL Check = If either the primary sample or field duplicate result is less than 1 times the RL then the criteria used to determine if the field duplicate is outside QC limits is +/- RL for Water and +/- 2 times RL for Soil

The RPD criteria used for organic analysis is: 35
The RPD criteria used for non-organic analysis is: 35

AUTOMATED DATA REVIEW SUMMARY for Y9XX9

Facility: Southern Avenue Industrial Area

Guidance Document:

Contract Laboratory: KAP TECHNOLOGIES INC., THE WOODLANDS, TX

Field Contractor:

Data Review Contractor: Gilbane

SDG: Y9XX9, Certified - 9/11/2015 by wtse

QC Level: S2BVEM (Tier 1B)

Project Manager: Peter Phillips

Data Reviewer: Kristen Carlyon Peyton

Data Reviewer Title: Senior Chemist

Date of Review Report: September 11, 2015

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG Y9XX9

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
BNASIM/NONE	8	1
CVOL/NONE	8	3

AUTOMATED DATA REVIEW SUMMARY for Y9XX9

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by KAP TECHNOLOGIES INC., THE WOODLANDS, TX and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Equipment Blank
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Field Blank
- Field Duplicate RPD
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- Negative Blank

AUTOMATED DATA REVIEW SUMMARY for Y9XX9

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 0 results (0.00%) out of the 581 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

EXES validation reviewed and qualifiers entered. See EXES data review reports for details.

Chain-of-custody and sample receipt documentation reviewed for sample receipt condition and custody issues. None found.

Field blanks (equipment blanks and trip blanks review). See QC outlier and qualified results sections below for details of detections and resulting qualifications.

11-Sep-2015

Released by Kristen Carlyon Peyton, Senior Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

Batch Report

Test Method: BNASIM; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
C21939	C21962	NA	FIELDQC	WQ	SAIA-EL02-0715	S-1151.07	C21789	1/1	31-Jul-2015 12:15 PM	04-Aug-2015 1:26 PM	12-Aug-2015 5:46 PM	EB
	C21962	NA	LABQC	WQ	LABQC	SBLK77	C21789	1/1	04-Aug-2015 1:26 PM	04-Aug-2015 1:26 PM	12-Aug-2015 3:24 PM	LB
	C21962	NA	SAIA-CPT17	WG	SAIA-CPT17-105	S-1146.01	C21789	1/1	30-Jul-2015 12:50 PM	04-Aug-2015 1:26 PM	12-Aug-2015 3:50 PM	N
	C21962	NA	SAIA-CPT17	WG	SAIA-CPT17-130	S-1146.02	C21789	1/1	30-Jul-2015 1:30 PM	04-Aug-2015 1:26 PM	12-Aug-2015 4:03 PM	N
	C21962	NA	SAIA-CPT17	WG	SAIA-CPT17-45	S-1151.01	C21789	1/1	31-Jul-2015 6:30 AM	04-Aug-2015 1:26 PM	12-Aug-2015 4:16 PM	N
	C21962	NA	SAIA-CPT18	WG	SAIA-CPT18-105	S-1151.05	C21789	1/1	31-Jul-2015 10:50 AM	04-Aug-2015 1:26 PM	12-Aug-2015 5:07 PM	N
	C21962	NA	SAIA-CPT18	WG	SAIA-CPT18-130	S-1151.06	C21789	1/1	31-Jul-2015 12:00 PM	04-Aug-2015 1:26 PM	12-Aug-2015 5:33 PM	N
	C21962	NA	SAIA-CPT18	WG	SAIA-CPT18-45	S-1151.02	C21789	1/1	31-Jul-2015 9:05 AM	04-Aug-2015 1:26 PM	12-Aug-2015 4:29 PM	N
	C21962	NA	SAIA-CPT18	WG	SAIA-CPT18-60	S-1151.03	C21789	1/1	31-Jul-2015 9:40 AM	04-Aug-2015 1:26 PM	12-Aug-2015 4:41 PM	N
	C21962	NA	SAIA-CPT18	WG	SAIA-CPT18-75	S-1151.04	C21789	1/1	31-Jul-2015 10:05 AM	04-Aug-2015 1:26 PM	12-Aug-2015 4:54 PM	N
	C21963	NA	LABQC	WQ	LABQC	SLCS77	C21789	1/1	04-Aug-2015 1:26 PM	04-Aug-2015 1:26 PM	12-Aug-2015 3:37 PM	BS

AUTOMATED DATA REVIEW SUMMARY for Y9XX9

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
G32738	G32740	NA	FIELDQC	WQ	SAIA-RL06-0715	S-1146.03	G32727	1/1	30-Jul-2015 10:00 AM	11-Aug-2015 12:35 PM	11-Aug-2015 12:35 PM	TB
	G32740	NA	LABQC	WQ	LABQC	VBLK8H	G32727	1/1	11-Aug-2015 10:30 AM	11-Aug-2015 10:30 AM	11-Aug-2015 10:30 AM	LB
	G32740	NA	SAIA-CPT17	WG	SAIA-CPT17-105	S-1146.01	G32727	1/10	30-Jul-2015 12:50 PM	11-Aug-2015 3:29 PM	11-Aug-2015 3:29 PM	N
	G32740	NA	SAIA-CPT17	WG	SAIA-CPT17-105	S-1146.01	G32727	1/1	30-Jul-2015 12:50 PM	11-Aug-2015 4:55 PM	11-Aug-2015 4:55 PM	N
	G32740	NA	SAIA-CPT17	WG	SAIA-CPT17-130	S-1146.02	G32727	1/1	30-Jul-2015 1:30 PM	11-Aug-2015 2:03 PM	11-Aug-2015 2:03 PM	N
G32758	G32761	NA	FIELDQC	WQ	SAIA-EL02-0715	S-1151.07	G32727	1/1	31-Jul-2015 12:15 PM	12-Aug-2015 8:09 PM	12-Aug-2015 8:09 PM	EB
	G32761	NA	FIELDQC	WQ	SAIA-RL07-0715	S-1151.08	G32727	1/1	31-Jul-2015 10:20 AM	12-Aug-2015 7:11 PM	12-Aug-2015 7:11 PM	TB
	G32761	NA	LABQC	WQ	LABQC	VBLK8K	G32727	1/1	12-Aug-2015 12:53 PM	12-Aug-2015 12:53 PM	12-Aug-2015 12:53 PM	LB
	G32761	NA	SAIA-CPT17	WG	SAIA-CPT17-45	S-1151.01	G32727	1/1	31-Jul-2015 6:30 AM	12-Aug-2015 5:45 PM	12-Aug-2015 5:45 PM	N
	G32761	NA	SAIA-CPT18	WG	SAIA-CPT18-105	S-1151.05	G32727	1/1	31-Jul-2015 10:50 AM	12-Aug-2015 8:37 PM	12-Aug-2015 8:37 PM	N
	G32761	NA	SAIA-CPT18	WG	SAIA-CPT18-130	S-1151.06	G32727	1/1	31-Jul-2015 12:00 PM	12-Aug-2015 6:43 PM	12-Aug-2015 6:43 PM	N
	G32761	NA	SAIA-CPT18	WG	SAIA-CPT18-45	S-1151.02	G32727	1/1	31-Jul-2015 9:05 AM	12-Aug-2015 6:13 PM	12-Aug-2015 6:13 PM	N
	G32761	NA	SAIA-CPT18	WG	SAIA-CPT18-60	S-1151.03	G32727	1/1	31-Jul-2015 9:40 AM	12-Aug-2015 5:16 PM	12-Aug-2015 5:16 PM	N
	G32761	NA	SAIA-CPT18	WG	SAIA-CPT18-75	S-1151.04MS	G32727	1/1	31-Jul-2015 10:05 AM	12-Aug-2015 9:48 PM	12-Aug-2015 9:48 PM	MS
	G32761	NA	SAIA-CPT18	WG	SAIA-CPT18-75	S-1151.04	G32727	1/1	31-Jul-2015 10:05 AM	12-Aug-2015 7:40 PM	12-Aug-2015 7:40 PM	N
	G32761	NA	SAIA-CPT18	WG	SAIA-CPT18-75	S-1151.04MSD	G32727	1/1	31-Jul-2015 10:05 AM	12-Aug-2015 10:16 PM	12-Aug-2015 10:16 PM	SD
G32783	G32785	NA	LABQC	WQ	LABQC	VBLK8M	G32727	1/1	13-Aug-2015 12:49 PM	13-Aug-2015 12:49 PM	13-Aug-2015 12:49 PM	LB
	G32785	NA	LABQC	WQ	LABQC	S-1146.04	G32727	1/1	13-Aug-2015 1:23 PM	13-Aug-2015 1:23 PM	13-Aug-2015 1:23 PM	LB

Field Batch Report

Test Method: BNASIM		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
31071501			FIELDQC	WQ	SAIA-EL02-0715	S-1151.07	7/31/2015 12:15:00 PM	EB
31071501			SAIA-CPT17	WG	SAIA-CPT17-45	S-1151.01	7/31/2015 6:30:00 AM	N
31071501			SAIA-CPT18	WG	SAIA-CPT18-105	S-1151.05	7/31/2015 10:50:00 AM	N
31071501			SAIA-CPT18	WG	SAIA-CPT18-130	S-1151.06	7/31/2015 12:00:00 PM	N
31071501			SAIA-CPT18	WG	SAIA-CPT18-45	S-1151.02	7/31/2015 9:05:00 AM	N
31071501			SAIA-CPT18	WG	SAIA-CPT18-60	S-1151.03	7/31/2015 9:40:00 AM	N
31071501			SAIA-CPT18	WG	SAIA-CPT18-75	S-1151.04	7/31/2015 10:05:00 AM	N

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
31071501			FIELDQC	WQ	SAIA-EL02-0715	S-1151.07	7/31/2015 12:15:00 PM	EB
31071501			SAIA-CPT17	WG	SAIA-CPT17-45	S-1151.01	7/31/2015 6:30:00 AM	N
31071501			SAIA-CPT18	WG	SAIA-CPT18-105	S-1151.05	7/31/2015 10:50:00 AM	N
31071501			SAIA-CPT18	WG	SAIA-CPT18-130	S-1151.06	7/31/2015 12:00:00 PM	N
31071501			SAIA-CPT18	WG	SAIA-CPT18-45	S-1151.02	7/31/2015 9:05:00 AM	N
31071501			SAIA-CPT18	WG	SAIA-CPT18-60	S-1151.03	7/31/2015 9:40:00 AM	N
31071501			SAIA-CPT18	WG	SAIA-CPT18-75	S-1151.04	7/31/2015 10:05:00 AM	N
31071501			SAIA-CPT18	WG	SAIA-CPT18-75	S-1151.04MS	7/31/2015 10:05:00 AM	MS
31071501			SAIA-CPT18	WG	SAIA-CPT18-75	S-1151.04MSD	7/31/2015 10:05:00 AM	SD

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	31071501		FIELDQC	WQ	SAIA-RL07-0715	S-1151.08	7/31/2015 10:20:00 AM	TB
	31071501		SAIA-CPT17	WG	SAIA-CPT17-45	S-1151.01	7/31/2015 6:30:00 AM	N
	31071501		SAIA-CPT18	WG	SAIA-CPT18-105	S-1151.05	7/31/2015 10:50:00 AM	N
	31071501		SAIA-CPT18	WG	SAIA-CPT18-130	S-1151.06	7/31/2015 12:00:00 PM	N

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	31071501		SAIA-CPT18	WG	SAIA-CPT18-45	S-1151.02	7/31/2015 9:05:00 AM	N
	31071501		SAIA-CPT18	WG	SAIA-CPT18-60	S-1151.03	7/31/2015 9:40:00 AM	N
	31071501		SAIA-CPT18	WG	SAIA-CPT18-75	S-1151.04	7/31/2015 10:05:00 AM	N
	31071501		SAIA-CPT18	WG	SAIA-CPT18-75	S-1151.04MS	7/31/2015 10:05:00 AM	MS
	31071501		SAIA-CPT18	WG	SAIA-CPT18-75	S-1151.04MSD	7/31/2015 10:05:00 AM	SD

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	30071501		FIELDQC	WQ	SAIA-RL06-0715	S-1146.03	7/30/2015 10:00:00 AM	TB
	30071501		SAIA-CPT17	WG	SAIA-CPT17-105	S-1146.01	7/30/2015 12:50:00 PM	N
	30071501		SAIA-CPT17	WG	SAIA-CPT17-130	S-1146.02	7/30/2015 1:30:00 PM	N

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CVOL / METHOD	Blank	VBLK8K (LB)	1 / 1.00	Methylene Chloride	0.280	ug/L	U/None	< 0.1	< 0.5	B1		2	0.560
CVOL / METHOD	MS Recovery	SAIA-CPT18-75 (MS)	1 / 1.00	1,1-Dichloroethene	68.0	Percent	J/UJ	70 - 130	20 - 140	M			
CVOL / METHOD	MS Recovery	SAIA-CPT18-75 (MS)	1 / 1.00	Trichloroethene (TCE)	65.8	Percent	J/UJ	70 - 130	20 - 140	M			
CVOL / METHOD	Trip Blank	SAIA-RL07-0715 (TB)	1 / 1.00	Acetone	11.0	ug/L	U/None	< 3.1	< 5	K3		2	22.0

Qualification for MS/MSD exceedance removed. SAP criteria for VOC MS/MSD criteria is 60-145. In addition, SOM02.2 criteria met. No qualification warranted. KC 9/11/2015

AUTOMATED DATA REVIEW SUMMARY for Y9XX9

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-CPT17-105	N	1,2-Dichloroethane	0.50	0.30 J	0.30 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT17-130	N	Bromoform	0.50	0.36 J	0.36 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT17-130	N	Dibromochloromethane	0.50	0.36 J	0.36 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT17-45	N	trans-1,2-Dichloroethene	0.50	0.39 J	0.39 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT17-45	N	Trichloroethene (TCE)	0.50	0.46 J	0.46 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT18-45	N	Trichloroethene (TCE)	0.50	0.27 J	0.27 J	ug/L	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	SAIA-CPT17-45	N	1,4-Dioxane (p-Dioxane)	0.50	0.68	0.68	ug/L	
BNASIM/NONE	WG	SAIA-CPT18-130	N	1,4-Dioxane (p-Dioxane)	0.50	1.1	1.1	ug/L	
BNASIM/NONE	WG	SAIA-CPT18-45	N	1,4-Dioxane (p-Dioxane)	0.50	0.51	0.51	ug/L	
BNASIM/NONE	WG	SAIA-CPT18-75	N	1,4-Dioxane (p-Dioxane)	0.50	0.60	0.60	ug/L	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-CPT17-105	N	Acetone	5.0	7.6	7.6	ug/L	
CVOL/NONE	WG	SAIA-CPT17-105	N	1,2-Dichloroethane	0.50	0.30 J	0.30 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT17-105	N	cis-1,2-Dichloroethylene	0.50	29.0 D	29.0	ug/L	
CVOL/NONE	WG	SAIA-CPT17-105	N	trans-1,2-Dichloroethene	0.50	4.7	4.7	ug/L	
CVOL/NONE	WG	SAIA-CPT17-105	N	Trichloroethene (TCE)	0.50	2.0	2.0	ug/L	
CVOL/NONE	WG	SAIA-CPT17-130	N	Dibromochloromethane	0.50	0.36 J	0.36 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT17-130	N	Bromoform	0.50	0.36 J	0.36 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT17-45	N	1,1-Dichloroethane	0.50	3.0	3.0	ug/L	
CVOL/NONE	WG	SAIA-CPT17-45	N	1,1-Dichloroethene	0.50	3.5	3.5	ug/L	
CVOL/NONE	WG	SAIA-CPT17-45	N	cis-1,2-Dichloroethylene	0.50	2.0	2.0	ug/L	
CVOL/NONE	WG	SAIA-CPT17-45	N	trans-1,2-Dichloroethene	0.50	0.39 J	0.39 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT17-45	N	Trichloroethene (TCE)	0.50	0.46 J	0.46 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT18-105	N	cis-1,2-Dichloroethylene	0.50	11.0	11.0	ug/L	
CVOL/NONE	WG	SAIA-CPT18-105	N	trans-1,2-Dichloroethene	0.50	1.4	1.4	ug/L	
CVOL/NONE	WG	SAIA-CPT18-105	N	Trichloroethene (TCE)	0.50	0.64	0.64	ug/L	
CVOL/NONE	WG	SAIA-CPT18-130	N	cis-1,2-Dichloroethylene	0.50	1.1	1.1	ug/L	
CVOL/NONE	WG	SAIA-CPT18-130	N	Trichloroethene (TCE)	0.50	0.53	0.53	ug/L	
CVOL/NONE	WG	SAIA-CPT18-45	N	Trichloroethene (TCE)	0.50	0.27 J	0.27 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT18-60	N	cis-1,2-Dichloroethylene	0.50	1.5	1.5	ug/L	
CVOL/NONE	WG	SAIA-CPT18-60	N	Trichloroethene (TCE)	0.50	0.97	0.97	ug/L	
CVOL/NONE	WG	SAIA-CPT18-75	N	cis-1,2-Dichloroethylene	0.50	8.0	8.0	ug/L	

AUTOMATED DATA REVIEW SUMMARY for Y9XX9

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-CPT18-75	N	trans-1,2-Dichloroethene	0.50	0.61	0.61	ug/L	
CVOL/NONE	WG	SAIA-CPT18-75	N	Trichloroethene (TCE)	0.50	0.61	0.61	ug/L	
CVOL/NONE	WQ	SAIA-RL07-0715	TB	Acetone	5.0	11.0	11.0	ug/L	

AUTOMATED DATA REVIEW SUMMARY for Y9XX9

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for YA753

Facility: Southern Avenue Industrial Area

Groundwater Monitoring Event, July 2016

Guidance Document:

Contract Laboratory: KAP TECHNOLOGIES INC., THE WOODLANDS, TX

Field Contractor:

Data Review Contractor: Gilbane

SDG: YA753, Certified - 8/19/2016 by wtse

QC Level: Tier 1B (S2BVEM)

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title:

Date of Review Report: August 24, 2016

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG YA753

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
BNASIM/NONE	15	2
CVOL/NONE	15	5

AUTOMATED DATA REVIEW SUMMARY for YA753

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by KAP TECHNOLOGIES INC., THE WOODLANDS, TX and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate
- LCS Recovery
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- MS Recovery
- MS RPD
- Negative Blank

AUTOMATED DATA REVIEW SUMMARY for YA753

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 6 results (0.57%) out of the 1057 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked KAP Lab case narrative, EXES data review report summary, and COC as received.

Sample YA7A0 logged incorrectly as YA780; corrected in eDMS. No calibration anomalies were noted.

Data qualifiers were added for surrogate recoveries (S) outside QC limits. All method blank (B1) issues were resolved.

No data were rejected.

24-Aug-2016

Released by Tom Beer,

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	The analyte was found in an associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field duplicate precision
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for YA753

Batch Report

Test Method: BNASIM; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
C23316	C23318	NA	LABQC	WQ	LABQC	SBLK05	C23310	1/1	17-Jul-2016 12:40 PM	17-Jul-2016 12:40 PM	04-Aug-2016 12:17 PM	LB
	C23318	NA	MW32	WG	MW132-0716	S-1622.05	C23310	1/1	13-Jul-2016 9:16 AM	17-Jul-2016 12:40 PM	04-Aug-2016 4:32 PM	FD
	C23318	NA	MW32	WG	MW32-0716	S-1622.04	C23310	1/1	13-Jul-2016 9:01 AM	17-Jul-2016 12:40 PM	04-Aug-2016 4:16 PM	N
	C23318	NA	MW34	WG	MW34-0716	S-1614.01	C23310	1/1	12-Jul-2016 12:33 PM	17-Jul-2016 12:40 PM	04-Aug-2016 2:11 PM	N
	C23318	NA	MW35	WG	MW35-0716	S-1614.02	C23310	1/1	12-Jul-2016 1:38 PM	17-Jul-2016 12:40 PM	04-Aug-2016 2:27 PM	N
	C23318	NA	MW42	WG	MW42-0716	S-1614.03	C23310	1/1	12-Jul-2016 9:23 AM	17-Jul-2016 12:40 PM	04-Aug-2016 2:42 PM	N
	C23318	NA	MW43	WG	MW43-0716	S-1614.04	C23310	1/1	12-Jul-2016 10:33 AM	17-Jul-2016 12:40 PM	04-Aug-2016 5:35 PM	N
	C23318	NA	MW44	WG	MW44-0716	S-1614.05	C23310	1/1	12-Jul-2016 11:23 AM	17-Jul-2016 12:40 PM	04-Aug-2016 3:14 PM	N
	C23318	NA	SAIA-MW1A	WG	SAIA-MW1A-0716	S-1629.01	C23310	1/1	14-Jul-2016 9:31 AM	17-Jul-2016 12:40 PM	04-Aug-2016 12:33 PM	N
	C23318	NA	SAIA-MW1B	WG	SAIA-MW1B-0716	S-1629.02	C23310	1/1	14-Jul-2016 10:50 AM	17-Jul-2016 12:40 PM	04-Aug-2016 5:03 PM	N
	C23318	NA	SAIA-MW1B	WG	SAIA-MW91B-0716	S-1629.03	C23310	1/1	14-Jul-2016 11:05 AM	17-Jul-2016 12:40 PM	04-Aug-2016 5:19 PM	FD
	C23318	NA	SAIA-MW2A	WG	SAIA-MW2A-0716	S-1611.01	C23310	1/1	11-Jul-2016 9:48 AM	17-Jul-2016 12:40 PM	04-Aug-2016 12:48 PM	N
	C23318	NA	SAIA-MW2B	WG	SAIA-MW2B-0716	S-1611.02	C23310	1/1	11-Jul-2016 10:46 AM	17-Jul-2016 12:40 PM	04-Aug-2016 1:04 PM	N
	C23318	NA	SAIA-MW2C	WG	SAIA-MW2C-0716	S-1611.03	C23310	1/1	11-Jul-2016 11:34 AM	17-Jul-2016 12:40 PM	04-Aug-2016 1:20 PM	N
	C23318	NA	SAIA-MW3A	WG	SAIA-MW3A-0716	S-1622.01	C23310	1/1	13-Jul-2016 10:45 AM	17-Jul-2016 12:40 PM	04-Aug-2016 3:29 PM	N
	C23318	NA	SAIA-MW3B	WG	SAIA-MW3B-0716	S-1622.02	C23310	1/1	13-Jul-2016 11:56 AM	17-Jul-2016 12:40 PM	04-Aug-2016 5:50 PM	N
	C23318	NA	SAIA-MW3C	WG	SAIA-MW3C-0716	S-1622.03	C23310	1/1	13-Jul-2016 1:30 PM	17-Jul-2016 12:40 PM	04-Aug-2016 4:01 PM	N
	C23318	NA	SAIA-MW7	WG	SAIA-MW7-0716	S-1611.04	C23310	1/1	11-Jul-2016 1:19 PM	17-Jul-2016 12:40 PM	04-Aug-2016 1:55 PM	N
	C23342	NA	LABQC	WQ	LABQC	SLCS05	C23310	1/1	17-Jul-2016 12:40 PM	17-Jul-2016 12:40 PM	04-Aug-2016 6:52 PM	BS
C23344	C23318	NA	MW35	WG	MW35-0716	S-1614.02	C23310	1/10	12-Jul-2016 1:38 PM	17-Jul-2016 12:40 PM	05-Aug-2016 11:33 AM	N
	C23318	NA	MW42	WG	MW42-0716	S-1614.03	C23310	1/10	12-Jul-2016 9:23 AM	17-Jul-2016 12:40 PM	05-Aug-2016 11:49 AM	N

AUTOMATED DATA REVIEW SUMMARY for YA753

Batch Report

Test Method: BNASIM; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
C23344	C23318	NA	MW44	WG	MW44-0716	S-1614.05	C23310	1/10	12-Jul-2016 11:23 AM	17-Jul-2016 12:40 PM	05-Aug-2016 12:04 PM	N
	C23318	NA	SAIA-MW2A	WG	SAIA-MW2A-0716	S-1611.01	C23310	1/10	11-Jul-2016 9:48 AM	17-Jul-2016 12:40 PM	05-Aug-2016 12:19 PM	N
	C23318	NA	SAIA-MW2C	WG	SAIA-MW2C-0716	S-1611.03	C23310	1/10	11-Jul-2016 11:34 AM	17-Jul-2016 12:40 PM	05-Aug-2016 12:35 PM	N
	C23318	NA	SAIA-MW3C	WG	SAIA-MW3C-0716	S-1622.03	C23310	1/10	13-Jul-2016 1:30 PM	17-Jul-2016 12:40 PM	05-Aug-2016 12:50 PM	N

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B04708	B04710	NA	LABQC	WQ	LABQC	VBLK13	B04671	1/1	14-Jul-2016 3:28 PM	14-Jul-2016 3:28 PM	14-Jul-2016 3:28 PM	LB
	B04710	NA	SAIA-MW2B	WG	SAIA-MW2B-0716	S-1611.02	B04671	1/1	11-Jul-2016 10:46 AM	14-Jul-2016 7:40 PM	14-Jul-2016 7:40 PM	N
	B04710	NA	SAIA-MW2C	WG	SAIA-MW2C-0716	S-1611.03	B04671	1/1	11-Jul-2016 11:34 AM	14-Jul-2016 8:34 PM	14-Jul-2016 8:34 PM	N
B04724	B04727	NA	FIELDQC	WQ	SAIA-RL01-0716	S-1611.05	B04671	1/1	11-Jul-2016 8:00 AM	15-Jul-2016 2:04 PM	15-Jul-2016 2:04 PM	TB
	B04727	NA	LABQC	WQ	LABQC	VBLK15	B04671	1/1	15-Jul-2016 11:10 AM	15-Jul-2016 11:10 AM	15-Jul-2016 11:10 AM	LB
	B04727	NA	SAIA-MW2A	WG	SAIA-MW2A-0716	S-1611.01	B04671	1/5	11-Jul-2016 9:48 AM	15-Jul-2016 12:37 PM	15-Jul-2016 12:37 PM	N
	B04727	NA	SAIA-MW2A	WG	SAIA-MW2A-0716	S-1611.01	B04671	1/80	11-Jul-2016 9:48 AM	15-Jul-2016 2:32 PM	15-Jul-2016 2:32 PM	N
	B04727	NA	SAIA-MW2C	WG	SAIA-MW2C-0716	S-1611.03	B04671	1/20	11-Jul-2016 11:34 AM	15-Jul-2016 3:01 PM	15-Jul-2016 3:01 PM	N
	B04727	NA	SAIA-MW7	WG	SAIA-MW7-0716	S-1611.04	B04671	1/1	11-Jul-2016 1:19 PM	15-Jul-2016 11:38 AM	15-Jul-2016 11:38 AM	N
	B04727	NA	SAIA-MW7	WG	SAIA-MW7-0716	S-1611.04	B04671	1/10	11-Jul-2016 1:19 PM	15-Jul-2016 3:29 PM	15-Jul-2016 3:29 PM	N
B04740	B04743	NA	LABQC	WQ	LABQC	VBLK16	B04671	1/1	16-Jul-2016 12:16 PM	16-Jul-2016 12:16 PM	16-Jul-2016 12:16 PM	LB
	B04743	NA	MW34	WG	MW34-0716	S-1614.01	B04671	1/1	12-Jul-2016 12:33 PM	16-Jul-2016 6:38 PM	16-Jul-2016 6:38 PM	N
	B04743	NA	MW35	WG	MW35-0716	S-1614.02	B04671	1/1	12-Jul-2016 1:38 PM	16-Jul-2016 7:32 PM	16-Jul-2016 7:32 PM	N
B04762	B04765	NA	LABQC	WQ	LABQC	VBLK18	B04671	1/1	17-Jul-2016 1:14 PM	17-Jul-2016 1:14 PM	17-Jul-2016 1:14 PM	LB
	B04765	NA	MW42	WG	MW42-0716	S-1614.03	B04671	1/5	12-Jul-2016 9:23 AM	17-Jul-2016 8:34 PM	17-Jul-2016 8:34 PM	N

AUTOMATED DATA REVIEW SUMMARY for YA753

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B04788	B04791	NA	FIELDQC	WQ	SAIA-RL02-0716	S-1614.06	B04785	1/1	12-Jul-2016 8:01 AM	19-Jul-2016 12:41 PM	19-Jul-2016 12:41 PM	TB
	B04791	NA	FIELDQC	WQ	SAIA-RL03-0716	S-1622.06	B04785	1/1	13-Jul-2016 8:02 AM	19-Jul-2016 5:23 PM	19-Jul-2016 5:23 PM	TB
	B04791	NA	LABQC	WQ	LABQC	VBLK21	B04785	1/1	19-Jul-2016 12:13 PM	19-Jul-2016 12:13 PM	19-Jul-2016 12:13 PM	LB
	B04791	NA	MW32	WG	MW132-0716	S-1622.05	B04785	1/1	13-Jul-2016 9:16 AM	19-Jul-2016 6:46 PM	19-Jul-2016 6:46 PM	FD
	B04791	NA	MW32	WG	MW32-0716	S-1622.04	B04785	1/1	13-Jul-2016 9:01 AM	19-Jul-2016 6:18 PM	19-Jul-2016 6:18 PM	N
	B04791	NA	MW34	WG	MW34-0716	S-1614.01	B04785	1/20	12-Jul-2016 12:33 PM	19-Jul-2016 1:11 PM	19-Jul-2016 1:11 PM	N
	B04791	NA	MW35	WG	MW35-0716	S-1614.02	B04785	1/50	12-Jul-2016 1:38 PM	19-Jul-2016 1:39 PM	19-Jul-2016 1:39 PM	N
	B04791	NA	MW42	WG	MW42-0716	S-1614.03	B04785	1/100	12-Jul-2016 9:23 AM	19-Jul-2016 2:06 PM	19-Jul-2016 2:06 PM	N
	B04791	NA	MW43	WG	MW43-0716	S-1614.04	B04785	1/10	12-Jul-2016 10:33 AM	19-Jul-2016 2:33 PM	19-Jul-2016 2:33 PM	N
	B04791	NA	MW43	WG	MW43-0716	S-1614.04	B04785	1/1	12-Jul-2016 10:33 AM	19-Jul-2016 3:27 PM	19-Jul-2016 3:27 PM	N
	B04791	NA	MW44	WG	MW44-0716	S-1614.05	B04785	1/1	12-Jul-2016 11:23 AM	19-Jul-2016 4:26 PM	19-Jul-2016 4:26 PM	N
	B04791	NA	SAIA-MW1B	WG	SAIA-MW1B-0716	S-1629.02	B04785	1/1	14-Jul-2016 10:50 AM	19-Jul-2016 7:40 PM	19-Jul-2016 7:40 PM	N
	B04791	NA	SAIA-MW1B	WG	SAIA-MW91B-0716	S-1629.03	B04785	1/1	14-Jul-2016 11:05 AM	19-Jul-2016 7:13 PM	19-Jul-2016 7:13 PM	FD
	B04791	NA	SAIA-MW3A	WG	SAIA-MW3A-0716	S-1622.01	B04785	1/1	13-Jul-2016 10:45 AM	19-Jul-2016 5:51 PM	19-Jul-2016 5:51 PM	N
	B04791	NA	SAIA-MW3B	WG	SAIA-MW3B-0716	S-1622.02	B04785	1/50	13-Jul-2016 11:56 AM	19-Jul-2016 9:04 PM	19-Jul-2016 9:04 PM	N
	B04791	NA	SAIA-MW3C	WG	SAIA-MW3C-0716	S-1622.03	B04785	1/1	13-Jul-2016 1:30 PM	19-Jul-2016 8:08 PM	19-Jul-2016 8:08 PM	N
B04833	B04836	NA	LABQC	WQ	LABQC	VBLK25	B04785	1/1	21-Jul-2016 10:54 AM	21-Jul-2016 10:54 AM	21-Jul-2016 10:54 AM	LB
	B04836	NA	SAIA-MW1A	WG	SAIA-MW1A-0716	S-1629.01	B04785	1/1000	14-Jul-2016 9:31 AM	21-Jul-2016 7:03 PM	21-Jul-2016 7:03 PM	N
	B04836	NA	SAIA-MW1A	WG	SAIA-MW1A-0716	S-1629.01	B04785	1/50	14-Jul-2016 9:31 AM	21-Jul-2016 7:30 PM	21-Jul-2016 7:30 PM	N
	B04836	NA	SAIA-MW3B	WG	SAIA-MW3B-0716	S-1622.02	B04785	1/1000	13-Jul-2016 11:56 AM	21-Jul-2016 12:21 PM	21-Jul-2016 12:21 PM	N
	B04836	NA	SAIA-MW3C	WG	SAIA-MW3C-0716	S-1622.03	B04785	1/4	13-Jul-2016 1:30 PM	21-Jul-2016 12:52 PM	21-Jul-2016 12:52 PM	N
B04943	B04946	NA	LABQC	WQ	LABQC	VBLK36	B04884	1/1	28-Jul-2016 1:00 PM	28-Jul-2016 1:00 PM	28-Jul-2016 1:00 PM	LB

AUTOMATED DATA REVIEW SUMMARY for YA753

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B04943	B04946	NA	LABQC	WQ	LABQC	S-1611.06	B04884	1/1	28-Jul-2016 7:16 PM	28-Jul-2016 7:16 PM	28-Jul-2016 7:16 PM	LB

Field Batch Report

Test Method: BNASIM		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	13071601		MW32	WG	MW132-0716	S-1622.05	7/13/2016 9:16:00 AM	FD
	13071601		MW32	WG	MW32-0716	S-1622.04	7/13/2016 9:01:00 AM	N
	13071601		SAIA-MW3A	WG	SAIA-MW3A-0716	S-1622.01	7/13/2016 10:45:00 AM	N
	13071601		SAIA-MW3B	WG	SAIA-MW3B-0716	S-1622.02	7/13/2016 11:56:00 AM	N
	13071601		SAIA-MW3C	WG	SAIA-MW3C-0716	S-1622.03	7/13/2016 1:30:00 PM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	13071601		FIELDQC	WQ	SAIA-RL03-0716	S-1622.06	7/13/2016 8:02:00 AM	TB
	13071601		MW32	WG	MW132-0716	S-1622.05	7/13/2016 9:16:00 AM	FD
	13071601		MW32	WG	MW32-0716	S-1622.04	7/13/2016 9:01:00 AM	N
	13071601		SAIA-MW3A	WG	SAIA-MW3A-0716	S-1622.01	7/13/2016 10:45:00 AM	N
	13071601		SAIA-MW3B	WG	SAIA-MW3B-0716	S-1622.02	7/13/2016 11:56:00 AM	N
	13071601		SAIA-MW3C	WG	SAIA-MW3C-0716	S-1622.03	7/13/2016 1:30:00 PM	N
Test Method: BNASIM		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	12071601		MW34	WG	MW34-0716	S-1614.01	7/12/2016 12:33:00 PM	N
	12071601		MW35	WG	MW35-0716	S-1614.02	7/12/2016 1:38:00 PM	N
	12071601		MW42	WG	MW42-0716	S-1614.03	7/12/2016 9:23:00 AM	N
	12071601		MW43	WG	MW43-0716	S-1614.04	7/12/2016 10:33:00 AM	N
	12071601		MW44	WG	MW44-0716	S-1614.05	7/12/2016 11:23:00 AM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	12071601		FIELDQC	WQ	SAIA-RL02-0716	S-1614.06	7/12/2016 8:01:00 AM	TB

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	12071601		MW34	WG	MW34-0716	S-1614.01	7/12/2016 12:33:00 PM	N
	12071601		MW35	WG	MW35-0716	S-1614.02	7/12/2016 1:38:00 PM	N
	12071601		MW42	WG	MW42-0716	S-1614.03	7/12/2016 9:23:00 AM	N
	12071601		MW43	WG	MW43-0716	S-1614.04	7/12/2016 10:33:00 AM	N
	12071601		MW44	WG	MW44-0716	S-1614.05	7/12/2016 11:23:00 AM	N
Test Method: BNASIM		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	11071601		SAIA-MW2A	WG	SAIA-MW2A-0716	S-1611.01	7/11/2016 9:48:00 AM	N
	11071601		SAIA-MW2B	WG	SAIA-MW2B-0716	S-1611.02	7/11/2016 10:46:00 AM	N
	11071601		SAIA-MW2C	WG	SAIA-MW2C-0716	S-1611.03	7/11/2016 11:34:00 AM	N
	11071601		SAIA-MW7	WG	SAIA-MW7-0716	S-1611.04	7/11/2016 1:19:00 PM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	11071601		FIELDQC	WQ	SAIA-RL01-0716	S-1611.05	7/11/2016 8:00:00 AM	TB
	11071601		SAIA-MW2A	WG	SAIA-MW2A-0716	S-1611.01	7/11/2016 9:48:00 AM	N
	11071601		SAIA-MW2B	WG	SAIA-MW2B-0716	S-1611.02	7/11/2016 10:46:00 AM	N
	11071601		SAIA-MW2C	WG	SAIA-MW2C-0716	S-1611.03	7/11/2016 11:34:00 AM	N
	11071601		SAIA-MW7	WG	SAIA-MW7-0716	S-1611.04	7/11/2016 1:19:00 PM	N

AUTOMATED DATA REVIEW SUMMARY for YA753

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
BNASIM / SW3510C	Surrogate	MW35-0716 (N)	1 / 10.00	1,4-Dioxane-d8	0.00	Percent	J/R	40 - 150	10 - 160	S	Diluted Out	2.00	
BNASIM / SW3510C	Surrogate	MW44-0716 (N)	1 / 10.00	1,4-Dioxane-d8	0.00	Percent	J/R	40 - 150	10 - 160	S	Diluted Out	2.00	
BNASIM / SW3510C	Surrogate	SAIA-MW2A-0716 (N)	1 / 10.00	1,4-Dioxane-d8	0.00	Percent	J/R	40 - 150	10 - 160	S	Diluted Out	2.00	
BNASIM / SW3510C	Surrogate	SAIA-MW2C-0716 (N)	1 / 10.00	1,4-Dioxane-d8	0.00	Percent	J/R	40 - 150	10 - 160	S	Diluted Out	2.00	
BNASIM / SW3510C	Surrogate	SAIA-MW3C-0716 (N)	1 / 10.00	1,4-Dioxane-d8	0.00	Percent	J/R	40 - 150	10 - 160	S	Diluted Out	2.00	
CVOL / METHOD	Blank	S-1611.06 (LB)	1 / 1.00	Methylene Chloride	0.380	ug/L	U/None	< 0.1	< 0.5	B1		2	0.760
CVOL / METHOD	Blank	VBLK13 (LB)	1 / 1.00	cis-1,2-Dichloroethylene	0.370	ug/L	U/None	< 0.1	< 0.5	B1		1	0.370
CVOL / METHOD	Blank	VBLK15 (LB)	1 / 1.00	Methylene Chloride	0.140	ug/L	U/None	< 0.1	< 0.5	B1		2	0.280
CVOL / METHOD	Blank	VBLK16 (LB)	1 / 1.00	Methylene Chloride	0.360	ug/L	U/None	< 0.1	< 0.5	B1		2	0.720
CVOL / METHOD	Blank	VBLK18 (LB)	1 / 1.00	Methylene Chloride	0.260	ug/L	U/None	< 0.1	< 0.5	B1		2	0.520
CVOL / METHOD	Blank	VBLK21 (LB)	1 / 1.00	Methylene Chloride	0.260	ug/L	U/None	< 0.1	< 0.5	B1		2	0.520
CVOL / METHOD	Blank	VBLK25 (LB)	1 / 1.00	Methylene Chloride	0.350	ug/L	U/None	< 0.1	< 0.5	B1		2	0.700
CVOL / METHOD	Blank	VBLK36 (LB)	1 / 1.00	Methylene Chloride	0.340	ug/L	U/None	< 0.1	< 0.5	B1		2	0.680
CVOL / METHOD	Surrogate	SAIA-MW1A-0716 (N)	1 / 1000.00	1,2-Dichlorobenzene-d4	136	Percent	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	SAIA-MW1A-0716 (N)	1 / 50.00	1,2-Dichloroethane-d4	136	Percent	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Surrogate	SAIA-MW7-0716 (N)	1 / 1.00	1,2-Dichloroethane-d4	132	Percent	J/None	70 - 130	20 - 140	S			

AUTOMATED DATA REVIEW SUMMARY for YA753

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	MW42-0716	N	1,1-Dichloroethene	2.5	3.7	3.7 J	ug/L	S
CVOL/NONE	WG	MW42-0716	N	cis-1,2-Dichloroethylene	2.5	1100 E	1100 J	ug/L	S
CVOL/NONE	WG	MW42-0716	N	trans-1,2-Dichloroethene	2.5	40.0	40.0 J	ug/L	S
CVOL/NONE	WG	MW44-0716	N	cis-1,2-Dichloroethylene	0.50	0.37 J	0.37 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1A-0716	N	1,1-Dichloroethane	25.0	22.0 J	22.0 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW2C-0716	N	1,1-Dichloroethene	0.50	3.5	3.5 J	ug/L	S
CVOL/NONE	WG	SAIA-MW2C-0716	N	cis-1,2-Dichloroethylene	10.0	270 D	270 J	ug/L	S
CVOL/NONE	WG	SAIA-MW2C-0716	N	trans-1,2-Dichloroethene	0.50	19.0	19.0 J	ug/L	S
CVOL/NONE	WG	SAIA-MW3A-0716	N	Trichloroethene (TCE)	0.50	0.29 J	0.29 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3B-0716	N	1,1-Dichloroethane	25.0	23.0 J	23.0 J	ug/L	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	MW35-0716	N	1,4-Dioxane (p-Dioxane)	5.0	19.0 D	19.0	ug/L	
BNASIM/NONE	WG	MW42-0716	N	1,4-Dioxane (p-Dioxane)	5.0	47.0 D	47.0	ug/L	
BNASIM/NONE	WG	MW43-0716	N	1,4-Dioxane (p-Dioxane)	0.50	4.0	4.0	ug/L	
BNASIM/NONE	WG	MW44-0716	N	1,4-Dioxane (p-Dioxane)	5.0	8.2 D	8.2	ug/L	
BNASIM/NONE	WG	SAIA-MW2A-0716	N	1,4-Dioxane (p-Dioxane)	5.0	5.3 D	5.3	ug/L	
BNASIM/NONE	WG	SAIA-MW2C-0716	N	1,4-Dioxane (p-Dioxane)	5.0	15.0 D	15.0	ug/L	
BNASIM/NONE	WG	SAIA-MW3B-0716	N	1,4-Dioxane (p-Dioxane)	0.50	3.9	3.9	ug/L	
BNASIM/NONE	WG	SAIA-MW3C-0716	N	1,4-Dioxane (p-Dioxane)	5.0	6.1 D	6.1	ug/L	
BNASIM/NONE	WG	SAIA-MW7-0716	N	1,4-Dioxane (p-Dioxane)	0.50	7.9	7.9	ug/L	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	MW132-0716	FD	cis-1,2-Dichloroethylene	0.50	0.63	0.63	ug/L	
CVOL/NONE	WG	MW32-0716	N	cis-1,2-Dichloroethylene	0.50	0.67	0.67	ug/L	
CVOL/NONE	WG	MW34-0716	N	Acetone	5.0	50.0	50.0	ug/L	
CVOL/NONE	WG	MW34-0716	N	1,1-Dichloroethene	0.50	0.94	0.94	ug/L	
CVOL/NONE	WG	MW34-0716	N	cis-1,2-Dichloroethylene	10.0	170 D	170	ug/L	
CVOL/NONE	WG	MW34-0716	N	trans-1,2-Dichloroethene	0.50	9.9	9.9	ug/L	
CVOL/NONE	WG	MW34-0716	N	tert-Butyl Methyl Ether (MTBE)	0.50	1.7	1.7	ug/L	
CVOL/NONE	WG	MW34-0716	N	Trichloroethene (TCE)	0.50	4.5	4.5	ug/L	
CVOL/NONE	WG	MW34-0716	N	Vinyl Chloride	0.50	0.81	0.81	ug/L	
CVOL/NONE	WG	MW35-0716	N	Benzene	0.50	0.70	0.70	ug/L	
CVOL/NONE	WG	MW35-0716	N	Cyclohexane	0.50	0.92	0.92	ug/L	
CVOL/NONE	WG	MW35-0716	N	1,1-Dichloroethane	0.50	3.0	3.0	ug/L	
CVOL/NONE	WG	MW35-0716	N	1,2-Dichloroethane	0.50	6.8	6.8	ug/L	
CVOL/NONE	WG	MW35-0716	N	1,1-Dichloroethene	0.50	4.0	4.0	ug/L	
CVOL/NONE	WG	MW35-0716	N	cis-1,2-Dichloroethylene	25.0	330 D	330	ug/L	
CVOL/NONE	WG	MW35-0716	N	trans-1,2-Dichloroethene	0.50	15.0	15.0	ug/L	

AUTOMATED DATA REVIEW SUMMARY for YA753

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	MW35-0716	N	Trichloroethene (TCE)	0.50	3.5	3.5	ug/L	
CVOL/NONE	WG	MW42-0716	N	1,1-Dichloroethane	2.5	18.0	18.0	ug/L	
CVOL/NONE	WG	MW42-0716	N	1,1-Dichloroethene	2.5	3.7	3.7 J	ug/L	S
CVOL/NONE	WG	MW42-0716	N	cis-1,2-Dichloroethylene	2.5	1100 E	1100 J	ug/L	S
CVOL/NONE	WG	MW42-0716	N	trans-1,2-Dichloroethene	2.5	40.0	40.0 J	ug/L	S
CVOL/NONE	WG	MW42-0716	N	Trichloroethene (TCE)	2.5	32.0	32.0	ug/L	
CVOL/NONE	WG	MW43-0716	N	Cyclohexane	0.50	2.5	2.5	ug/L	
CVOL/NONE	WG	MW43-0716	N	1,1-Dichloroethane	0.50	1.0	1.0	ug/L	
CVOL/NONE	WG	MW43-0716	N	1,2-Dichloroethane	5.0	44.0 D	44.0	ug/L	
CVOL/NONE	WG	MW43-0716	N	1,1-Dichloroethene	0.50	3.4	3.4	ug/L	
CVOL/NONE	WG	MW43-0716	N	cis-1,2-Dichloroethylene	5.0	42.0 D	42.0	ug/L	
CVOL/NONE	WG	MW43-0716	N	trans-1,2-Dichloroethene	0.50	3.0	3.0	ug/L	
CVOL/NONE	WG	MW43-0716	N	Trichloroethene (TCE)	0.50	5.4	5.4	ug/L	
CVOL/NONE	WG	MW43-0716	N	Vinyl Chloride	0.50	1.0	1.0	ug/L	
CVOL/NONE	WG	MW44-0716	N	cis-1,2-Dichloroethylene	0.50	0.37 J	0.37 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1A-0716	N	1,1-Dichloroethane	25.0	22.0 J	22.0 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1A-0716	N	cis-1,2-Dichloroethylene	500	3900 D	3900	ug/L	
CVOL/NONE	WG	SAIA-MW1A-0716	N	trans-1,2-Dichloroethene	25.0	160	160	ug/L	
CVOL/NONE	WG	SAIA-MW1A-0716	N	Trichloroethene (TCE)	500	1500 D	1500	ug/L	
CVOL/NONE	WG	SAIA-MW1B-0716	N	1,2-Dichloroethane	0.50	0.58	0.58	ug/L	
CVOL/NONE	WG	SAIA-MW1B-0716	N	cis-1,2-Dichloroethylene	0.50	14.0	14.0	ug/L	
CVOL/NONE	WG	SAIA-MW1B-0716	N	trans-1,2-Dichloroethene	0.50	2.0	2.0	ug/L	
CVOL/NONE	WG	SAIA-MW1B-0716	N	Trichloroethene (TCE)	0.50	0.84	0.84	ug/L	
CVOL/NONE	WG	SAIA-MW2A-0716	N	1,1-Dichloroethane	2.5	5.5	5.5	ug/L	
CVOL/NONE	WG	SAIA-MW2A-0716	N	1,1-Dichloroethene	2.5	6.4	6.4	ug/L	
CVOL/NONE	WG	SAIA-MW2A-0716	N	cis-1,2-Dichloroethylene	40.0	1300 D	1300	ug/L	
CVOL/NONE	WG	SAIA-MW2A-0716	N	trans-1,2-Dichloroethene	2.5	85.0	85.0	ug/L	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW2A-0716	N	Trichloroethene (TCE)	40.0	120 D	120	ug/L	
CVOL/NONE	WG	SAIA-MW2B-0716	N	1,2-Dichloroethane	0.50	0.81	0.81	ug/L	
CVOL/NONE	WG	SAIA-MW2B-0716	N	cis-1,2-Dichloroethylene	0.50	10.0 B	10.0	ug/L	
CVOL/NONE	WG	SAIA-MW2B-0716	N	trans-1,2-Dichloroethene	0.50	1.5	1.5	ug/L	
CVOL/NONE	WG	SAIA-MW2B-0716	N	Trichloroethene (TCE)	0.50	0.57	0.57	ug/L	
CVOL/NONE	WG	SAIA-MW2C-0716	N	Acetone	5.0	7.8	7.8	ug/L	
CVOL/NONE	WG	SAIA-MW2C-0716	N	Benzene	0.50	2.2	2.2	ug/L	
CVOL/NONE	WG	SAIA-MW2C-0716	N	Cyclohexane	0.50	1.1	1.1	ug/L	
CVOL/NONE	WG	SAIA-MW2C-0716	N	1,1-Dichloroethane	0.50	1.8	1.8	ug/L	
CVOL/NONE	WG	SAIA-MW2C-0716	N	1,2-Dichloroethane	10.0	33.0 D	33.0	ug/L	
CVOL/NONE	WG	SAIA-MW2C-0716	N	1,1-Dichloroethene	0.50	3.5	3.5 J	ug/L	S
CVOL/NONE	WG	SAIA-MW2C-0716	N	cis-1,2-Dichloroethylene	10.0	270 D	270 J	ug/L	S
CVOL/NONE	WG	SAIA-MW2C-0716	N	trans-1,2-Dichloroethene	0.50	19.0	19.0 J	ug/L	S
CVOL/NONE	WG	SAIA-MW2C-0716	N	Trichloroethene (TCE)	0.50	4.7	4.7	ug/L	
CVOL/NONE	WG	SAIA-MW2C-0716	N	Vinyl Chloride	0.50	0.87	0.87	ug/L	
CVOL/NONE	WG	SAIA-MW3A-0716	N	cis-1,2-Dichloroethylene	0.50	1.1	1.1	ug/L	
CVOL/NONE	WG	SAIA-MW3A-0716	N	Trichloroethene (TCE)	0.50	0.29 J	0.29 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3B-0716	N	1,1-Dichloroethane	25.0	23.0 J	23.0 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3B-0716	N	cis-1,2-Dichloroethylene	500	4600 D	4600	ug/L	
CVOL/NONE	WG	SAIA-MW3B-0716	N	trans-1,2-Dichloroethene	25.0	340	340	ug/L	
CVOL/NONE	WG	SAIA-MW3B-0716	N	Trichloroethene (TCE)	500	3500 D	3500	ug/L	
CVOL/NONE	WG	SAIA-MW3C-0716	N	1,1-Dichloroethane	0.50	0.51	0.51	ug/L	
CVOL/NONE	WG	SAIA-MW3C-0716	N	1,2-Dichloroethane	0.50	2.8	2.8	ug/L	
CVOL/NONE	WG	SAIA-MW3C-0716	N	cis-1,2-Dichloroethylene	2.0	49.0 D	49.0	ug/L	
CVOL/NONE	WG	SAIA-MW3C-0716	N	trans-1,2-Dichloroethene	0.50	5.4	5.4	ug/L	
CVOL/NONE	WG	SAIA-MW3C-0716	N	Trichloroethene (TCE)	0.50	5.7	5.7	ug/L	
CVOL/NONE	WG	SAIA-MW7-0716	N	1,1-Dichloroethane	0.50	0.84	0.84	ug/L	

AUTOMATED DATA REVIEW SUMMARY for YA753

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW7-0716	N	1,2-Dichloroethane	0.50	2.9	2.9	ug/L	
CVOL/NONE	WG	SAIA-MW7-0716	N	cis-1,2-Dichloroethylene	5.0	73.0 D	73.0	ug/L	
CVOL/NONE	WG	SAIA-MW7-0716	N	trans-1,2-Dichloroethene	0.50	4.8	4.8	ug/L	
CVOL/NONE	WG	SAIA-MW7-0716	N	Trichloroethene (TCE)	0.50	19.0	19.0	ug/L	
CVOL/NONE	WG	SAIA-MW91B-0716	FD	1,2-Dichloroethane	0.50	0.64	0.64	ug/L	
CVOL/NONE	WG	SAIA-MW91B-0716	FD	cis-1,2-Dichloroethylene	0.50	15.0	15.0	ug/L	
CVOL/NONE	WG	SAIA-MW91B-0716	FD	trans-1,2-Dichloroethene	0.50	2.5	2.5	ug/L	
CVOL/NONE	WG	SAIA-MW91B-0716	FD	Trichloroethene (TCE)	0.50	0.82	0.82	ug/L	

AUTOMATED DATA REVIEW SUMMARY for YA753

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for YA780

Facility: Southern Avenue Industrial Area

Groundwater Monitoring Event, July 2016

Guidance Document:

Contract Laboratory: KAP TECHNOLOGIES INC., THE WOODLANDS, TX

Field Contractor:

Data Review Contractor: Gilbane

SDG: YA780, Certified - 8/19/2016 by wtse

QC Level: Tier 1B (S2BVEM)

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title:

Date of Review Report: August 24, 2016

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG YA780

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
BNASIM/NONE	2	0
CVOL/NONE	2	1

AUTOMATED DATA REVIEW SUMMARY for YA780

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by KAP TECHNOLOGIES INC., THE WOODLANDS, TX and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- LCS Recovery
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Field Duplicate
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- MS Recovery
- MS RPD
- Negative Blank

AUTOMATED DATA REVIEW SUMMARY for YA780

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 2 results (1.27%) out of the 158 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked KAP Lab case narrative, EXES data review report summary, and COC as received.

Sample "-RL12-" incorrect on COC; listed as "-RL04-"; corrected in eDMS. No calibration anomalies were noted.

Data qualifiers were added for a 1,2-DCE detect in a trip blank (K3). All method blank (B1) issues were resolved.

No data were rejected.

24-Aug-2016

Released by Tom Beer,

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	The analyte was found in an associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field duplicate precision
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for YA780

Batch Report

Test Method: BNASIM; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
C23399	C23401	NA	LABQC	WQ	LABQC	SBLK16	C23310	1/1	29-Jul-2016 1:26 PM	29-Jul-2016 1:26 PM	08-Aug-2016 10:45 AM	LB
	C23401	NA	SAIA-MW12B	WG	SAIA-MW12B-0716	S-1659.01	C23310	1/1	25-Jul-2016 10:25 AM	29-Jul-2016 1:26 PM	08-Aug-2016 11:00 AM	N
C23438	C23401	NA	SAIA-MW12C	WG	SAIA-MW12C-0716	S-1659.02	C23310	1/1	25-Jul-2016 11:38 AM	29-Jul-2016 1:26 PM	10-Aug-2016 6:39 PM	N
	C23443	NA	LABQC	WQ	LABQC	SLCS16	C23310	1/1	29-Jul-2016 1:26 PM	29-Jul-2016 1:26 PM	10-Aug-2016 5:24 PM	BS

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B04984	B04988	NA	FIELDQC	WQ	SAIA-RL12-0716	S-1659.03	B04884	1/1	25-Jul-2016 8:19 AM	01-Aug-2016 7:04 PM	01-Aug-2016 7:04 PM	TB
	B04988	NA	LABQC	WQ	LABQC	VBLK40	B04884	1/1	01-Aug-2016 12:49 PM	01-Aug-2016 12:49 PM	01-Aug-2016 12:49 PM	LB
	B04988	NA	SAIA-MW12B	WG	SAIA-MW12B-0716	S-1659.01	B04884	1/1	25-Jul-2016 10:25 AM	01-Aug-2016 3:47 PM	01-Aug-2016 3:47 PM	N
	B04988	NA	SAIA-MW12C	WG	SAIA-MW12C-0716	S-1659.02	B04884	1/1	25-Jul-2016 11:38 AM	01-Aug-2016 4:16 PM	01-Aug-2016 4:16 PM	N
B05035	B05038	NA	LABQC	WQ	LABQC	VBLK46	B04884	1/1	10-Aug-2016 12:25 PM	10-Aug-2016 12:25 PM	10-Aug-2016 12:25 PM	LB
	B05038	NA	LABQC	WQ	LABQC	S-1659.04	B04884	1/1	10-Aug-2016 12:55 PM	10-Aug-2016 12:55 PM	10-Aug-2016 12:55 PM	LB

AUTOMATED DATA REVIEW SUMMARY for YA780

Field Batch Report

Test Method: BNASIM		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	25071601		SAIA-MW12B	WG	SAIA-MW12B-0716	S-1659.01	7/25/2016 10:25:00 AM	N
	25071601		SAIA-MW12C	WG	SAIA-MW12C-0716	S-1659.02	7/25/2016 11:38:00 AM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	25071601		FIELDQC	WQ	SAIA-RL12-0716	S-1659.03	7/25/2016 8:19:00 AM	TB
	25071601		SAIA-MW12B	WG	SAIA-MW12B-0716	S-1659.01	7/25/2016 10:25:00 AM	N
	25071601		SAIA-MW12C	WG	SAIA-MW12C-0716	S-1659.02	7/25/2016 11:38:00 AM	N

AUTOMATED DATA REVIEW SUMMARY for YA780

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CVOL / METHOD	Blank	S-1659.04 (LB)	1 / 1.00	Methylene Chloride	0.400	ug/L	U/None	< 0.1	< 0.5	B1		2	0.800
CVOL / METHOD	Blank	VBLK40 (LB)	1 / 1.00	Methylene Chloride	0.240	ug/L	U/None	< 0.1	< 0.5	B1		2	0.480
CVOL / METHOD	Blank	VBLK46 (LB)	1 / 1.00	Methylene Chloride	0.410	ug/L	U/None	< 0.1	< 0.5	B1		2	0.820
CVOL / METHOD	Trip Blank	SAIA-RL12-0716 (TB)	1 / 1.00	cis-1,2-Dichloroethylene	0.230	ug/L	U/None	< 0.1	< 0.5	K3		1	0.230

AUTOMATED DATA REVIEW SUMMARY for YA780

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW12B-0716	N	cis-1,2-Dichloroethylene	0.50	0.77	0.77 J	ug/L	K3
CVOL/NONE	WG	SAIA-MW12C-0716	N	cis-1,2-Dichloroethylene	0.50	0.66	0.66 J	ug/L	K3
CVOL/NONE	WQ	SAIA-RL12-0716	TB	cis-1,2-Dichloroethylene	0.50	0.23 J	0.23 J	ug/L	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	SAIA-MW12B-0716	N	1,4-Dioxane (p-Dioxane)	0.50	0.73	0.73	ug/L	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW12B-0716	N	cis-1,2-Dichloroethylene	0.50	0.77	0.77 J	ug/L	K3
CVOL/NONE	WG	SAIA-MW12C-0716	N	cis-1,2-Dichloroethylene	0.50	0.66	0.66 J	ug/L	K3
CVOL/NONE	WQ	SAIA-RL12-0716	TB	cis-1,2-Dichloroethylene	0.50	0.23 J	0.23 J	ug/L	TR

AUTOMATED DATA REVIEW SUMMARY for YA780

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for YA790

Facility: Southern Avenue Industrial Area

Groundwater Monitoring Event, July 2016

Guidance Document:

Contract Laboratory: KAP TECHNOLOGIES INC., THE WOODLANDS, TX

Field Contractor:

Data Review Contractor: Gilbane

SDG: YA790, Certified - 8/16/2016 by wtse

QC Level: Tier 1B (S2BVEM)

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title:

Date of Review Report: August 24, 2016

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG YA790

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
BNASIM/NONE	12	5
CVOL/NONE	12	8

AUTOMATED DATA REVIEW SUMMARY for YA790

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by KAP TECHNOLOGIES INC., THE WOODLANDS, TX and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Ambient Blank
- Blank
- Blank - Negative
- Equipment Blank
- Field Duplicate
- LCS Recovery
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- MS Recovery
- MS RPD
- Negative Blank

AUTOMATED DATA REVIEW SUMMARY for YA790

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 9 results (0.85%) out of the 1057 results (sample and field QC samples) reported are qualified based on review and 6 results (0.57%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked KAP Lab case narrative, EXES data review report summary, and COC as received.

No sample receipt anomalies noted. Data were rejected (R) for a poor continuing calibration RRF (C10) for 1,2,4-TMB.

Data qualifiers were also added for field duplicate imprecision (D5) of 1,4-DXE, and minor surrogate (S) recovery issues. All method blank (B1) issues were resolved.

The 6 non-detect 1,2,4-TMB results were rejected (R) for poor RRFs in the continuing calibration verification QC (C10).

24-Aug-2016

Released by Tom Beer,

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	The analyte was found in an associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field duplicate precision
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for YA790

Batch Report

Test Method: BNASIM; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
C23358	C23360	NA	FIELDQC	WQ	SAIA-EL01-0716	S-1630.03	C23310	1/1	14-Jul-2016 8:15 AM	20-Jul-2016 10:55 AM	05-Aug-2016 6:08 PM	EB
	C23360	NA	FIELDQC	WQ	SAIA-FL01-0716	S-1630.02	C23310	1/1	14-Jul-2016 8:07 AM	20-Jul-2016 10:55 AM	05-Aug-2016 5:53 PM	AB
	C23360	NA	LABQC	WQ	LABQC	SBLK08	C23310	1/1	20-Jul-2016 10:55 AM	20-Jul-2016 10:55 AM	05-Aug-2016 5:21 PM	LB
	C23360	NA	MW45	WG	MW45-0716	S-1630.01	C23310	1/1	14-Jul-2016 1:28 PM	20-Jul-2016 10:55 AM	05-Aug-2016 5:37 PM	N
	C23360	NA	MW46	WG	MW46-0716	S-1639.01	C23310	1/1	19-Jul-2016 11:15 AM	20-Jul-2016 10:55 AM	05-Aug-2016 10:02 PM	N
	C23360	NA	MW49	WG	MW149-0716	S-1634.05	C23310	1/1	15-Jul-2016 1:45 PM	20-Jul-2016 10:55 AM	05-Aug-2016 7:42 PM	FD
	C23360	NA	MW49	WG	MW49-0716	S-1634.04	C23310	1/1	15-Jul-2016 1:17 PM	20-Jul-2016 10:55 AM	05-Aug-2016 7:26 PM	N
	C23360	NA	SAIA-MW10	WG	SAIA-MW10-0716	S-1638.05	C23310	1/1	18-Jul-2016 8:20 AM	20-Jul-2016 10:55 AM	05-Aug-2016 9:15 PM	N
	C23360	NA	SAIA-MW11A	WG	SAIA-MW11A-0716	S-1634.01	C23310	1/1	15-Jul-2016 8:40 AM	20-Jul-2016 10:55 AM	05-Aug-2016 6:40 PM	N
	C23360	NA	SAIA-MW11B	WG	SAIA-MW11B-0716	S-1634.02	C23310	1/1	15-Jul-2016 10:00 AM	20-Jul-2016 10:55 AM	05-Aug-2016 6:55 PM	N
	C23360	NA	SAIA-MW11C	WG	SAIA-MW11C-0716	S-1634.03	C23310	1/1	15-Jul-2016 11:10 AM	20-Jul-2016 10:55 AM	05-Aug-2016 7:11 PM	N
	C23360	NA	SAIA-MW1C	WG	SAIA-MW1C-0716	S-1630.05	C23310	1/1	14-Jul-2016 12:21 PM	20-Jul-2016 10:55 AM	05-Aug-2016 6:24 PM	N
	C23360	NA	SAIA-MW9A	WG	SAIA-MW9A-0716	S-1638.01	C23310	1/1	18-Jul-2016 9:40 AM	20-Jul-2016 10:55 AM	05-Aug-2016 7:57 PM	N
	C23360	NA	SAIA-MW9B	WG	SAIA-MW9B-0716	S-1638.02	C23310	1/1	18-Jul-2016 10:35 AM	20-Jul-2016 10:55 AM	05-Aug-2016 8:28 PM	N
	C23360	NA	SAIA-MW9C	WG	SAIA-MW99C-0716	S-1638.04	C23310	1/1	18-Jul-2016 11:45 AM	20-Jul-2016 10:55 AM	05-Aug-2016 8:59 PM	FD
	C23360	NA	SAIA-MW9C	WG	SAIA-MW9C-0716	S-1638.03	C23310	1/1	18-Jul-2016 11:15 AM	20-Jul-2016 10:55 AM	05-Aug-2016 8:44 PM	N
C23399	C23360	NA	FIELDQC	WQ	SAIA-EL02-0716	S-1638.07	C23310	1/1	18-Jul-2016 8:10 AM	20-Jul-2016 10:55 AM	08-Aug-2016 12:37 PM	EB
	C23360	NA	MW56	WG	MW56-0716	S-1638.06	C23310	1/1	18-Jul-2016 12:55 PM	20-Jul-2016 10:55 AM	08-Aug-2016 12:06 PM	N
	C23360	NA	SAIA-MW1C	WG	SAIA-MW1C-0716	S-1630.05	C23310	1/2	14-Jul-2016 12:21 PM	20-Jul-2016 10:55 AM	08-Aug-2016 3:15 PM	N
C23438	C23440	NA	LABQC	WQ	LABQC	SLCS08	C23310	1/1	20-Jul-2016 10:55 AM	20-Jul-2016 10:55 AM	10-Aug-2016 4:07 PM	BS

AUTOMATED DATA REVIEW SUMMARY for YA790

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B04833	B04836	NA	FIELDQC	WQ	SAIA-EL01-0716	S-1630.03	B04785	1/1	14-Jul-2016 8:15 AM	21-Jul-2016 2:18 PM	21-Jul-2016 2:18 PM	EB
	B04836	NA	FIELDQC	WQ	SAIA-FL01-0716	S-1630.02	B04785	1/1	14-Jul-2016 8:07 AM	21-Jul-2016 1:51 PM	21-Jul-2016 1:51 PM	AB
	B04836	NA	FIELDQC	WQ	SAIA-RL05-0716	S-1630.04	B04785	1/1	14-Jul-2016 8:03 AM	21-Jul-2016 5:41 PM	21-Jul-2016 5:41 PM	TB
	B04836	NA	LABQC	WQ	LABQC	VBLK25	B04785	1/1	21-Jul-2016 10:54 AM	21-Jul-2016 10:54 AM	21-Jul-2016 10:54 AM	LB
	B04836	NA	MW45	WG	MW45-0716	S-1630.01	B04785	1/1	14-Jul-2016 1:28 PM	21-Jul-2016 4:09 PM	21-Jul-2016 4:09 PM	N
	B04836	NA	MW45	WG	MW45-0716	S-1630.01	B04785	1/10	14-Jul-2016 1:28 PM	21-Jul-2016 6:08 PM	21-Jul-2016 6:08 PM	N
	B04836	NA	SAIA-MW1C	WG	SAIA-MW1C-0716	S-1630.05	B04785	1/1	14-Jul-2016 12:21 PM	21-Jul-2016 2:46 PM	21-Jul-2016 2:46 PM	N
	B04836	NA	SAIA-MW1C	WG	SAIA-MW1C-0716	S-1630.05	B04785	1/50	14-Jul-2016 12:21 PM	21-Jul-2016 6:35 PM	21-Jul-2016 6:35 PM	N
B04855	B04858	NA	FIELDQC	WQ	SAIA-EL02-0716	S-1638.07	B04785	1/1	18-Jul-2016 8:10 AM	22-Jul-2016 7:20 PM	22-Jul-2016 7:20 PM	EB
	B04858	NA	FIELDQC	WQ	SAIA-RL06-0716	S-1634.06	B04785	1/1	15-Jul-2016 8:04 AM	22-Jul-2016 12:05 PM	22-Jul-2016 12:05 PM	TB
	B04858	NA	LABQC	WQ	LABQC	VBLK28	B04785	1/1	22-Jul-2016 11:37 AM	22-Jul-2016 11:37 AM	22-Jul-2016 11:37 AM	LB
	B04858	NA	MW49	WG	MW149-0716	S-1634.05	B04785	1/1	15-Jul-2016 1:45 PM	22-Jul-2016 3:49 PM	22-Jul-2016 3:49 PM	FD
	B04858	NA	MW49	WG	MW149-0716	S-1634.05	B04785	1/5	15-Jul-2016 1:45 PM	22-Jul-2016 8:14 PM	22-Jul-2016 8:14 PM	FD
	B04858	NA	MW49	WG	MW49-0716	S-1634.04	B04785	1/1	15-Jul-2016 1:17 PM	22-Jul-2016 2:53 PM	22-Jul-2016 2:53 PM	N
	B04858	NA	MW49	WG	MW49-0716	S-1634.04	B04785	1/5	15-Jul-2016 1:17 PM	22-Jul-2016 7:47 PM	22-Jul-2016 7:47 PM	N
	B04858	NA	SAIA-MW11A	WG	SAIA-MW11A-0716	S-1634.01	B04785	1/1	15-Jul-2016 8:40 AM	22-Jul-2016 12:32 PM	22-Jul-2016 12:32 PM	N
	B04858	NA	SAIA-MW11B	WG	SAIA-MW11B-0716	S-1634.02	B04785	1/1	15-Jul-2016 10:00 AM	22-Jul-2016 1:00 PM	22-Jul-2016 1:00 PM	N
	B04858	NA	SAIA-MW11B	WG	SAIA-MW11B-0716	S-1634.02	B04785	1/5	15-Jul-2016 10:00 AM	22-Jul-2016 4:46 PM	22-Jul-2016 4:46 PM	N
	B04858	NA	SAIA-MW11C	WG	SAIA-MW11C-0716	S-1634.03	B04785	1/1	15-Jul-2016 11:10 AM	22-Jul-2016 1:58 PM	22-Jul-2016 1:58 PM	N
	B04858	NA	SAIA-MW11C	WG	SAIA-MW11C-0716	S-1634.03	B04785	1/5	15-Jul-2016 11:10 AM	22-Jul-2016 5:15 PM	22-Jul-2016 5:15 PM	N
	B04858	NA	SAIA-MW9A	WG	SAIA-MW9A-0716	S-1638.01	B04785	1/1	18-Jul-2016 9:40 AM	22-Jul-2016 6:52 PM	22-Jul-2016 6:52 PM	N
	B04858	NA	SAIA-MW9B	WG	SAIA-MW9B-0716	S-1638.02	B04785	1/1	18-Jul-2016 10:35 AM	22-Jul-2016 8:41 PM	22-Jul-2016 8:41 PM	N

AUTOMATED DATA REVIEW SUMMARY for YA790

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B04896	B04899	NA	FIELDQC	WQ	SAIA-RL07-0716	S-1638.08	B04884	1/1	18-Jul-2016 8:05 AM	26-Jul-2016 4:39 PM	26-Jul-2016 4:39 PM	TB
	B04899	NA	LABQC	WQ	LABQC	VBLK32	B04884	1/1	26-Jul-2016 10:51 AM	26-Jul-2016 10:51 AM	26-Jul-2016 10:51 AM	LB
	B04899	NA	MW56	WG	MW56-0716	S-1638.06	B04884	1/2	18-Jul-2016 12:55 PM	26-Jul-2016 2:00 PM	26-Jul-2016 2:00 PM	N
	B04899	NA	MW56	WG	MW56-0716	S-1638.06	B04884	1/40	18-Jul-2016 12:55 PM	26-Jul-2016 4:12 PM	26-Jul-2016 4:12 PM	N
	B04899	NA	SAIA-MW10	WG	SAIA-MW10-0716	S-1638.05	B04884	1/2	18-Jul-2016 8:20 AM	26-Jul-2016 1:05 PM	26-Jul-2016 1:05 PM	N
	B04899	NA	SAIA-MW10	WG	SAIA-MW10-0716	S-1638.05	B04884	1/40	18-Jul-2016 8:20 AM	26-Jul-2016 3:45 PM	26-Jul-2016 3:45 PM	N
	B04899	NA	SAIA-MW9B	WG	SAIA-MW9B-0716	S-1638.02	B04884	1/10	18-Jul-2016 10:35 AM	26-Jul-2016 6:02 PM	26-Jul-2016 6:02 PM	N
	B04899	NA	SAIA-MW9C	WG	SAIA-MW99C-0716	S-1638.04	B04884	1/2	18-Jul-2016 11:45 AM	26-Jul-2016 12:10 PM	26-Jul-2016 12:10 PM	FD
	B04899	NA	SAIA-MW9C	WG	SAIA-MW99C-0716	S-1638.04	B04884	1/40	18-Jul-2016 11:45 AM	26-Jul-2016 3:19 PM	26-Jul-2016 3:19 PM	FD
	B04899	NA	SAIA-MW9C	WG	SAIA-MW9C-0716	S-1638.03	B04884	1/2	18-Jul-2016 11:15 AM	26-Jul-2016 11:17 AM	26-Jul-2016 11:17 AM	N
	B04899	NA	SAIA-MW9C	WG	SAIA-MW9C-0716	S-1638.03	B04884	1/40	18-Jul-2016 11:15 AM	26-Jul-2016 2:53 PM	26-Jul-2016 2:53 PM	N
B04921	B04924	NA	LABQC	WQ	LABQC	VBLK34	B04884	1/1	27-Jul-2016 11:17 AM	27-Jul-2016 11:17 AM	27-Jul-2016 11:17 AM	LB
	B04924	NA	MW46	WG	MW46-0716	S-1639.01	B04884	1/50	19-Jul-2016 11:15 AM	27-Jul-2016 6:41 PM	27-Jul-2016 6:41 PM	N
	B04924	NA	MW46	WG	MW46-0716	S-1639.01	B04884	1/2	19-Jul-2016 11:15 AM	27-Jul-2016 8:02 PM	27-Jul-2016 8:02 PM	N
B05013	B05016	NA	LABQC	WQ	LABQC	VBLK44	B04884	1/1	03-Aug-2016 3:19 PM	03-Aug-2016 3:19 PM	03-Aug-2016 3:19 PM	LB
	B05016	NA	LABQC	WQ	LABQC	S-1630.06	B04884	1/1	03-Aug-2016 10:22 PM	03-Aug-2016 10:22 PM	03-Aug-2016 10:22 PM	LB

Field Batch Report

Test Method: BNASIM		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
18071601			FIELDQC	WQ	SAIA-EL02-0716	S-1638.07	7/18/2016 8:10:00 AM	EB
18071601			MW56	WG	MW56-0716	S-1638.06	7/18/2016 12:55:00 PM	N
18071601			SAIA-MW10	WG	SAIA-MW10-0716	S-1638.05	7/18/2016 8:20:00 AM	N
18071601			SAIA-MW9A	WG	SAIA-MW9A-0716	S-1638.01	7/18/2016 9:40:00 AM	N
18071601			SAIA-MW9B	WG	SAIA-MW9B-0716	S-1638.02	7/18/2016 10:35:00 AM	N
18071601			SAIA-MW9C	WG	SAIA-MW99C-0716	S-1638.04	7/18/2016 11:45:00 AM	FD
18071601			SAIA-MW9C	WG	SAIA-MW9C-0716	S-1638.03	7/18/2016 11:15:00 AM	N

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
18071601			FIELDQC	WQ	SAIA-EL02-0716	S-1638.07	7/18/2016 8:10:00 AM	EB
18071601			MW56	WG	MW56-0716	S-1638.06	7/18/2016 12:55:00 PM	N
18071601			SAIA-MW10	WG	SAIA-MW10-0716	S-1638.05	7/18/2016 8:20:00 AM	N
18071601			SAIA-MW9A	WG	SAIA-MW9A-0716	S-1638.01	7/18/2016 9:40:00 AM	N
18071601			SAIA-MW9B	WG	SAIA-MW9B-0716	S-1638.02	7/18/2016 10:35:00 AM	N
18071601			SAIA-MW9C	WG	SAIA-MW99C-0716	S-1638.04	7/18/2016 11:45:00 AM	FD
18071601			SAIA-MW9C	WG	SAIA-MW9C-0716	S-1638.03	7/18/2016 11:15:00 AM	N

Test Method: BNASIM		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
14071601			FIELDQC	WQ	SAIA-EL01-0716	S-1630.03	7/14/2016 8:15:00 AM	EB
14071601			MW45	WG	MW45-0716	S-1630.01	7/14/2016 1:28:00 PM	N
14071601			SAIA-MW1C	WG	SAIA-MW1C-0716	S-1630.05	7/14/2016 12:21:00 PM	N

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
14071601			FIELDQC	WQ	SAIA-EL01-0716	S-1630.03	7/14/2016 8:15:00 AM	EB
14071601			MW45	WG	MW45-0716	S-1630.01	7/14/2016 1:28:00 PM	N
14071601			SAIA-MW1C	WG	SAIA-MW1C-0716	S-1630.05	7/14/2016 12:21:00 PM	N
Test Method: BNASIM		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	18071601		MW56	WG	MW56-0716	S-1638.06	7/18/2016 12:55:00 PM	N
	18071601		SAIA-MW10	WG	SAIA-MW10-0716	S-1638.05	7/18/2016 8:20:00 AM	N
	18071601		SAIA-MW9A	WG	SAIA-MW9A-0716	S-1638.01	7/18/2016 9:40:00 AM	N
	18071601		SAIA-MW9B	WG	SAIA-MW9B-0716	S-1638.02	7/18/2016 10:35:00 AM	N
	18071601		SAIA-MW9C	WG	SAIA-MW99C-0716	S-1638.04	7/18/2016 11:45:00 AM	FD
	18071601		SAIA-MW9C	WG	SAIA-MW9C-0716	S-1638.03	7/18/2016 11:15:00 AM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	18071601		FIELDQC	WQ	SAIA-RL07-0716	S-1638.08	7/18/2016 8:05:00 AM	TB
	18071601		MW56	WG	MW56-0716	S-1638.06	7/18/2016 12:55:00 PM	N
	18071601		SAIA-MW10	WG	SAIA-MW10-0716	S-1638.05	7/18/2016 8:20:00 AM	N
	18071601		SAIA-MW9A	WG	SAIA-MW9A-0716	S-1638.01	7/18/2016 9:40:00 AM	N
	18071601		SAIA-MW9B	WG	SAIA-MW9B-0716	S-1638.02	7/18/2016 10:35:00 AM	N
	18071601		SAIA-MW9C	WG	SAIA-MW99C-0716	S-1638.04	7/18/2016 11:45:00 AM	FD
	18071601		SAIA-MW9C	WG	SAIA-MW9C-0716	S-1638.03	7/18/2016 11:15:00 AM	N
Test Method: BNASIM		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	15071601		MW49	WG	MW149-0716	S-1634.05	7/15/2016 1:45:00 PM	FD

Field Batch Report

Test Method: BNASIM		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	15071601		MW49	WG	MW49-0716	S-1634.04	7/15/2016 1:17:00 PM	N
	15071601		SAIA-MW11A	WG	SAIA-MW11A-0716	S-1634.01	7/15/2016 8:40:00 AM	N
	15071601		SAIA-MW11B	WG	SAIA-MW11B-0716	S-1634.02	7/15/2016 10:00:00 AM	N
	15071601		SAIA-MW11C	WG	SAIA-MW11C-0716	S-1634.03	7/15/2016 11:10:00 AM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	15071601		FIELDQC	WQ	SAIA-RL06-0716	S-1634.06	7/15/2016 8:04:00 AM	TB
	15071601		MW49	WG	MW149-0716	S-1634.05	7/15/2016 1:45:00 PM	FD
	15071601		MW49	WG	MW49-0716	S-1634.04	7/15/2016 1:17:00 PM	N
	15071601		SAIA-MW11A	WG	SAIA-MW11A-0716	S-1634.01	7/15/2016 8:40:00 AM	N
	15071601		SAIA-MW11B	WG	SAIA-MW11B-0716	S-1634.02	7/15/2016 10:00:00 AM	N
	15071601		SAIA-MW11C	WG	SAIA-MW11C-0716	S-1634.03	7/15/2016 11:10:00 AM	N
Test Method: BNASIM		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	14071601		MW45	WG	MW45-0716	S-1630.01	7/14/2016 1:28:00 PM	N
	14071601		SAIA-MW1C	WG	SAIA-MW1C-0716	S-1630.05	7/14/2016 12:21:00 PM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	14071601		FIELDQC	WQ	SAIA-RL05-0716	S-1630.04	7/14/2016 8:03:00 AM	TB
	14071601		MW45	WG	MW45-0716	S-1630.01	7/14/2016 1:28:00 PM	N
	14071601		SAIA-MW1C	WG	SAIA-MW1C-0716	S-1630.05	7/14/2016 12:21:00 PM	N

AUTOMATED DATA REVIEW SUMMARY for YA790

Field Batch Report

Test Method: BNASIM		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
		14071601	FIELDQC	WQ	SAIA-FL01-0716	S-1630.02	7/14/2016 8:07:00 AM	AB
		14071601	MW45	WG	MW45-0716	S-1630.01	7/14/2016 1:28:00 PM	N
		14071601	SAIA-MW1C	WG	SAIA-MW1C-0716	S-1630.05	7/14/2016 12:21:00 PM	N

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
		14071601	FIELDQC	WQ	SAIA-FL01-0716	S-1630.02	7/14/2016 8:07:00 AM	AB
		14071601	MW45	WG	MW45-0716	S-1630.01	7/14/2016 1:28:00 PM	N
		14071601	SAIA-MW1C	WG	SAIA-MW1C-0716	S-1630.05	7/14/2016 12:21:00 PM	N

AUTOMATED DATA REVIEW SUMMARY for YA790

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
BNASIM / SW3510C	Field Duplicate	S-1638.04 (N)	1 / 1.00	1,4-Dioxane (p-Dioxane)	71.7	RPD	None/None	< 25	< 50	D5		RPD	
CVOL / METHOD	Blank	S-1630.06 (LB)	1 / 1.00	Methylene Chloride	0.490	ug/L	U/None	< 0.1	< 0.5	B1		2	0.980
CVOL / METHOD	Blank	VBLK25 (LB)	1 / 1.00	Methylene Chloride	0.350	ug/L	U/None	< 0.1	< 0.5	B1		2	0.700
CVOL / METHOD	Blank	VBLK28 (LB)	1 / 1.00	Bromomethane	0.270	ug/L	U/None	< 0.1	< 0.5	B1		1	0.270
CVOL / METHOD	Blank	VBLK28 (LB)	1 / 1.00	Methylene Chloride	0.380	ug/L	U/None	< 0.1	< 0.5	B1		2	0.760
CVOL / METHOD	Blank	VBLK32 (LB)	1 / 1.00	Methylene Chloride	0.220	ug/L	U/None	< 0.1	< 0.5	B1		2	0.440
CVOL / METHOD	Blank	VBLK34 (LB)	1 / 1.00	Methylene Chloride	0.220	ug/L	U/None	< 0.1	< 0.5	B1		2	0.440
CVOL / METHOD	Blank	VBLK44 (LB)	1 / 1.00	Methylene Chloride	0.380	ug/L	U/None	< 0.1	< 0.5	B1		2	0.760
CVOL / METHOD	Surrogate	MW46-0716 (N)	1 / 2.00	1,2-Dichloroethane-d4	148	Percent	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Trip Blank	SAIA-RL05-0716 (TB)	1 / 1.00	1,2,3-Trichlorobenzene	0.650	ug/L	U/None	< 0.3	< 0.5	K3		1	0.650
CVOL / METHOD	Trip Blank	SAIA-RL05-0716 (TB)	1 / 1.00	1,2,4-Trichlorobenzene	0.270	ug/L	U/None	< 0.2	< 0.5	K3		1	0.270

AUTOMATED DATA REVIEW SUMMARY for YA790

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	SAIA-MW99C-0716	FD	1,4-Dioxane (p-Dioxane)	0.50	1.7	1.7 J	ug/L	D5
BNASIM/NONE	WG	SAIA-MW9C-0716	N	1,4-Dioxane (p-Dioxane)	0.50	3.6	3.6 J	ug/L	D5
Test Leach	**Matrix**	**FieldSample ID**	**Type**	**Analyte**	**RL**	**Lab Result**	**Qualified Result**	**Units**	**Reason**
CVOL/NONE	WG	MW45-0716	N	1,1-Dichloroethane	0.50	0.45 J	0.45 J	ug/L	TR
CVOL/NONE	WG	MW45-0716	N	Benzene	0.50	0.43 J	0.43 J	ug/L	TR
CVOL/NONE	WG	MW45-0716	N	Carbon Disulfide	0.50	0.27 J	0.27 J	ug/L	TR
CVOL/NONE	WG	MW45-0716	N	Cyclohexane	0.50	0.30 J	0.30 J	ug/L	TR
CVOL/NONE	WG	MW46-0716	N	Methylene Chloride	1.0	1.1 B	1.1 J	ug/L	S
CVOL/NONE	WG	MW56-0716	N	1,2,4-Trichlorobenzene	1.0	1.0 U	1.0 R	ug/L	C10
CVOL/NONE	WG	SAIA-MW10-0716	N	1,2,4-Trichlorobenzene	1.0	1.0 U	1.0 R	ug/L	C10
CVOL/NONE	WG	SAIA-MW10-0716	N	1,2-Dichloroethane	1.0	0.59 J	0.59 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW10-0716	N	Trichloroethene (TCE)	1.0	0.93 J	0.93 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW11B-0716	N	Acetone	5.0	3.5 J	3.5 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW99C-0716	FD	1,2,4-Trichlorobenzene	1.0	1.0 U	1.0 R	ug/L	C10
CVOL/NONE	WG	SAIA-MW99C-0716	FD	1,2-Dichloroethane	1.0	0.48 J	0.48 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW99C-0716	FD	Trichloroethene (TCE)	1.0	0.74 J	0.74 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW9A-0716	N	1,2,3-Trichlorobenzene	0.50	0.37 J	0.37 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW9A-0716	N	1,2,4-Trichlorobenzene	0.50	0.20 J	0.20 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW9A-0716	N	trans-1,2-Dichloroethene	0.50	0.13 J	0.13 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW9B-0716	N	1,2,4-Trichlorobenzene	0.50	0.50 U	0.50 R	ug/L	C10
CVOL/NONE	WG	SAIA-MW9C-0716	N	1,2,4-Trichlorobenzene	1.0	1.0 U	1.0 R	ug/L	C10
CVOL/NONE	WG	SAIA-MW9C-0716	N	1,2-Dichloroethane	1.0	0.40 J	0.40 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW9C-0716	N	Trichloroethene (TCE)	1.0	0.70 J	0.70 J	ug/L	TR
CVOL/NONE	WQ	SAIA-RL05-0716	TB	1,2,4-Trichlorobenzene	0.50	0.27 J	0.27 J	ug/L	TR
CVOL/NONE	WQ	SAIA-RL07-0716	TB	1,2,4-Trichlorobenzene	0.50	0.50 U	0.50 R	ug/L	C10

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	MW45-0716	N	1,4-Dioxane (p-Dioxane)	0.50	3.5	3.5	ug/L	
BNASIM/NONE	WG	MW46-0716	N	1,4-Dioxane (p-Dioxane)	0.50	3.5	3.5	ug/L	
BNASIM/NONE	WG	SAIA-MW10-0716	N	1,4-Dioxane (p-Dioxane)	0.50	0.72	0.72	ug/L	
BNASIM/NONE	WG	SAIA-MW1C-0716	N	1,4-Dioxane (p-Dioxane)	1.0	7.3 D	7.3	ug/L	
BNASIM/NONE	WG	SAIA-MW99C-0716	FD	1,4-Dioxane (p-Dioxane)	0.50	1.7	1.7 J	ug/L	D5
BNASIM/NONE	WG	SAIA-MW9A-0716	N	1,4-Dioxane (p-Dioxane)	0.50	7.5	7.5	ug/L	
BNASIM/NONE	WG	SAIA-MW9B-0716	N	1,4-Dioxane (p-Dioxane)	0.50	1.2	1.2	ug/L	
BNASIM/NONE	WG	SAIA-MW9C-0716	N	1,4-Dioxane (p-Dioxane)	0.50	3.6	3.6 J	ug/L	D5

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	MW149-0716	FD	cis-1,2-Dichloroethylene	2.5	55.0 D	55.0	ug/L	
CVOL/NONE	WG	MW149-0716	FD	trans-1,2-Dichloroethene	0.50	5.9	5.9	ug/L	
CVOL/NONE	WG	MW149-0716	FD	Trichloroethene (TCE)	0.50	1.6	1.6	ug/L	
CVOL/NONE	WG	MW45-0716	N	Benzene	0.50	0.43 J	0.43 J	ug/L	TR
CVOL/NONE	WG	MW45-0716	N	Carbon Disulfide	0.50	0.27 J	0.27 J	ug/L	TR
CVOL/NONE	WG	MW45-0716	N	Cyclohexane	0.50	0.30 J	0.30 J	ug/L	TR
CVOL/NONE	WG	MW45-0716	N	1,1-Dichloroethane	0.50	0.45 J	0.45 J	ug/L	TR
CVOL/NONE	WG	MW45-0716	N	1,2-Dichloroethane	0.50	5.4	5.4	ug/L	
CVOL/NONE	WG	MW45-0716	N	1,1-Dichloroethene	0.50	0.99	0.99	ug/L	
CVOL/NONE	WG	MW45-0716	N	cis-1,2-Dichloroethylene	5.0	76.0 D	76.0	ug/L	
CVOL/NONE	WG	MW45-0716	N	trans-1,2-Dichloroethene	0.50	5.8	5.8	ug/L	
CVOL/NONE	WG	MW45-0716	N	Trichloroethene (TCE)	0.50	1.6	1.6	ug/L	
CVOL/NONE	WG	MW46-0716	N	1,1-Dichloroethane	1.0	7.5	7.5	ug/L	
CVOL/NONE	WG	MW46-0716	N	1,1-Dichloroethene	1.0	2.2	2.2	ug/L	
CVOL/NONE	WG	MW46-0716	N	cis-1,2-Dichloroethylene	25.0	460 D	460	ug/L	
CVOL/NONE	WG	MW46-0716	N	trans-1,2-Dichloroethene	1.0	37.0	37.0	ug/L	
CVOL/NONE	WG	MW46-0716	N	Methylene Chloride	1.0	1.1 B	1.1 J	ug/L	S

AUTOMATED DATA REVIEW SUMMARY for YA790

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	MW46-0716	N	Trichloroethene (TCE)	25.0	57.0 D	57.0	ug/L	
CVOL/NONE	WG	MW49-0716	N	cis-1,2-Dichloroethylene	2.5	49.0 D	49.0	ug/L	
CVOL/NONE	WG	MW49-0716	N	trans-1,2-Dichloroethene	0.50	6.3	6.3	ug/L	
CVOL/NONE	WG	MW49-0716	N	Trichloroethene (TCE)	0.50	1.6	1.6	ug/L	
CVOL/NONE	WG	MW56-0716	N	cis-1,2-Dichloroethylene	20.0	260 D	260	ug/L	
CVOL/NONE	WG	MW56-0716	N	trans-1,2-Dichloroethene	1.0	15.0	15.0	ug/L	
CVOL/NONE	WG	MW56-0716	N	Trichloroethene (TCE)	20.0	74.0 D	74.0	ug/L	
CVOL/NONE	WG	SAIA-MW10-0716	N	1,2-Dichloroethane	1.0	0.59 J	0.59 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW10-0716	N	cis-1,2-Dichloroethylene	20.0	220 D	220	ug/L	
CVOL/NONE	WG	SAIA-MW10-0716	N	trans-1,2-Dichloroethene	1.0	14.0	14.0	ug/L	
CVOL/NONE	WG	SAIA-MW10-0716	N	Trichloroethene (TCE)	1.0	0.93 J	0.93 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW11B-0716	N	Acetone	5.0	3.5 J	3.5 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW11B-0716	N	cis-1,2-Dichloroethylene	2.5	47.0 D	47.0	ug/L	
CVOL/NONE	WG	SAIA-MW11B-0716	N	trans-1,2-Dichloroethene	0.50	6.1	6.1	ug/L	
CVOL/NONE	WG	SAIA-MW11B-0716	N	Trichloroethene (TCE)	0.50	16.0	16.0	ug/L	
CVOL/NONE	WG	SAIA-MW11C-0716	N	cis-1,2-Dichloroethylene	2.5	36.0 D	36.0	ug/L	
CVOL/NONE	WG	SAIA-MW11C-0716	N	trans-1,2-Dichloroethene	0.50	6.7	6.7	ug/L	
CVOL/NONE	WG	SAIA-MW11C-0716	N	Trichloroethene (TCE)	0.50	11.0	11.0	ug/L	
CVOL/NONE	WG	SAIA-MW1C-0716	N	Benzene	0.50	3.2	3.2	ug/L	
CVOL/NONE	WG	SAIA-MW1C-0716	N	Cyclohexane	0.50	2.0	2.0	ug/L	
CVOL/NONE	WG	SAIA-MW1C-0716	N	1,1-Dichloroethane	0.50	2.6	2.6	ug/L	
CVOL/NONE	WG	SAIA-MW1C-0716	N	1,2-Dichloroethane	25.0	33.0 D	33.0	ug/L	
CVOL/NONE	WG	SAIA-MW1C-0716	N	1,1-Dichloroethene	0.50	5.3	5.3	ug/L	
CVOL/NONE	WG	SAIA-MW1C-0716	N	cis-1,2-Dichloroethylene	25.0	350 D	350	ug/L	
CVOL/NONE	WG	SAIA-MW1C-0716	N	trans-1,2-Dichloroethene	25.0	27.0 D	27.0	ug/L	
CVOL/NONE	WG	SAIA-MW1C-0716	N	Trichloroethene (TCE)	0.50	4.4	4.4	ug/L	
CVOL/NONE	WG	SAIA-MW1C-0716	N	Vinyl Chloride	0.50	18.0	18.0	ug/L	

AUTOMATED DATA REVIEW SUMMARY for YA790

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW99C-0716	FD	1,2-Dichloroethane	1.0	0.48 J	0.48 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW99C-0716	FD	cis-1,2-Dichloroethylene	20.0	310 D	310	ug/L	
CVOL/NONE	WG	SAIA-MW99C-0716	FD	trans-1,2-Dichloroethene	1.0	22.0	22.0	ug/L	
CVOL/NONE	WG	SAIA-MW99C-0716	FD	Trichloroethene (TCE)	1.0	0.74 J	0.74 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW9A-0716	N	cis-1,2-Dichloroethylene	0.50	1.2	1.2	ug/L	
CVOL/NONE	WG	SAIA-MW9A-0716	N	trans-1,2-Dichloroethene	0.50	0.13 J	0.13 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW9A-0716	N	1,2,3-Trichlorobenzene	0.50	0.37 J	0.37 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW9A-0716	N	1,2,4-Trichlorobenzene	0.50	0.20 J	0.20 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW9B-0716	N	cis-1,2-Dichloroethylene	5.0	52.0 D	52.0	ug/L	
CVOL/NONE	WG	SAIA-MW9B-0716	N	trans-1,2-Dichloroethene	0.50	5.5	5.5	ug/L	
CVOL/NONE	WG	SAIA-MW9B-0716	N	Trichloroethene (TCE)	0.50	0.91	0.91	ug/L	
CVOL/NONE	WG	SAIA-MW9C-0716	N	1,2-Dichloroethane	1.0	0.40 J	0.40 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW9C-0716	N	cis-1,2-Dichloroethylene	20.0	250 D	250	ug/L	
CVOL/NONE	WG	SAIA-MW9C-0716	N	trans-1,2-Dichloroethene	1.0	22.0	22.0	ug/L	
CVOL/NONE	WG	SAIA-MW9C-0716	N	Trichloroethene (TCE)	1.0	0.70 J	0.70 J	ug/L	TR
CVOL/NONE	WQ	SAIA-RL05-0716	TB	1,2,3-Trichlorobenzene	0.50	0.65	0.65	ug/L	
CVOL/NONE	WQ	SAIA-RL05-0716	TB	1,2,4-Trichlorobenzene	0.50	0.27 J	0.27 J	ug/L	TR

Rejected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	MW56-0716	N	1,2,4-Trichlorobenzene	1.0	1.0 U	R	ug/L	C10
CVOL/NONE	WG	SAIA-MW10-0716	N	1,2,4-Trichlorobenzene	1.0	1.0 U	R	ug/L	C10
CVOL/NONE	WG	SAIA-MW99C-0716	FD	1,2,4-Trichlorobenzene	1.0	1.0 U	R	ug/L	C10
CVOL/NONE	WG	SAIA-MW9B-0716	N	1,2,4-Trichlorobenzene	0.50	0.50 U	R	ug/L	C10
CVOL/NONE	WG	SAIA-MW9C-0716	N	1,2,4-Trichlorobenzene	1.0	1.0 U	R	ug/L	C10
CVOL/NONE	WQ	SAIA-RL07-0716	TB	1,2,4-Trichlorobenzene	0.50	0.50 U	R	ug/L	C10

AUTOMATED DATA REVIEW SUMMARY for YA790

AUTOMATED DATA REVIEW SUMMARY for YA792

Facility: Southern Avenue Industrial Area

Groundwater Monitoring Event, July 2016

Guidance Document:

Contract Laboratory: KAP TECHNOLOGIES INC., THE WOODLANDS, TX

Field Contractor:

Data Review Contractor: Gilbane

SDG: YA792, Certified - 8/19/2016 by wtse

QC Level: Tier 1B (S2BVEM)

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title:

Date of Review Report: August 24, 2016

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG YA792

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
BNASIM/NONE	15	1
CVOL/NONE	15	5

AUTOMATED DATA REVIEW SUMMARY for YA792

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by KAP TECHNOLOGIES INC., THE WOODLANDS, TX and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate
- LCS Recovery
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- MS Recovery
- MS RPD
- Negative Blank

AUTOMATED DATA REVIEW SUMMARY for YA792

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 4 results (0.38%) out of the 1056 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked KAP Lab case narrative, EXES data review report summary, and COC as received.

No sample receipt anomalies noted. Data were estimated (J) for a continuing calibration recovery issue (C11) for 1,4-DCB.

Data qualifiers were also added for poor 1,4-DXE surrogate recovery (S). All method blank (B1) issues and potential field duplicate imprecision (D5) were resolved.

No data were rejected.

24-Aug-2016

Released by Tom Beer,

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	The analyte was found in an associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field duplicate precision
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for YA792

Batch Report

AUTOMATED DATA REVIEW SUMMARY for YA792

Batch Report

Test Method: BNASIM; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
C23379	C23382	NA	LABQC	WQ	LABQC	SBLK12	C23310	1/1	23-Jul-2016 1:10 PM	23-Jul-2016 1:10 PM	06-Aug-2016 2:28 PM	LB
	C23382	NA	MW47	WG	MW47-0716	S-1640.01	C23310	1/1	19-Jul-2016 12:30 PM	23-Jul-2016 1:10 PM	06-Aug-2016 2:44 PM	N
	C23382	NA	MW48	WG	MW48-0716	S-1640.02	C23310	1/1	19-Jul-2016 1:45 PM	23-Jul-2016 1:10 PM	06-Aug-2016 3:00 PM	N
	C23382	NA	MW52	WG	MW52-0716	S-1640.03	C23310	1/1	19-Jul-2016 9:10 AM	23-Jul-2016 1:10 PM	06-Aug-2016 3:15 PM	N
	C23382	NA	SAIA-MW13	WG	SAIA-MW13-0716	S-1650.04	C23310	1/1	21-Jul-2016 1:20 PM	23-Jul-2016 1:10 PM	06-Aug-2016 5:35 PM	N
	C23382	NA	SAIA-MW4A	WG	SAIA-MW4A-0716	S-1653.01	C23310	1/1	22-Jul-2016 9:05 AM	23-Jul-2016 1:10 PM	06-Aug-2016 5:51 PM	N
	C23382	NA	SAIA-MW4B	WG	SAIA-MW4B-0716	S-1653.02	C23310	1/1	22-Jul-2016 10:20 AM	23-Jul-2016 1:10 PM	06-Aug-2016 6:07 PM	N
	C23382	NA	SAIA-MW4C	WG	SAIA-MW4C-0716	S-1653.03	C23310	1/1	22-Jul-2016 11:55 AM	23-Jul-2016 1:10 PM	06-Aug-2016 6:22 PM	N
	C23382	NA	SAIA-MW5A	WG	SAIA-MW5A-0716	S-1644.01	C23310	1/1	20-Jul-2016 1:13 PM	23-Jul-2016 1:10 PM	06-Aug-2016 3:31 PM	N
	C23382	NA	SAIA-MW5A	WG	SAIA-MW95A-0716	S-1644.02	C23310	1/1	20-Jul-2016 2:01 PM	23-Jul-2016 1:10 PM	06-Aug-2016 3:46 PM	FD
	C23382	NA	SAIA-MW5B	WG	SAIA-MW5B-0716	S-1650.01	C23310	1/1	21-Jul-2016 10:25 AM	23-Jul-2016 1:10 PM	06-Aug-2016 4:48 PM	N
	C23382	NA	SAIA-MW5C	WG	SAIA-MW5C-0716	S-1650.02	C23310	1/1	21-Jul-2016 11:31 AM	23-Jul-2016 1:10 PM	06-Aug-2016 5:04 PM	N
	C23382	NA	SAIA-MW6A	WG	SAIA-MW6A-0716	S-1644.03	C23310	1/1	20-Jul-2016 8:53 AM	23-Jul-2016 1:10 PM	06-Aug-2016 4:02 PM	N
	C23382	NA	SAIA-MW6B	WG	SAIA-MW6B-0716	S-1644.04	C23310	1/1	20-Jul-2016 9:59 AM	23-Jul-2016 1:10 PM	06-Aug-2016 4:17 PM	N
	C23382	NA	SAIA-MW6C	WG	SAIA-MW6C-0716	S-1644.05	C23310	1/1	20-Jul-2016 11:10 AM	23-Jul-2016 1:10 PM	06-Aug-2016 4:33 PM	N
	C23382	NA	SAIA-MW8	WG	SAIA-MW8-0716	S-1650.03	C23310	1/1	21-Jul-2016 8:50 AM	23-Jul-2016 1:10 PM	06-Aug-2016 5:20 PM	N
C23399	C23382	NA	MW48	WG	MW48-0716	S-1640.02	C23310	1/10	19-Jul-2016 1:45 PM	23-Jul-2016 1:10 PM	08-Aug-2016 1:21 PM	N
	C23382	NA	SAIA-MW4B	WG	SAIA-MW4B-0716	S-1653.02	C23310	1/20	22-Jul-2016 10:20 AM	23-Jul-2016 1:10 PM	08-Aug-2016 1:52 PM	N
	C23382	NA	SAIA-MW4C	WG	SAIA-MW4C-0716	S-1653.03	C23310	1/4	22-Jul-2016 11:55 AM	23-Jul-2016 1:10 PM	08-Aug-2016 2:07 PM	N
	C23382	NA	SAIA-MW5B	WG	SAIA-MW5B-0716	S-1650.01	C23310	1/20	21-Jul-2016 10:25 AM	23-Jul-2016 1:10 PM	08-Aug-2016 1:36 PM	N
	C23401	NA	LABQC	WQ	LABQC	SBLK16	C23310	1/1	29-Jul-2016 1:26 PM	29-Jul-2016 1:26 PM	08-Aug-2016 10:45 AM	LB
C23438	C23401	NA	SAIA-MW12A	WG	SAIA-MW12A-0716	S-1658.01	C23310	1/1	25-Jul-2016 9:15 AM	29-Jul-2016 1:26 PM	10-Aug-2016 6:24 PM	N

AUTOMATED DATA REVIEW SUMMARY for YA792

Batch Report

Test Method: BNASIM; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
C23438	C23442	NA	LABQC	WQ	LABQC	SLCS12	C23310	1/1	23-Jul-2016 1:10 PM	23-Jul-2016 1:10 PM	10-Aug-2016 5:08 PM	BS
	C23443	NA	LABQC	WQ	LABQC	SLCS16	C23310	1/1	29-Jul-2016 1:26 PM	29-Jul-2016 1:26 PM	10-Aug-2016 5:24 PM	BS

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B04921	B04924	NA	FIELDQC	WQ	SAIA-RL08-0716	S-1640.04	B04884	1/1	19-Jul-2016 8:15 AM	27-Jul-2016 3:53 PM	27-Jul-2016 3:53 PM	TB
	B04924	NA	FIELDQC	WQ	SAIA-RL09-0716	S-1644.06	B04884	1/1	20-Jul-2016 8:16 AM	27-Jul-2016 1:06 PM	27-Jul-2016 1:06 PM	TB
	B04924	NA	LABQC	WQ	LABQC	VBLK34	B04884	1/1	27-Jul-2016 11:17 AM	27-Jul-2016 11:17 AM	27-Jul-2016 11:17 AM	LB
	B04924	NA	MW48	WG	MW48-0716	S-1640.02	B04884	1/1	19-Jul-2016 1:45 PM	27-Jul-2016 4:50 PM	27-Jul-2016 4:50 PM	N
	B04924	NA	MW52	WG	MW52-0716	S-1640.03	B04884	1/1	19-Jul-2016 9:10 AM	27-Jul-2016 4:22 PM	27-Jul-2016 4:22 PM	N
	B04924	NA	SAIA-MW5A	WG	SAIA-MW5A-0716	S-1644.01	B04884	1/1	20-Jul-2016 1:13 PM	27-Jul-2016 1:33 PM	27-Jul-2016 1:33 PM	N
	B04924	NA	SAIA-MW5A	WG	SAIA-MW5A-0716	S-1644.01	B04884	1/20	20-Jul-2016 1:13 PM	27-Jul-2016 7:08 PM	27-Jul-2016 7:08 PM	N
	B04924	NA	SAIA-MW5A	WG	SAIA-MW95A-0716	S-1644.02	B04884	1/1	20-Jul-2016 2:01 PM	27-Jul-2016 2:27 PM	27-Jul-2016 2:27 PM	FD
	B04924	NA	SAIA-MW5A	WG	SAIA-MW95A-0716	S-1644.02	B04884	1/20	20-Jul-2016 2:01 PM	27-Jul-2016 7:35 PM	27-Jul-2016 7:35 PM	FD
	B04924	NA	SAIA-MW6A	WG	SAIA-MW6A-0716	S-1644.03	B04884	1/1	20-Jul-2016 8:53 AM	27-Jul-2016 11:46 AM	27-Jul-2016 11:46 AM	N
	B04924	NA	SAIA-MW6B	WG	SAIA-MW6B-0716	S-1644.04	B04884	1/1	20-Jul-2016 9:59 AM	27-Jul-2016 12:13 PM	27-Jul-2016 12:13 PM	N
	B04924	NA	SAIA-MW6C	WG	SAIA-MW6C-0716	S-1644.05	B04884	1/1	20-Jul-2016 11:10 AM	27-Jul-2016 12:39 PM	27-Jul-2016 12:39 PM	N
B04943	B04946	NA	LABQC	WQ	LABQC	VBLK36	B04884	1/1	28-Jul-2016 1:00 PM	28-Jul-2016 1:00 PM	28-Jul-2016 1:00 PM	LB
	B04946	NA	MW47	WG	MW47-0716	S-1640.01	B04884	1/10	19-Jul-2016 12:30 PM	28-Jul-2016 3:51 PM	28-Jul-2016 3:51 PM	N
	B04946	NA	MW47	WG	MW47-0716	S-1640.01	B04884	1/100	19-Jul-2016 12:30 PM	28-Jul-2016 5:22 PM	28-Jul-2016 5:22 PM	N
	B04946	NA	MW48	WG	MW48-0716	S-1640.02	B04884	1/10	19-Jul-2016 1:45 PM	28-Jul-2016 4:55 PM	28-Jul-2016 4:55 PM	N
B04964	B04966	NA	FIELDQC	WQ	SAIA-RL10-0716	S-1650.05	B04884	1/1	21-Jul-2016 8:17 AM	29-Jul-2016 4:15 PM	29-Jul-2016 4:15 PM	TB

AUTOMATED DATA REVIEW SUMMARY for YA792

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
B04964	B04966	NA	LABQC	WQ	LABQC	VBLK38	B04884	1/1	29-Jul-2016 11:03 AM	29-Jul-2016 11:03 AM	29-Jul-2016 11:03 AM	LB
	B04966	NA	SAIA-MW12A	WG	SAIA-MW12A-0716	S-1658.01	B04884	1/1	25-Jul-2016 9:15 AM	29-Jul-2016 7:26 PM	29-Jul-2016 7:26 PM	N
	B04966	NA	SAIA-MW13	WG	SAIA-MW13-0716	S-1650.04	B04884	1/1	21-Jul-2016 1:20 PM	29-Jul-2016 2:51 PM	29-Jul-2016 2:51 PM	N
	B04966	NA	SAIA-MW13	WG	SAIA-MW13-0716	S-1650.04	B04884	1/20	21-Jul-2016 1:20 PM	29-Jul-2016 6:58 PM	29-Jul-2016 6:58 PM	N
	B04966	NA	SAIA-MW5B	WG	SAIA-MW5B-0716	S-1650.01	B04884	1/5	21-Jul-2016 10:25 AM	29-Jul-2016 12:00 PM	29-Jul-2016 12:00 PM	N
	B04966	NA	SAIA-MW5B	WG	SAIA-MW5B-0716	S-1650.01	B04884	1/200	21-Jul-2016 10:25 AM	29-Jul-2016 6:03 PM	29-Jul-2016 6:03 PM	N
	B04966	NA	SAIA-MW5C	WG	SAIA-MW5C-0716	S-1650.02	B04884	1/1	21-Jul-2016 11:31 AM	29-Jul-2016 1:25 PM	29-Jul-2016 1:25 PM	N
	B04966	NA	SAIA-MW5C	WG	SAIA-MW5C-0716	S-1650.02	B04884	1/10	21-Jul-2016 11:31 AM	29-Jul-2016 6:30 PM	29-Jul-2016 6:30 PM	N
	B04966	NA	SAIA-MW8	WG	SAIA-MW8-0716	S-1650.03	B04884	1/1	21-Jul-2016 8:50 AM	29-Jul-2016 2:22 PM	29-Jul-2016 2:22 PM	N
B04984	B04988	NA	FIELDQC	WQ	SAIA-RL11-0716	S-1653.04	B04884	1/1	22-Jul-2016 8:18 AM	01-Aug-2016 1:17 PM	01-Aug-2016 1:17 PM	TB
	B04988	NA	LABQC	WQ	LABQC	VBLK40	B04884	1/1	01-Aug-2016 12:49 PM	01-Aug-2016 12:49 PM	01-Aug-2016 12:49 PM	LB
	B04988	NA	SAIA-MW4A	WG	SAIA-MW4A-0716	S-1653.01	B04884	1/1	22-Jul-2016 9:05 AM	01-Aug-2016 1:47 PM	01-Aug-2016 1:47 PM	N
	B04988	NA	SAIA-MW4B	WG	SAIA-MW4B-0716	S-1653.02	B04884	1/20	22-Jul-2016 10:20 AM	01-Aug-2016 8:51 PM	01-Aug-2016 8:51 PM	N
B05000	B05003	NA	LABQC	WQ	LABQC	VBLK42	B04884	1/1	02-Aug-2016 12:17 PM	02-Aug-2016 12:17 PM	02-Aug-2016 12:17 PM	LB
	B05003	NA	SAIA-MW4B	WG	SAIA-MW4B-0716	S-1653.02	B04884	1/400	22-Jul-2016 10:20 AM	02-Aug-2016 3:29 PM	02-Aug-2016 3:29 PM	N
	B05003	NA	SAIA-MW4C	WG	SAIA-MW4C-0716	S-1653.03	B04884	1/100	22-Jul-2016 11:55 AM	02-Aug-2016 3:57 PM	02-Aug-2016 3:57 PM	N
	B05003	NA	SAIA-MW4C	WG	SAIA-MW4C-0716	S-1653.03	B04884	1/5	22-Jul-2016 11:55 AM	02-Aug-2016 4:24 PM	02-Aug-2016 4:24 PM	N
B05013	B05016	NA	LABQC	WQ	LABQC	VBLK44	B04884	1/1	03-Aug-2016 3:19 PM	03-Aug-2016 3:19 PM	03-Aug-2016 3:19 PM	LB
	B05016	NA	LABQC	WQ	LABQC	S-1640.05	B04884	1/1	03-Aug-2016 11:19 PM	03-Aug-2016 11:19 PM	03-Aug-2016 11:19 PM	LB

Field Batch Report

Test Method: BNASIM		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	22071601		SAIA-MW4A	WG	SAIA-MW4A-0716	S-1653.01	7/22/2016 9:05:00 AM	N
	22071601		SAIA-MW4B	WG	SAIA-MW4B-0716	S-1653.02	7/22/2016 10:20:00 AM	N
	22071601		SAIA-MW4C	WG	SAIA-MW4C-0716	S-1653.03	7/22/2016 11:55:00 AM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	22071601		FIELDQC	WQ	SAIA-RL11-0716	S-1653.04	7/22/2016 8:18:00 AM	TB
	22071601		SAIA-MW4A	WG	SAIA-MW4A-0716	S-1653.01	7/22/2016 9:05:00 AM	N
	22071601		SAIA-MW4B	WG	SAIA-MW4B-0716	S-1653.02	7/22/2016 10:20:00 AM	N
	22071601		SAIA-MW4C	WG	SAIA-MW4C-0716	S-1653.03	7/22/2016 11:55:00 AM	N
Test Method: BNASIM		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	21071601		SAIA-MW13	WG	SAIA-MW13-0716	S-1650.04	7/21/2016 1:20:00 PM	N
	21071601		SAIA-MW5B	WG	SAIA-MW5B-0716	S-1650.01	7/21/2016 10:25:00 AM	N
	21071601		SAIA-MW5C	WG	SAIA-MW5C-0716	S-1650.02	7/21/2016 11:31:00 AM	N
	21071601		SAIA-MW8	WG	SAIA-MW8-0716	S-1650.03	7/21/2016 8:50:00 AM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	21071601		FIELDQC	WQ	SAIA-RL10-0716	S-1650.05	7/21/2016 8:17:00 AM	TB
	21071601		SAIA-MW13	WG	SAIA-MW13-0716	S-1650.04	7/21/2016 1:20:00 PM	N
	21071601		SAIA-MW5B	WG	SAIA-MW5B-0716	S-1650.01	7/21/2016 10:25:00 AM	N
	21071601		SAIA-MW5C	WG	SAIA-MW5C-0716	S-1650.02	7/21/2016 11:31:00 AM	N
	21071601		SAIA-MW8	WG	SAIA-MW8-0716	S-1650.03	7/21/2016 8:50:00 AM	N

Field Batch Report

Test Method: BNASIM		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	20071601		SAIA-MW5A	WG	SAIA-MW5A-0716	S-1644.01	7/20/2016 1:13:00 PM	N
	20071601		SAIA-MW5A	WG	SAIA-MW95A-0716	S-1644.02	7/20/2016 2:01:00 PM	FD
	20071601		SAIA-MW6A	WG	SAIA-MW6A-0716	S-1644.03	7/20/2016 8:53:00 AM	N
	20071601		SAIA-MW6B	WG	SAIA-MW6B-0716	S-1644.04	7/20/2016 9:59:00 AM	N
	20071601		SAIA-MW6C	WG	SAIA-MW6C-0716	S-1644.05	7/20/2016 11:10:00 AM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	20071601		FIELDQC	WQ	SAIA-RL09-0716	S-1644.06	7/20/2016 8:16:00 AM	TB
	20071601		SAIA-MW5A	WG	SAIA-MW5A-0716	S-1644.01	7/20/2016 1:13:00 PM	N
	20071601		SAIA-MW5A	WG	SAIA-MW95A-0716	S-1644.02	7/20/2016 2:01:00 PM	FD
	20071601		SAIA-MW6A	WG	SAIA-MW6A-0716	S-1644.03	7/20/2016 8:53:00 AM	N
	20071601		SAIA-MW6B	WG	SAIA-MW6B-0716	S-1644.04	7/20/2016 9:59:00 AM	N
	20071601		SAIA-MW6C	WG	SAIA-MW6C-0716	S-1644.05	7/20/2016 11:10:00 AM	N
Test Method: BNASIM		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	19071601		MW47	WG	MW47-0716	S-1640.01	7/19/2016 12:30:00 PM	N
	19071601		MW48	WG	MW48-0716	S-1640.02	7/19/2016 1:45:00 PM	N
	19071601		MW52	WG	MW52-0716	S-1640.03	7/19/2016 9:10:00 AM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	19071601		FIELDQC	WQ	SAIA-RL08-0716	S-1640.04	7/19/2016 8:15:00 AM	TB
	19071601		MW47	WG	MW47-0716	S-1640.01	7/19/2016 12:30:00 PM	N
	19071601		MW48	WG	MW48-0716	S-1640.02	7/19/2016 1:45:00 PM	N

AUTOMATED DATA REVIEW SUMMARY for YA792

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	19071601		MW52	WG	MW52-0716	S-1640.03	7/19/2016 9:10:00 AM	N

AUTOMATED DATA REVIEW SUMMARY for YA792

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
BNASIM / SW3510C	Field Duplicate	S-1644.02 (N)	1 / 1.00	1,4-Dioxane (p-Dioxane)	26.1	RPD	None/None	< 25	< 50	D5		RPD	
BNASIM / SW3510C	Surrogate	SAIA-MW4B-0716 (N)	1 / 20.00	1,4-Dioxane-d8	0.00	Percent	J/R	40 - 150	10 - 160	S	Diluted Out	2.00	
BNASIM / SW3510C	Surrogate	SAIA-MW5B-0716 (N)	1 / 20.00	1,4-Dioxane-d8	0.00	Percent	J/R	40 - 150	10 - 160	S	Diluted Out	2.00	
CVOL / METHOD	Blank	S-1640.05 (LB)	1 / 1.00	Methylene Chloride	0.430	ug/L	U/None	< 0.1	< 0.5	B1		2	0.860
CVOL / METHOD	Blank	VBLK34 (LB)	1 / 1.00	Methylene Chloride	0.220	ug/L	U/None	< 0.1	< 0.5	B1		2	0.440
CVOL / METHOD	Blank	VBLK36 (LB)	1 / 1.00	Methylene Chloride	0.340	ug/L	U/None	< 0.1	< 0.5	B1		2	0.680
CVOL / METHOD	Blank	VBLK38 (LB)	1 / 1.00	Methylene Chloride	0.380	ug/L	U/None	< 0.1	< 0.5	B1		2	0.760
CVOL / METHOD	Blank	VBLK40 (LB)	1 / 1.00	Methylene Chloride	0.240	ug/L	U/None	< 0.1	< 0.5	B1		2	0.480
CVOL / METHOD	Blank	VBLK42 (LB)	1 / 1.00	Methylene Chloride	0.240	ug/L	U/None	< 0.1	< 0.5	B1		2	0.480
CVOL / METHOD	Blank	VBLK44 (LB)	1 / 1.00	Methylene Chloride	0.380	ug/L	U/None	< 0.1	< 0.5	B1		2	0.760
CVOL / METHOD	Field Duplicate	S-1644.02 (N)	1 / 1.00	1,1-Dichloroethene	200	RPD	J/None	< 50	< 100	D5		RPD	
CVOL / METHOD	Surrogate	SAIA-MW13-0716 (N)	1 / 20.00	1,2-Dichloroethane-d4	132	Percent	J/None	70 - 130	20 - 140	S			
CVOL / METHOD	Trip Blank	SAIA-RL10-0716 (TB)	1 / 1.00	cis-1,2-Dichloroethylene	0.150	ug/L	U/None	< 0.1	< 0.5	K3		1	0.150

AUTOMATED DATA REVIEW SUMMARY for YA792

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	SAIA-MW4B-0716	N	1,4-Dioxane (p-Dioxane)	10.0	62.0 D	62.0 J	ug/L	S
BNASIM/NONE	WG	SAIA-MW5B-0716	N	1,4-Dioxane (p-Dioxane)	10.0	30.0 D	30.0 J	ug/L	S
Test Leach	**Matrix**	**FieldSample ID**	**Type**	**Analyte**	**RL**	**Lab Result**	**Qualified Result**	**Units**	**Reason**
CVOL/NONE	WG	MW47-0716	N	1,4-Dichlorobenzene	5.0	5.0 U	5.0 UJ	ug/L	C11
CVOL/NONE	WG	MW47-0716	N	Bromomethane	5.0	3.2 J	3.2 J	ug/L	TR
CVOL/NONE	WG	MW48-0716	N	1,4-Dichlorobenzene	0.50	0.50 U	0.50 UJ	ug/L	C11
CVOL/NONE	WG	SAIA-MW12A-0716	N	trans-1,2-Dichloroethene	0.50	0.20 J	0.20 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4A-0716	N	cis-1,2-Dichloroethylene	0.50	0.16 J	0.16 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4B-0716	N	Trichloroethene (TCE)	10.0	6.6 J	6.6 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4C-0716	N	1,2-Dichloroethane	2.5	2.0 J	2.0 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4C-0716	N	Bromomethane	2.5	1.3 J	1.3 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4C-0716	N	Toluene	2.5	1.3 J	1.3 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW6C-0716	N	1,2-Dichloroethane	0.50	0.31 J	0.31 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW8-0716	N	trans-1,2-Dichloroethene	0.50	0.31 J	0.31 J	ug/L	TR
CVOL/NONE	WQ	SAIA-RL10-0716	TB	cis-1,2-Dichloroethylene	0.50	0.15 J	0.15 J	ug/L	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	MW47-0716	N	1,4-Dioxane (p-Dioxane)	0.50	6.2	6.2	ug/L	
BNASIM/NONE	WG	MW48-0716	N	1,4-Dioxane (p-Dioxane)	5.0	13.0 D	13.0	ug/L	
BNASIM/NONE	WG	SAIA-MW4B-0716	N	1,4-Dioxane (p-Dioxane)	10.0	62.0 D	62.0 J	ug/L	S
BNASIM/NONE	WG	SAIA-MW4C-0716	N	1,4-Dioxane (p-Dioxane)	2.0	7.7 D	7.7	ug/L	
BNASIM/NONE	WG	SAIA-MW5A-0716	N	1,4-Dioxane (p-Dioxane)	0.50	1.0	1.0	ug/L	
BNASIM/NONE	WG	SAIA-MW5B-0716	N	1,4-Dioxane (p-Dioxane)	10.0	30.0 D	30.0 J	ug/L	S
BNASIM/NONE	WG	SAIA-MW5C-0716	N	1,4-Dioxane (p-Dioxane)	0.50	2.4	2.4	ug/L	
BNASIM/NONE	WG	SAIA-MW95A-0716	FD	1,4-Dioxane (p-Dioxane)	0.50	1.3	1.3	ug/L	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	MW47-0716	N	Bromomethane	5.0	3.2 J	3.2 J	ug/L	TR
CVOL/NONE	WG	MW47-0716	N	1,1-Dichloroethane	5.0	6.1	6.1	ug/L	
CVOL/NONE	WG	MW47-0716	N	cis-1,2-Dichloroethylene	50.0	490 D	490	ug/L	
CVOL/NONE	WG	MW47-0716	N	trans-1,2-Dichloroethene	5.0	30.0	30.0	ug/L	
CVOL/NONE	WG	MW47-0716	N	Trichloroethene (TCE)	5.0	5.4	5.4	ug/L	
CVOL/NONE	WG	MW48-0716	N	Acetone	5.0	12.0	12.0	ug/L	
CVOL/NONE	WG	MW48-0716	N	Cyclohexane	0.50	0.88	0.88	ug/L	
CVOL/NONE	WG	MW48-0716	N	1,1-Dichloroethane	0.50	1.3	1.3	ug/L	
CVOL/NONE	WG	MW48-0716	N	1,2-Dichloroethane	0.50	15.0	15.0	ug/L	
CVOL/NONE	WG	MW48-0716	N	1,1-Dichloroethene	0.50	1.9	1.9	ug/L	
CVOL/NONE	WG	MW48-0716	N	cis-1,2-Dichloroethylene	5.0	100 D	100	ug/L	
CVOL/NONE	WG	MW48-0716	N	trans-1,2-Dichloroethene	0.50	6.3	6.3	ug/L	
CVOL/NONE	WG	MW48-0716	N	Trichloroethene (TCE)	0.50	1.3	1.3	ug/L	
CVOL/NONE	WG	MW48-0716	N	Vinyl Chloride	0.50	1.1	1.1	ug/L	
CVOL/NONE	WG	MW52-0716	N	Cyclohexane	0.50	0.84	0.84	ug/L	
CVOL/NONE	WG	MW52-0716	N	cis-1,2-Dichloroethylene	0.50	15.0	15.0	ug/L	
CVOL/NONE	WG	MW52-0716	N	trans-1,2-Dichloroethene	0.50	6.2	6.2	ug/L	

AUTOMATED DATA REVIEW SUMMARY for YA792

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	MW52-0716	N	Trichloroethene (TCE)	0.50	5.6	5.6	ug/L	
CVOL/NONE	WG	SAIA-MW12A-0716	N	cis-1,2-Dichloroethylene	0.50	1.0	1.0	ug/L	
CVOL/NONE	WG	SAIA-MW12A-0716	N	trans-1,2-Dichloroethene	0.50	0.20 J	0.20 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW12A-0716	N	tert-Butyl Methyl Ether (MTBE)	0.50	0.67	0.67	ug/L	
CVOL/NONE	WG	SAIA-MW12A-0716	N	Trichloroethene (TCE)	0.50	0.63	0.63	ug/L	
CVOL/NONE	WG	SAIA-MW13-0716	N	Acetone	5.0	11.0	11.0	ug/L	
CVOL/NONE	WG	SAIA-MW13-0716	N	cis-1,2-Dichloroethylene	10.0	190 D	190	ug/L	
CVOL/NONE	WG	SAIA-MW13-0716	N	trans-1,2-Dichloroethene	10.0	29.0 D	29.0	ug/L	
CVOL/NONE	WG	SAIA-MW13-0716	N	Trichloroethene (TCE)	0.50	1.5	1.5	ug/L	
CVOL/NONE	WG	SAIA-MW4A-0716	N	cis-1,2-Dichloroethylene	0.50	0.16 J	0.16 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4B-0716	N	1,1-Dichloroethane	10.0	16.0	16.0	ug/L	
CVOL/NONE	WG	SAIA-MW4B-0716	N	cis-1,2-Dichloroethylene	200	4200 D	4200	ug/L	
CVOL/NONE	WG	SAIA-MW4B-0716	N	trans-1,2-Dichloroethene	10.0	210	210	ug/L	
CVOL/NONE	WG	SAIA-MW4B-0716	N	Trichloroethene (TCE)	10.0	6.6 J	6.6 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4C-0716	N	Bromomethane	2.5	1.3 J	1.3 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4C-0716	N	Toluene	2.5	1.3 J	1.3 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4C-0716	N	1,1-Dichloroethane	2.5	5.9	5.9	ug/L	
CVOL/NONE	WG	SAIA-MW4C-0716	N	1,2-Dichloroethane	2.5	2.0 J	2.0 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4C-0716	N	cis-1,2-Dichloroethylene	50.0	870 D	870	ug/L	
CVOL/NONE	WG	SAIA-MW4C-0716	N	trans-1,2-Dichloroethene	50.0	120 D	120	ug/L	
CVOL/NONE	WG	SAIA-MW4C-0716	N	Trichloroethene (TCE)	2.5	2.7	2.7	ug/L	
CVOL/NONE	WG	SAIA-MW4C-0716	N	Vinyl Chloride	2.5	45.0	45.0	ug/L	
CVOL/NONE	WG	SAIA-MW5A-0716	N	cis-1,2-Dichloroethylene	10.0	210 D	210	ug/L	
CVOL/NONE	WG	SAIA-MW5A-0716	N	trans-1,2-Dichloroethene	0.50	19.0	19.0	ug/L	
CVOL/NONE	WG	SAIA-MW5A-0716	N	Trichloroethene (TCE)	0.50	1.3	1.3	ug/L	
CVOL/NONE	WG	SAIA-MW5B-0716	N	1,1-Dichloroethane	2.5	6.5	6.5	ug/L	
CVOL/NONE	WG	SAIA-MW5B-0716	N	cis-1,2-Dichloroethylene	2.5	2100 D	2100	ug/L	

AUTOMATED DATA REVIEW SUMMARY for YA792

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW5B-0716	N	trans-1,2-Dichloroethene	2.5	79.0	79.0	ug/L	
CVOL/NONE	WG	SAIA-MW5B-0716	N	Trichloroethene (TCE)	2.5	3.0	3.0	ug/L	
CVOL/NONE	WG	SAIA-MW5B-0716	N	Vinyl Chloride	2.5	20.0	20.0	ug/L	
CVOL/NONE	WG	SAIA-MW5C-0716	N	1,2-Dichloroethane	0.50	1.6	1.6	ug/L	
CVOL/NONE	WG	SAIA-MW5C-0716	N	cis-1,2-Dichloroethylene	5.0	95.0 D	95.0	ug/L	
CVOL/NONE	WG	SAIA-MW5C-0716	N	trans-1,2-Dichloroethene	0.50	11.0	11.0	ug/L	
CVOL/NONE	WG	SAIA-MW5C-0716	N	Trichloroethene (TCE)	0.50	1.6	1.6	ug/L	
CVOL/NONE	WG	SAIA-MW6B-0716	N	cis-1,2-Dichloroethylene	0.50	14.0	14.0	ug/L	
CVOL/NONE	WG	SAIA-MW6B-0716	N	trans-1,2-Dichloroethene	0.50	3.7	3.7	ug/L	
CVOL/NONE	WG	SAIA-MW6B-0716	N	Trichloroethene (TCE)	0.50	2.7	2.7	ug/L	
CVOL/NONE	WG	SAIA-MW6C-0716	N	Acetone	5.0	6.3	6.3	ug/L	
CVOL/NONE	WG	SAIA-MW6C-0716	N	1,2-Dichloroethane	0.50	0.31 J	0.31 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW6C-0716	N	cis-1,2-Dichloroethylene	0.50	17.0	17.0	ug/L	
CVOL/NONE	WG	SAIA-MW6C-0716	N	trans-1,2-Dichloroethene	0.50	2.9	2.9	ug/L	
CVOL/NONE	WG	SAIA-MW6C-0716	N	Trichloroethene (TCE)	0.50	2.0	2.0	ug/L	
CVOL/NONE	WG	SAIA-MW6C-0716	N	Vinyl Chloride	0.50	1.2	1.2	ug/L	
CVOL/NONE	WG	SAIA-MW8-0716	N	1,2-Dichloroethane	0.50	0.78	0.78	ug/L	
CVOL/NONE	WG	SAIA-MW8-0716	N	cis-1,2-Dichloroethylene	0.50	2.2	2.2	ug/L	
CVOL/NONE	WG	SAIA-MW8-0716	N	trans-1,2-Dichloroethene	0.50	0.31 J	0.31 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW8-0716	N	Trichloroethene (TCE)	0.50	1.3	1.3	ug/L	
CVOL/NONE	WG	SAIA-MW95A-0716	FD	1,1-Dichloroethene	0.50	0.66	0.66	ug/L	
CVOL/NONE	WG	SAIA-MW95A-0716	FD	cis-1,2-Dichloroethylene	10.0	220 D	220	ug/L	
CVOL/NONE	WG	SAIA-MW95A-0716	FD	trans-1,2-Dichloroethene	0.50	17.0	17.0	ug/L	
CVOL/NONE	WG	SAIA-MW95A-0716	FD	Trichloroethene (TCE)	0.50	1.2	1.2	ug/L	
CVOL/NONE	WQ	SAIA-RL10-0716	TB	cis-1,2-Dichloroethylene	0.50	0.15 J	0.15 J	ug/L	TR

AUTOMATED DATA REVIEW SUMMARY for YA792

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for Y9M67

Facility: Southern Avenue Industrial Area

Groundwater Monitoring Event, August 2014

Guidance Document:

Contract Laboratory: COMPUCHEM LABS, INC., CARY, NC

Field Contractor:

Data Review Contractor: Gilbane

SDG: Y9M67, Certified - 9/24/2014 by wtse

QC Level: Tier 3 (S3VEM)

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: October 28, 2014

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG Y9M67

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
CVOL/NONE	14	4
WSM0011/NONE	14	2

AUTOMATED DATA REVIEW SUMMARY for Y9M67

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by COMPUCHEM LABS, INC., CARY, NC and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- LCS Recovery
- Material Blank
- Negative Blank

AUTOMATED DATA REVIEW SUMMARY for Y9M67

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 63 results (6.62%) out of the 952 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Gilbane reviewed CompuChem lab report, COCs, case narrative, and EXES data review package.

No sample receipt anomalies were noted. Calibration issues are discussed below.

Data qualifiers were added for surrogate recoveries (S), minor blank contaminants (B1), and several calibration anomalies (C11).

28-Oct-2014

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action
O	Interference check sample

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.
J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
4H27016-CC	4082712_20	NA	LABQC	WQ	LABQC	4082712-BLK1	4082708	1/1	27-Aug-2014 8:20 PM	27-Aug-2014 8:20 PM	27-Aug-2014 8:20 PM	LB
	4082712_20	NA	SAIA-MW1A	WG	SAIA-MW1A-0814	1408075-01	4082708	1/1	25-Aug-2014 11:25 AM	27-Aug-2014 8:20 PM	27-Aug-2014 11:42 PM	N
	4082712_20	NA	SAIA-MW1B	WG	SAIA-MW1B-0814	1408075-02	4082708	1/1	25-Aug-2014 10:06 AM	27-Aug-2014 8:20 PM	28-Aug-2014 12:14 AM	N
	4082712_20	NA	SAIA-MW1C	WG	SAIA-MW1C-0814	1408075-03	4082708	1/1	25-Aug-2014 9:15 AM	27-Aug-2014 8:20 PM	28-Aug-2014 12:45 AM	N
	4082712_20	NA	SAIA-MW2A	WG	SAIA-MW2A-0814	1408075-04	4082708	1/1	25-Aug-2014 11:43 AM	27-Aug-2014 8:20 PM	28-Aug-2014 1:16 AM	N
	4082712_20	NA	SAIA-MW2A	WG	SAIA-MW92A-0814	1408075-05	4082708	1/1	25-Aug-2014 11:48 AM	27-Aug-2014 8:20 PM	28-Aug-2014 1:48 AM	FD
4H28005-CC	4082818_20	NA	LABQC	WQ	LABQC	4082818-BLK1	4082708	1/1	28-Aug-2014 9:59 PM	28-Aug-2014 9:59 PM	28-Aug-2014 9:59 PM	LB
	4082818_20	NA	SAIA-MW2B	WG	SAIA-MW2B-0814	1408075-06	4082708	1/1	25-Aug-2014 10:32 AM	28-Aug-2014 9:59 PM	28-Aug-2014 11:34 PM	N
	4082818_20	NA	SAIA-MW2C	WG	SAIA-MW2C-0814	1408075-07	4082708	1/1	25-Aug-2014 9:15 AM	28-Aug-2014 9:59 PM	29-Aug-2014 12:06 AM	N
	4082818_20	NA	SAIA-MW3B	WG	SAIA-MW3B-0814	1408075-13	4082708	1/1	26-Aug-2014 9:02 AM	28-Aug-2014 9:59 PM	29-Aug-2014 2:44 AM	N
	4082818_20	NA	SAIA-MW3C	WG	SAIA-MW3C-0814	1408075-14	4082708	1/1	26-Aug-2014 8:02 AM	28-Aug-2014 9:59 PM	29-Aug-2014 3:16 AM	N
	4082818_20	NA	SAIA-MW4B	WG	SAIA-MW4B-0814	1408075-16	4082708	1/1	26-Aug-2014 12:11 PM	28-Aug-2014 9:59 PM	29-Aug-2014 4:19 AM	N
	4082818_20	NA	SAIA-MW4B	WG	SAIA-MW94B-0814	1408075-17	4082708	1/1	26-Aug-2014 12:16 PM	28-Aug-2014 9:59 PM	29-Aug-2014 4:50 AM	FD
	4082818_20	NA	SAIA-MW4C	WG	SAIA-MW4C-0814	1408075-18	4082708	1/1	26-Aug-2014 11:19 AM	28-Aug-2014 9:59 PM	29-Aug-2014 5:22 AM	N
	4082818_20	NA	SAIA-MW7	WG	SAIA-MW7-0814	1408075-08	4082708	1/1	25-Aug-2014 1:41 PM	28-Aug-2014 9:59 PM	29-Aug-2014 12:37 AM	N
4H29005-TU	4082913_20	NA	FIELDQC	WQ	SAIA-RL01-0814	1408075-10	4090201	1/1	25-Aug-2014 2:00 PM	29-Aug-2014 10:59 PM	30-Aug-2014 12:08 AM	TB
	4082913_20	NA	FIELDQC	WQ	SAIA-RL02-0814	1408075-19	4090201	1/1	26-Aug-2014 2:10 PM	29-Aug-2014 10:59 PM	30-Aug-2014 1:42 AM	TB
	4082913_20	NA	LABQC	WQ	LABQC	4082913-BLK1	4090201	1/1	29-Aug-2014 10:59 PM	29-Aug-2014 10:59 PM	29-Aug-2014 10:59 PM	LB
	4082913_20	NA	SAIA-MW1B	WG	SAIA-MW1B-0814	1408075-02RE1	4090201	1/5	25-Aug-2014 10:06 AM	29-Aug-2014 10:59 PM	30-Aug-2014 2:46 AM	N
	4082913_20	NA	SAIA-MW1C	WG	SAIA-MW1C-0814	1408075-03RE1	4090201	1/62.5	25-Aug-2014 9:15 AM	29-Aug-2014 10:59 PM	30-Aug-2014 3:49 AM	N
	4082913_20	NA	SAIA-MW2A	WG	SAIA-MW2A-0814	1408075-04RE1	4090201	1/250	25-Aug-2014 11:43 AM	29-Aug-2014 10:59 PM	30-Aug-2014 4:20 AM	N

AUTOMATED DATA REVIEW SUMMARY for Y9M67

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
4H29005-TU	4082913_20	NA	SAIA-MW3A	WG	SAIA-MW3A-0814	1408075-12	4090201	1/1	26-Aug-2014 9:55 AM	29-Aug-2014 10:59 PM	30-Aug-2014 12:40 AM	N
	4082913_20	NA	SAIA-MW3C	WG	SAIA-MW3C-0814	1408075-14RE1	4090201	1/3.6	26-Aug-2014 8:02 AM	29-Aug-2014 10:59 PM	30-Aug-2014 2:14 AM	N
	4082913_20	NA	SAIA-MW4A	WG	SAIA-MW4A-0814	1408075-15	4090201	1/1	26-Aug-2014 1:51 PM	29-Aug-2014 10:59 PM	30-Aug-2014 1:11 AM	N
	4082913_20	NA	SAIA-MW7	WG	SAIA-MW7-0814	1408075-08RE1	4090201	1/6.3	25-Aug-2014 1:41 PM	29-Aug-2014 10:59 PM	30-Aug-2014 3:17 AM	N
	4082913_20	NA	SAIA-MW8	WG	SAIA-MW8-0814	1408075-09	4090201	1/1	25-Aug-2014 1:25 PM	29-Aug-2014 10:59 PM	29-Aug-2014 11:37 PM	N
4I02001-CC	4090213_20	NA	LABQC	WQ	LABQC	4090213-BLK1	4090201	1/1	02-Sep-2014 5:38 PM	02-Sep-2014 5:38 PM	02-Sep-2014 5:38 PM	LB
	4090213_20	NA	SAIA-MW1A	WG	SAIA-MW1A-0814	1408075-01RE1	4090201	1/714.3	25-Aug-2014 11:25 AM	02-Sep-2014 5:38 PM	03-Sep-2014 12:49 AM	N
	4090213_20	NA	SAIA-MW1B	WG	SAIA-MW1B-0814	4090213-MS1	4090201	1/5	25-Aug-2014 10:06 AM	02-Sep-2014 5:38 PM	03-Sep-2014 1:21 AM	MS
	4090213_20	NA	SAIA-MW1B	WG	SAIA-MW1B-0814	4090213-MSD1	4090201	1/5	25-Aug-2014 10:06 AM	02-Sep-2014 5:38 PM	03-Sep-2014 1:52 AM	SD
	4090213_20	NA	SAIA-MW2A	WG	SAIA-MW92A-0814	1408075-05RE1	4090201	1/250	25-Aug-2014 11:48 AM	02-Sep-2014 5:38 PM	02-Sep-2014 7:24 PM	FD
	4090213_20	NA	SAIA-MW2B	WG	SAIA-MW2B-0814	1408075-06RE1	4090201	1/6.3	25-Aug-2014 10:32 AM	02-Sep-2014 5:38 PM	02-Sep-2014 6:18 PM	N
	4090213_20	NA	SAIA-MW2C	WG	SAIA-MW2C-0814	1408075-07RE1	4090201	1/50	25-Aug-2014 9:15 AM	02-Sep-2014 5:38 PM	02-Sep-2014 6:51 PM	N
	4090213_20	NA	SAIA-MW3B	WG	SAIA-MW3B-0814	1408075-13RE1	4090201	1/1000	26-Aug-2014 9:02 AM	02-Sep-2014 5:38 PM	02-Sep-2014 9:44 PM	N
	4090213_20	NA	SAIA-MW4B	WG	SAIA-MW4B-0814	1408075-16RE1	4090201	1/500	26-Aug-2014 12:11 PM	02-Sep-2014 5:38 PM	02-Sep-2014 11:46 PM	N
	4090213_20	NA	SAIA-MW4B	WG	SAIA-MW94B-0814	1408075-17RE1	4090201	1/500	26-Aug-2014 12:16 PM	02-Sep-2014 5:38 PM	02-Sep-2014 11:08 PM	FD
	4090213_20	NA	SAIA-MW4C	WG	SAIA-MW4C-0814	1408075-18RE1	4090201	1/125	26-Aug-2014 11:19 AM	02-Sep-2014 5:38 PM	03-Sep-2014 12:18 AM	N
4I03008-CC	4090312_20	NA	LABQC	WQ	LABQC	4090312-BLK1	4090201	1/1	03-Sep-2014 4:16 PM	03-Sep-2014 4:16 PM	03-Sep-2014 4:16 PM	LB
	4090312_20	NA	LABQC	WQ	LABQC	1408075-11	4090201	1/1	03-Sep-2014 5:35 PM	03-Sep-2014 5:35 PM	03-Sep-2014 5:35 PM	LB

Test Method: WSM0011; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
4H27007-CC	4082605_20	NA	LABQC	WQ	LABQC	4082605-BLK1	4082801_4H	1/1	26-Aug-2014 3:46 PM	26-Aug-2014 3:46 PM	27-Aug-2014 3:05 PM	LB

AUTOMATED DATA REVIEW SUMMARY for Y9M67

Batch Report

Test Method: WSM0011; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
4H27007-CC	4082605_20	NA	SAIA-MW1A	WG	SAIA-MW1A-0814	1408075-01	4082801_4H	1/1	25-Aug-2014 11:25 AM	26-Aug-2014 3:46 PM	27-Aug-2014 4:20 PM	N
	4082605_20	NA	SAIA-MW1B	WG	SAIA-MW1B-0814	1408075-02	4082801_4H	1/1	25-Aug-2014 10:06 AM	26-Aug-2014 3:46 PM	27-Aug-2014 4:45 PM	N
	4082605_20	NA	SAIA-MW1C	WG	SAIA-MW1C-0814	1408075-03	4082801_4H	1/1	25-Aug-2014 9:15 AM	26-Aug-2014 3:46 PM	27-Aug-2014 5:10 PM	N
	4082605_20	NA	SAIA-MW2A	WG	SAIA-MW2A-0814	1408075-04	4082801_4H	1/1	25-Aug-2014 11:43 AM	26-Aug-2014 3:46 PM	27-Aug-2014 5:35 PM	N
	4082605_20	NA	SAIA-MW2A	WG	SAIA-MW92A-0814	1408075-05	4082801_4H	1/1	25-Aug-2014 11:48 AM	26-Aug-2014 3:46 PM	27-Aug-2014 6:00 PM	FD
	4082605_20	NA	SAIA-MW2B	WG	SAIA-MW2B-0814	1408075-06	4082801_4H	1/1	25-Aug-2014 10:32 AM	26-Aug-2014 3:46 PM	27-Aug-2014 6:25 PM	N
	4082605_20	NA	SAIA-MW2C	WG	SAIA-MW2C-0814	1408075-07	4082801_4H	1/1	25-Aug-2014 9:15 AM	26-Aug-2014 3:46 PM	27-Aug-2014 6:50 PM	N
	4082605_20	NA	SAIA-MW7	WG	SAIA-MW7-0814	1408075-08	4082801_4H	1/1	25-Aug-2014 1:41 PM	26-Aug-2014 3:46 PM	27-Aug-2014 7:14 PM	N
	4082605_20	NA	SAIA-MW8	WG	SAIA-MW8-0814	1408075-09	4082801_4H	1/1	25-Aug-2014 1:25 PM	26-Aug-2014 3:46 PM	27-Aug-2014 7:39 PM	N
4H28003-CC	4082605_20	NA	SAIA-MW1C	WG	SAIA-MW1C-0814	1408075-03RE1	4082801_4H	1/5	25-Aug-2014 9:15 AM	26-Aug-2014 3:46 PM	28-Aug-2014 11:30 AM	N
	4082605_20	NA	SAIA-MW2A	WG	SAIA-MW2A-0814	1408075-04RE1	4082801_4H	1/3	25-Aug-2014 11:43 AM	26-Aug-2014 3:46 PM	28-Aug-2014 11:55 AM	N
	4082605_20	NA	SAIA-MW2A	WG	SAIA-MW92A-0814	1408075-05RE1	4082801_4H	1/3	25-Aug-2014 11:48 AM	26-Aug-2014 3:46 PM	28-Aug-2014 12:20 PM	FD
	4082605_20	NA	SAIA-MW2C	WG	SAIA-MW2C-0814	1408075-07RE1	4082801_4H	1/5	25-Aug-2014 9:15 AM	26-Aug-2014 3:46 PM	28-Aug-2014 1:21 PM	N
	4082706_20	NA	SAIA-MW3B	WG	SAIA-MW3B-0814	1408075-13	4082801_4H	1/1	26-Aug-2014 9:02 AM	27-Aug-2014 3:53 PM	28-Aug-2014 3:01 PM	N
	4082706_20	NA	SAIA-MW4B	WG	SAIA-MW4B-0814	1408075-16	4082801_4H	1/1	26-Aug-2014 12:11 PM	27-Aug-2014 3:53 PM	28-Aug-2014 4:15 PM	N
4H29004-CC	4082706_20	NA	LABQC	WQ	LABQC	4082706-BLK1	4082801_4H	1/1	27-Aug-2014 3:53 PM	27-Aug-2014 3:53 PM	29-Aug-2014 2:20 PM	LB
	4082706_20	NA	SAIA-MW3A	WG	SAIA-MW3A-0814	1408075-12	4082801_4H	1/1	26-Aug-2014 9:55 AM	27-Aug-2014 3:53 PM	29-Aug-2014 2:45 PM	N
	4082706_20	NA	SAIA-MW3B	WG	SAIA-MW3B-0814	1408075-13RE1	4082801_4H	1/20	26-Aug-2014 9:02 AM	27-Aug-2014 3:53 PM	29-Aug-2014 3:09 PM	N
	4082706_20	NA	SAIA-MW3C	WG	SAIA-MW3C-0814	1408075-14	4082801_4H	1/1	26-Aug-2014 8:02 AM	27-Aug-2014 3:53 PM	29-Aug-2014 3:34 PM	N
	4082706_20	NA	SAIA-MW4A	WG	SAIA-MW4A-0814	1408075-15	4082801_4H	1/1	26-Aug-2014 1:51 PM	27-Aug-2014 3:53 PM	29-Aug-2014 3:59 PM	N
	4082706_20	NA	SAIA-MW4B	WG	SAIA-MW4B-0814	1408075-16RE1	4082801_4H	1/10	26-Aug-2014 12:11 PM	27-Aug-2014 3:53 PM	29-Aug-2014 4:23 PM	N
	4082706_20	NA	SAIA-MW4B	WG	SAIA-MW94B-0814	1408075-17RE1	4082801_4H	1/10	26-Aug-2014 12:16 PM	27-Aug-2014 3:53 PM	29-Aug-2014 4:48 PM	FD

AUTOMATED DATA REVIEW SUMMARY for Y9M67

Batch Report

Test Method: WSM0011; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
4H29004-CC	4082706_20	NA	SAIA-MW4C	WG	SAIA-MW4C-0814	1408075-18RE1	4082801_4H	1/2	26-Aug-2014 11:19 AM	27-Aug-2014 3:53 PM	29-Aug-2014 5:13 PM	N
4I04004-CC	4082827_20	NA	LABQC	WQ	LABQC	4082827-BLK1	4082801_4H	1/1	02-Sep-2014 1:55 PM	02-Sep-2014 1:55 PM	04-Sep-2014 11:10 AM	LB
	4082827_20	NA	SAIA-MW3C	WG	SAIA-MW3C-0814	1408075-14RE1	4082801_4H	1/1	26-Aug-2014 8:02 AM	02-Sep-2014 1:55 PM	04-Sep-2014 2:02 PM	N

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	26081401		FIELDQC	WQ	SAIA-RL02-0814	1408075-19	8/26/2014 2:10:00 PM	TB
	26081401		SAIA-MW3A	WG	SAIA-MW3A-0814	1408075-12	8/26/2014 9:55:00 AM	N
	26081401		SAIA-MW3B	WG	SAIA-MW3B-0814	1408075-13	8/26/2014 9:02:00 AM	N
	26081401		SAIA-MW3B	WG	SAIA-MW3B-0814	1408075-13RE1	8/26/2014 9:02:00 AM	N
	26081401		SAIA-MW3C	WG	SAIA-MW3C-0814	1408075-14	8/26/2014 8:02:00 AM	N
	26081401		SAIA-MW3C	WG	SAIA-MW3C-0814	1408075-14RE1	8/26/2014 8:02:00 AM	N
	26081401		SAIA-MW4A	WG	SAIA-MW4A-0814	1408075-15	8/26/2014 1:51:00 PM	N
	26081401		SAIA-MW4B	WG	SAIA-MW4B-0814	1408075-16	8/26/2014 12:11:00 PM	N
	26081401		SAIA-MW4B	WG	SAIA-MW4B-0814	1408075-16RE1	8/26/2014 12:11:00 PM	N
	26081401		SAIA-MW4B	WG	SAIA-MW94B-0814	1408075-17	8/26/2014 12:16:00 PM	FD
	26081401		SAIA-MW4B	WG	SAIA-MW94B-0814	1408075-17RE1	8/26/2014 12:16:00 PM	FD
	26081401		SAIA-MW4C	WG	SAIA-MW4C-0814	1408075-18	8/26/2014 11:19:00 AM	N
	26081401		SAIA-MW4C	WG	SAIA-MW4C-0814	1408075-18RE1	8/26/2014 11:19:00 AM	N

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	25081401		FIELDQC	WQ	SAIA-RL01-0814	1408075-10	8/25/2014 2:00:00 PM	TB
	25081401		SAIA-MW1A	WG	SAIA-MW1A-0814	1408075-01	8/25/2014 11:25:00 AM	N
	25081401		SAIA-MW1A	WG	SAIA-MW1A-0814	1408075-01RE1	8/25/2014 11:25:00 AM	N
	25081401		SAIA-MW1B	WG	SAIA-MW1B-0814	1408075-02	8/25/2014 10:06:00 AM	N
	25081401		SAIA-MW1B	WG	SAIA-MW1B-0814	1408075-02RE1	8/25/2014 10:06:00 AM	N
	25081401		SAIA-MW1B	WG	SAIA-MW1B-0814	4090213-MS1	8/25/2014 10:06:00 AM	MS
	25081401		SAIA-MW1B	WG	SAIA-MW1B-0814	4090213-MSD1	8/25/2014 10:06:00 AM	SD
	25081401		SAIA-MW1C	WG	SAIA-MW1C-0814	1408075-03	8/25/2014 9:15:00 AM	N
	25081401		SAIA-MW1C	WG	SAIA-MW1C-0814	1408075-03RE1	8/25/2014 9:15:00 AM	N
	25081401		SAIA-MW2A	WG	SAIA-MW2A-0814	1408075-04	8/25/2014 11:43:00 AM	N

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	25081401		SAIA-MW2A	WG	SAIA-MW2A-0814	1408075-04RE1	8/25/2014 11:43:00 AM	N
	25081401		SAIA-MW2A	WG	SAIA-MW92A-0814	1408075-05	8/25/2014 11:48:00 AM	FD
	25081401		SAIA-MW2A	WG	SAIA-MW92A-0814	1408075-05RE1	8/25/2014 11:48:00 AM	FD
	25081401		SAIA-MW2B	WG	SAIA-MW2B-0814	1408075-06	8/25/2014 10:32:00 AM	N
	25081401		SAIA-MW2B	WG	SAIA-MW2B-0814	1408075-06RE1	8/25/2014 10:32:00 AM	N
	25081401		SAIA-MW2C	WG	SAIA-MW2C-0814	1408075-07	8/25/2014 9:15:00 AM	N
	25081401		SAIA-MW2C	WG	SAIA-MW2C-0814	1408075-07RE1	8/25/2014 9:15:00 AM	N
	25081401		SAIA-MW7	WG	SAIA-MW7-0814	1408075-08	8/25/2014 1:41:00 PM	N
	25081401		SAIA-MW7	WG	SAIA-MW7-0814	1408075-08RE1	8/25/2014 1:41:00 PM	N
	25081401		SAIA-MW8	WG	SAIA-MW8-0814	1408075-09	8/25/2014 1:25:00 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9M67

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CVOL / METHOD	Blank	4082712-BLK1 (LB)	1 / 1.00	Ethylbenzene	0.0410	ug/L	U/None	< 0.03	< 0.5	B1			
CVOL / METHOD	Blank	4082712-BLK1 (LB)	1 / 1.00	m,p-Xylene	0.110	ug/L	U/None	< 0.03	< 0.5	B1			
CVOL / METHOD	Blank	4082712-BLK1 (LB)	1 / 1.00	Toluene	0.140	ug/L	U/None	< 0.05	< 0.5	B1			
CVOL / METHOD	Blank	4082818-BLK1 (LB)	1 / 1.00	m,p-Xylene	0.0470	ug/L	U/None	< 0.03	< 0.5	B1			
CVOL / METHOD	Blank	4082818-BLK1 (LB)	1 / 1.00	Methylene Chloride	0.380	ug/L	U/None	< 0.21	< 0.5	B1			
CVOL / METHOD	Blank	4082818-BLK1 (LB)	1 / 1.00	Toluene	0.0720	ug/L	U/None	< 0.05	< 0.5	B1			
CVOL / METHOD	Blank	4082913-BLK1 (LB)	1 / 1.00	m,p-Xylene	0.0770	ug/L	U/None	< 0.03	< 0.5	B1			
CVOL / METHOD	Blank	4082913-BLK1 (LB)	1 / 1.00	Toluene	0.0970	ug/L	U/None	< 0.05	< 0.5	B1			
CVOL / METHOD	Blank	4090213-BLK1 (LB)	1 / 1.00	Ethylbenzene	0.0610	ug/L	U/None	< 0.03	< 0.5	B1			
CVOL / METHOD	Blank	4090213-BLK1 (LB)	1 / 1.00	m,p-Xylene	0.260	ug/L	U/None	< 0.03	< 0.5	B1			
CVOL / METHOD	Blank	4090213-BLK1 (LB)	1 / 1.00	o-Xylene	0.0400	ug/L	U/None	< 0.03	< 0.5	B1			
CVOL / METHOD	Blank	4090213-BLK1 (LB)	1 / 1.00	Toluene	0.190	ug/L	U/None	< 0.05	< 0.5	B1			
CVOL / METHOD	Field Duplicate RPD	1408075-05 (N)	1 / 1.00	1,2-Dichloroethane	200	RPD	J/None	< 50	< 100	D5		RPD	
CVOL / METHOD	Field Duplicate RPD	1408075-17 (N)	1 / 1.00	Ethylbenzene	200	RPD	J/None	< 50	< 100	D5		RPD	
CVOL / METHOD	MS RPD	4090213-MSD1 (SD)	1 / 5.00	1,2,3-Trichlorobenzene	200	RPD	J/UJ	< 30	< 60	D2		RPD	
CVOL / METHOD	MS RPD	4090213-MSD1 (SD)	1 / 5.00	1,2,4-Trichlorobenzene	200	RPD	J/UJ	< 30	< 60	D2		RPD	
CVOL / METHOD	MS RPD	4090213-MSD1 (SD)	1 / 5.00	1,3-Dichlorobenzene	200	RPD	J/UJ	< 30	< 60	D2		RPD	
CVOL / METHOD	MS RPD	4090213-MSD1 (SD)	1 / 5.00	1,4-Dichlorobenzene	200	RPD	J/UJ	< 30	< 60	D2		RPD	
CVOL / METHOD	Trip Blank	SAIA-RL01-0814 (TB)	1 / 1.00	Chloroform	0.0510	ug/L	U/None	< 0.04	< 0.5	K3			
WSM0011 / SW3520	Prep Hold Time	SAIA-MW3C-0814 (N)	1 / 1.00	All in Run	7.25	Days	J/UJ	< 7	< 14	H2			
WSM0011 / SW3520	Prep Hold Time	SAIA-MW3C-0814 (N)	1 / 1.00	All in Run	7.25	Days	J/UJ	< 7	< 14	H2			

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW1A-0814	N	1,1-Dichloroethene	0.50	16.0	16.0 J	ug/L	S
CVOL/NONE	WG	SAIA-MW1A-0814	N	Acetone	11.0	11.0	11.0 U	ug/L	K1
CVOL/NONE	WG	SAIA-MW1A-0814	N	Benzene	0.50	0.29 J	0.29 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1A-0814	N	Carbon Disulfide	0.50	0.11 J	0.11 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1A-0814	N	Chlorobenzene	0.50	0.045 J	0.045 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1A-0814	N	Chloroethane	0.50	0.41 J	0.41 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1A-0814	N	Chloroform	0.50	0.13 J	0.50 U	ug/L	K3
CVOL/NONE	WG	SAIA-MW1A-0814	N	Cyclohexane	0.50	0.18 J	0.18 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1A-0814	N	Ethylbenzene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW1A-0814	N	Isopropylbenzene (Cumene)	0.50	0.17 J	0.17 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1A-0814	N	m,p-Xylene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW1A-0814	N	Methylcyclohexane	0.50	0.16 J	0.16 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1A-0814	N	o-Xylene	0.50	0.10 J	0.10 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1A-0814	N	Tetrachloroethene (PCE)	0.50	0.42 J	0.42 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1A-0814	N	trans-1,2-Dichloroethene	360	96.0 JD	96.0 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1B-0814	N	1,1-Dichloroethane	0.50	0.19 J	0.19 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1B-0814	N	1,2-Dichloropropane	0.50	0.097 J	0.097 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1B-0814	N	Cyclohexane	0.50	0.22 J	0.22 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1B-0814	N	m,p-Xylene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW1B-0814	N	Toluene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW1B-0814	N	Trichloroethene (TCE)	0.50	4.3	4.3 J	ug/L	M
CVOL/NONE	WG	SAIA-MW1C-0814	N	1,1-Dichloroethene	0.50	6.5	6.5 J	ug/L	S
CVOL/NONE	WG	SAIA-MW1C-0814	N	1,2-Dichloropropane	0.50	0.10 J	0.10 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1C-0814	N	Ethylbenzene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW1C-0814	N	m,p-Xylene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW1C-0814	N	Methylcyclohexane	0.50	0.15 J	0.15 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1C-0814	N	o-Xylene	0.50	0.057 J	0.057 J	ug/L	TR

AUTOMATED DATA REVIEW SUMMARY for Y9M67

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW1C-0814	N	Toluene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW2A-0814	N	1,1,2-Trichloroethane	0.50	0.45 J	0.45 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW2A-0814	N	1,1-Dichloroethene	0.50	7.7	7.7 J	ug/L	S
CVOL/NONE	WG	SAIA-MW2A-0814	N	1,2-Dichloroethane	0.50	0.25 J	0.25 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW2A-0814	N	Acetone	5.3	5.3	5.3 U	ug/L	K1
CVOL/NONE	WG	SAIA-MW2A-0814	N	Benzene	0.50	0.35 J	0.35 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW2A-0814	N	Cyclohexane	0.50	0.14 J	0.14 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW2A-0814	N	Ethylbenzene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW2A-0814	N	m,p-Xylene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW2A-0814	N	Methylcyclohexane	0.50	0.17 J	0.17 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW2A-0814	N	o-Xylene	0.50	0.083 J	0.083 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW2A-0814	N	Toluene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW2A-0814	N	trans-1,2-Dichloroethene	130	110 JD	110 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW2B-0814	N	1,1-Dichloroethane	0.50	0.11 J	0.11 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW2B-0814	N	1,2-Dichloropropane	0.50	0.23 J	0.23 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW2B-0814	N	Benzene	0.50	0.20 J	0.20 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW2B-0814	N	Bromomethane	0.50	0.50 U	0.50 UJ	ug/L	C11
CVOL/NONE	WG	SAIA-MW2B-0814	N	Cyclohexane	0.50	0.19 J	0.19 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW2B-0814	N	Methylene Chloride	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW2B-0814	N	Toluene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW2C-0814	N	1,1-Dichloroethene	0.50	5.2	5.2 J	ug/L	S
CVOL/NONE	WG	SAIA-MW2C-0814	N	Bromomethane	0.50	0.50 U	0.50 UJ	ug/L	C11
CVOL/NONE	WG	SAIA-MW2C-0814	N	m,p-Xylene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW2C-0814	N	Methylcyclohexane	0.50	0.14 J	0.14 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW2C-0814	N	Methylene Chloride	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW2C-0814	N	Toluene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW3A-0814	N	m,p-Xylene	0.50	0.50 JB	0.50 U	ug/L	B1

AUTOMATED DATA REVIEW SUMMARY for Y9M67

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW3A-0814	N	Styrene	0.50	0.045 J	0.045 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3A-0814	N	trans-1,2-Dichloroethene	0.50	0.15 J	0.15 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3B-0814	N	1,1-Dichloroethene	0.50	20.0 E	20.0 J	ug/L	S
CVOL/NONE	WG	SAIA-MW3B-0814	N	Acetone	5.0	4.7 J	5.0 U	ug/L	K1
CVOL/NONE	WG	SAIA-MW3B-0814	N	Bromomethane	0.50	0.50 U	0.50 UJ	ug/L	C11
CVOL/NONE	WG	SAIA-MW3B-0814	N	Cyclohexane	0.50	0.42 J	0.42 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3B-0814	N	Ethylbenzene	0.50	0.13 J	0.13 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3B-0814	N	Isopropylbenzene (Cumene)	0.50	0.19 J	0.19 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3B-0814	N	m,p-Xylene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW3B-0814	N	Methylcyclohexane	0.50	0.28 J	0.28 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3B-0814	N	Methylene Chloride	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW3B-0814	N	o-Xylene	0.50	0.032 J	0.032 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3B-0814	N	trans-1,2-Dichloroethene	500	230 JD	230 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3C-0814	N	1,1-Dichloroethane	0.50	0.25 J	0.25 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3C-0814	N	1,2-Dichloropropane	0.50	0.27 J	0.27 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3C-0814	N	Benzene	0.50	0.085 J	0.085 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3C-0814	N	Bromomethane	0.50	0.50 U	0.50 UJ	ug/L	C11
CVOL/NONE	WG	SAIA-MW3C-0814	N	Carbon Disulfide	0.50	0.13 J	0.13 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3C-0814	N	Cyclohexane	0.50	0.14 J	0.14 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3C-0814	N	m,p-Xylene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW3C-0814	N	Methylene Chloride	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW3C-0814	N	Toluene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW4A-0814	N	1,1-Dichloroethane	0.50	0.34 J	0.34 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4A-0814	N	Toluene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW4A-0814	N	Trichloroethene (TCE)	0.50	0.19 J	0.19 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4B-0814	N	1,1-Dichloroethene	0.50	6.6	6.6 J	ug/L	S
CVOL/NONE	WG	SAIA-MW4B-0814	N	Bromomethane	0.50	0.50 U	0.50 UJ	ug/L	C11

AUTOMATED DATA REVIEW SUMMARY for Y9M67

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW4B-0814	N	Cyclohexane	0.50	0.17 J	0.17 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4B-0814	N	Ethylbenzene	0.50	0.034 J	0.034 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4B-0814	N	m,p-Xylene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW4B-0814	N	Methylcyclohexane	0.50	0.19 J	0.19 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4B-0814	N	Methylene Chloride	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW4B-0814	N	Toluene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW4B-0814	N	trans-1,2-Dichloroethene	250	180 JD	180 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4B-0814	N	Trichloroethene (TCE)	250	150 JD	150 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4C-0814	N	1,2-Dichloropropane	0.50	0.30 J	0.30 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4C-0814	N	Benzene	0.50	0.19 J	0.19 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4C-0814	N	Bromomethane	0.50	0.50 U	0.50 UJ	ug/L	C11
CVOL/NONE	WG	SAIA-MW4C-0814	N	Cyclohexane	0.50	0.16 J	0.16 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4C-0814	N	m,p-Xylene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW4C-0814	N	Methylcyclohexane	0.50	0.074 J	0.074 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4C-0814	N	Methylene Chloride	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW4C-0814	N	Styrene	0.50	0.074 J	0.074 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW7-0814	N	1,3-Dichlorobenzene	0.50	0.12 J	0.12 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW7-0814	N	Benzene	0.50	0.14 J	0.14 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW7-0814	N	Bromomethane	0.50	0.50 U	0.50 UJ	ug/L	C11
CVOL/NONE	WG	SAIA-MW7-0814	N	m,p-Xylene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW7-0814	N	Toluene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW8-0814	N	Toluene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW8-0814	N	trans-1,2-Dichloroethene	0.50	0.20 J	0.20 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW92A-0814	FD	1,1,2-Trichloroethane	0.50	0.47 J	0.47 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW92A-0814	FD	1,1-Dichloroethene	0.50	7.7	7.7 J	ug/L	S
CVOL/NONE	WG	SAIA-MW92A-0814	FD	Acetone	5.0	4.8 J	5.0 U	ug/L	K1
CVOL/NONE	WG	SAIA-MW92A-0814	FD	Benzene	0.50	0.35 J	0.35 J	ug/L	TR

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW92A-0814	FD	Cyclohexane	0.50	0.15 J	0.15 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW92A-0814	FD	Ethylbenzene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW92A-0814	FD	m,p-Xylene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW92A-0814	FD	Methylcyclohexane	0.50	0.16 J	0.16 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW92A-0814	FD	o-Xylene	0.50	0.087 J	0.087 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW92A-0814	FD	Toluene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW92A-0814	FD	trans-1,2-Dichloroethene	130	120 JD	120 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW94B-0814	FD	1,1-Dichloroethene	0.50	6.6	6.6 J	ug/L	S
CVOL/NONE	WG	SAIA-MW94B-0814	FD	Bromomethane	0.50	0.50 U	0.50 UJ	ug/L	C11
CVOL/NONE	WG	SAIA-MW94B-0814	FD	Cyclohexane	0.50	0.17 J	0.17 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW94B-0814	FD	m,p-Xylene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW94B-0814	FD	Methylcyclohexane	0.50	0.18 J	0.18 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW94B-0814	FD	Methylene Chloride	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW94B-0814	FD	Toluene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-MW94B-0814	FD	trans-1,2-Dichloroethene	250	180 JD	180 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW94B-0814	FD	Trichloroethene (TCE)	250	150 JD	150 J	ug/L	TR
CVOL/NONE	WQ	SAIA-RL01-0814	TB	Chloroform	0.50	0.051 J	0.051 J	ug/L	TR
CVOL/NONE	WQ	SAIA-RL01-0814	TB	m,p-Xylene	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WQ	SAIA-RL01-0814	TB	Toluene	0.50	0.50 JB	0.50 U	ug/L	B1
Test Leach	**Matrix**	**FieldSample ID**	**Type**	**Analyte**	**RL**	**Lab Result**	**Qualified Result**	**Units**	**Reason**
WSM0011/NONE	WG	SAIA-MW3C-0814	N	1,4-Dioxane (p-Dioxane)	0.46	0.46 U	0.46 UJ	ug/L	H2/S
WSM0011/NONE	WG	SAIA-MW4C-0814	N	1,4-Dioxane (p-Dioxane)	0.93	11.0 D	11.0 J	ug/L	S
WSM0011/NONE	WG	SAIA-MW8-0814	N	1,4-Dioxane (p-Dioxane)	0.48	0.16 J	0.16 J	ug/L	TR
WSM0011/NONE	WG	SAIA-MW94B-0814	FD	1,4-Dioxane (p-Dioxane)	4.6	59.0 D	59.0 J	ug/L	S

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW1A-0814	N	Benzene	0.50	0.29 J	0.29 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1A-0814	N	Toluene	0.50	0.51 B	0.51	ug/L	
CVOL/NONE	WG	SAIA-MW1A-0814	N	Carbon Disulfide	0.50	0.11 J	0.11 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1A-0814	N	Methylcyclohexane	0.50	0.16 J	0.16 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1A-0814	N	Chlorobenzene	0.50	0.045 J	0.045 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1A-0814	N	Chloroethane	0.50	0.41 J	0.41 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1A-0814	N	Cyclohexane	0.50	0.18 J	0.18 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1A-0814	N	1,1-Dichloroethane	0.50	17.0	17.0	ug/L	
CVOL/NONE	WG	SAIA-MW1A-0814	N	1,1-Dichloroethene	0.50	16.0	16.0 J	ug/L	S
CVOL/NONE	WG	SAIA-MW1A-0814	N	cis-1,2-Dichloroethylene	360	6900 D	6900	ug/L	
CVOL/NONE	WG	SAIA-MW1A-0814	N	trans-1,2-Dichloroethene	360	96.0 JD	96.0 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1A-0814	N	Isopropylbenzene (Cumene)	0.50	0.17 J	0.17 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1A-0814	N	Tetrachloroethene (PCE)	0.50	0.42 J	0.42 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1A-0814	N	1,1,2-Trichloroethane	0.50	0.58	0.58	ug/L	
CVOL/NONE	WG	SAIA-MW1A-0814	N	Trichloroethene (TCE)	360	4800 D	4800	ug/L	
CVOL/NONE	WG	SAIA-MW1A-0814	N	o-Xylene	0.50	0.10 J	0.10 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1B-0814	N	Cyclohexane	0.50	0.22 J	0.22 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1B-0814	N	1,1-Dichloroethane	0.50	0.19 J	0.19 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1B-0814	N	1,2-Dichloroethane	0.50	0.52	0.52	ug/L	
CVOL/NONE	WG	SAIA-MW1B-0814	N	cis-1,2-Dichloroethylene	2.5	51.0 D	51.0	ug/L	
CVOL/NONE	WG	SAIA-MW1B-0814	N	trans-1,2-Dichloroethene	0.50	4.6	4.6	ug/L	
CVOL/NONE	WG	SAIA-MW1B-0814	N	1,2-Dichloropropane	0.50	0.097 J	0.097 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1B-0814	N	Trichloroethene (TCE)	0.50	4.3	4.3 J	ug/L	M
CVOL/NONE	WG	SAIA-MW1C-0814	N	Benzene	0.50	3.7	3.7	ug/L	
CVOL/NONE	WG	SAIA-MW1C-0814	N	Methylcyclohexane	0.50	0.15 J	0.15 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1C-0814	N	Cyclohexane	0.50	2.6	2.6	ug/L	
CVOL/NONE	WG	SAIA-MW1C-0814	N	1,1-Dichloroethane	0.50	4.2	4.2	ug/L	

AUTOMATED DATA REVIEW SUMMARY for Y9M67

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW1C-0814	N	1,2-Dichloroethane	31.0	52.0 D	52.0	ug/L	
CVOL/NONE	WG	SAIA-MW1C-0814	N	1,1-Dichloroethene	0.50	6.5	6.5 J	ug/L	S
CVOL/NONE	WG	SAIA-MW1C-0814	N	cis-1,2-Dichloroethylene	31.0	560 D	560	ug/L	
CVOL/NONE	WG	SAIA-MW1C-0814	N	trans-1,2-Dichloroethene	31.0	47.0 D	47.0	ug/L	
CVOL/NONE	WG	SAIA-MW1C-0814	N	1,2-Dichloropropane	0.50	0.10 J	0.10 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW1C-0814	N	Trichloroethene (TCE)	31.0	210 D	210	ug/L	
CVOL/NONE	WG	SAIA-MW1C-0814	N	Vinyl Chloride	0.50	1.4	1.4	ug/L	
CVOL/NONE	WG	SAIA-MW1C-0814	N	o-Xylene	0.50	0.057 J	0.057 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW2A-0814	N	Benzene	0.50	0.35 J	0.35 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW2A-0814	N	Methylcyclohexane	0.50	0.17 J	0.17 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW2A-0814	N	Cyclohexane	0.50	0.14 J	0.14 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW2A-0814	N	1,1-Dichloroethane	0.50	7.2	7.2	ug/L	
CVOL/NONE	WG	SAIA-MW2A-0814	N	1,2-Dichloroethane	0.50	0.25 J	0.25 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW2A-0814	N	1,1-Dichloroethene	0.50	7.7	7.7 J	ug/L	S
CVOL/NONE	WG	SAIA-MW2A-0814	N	cis-1,2-Dichloroethylene	130	2500 D	2500	ug/L	
CVOL/NONE	WG	SAIA-MW2A-0814	N	trans-1,2-Dichloroethene	130	110 JD	110 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW2A-0814	N	1,1,2-Trichloroethane	0.50	0.45 J	0.45 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW2A-0814	N	Trichloroethene (TCE)	130	1300 D	1300	ug/L	
CVOL/NONE	WG	SAIA-MW2A-0814	N	Vinyl Chloride	0.50	5.5	5.5	ug/L	
CVOL/NONE	WG	SAIA-MW2A-0814	N	o-Xylene	0.50	0.083 J	0.083 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW2B-0814	N	Benzene	0.50	0.20 J	0.20 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW2B-0814	N	Cyclohexane	0.50	0.19 J	0.19 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW2B-0814	N	1,1-Dichloroethane	0.50	0.11 J	0.11 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW2B-0814	N	1,2-Dichloroethane	0.50	5.1	5.1	ug/L	
CVOL/NONE	WG	SAIA-MW2B-0814	N	1,1-Dichloroethene	0.50	0.50	0.50	ug/L	
CVOL/NONE	WG	SAIA-MW2B-0814	N	cis-1,2-Dichloroethylene	3.1	51.0 D	51.0	ug/L	
CVOL/NONE	WG	SAIA-MW2B-0814	N	trans-1,2-Dichloroethene	0.50	5.9	5.9	ug/L	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW2B-0814	N	1,2-Dichloropropane	0.50	0.23 J	0.23 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW2B-0814	N	Trichloroethene (TCE)	0.50	2.8	2.8	ug/L	
CVOL/NONE	WG	SAIA-MW2B-0814	N	Vinyl Chloride	0.50	0.75	0.75	ug/L	
CVOL/NONE	WG	SAIA-MW2C-0814	N	Benzene	0.50	4.7	4.7	ug/L	
CVOL/NONE	WG	SAIA-MW2C-0814	N	Methylcyclohexane	0.50	0.14 J	0.14 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW2C-0814	N	Cyclohexane	0.50	1.9	1.9	ug/L	
CVOL/NONE	WG	SAIA-MW2C-0814	N	1,1-Dichloroethane	0.50	2.8	2.8	ug/L	
CVOL/NONE	WG	SAIA-MW2C-0814	N	1,2-Dichloroethane	25.0	34.0 D	34.0	ug/L	
CVOL/NONE	WG	SAIA-MW2C-0814	N	1,1-Dichloroethene	0.50	5.2	5.2 J	ug/L	S
CVOL/NONE	WG	SAIA-MW2C-0814	N	cis-1,2-Dichloroethylene	25.0	370 D	370	ug/L	
CVOL/NONE	WG	SAIA-MW2C-0814	N	trans-1,2-Dichloroethene	25.0	33.0 D	33.0	ug/L	
CVOL/NONE	WG	SAIA-MW2C-0814	N	Trichloroethene (TCE)	25.0	200 D	200	ug/L	
CVOL/NONE	WG	SAIA-MW2C-0814	N	Vinyl Chloride	0.50	3.3	3.3	ug/L	
CVOL/NONE	WG	SAIA-MW3A-0814	N	Toluene	0.50	1.3 B	1.3	ug/L	
CVOL/NONE	WG	SAIA-MW3A-0814	N	cis-1,2-Dichloroethylene	0.50	5.8	5.8	ug/L	
CVOL/NONE	WG	SAIA-MW3A-0814	N	trans-1,2-Dichloroethene	0.50	0.15 J	0.15 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3A-0814	N	Styrene	0.50	0.045 J	0.045 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3A-0814	N	Trichloroethene (TCE)	0.50	3.6	3.6	ug/L	
CVOL/NONE	WG	SAIA-MW3B-0814	N	Benzene	0.50	1.5	1.5	ug/L	
CVOL/NONE	WG	SAIA-MW3B-0814	N	Toluene	0.50	1.1 B	1.1	ug/L	
CVOL/NONE	WG	SAIA-MW3B-0814	N	Carbon Disulfide	0.50	1.4	1.4	ug/L	
CVOL/NONE	WG	SAIA-MW3B-0814	N	Methylcyclohexane	0.50	0.28 J	0.28 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3B-0814	N	Cyclohexane	0.50	0.42 J	0.42 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3B-0814	N	1,1-Dichloroethane	0.50	72.0 E	72.0	ug/L	
CVOL/NONE	WG	SAIA-MW3B-0814	N	1,2-Dichloroethane	0.50	2.1	2.1	ug/L	
CVOL/NONE	WG	SAIA-MW3B-0814	N	1,1-Dichloroethene	0.50	20.0 E	20.0 J	ug/L	S
CVOL/NONE	WG	SAIA-MW3B-0814	N	cis-1,2-Dichloroethylene	500	9100 D	9100	ug/L	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW3B-0814	N	trans-1,2-Dichloroethene	500	230 JD	230 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3B-0814	N	Ethylbenzene	0.50	0.13 J	0.13 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3B-0814	N	Isopropylbenzene (Cumene)	0.50	0.19 J	0.19 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3B-0814	N	1,1,2-Trichloroethane	0.50	3.6	3.6	ug/L	
CVOL/NONE	WG	SAIA-MW3B-0814	N	Trichloroethene (TCE)	500	6600 D	6600	ug/L	
CVOL/NONE	WG	SAIA-MW3B-0814	N	Vinyl Chloride	0.50	47.0 E	47.0	ug/L	
CVOL/NONE	WG	SAIA-MW3B-0814	N	o-Xylene	0.50	0.032 J	0.032 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3C-0814	N	Benzene	0.50	0.085 J	0.085 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3C-0814	N	Carbon Disulfide	0.50	0.13 J	0.13 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3C-0814	N	Cyclohexane	0.50	0.14 J	0.14 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3C-0814	N	1,1-Dichloroethane	0.50	0.25 J	0.25 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3C-0814	N	1,2-Dichloroethane	0.50	2.1	2.1	ug/L	
CVOL/NONE	WG	SAIA-MW3C-0814	N	cis-1,2-Dichloroethylene	1.8	27.0 D	27.0	ug/L	
CVOL/NONE	WG	SAIA-MW3C-0814	N	trans-1,2-Dichloroethene	0.50	2.6	2.6	ug/L	
CVOL/NONE	WG	SAIA-MW3C-0814	N	1,2-Dichloropropane	0.50	0.27 J	0.27 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW3C-0814	N	Trichloroethene (TCE)	0.50	6.0	6.0	ug/L	
CVOL/NONE	WG	SAIA-MW3C-0814	N	Vinyl Chloride	0.50	6.1	6.1	ug/L	
CVOL/NONE	WG	SAIA-MW4A-0814	N	1,1-Dichloroethane	0.50	0.34 J	0.34 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4A-0814	N	cis-1,2-Dichloroethylene	0.50	0.72	0.72	ug/L	
CVOL/NONE	WG	SAIA-MW4A-0814	N	Trichloroethene (TCE)	0.50	0.19 J	0.19 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4B-0814	N	Benzene	0.50	0.55	0.55	ug/L	
CVOL/NONE	WG	SAIA-MW4B-0814	N	Carbon Disulfide	0.50	1.3	1.3	ug/L	
CVOL/NONE	WG	SAIA-MW4B-0814	N	Methylcyclohexane	0.50	0.19 J	0.19 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4B-0814	N	Cyclohexane	0.50	0.17 J	0.17 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4B-0814	N	1,1-Dichloroethane	0.50	18.0	18.0	ug/L	
CVOL/NONE	WG	SAIA-MW4B-0814	N	1,2-Dichloroethane	0.50	0.72	0.72	ug/L	
CVOL/NONE	WG	SAIA-MW4B-0814	N	1,1-Dichloroethene	0.50	6.6	6.6 J	ug/L	S

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW4B-0814	N	cis-1,2-Dichloroethylene	250	4800 D	4800	ug/L	
CVOL/NONE	WG	SAIA-MW4B-0814	N	trans-1,2-Dichloroethene	250	180 JD	180 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4B-0814	N	Ethylbenzene	0.50	0.034 J	0.034 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4B-0814	N	1,1,2-Trichloroethane	0.50	1.1	1.1	ug/L	
CVOL/NONE	WG	SAIA-MW4B-0814	N	Trichloroethene (TCE)	250	150 JD	150 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4B-0814	N	Vinyl Chloride	0.50	6.5	6.5	ug/L	
CVOL/NONE	WG	SAIA-MW4C-0814	N	Benzene	0.50	0.19 J	0.19 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4C-0814	N	Toluene	0.50	1.1 B	1.1	ug/L	
CVOL/NONE	WG	SAIA-MW4C-0814	N	Methylcyclohexane	0.50	0.074 J	0.074 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4C-0814	N	Cyclohexane	0.50	0.16 J	0.16 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4C-0814	N	1,1-Dichloroethane	0.50	4.1	4.1	ug/L	
CVOL/NONE	WG	SAIA-MW4C-0814	N	1,2-Dichloroethane	0.50	2.1	2.1	ug/L	
CVOL/NONE	WG	SAIA-MW4C-0814	N	1,1-Dichloroethene	0.50	1.3	1.3	ug/L	
CVOL/NONE	WG	SAIA-MW4C-0814	N	cis-1,2-Dichloroethylene	63.0	910 D	910	ug/L	
CVOL/NONE	WG	SAIA-MW4C-0814	N	trans-1,2-Dichloroethene	63.0	73.0 D	73.0	ug/L	
CVOL/NONE	WG	SAIA-MW4C-0814	N	1,2-Dichloropropane	0.50	0.30 J	0.30 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4C-0814	N	Styrene	0.50	0.074 J	0.074 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW4C-0814	N	Trichloroethene (TCE)	0.50	3.4	3.4	ug/L	
CVOL/NONE	WG	SAIA-MW4C-0814	N	Vinyl Chloride	0.50	11.0	11.0	ug/L	
CVOL/NONE	WG	SAIA-MW7-0814	N	Benzene	0.50	0.14 J	0.14 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW7-0814	N	1,1-Dichloroethane	0.50	0.67	0.67	ug/L	
CVOL/NONE	WG	SAIA-MW7-0814	N	1,2-Dichloroethane	0.50	1.6	1.6	ug/L	
CVOL/NONE	WG	SAIA-MW7-0814	N	1,3-Dichlorobenzene	0.50	0.12 J	0.12 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW7-0814	N	1,1-Dichloroethene	0.50	0.65	0.65	ug/L	
CVOL/NONE	WG	SAIA-MW7-0814	N	cis-1,2-Dichloroethylene	3.1	57.0 D	57.0	ug/L	
CVOL/NONE	WG	SAIA-MW7-0814	N	trans-1,2-Dichloroethene	0.50	2.5	2.5	ug/L	
CVOL/NONE	WG	SAIA-MW7-0814	N	Trichloroethene (TCE)	3.1	22.0 D	22.0	ug/L	

AUTOMATED DATA REVIEW SUMMARY for Y9M67

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW7-0814	N	Vinyl Chloride	0.50	1.3	1.3	ug/L	
CVOL/NONE	WG	SAIA-MW8-0814	N	1,2-Dichloroethane	0.50	0.62	0.62	ug/L	
CVOL/NONE	WG	SAIA-MW8-0814	N	cis-1,2-Dichloroethylene	0.50	1.9	1.9	ug/L	
CVOL/NONE	WG	SAIA-MW8-0814	N	trans-1,2-Dichloroethene	0.50	0.20 J	0.20 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW8-0814	N	Trichloroethene (TCE)	0.50	3.9	3.9	ug/L	
CVOL/NONE	WG	SAIA-MW92A-0814	FD	Benzene	0.50	0.35 J	0.35 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW92A-0814	FD	Methylcyclohexane	0.50	0.16 J	0.16 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW92A-0814	FD	Cyclohexane	0.50	0.15 J	0.15 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW92A-0814	FD	1,1-Dichloroethane	0.50	7.0	7.0	ug/L	
CVOL/NONE	WG	SAIA-MW92A-0814	FD	1,1-Dichloroethene	0.50	7.7	7.7 J	ug/L	S
CVOL/NONE	WG	SAIA-MW92A-0814	FD	cis-1,2-Dichloroethylene	130	2400 D	2400	ug/L	
CVOL/NONE	WG	SAIA-MW92A-0814	FD	trans-1,2-Dichloroethene	130	120 JD	120 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW92A-0814	FD	1,1,2-Trichloroethane	0.50	0.47 J	0.47 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW92A-0814	FD	Trichloroethene (TCE)	130	1300 D	1300	ug/L	
CVOL/NONE	WG	SAIA-MW92A-0814	FD	Vinyl Chloride	0.50	5.3	5.3	ug/L	
CVOL/NONE	WG	SAIA-MW92A-0814	FD	o-Xylene	0.50	0.087 J	0.087 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW94B-0814	FD	Benzene	0.50	0.55	0.55	ug/L	
CVOL/NONE	WG	SAIA-MW94B-0814	FD	Carbon Disulfide	0.50	1.2	1.2	ug/L	
CVOL/NONE	WG	SAIA-MW94B-0814	FD	Methylcyclohexane	0.50	0.18 J	0.18 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW94B-0814	FD	Cyclohexane	0.50	0.17 J	0.17 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW94B-0814	FD	1,1-Dichloroethane	0.50	18.0	18.0	ug/L	
CVOL/NONE	WG	SAIA-MW94B-0814	FD	1,2-Dichloroethane	0.50	0.69	0.69	ug/L	
CVOL/NONE	WG	SAIA-MW94B-0814	FD	1,1-Dichloroethene	0.50	6.6	6.6 J	ug/L	S
CVOL/NONE	WG	SAIA-MW94B-0814	FD	cis-1,2-Dichloroethylene	250	4800 D	4800	ug/L	
CVOL/NONE	WG	SAIA-MW94B-0814	FD	trans-1,2-Dichloroethene	250	180 JD	180 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW94B-0814	FD	1,1,2-Trichloroethane	0.50	1.1	1.1	ug/L	
CVOL/NONE	WG	SAIA-MW94B-0814	FD	Trichloroethene (TCE)	250	150 JD	150 J	ug/L	TR

AUTOMATED DATA REVIEW SUMMARY for Y9M67

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW94B-0814	FD	Vinyl Chloride	0.50	6.5	6.5	ug/L	
CVOL/NONE	WQ	SAIA-RL01-0814	TB	Chloroform	0.50	0.051 J	0.051 J	ug/L	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
WSM0011/NONE	WG	SAIA-MW1A-0814	N	1,4-Dioxane (p-Dioxane)	0.47	1.4	1.4	ug/L	
WSM0011/NONE	WG	SAIA-MW1B-0814	N	1,4-Dioxane (p-Dioxane)	0.46	2.6	2.6	ug/L	
WSM0011/NONE	WG	SAIA-MW1C-0814	N	1,4-Dioxane (p-Dioxane)	2.3	22.0 D	22.0	ug/L	
WSM0011/NONE	WG	SAIA-MW2A-0814	N	1,4-Dioxane (p-Dioxane)	1.4	16.0 D	16.0	ug/L	
WSM0011/NONE	WG	SAIA-MW2B-0814	N	1,4-Dioxane (p-Dioxane)	0.48	1.3	1.3	ug/L	
WSM0011/NONE	WG	SAIA-MW2C-0814	N	1,4-Dioxane (p-Dioxane)	2.4	20.0 D	20.0	ug/L	
WSM0011/NONE	WG	SAIA-MW3B-0814	N	1,4-Dioxane (p-Dioxane)	9.3	86.0 D	86.0	ug/L	
WSM0011/NONE	WG	SAIA-MW4A-0814	N	1,4-Dioxane (p-Dioxane)	0.46	1.8	1.8	ug/L	
WSM0011/NONE	WG	SAIA-MW4B-0814	N	1,4-Dioxane (p-Dioxane)	4.7	60.0 D	60.0	ug/L	
WSM0011/NONE	WG	SAIA-MW4C-0814	N	1,4-Dioxane (p-Dioxane)	0.93	11.0 D	11.0 J	ug/L	S
WSM0011/NONE	WG	SAIA-MW7-0814	N	1,4-Dioxane (p-Dioxane)	0.48	3.6	3.6	ug/L	
WSM0011/NONE	WG	SAIA-MW8-0814	N	1,4-Dioxane (p-Dioxane)	0.48	0.16 J	0.16 J	ug/L	TR
WSM0011/NONE	WG	SAIA-MW92A-0814	FD	1,4-Dioxane (p-Dioxane)	1.4	15.0 D	15.0	ug/L	
WSM0011/NONE	WG	SAIA-MW94B-0814	FD	1,4-Dioxane (p-Dioxane)	4.6	59.0 D	59.0 J	ug/L	S

AUTOMATED DATA REVIEW SUMMARY for Y9M67

Rejected Results

--No Records Found--

Facility:	Southern Avenue Industrial Area
Event:	
Guidance Document:	
Contract Laboratory:	U.S. EPA, Region 9 Lab, Richmond, CA
Field Contractor:	
Data Review Contractor:	Gilbane
SDG:	1704057, Certified - 5/18/2017 by wtse
QC Level:	S2AVEM
Project Manager:	Don Gruber
Data Reviewer:	Thomas Beer
Data Reviewer Title:	Project Chemist
Date of Review Report:	June 20, 2017
Second Reviewer:	
Completion Date of Second Reviewer:	

Analytical Method/ Leach Method	Normal Gaseous Samples	Field QC Gaseous Samples
TO15/NONE	16	1

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by U.S. EPA, Region 9 Lab, Richmond, CA and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

Blank
Blank - Negative
Continuing Calibration Verification
Field Duplicate
Lab Replicate RPD
LCS Recovery
Prep Hold Time
Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

Ambient Blank
Calibration Blank
Calibration Blank - Negative
Equipment Blank
Field Blank
Initial Calibration Verification
Material Blank
MS Recovery
MS RPD
Negative Blank
Surrogate
Trip Blank

A representative sampling or ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 41 results (6.18%) out of the 663 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. Trace values are not counted as qualified results in the above count. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewer checked COC as received, EPA R9 Level 2 Lab Report, Level 3 EDD spreadsheet and Gilbane eDMS ADR detail report.

Analytical Method	Comment
TO15	Calibration issues were identified from laboratory data qualifiers, supplemented by review of the Level 3 EDD results for initial calibration standards, and secondary and continuing calibration checks.

June 20, 2017

Reviewed by Thomas Beer, Project Chemist

Qualified Results

Test Method: TO15	Extraction Method: NONE		Leach Method: NONE		Matrix: GS			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SG44-15	N	1,2,4-Trimethylbenzene	10.0	7.0	7.0 J	-	ug/m3	C11/TR
SAIA-SG44-15	N	Ethylbenzene	10.0	9.0	9.0 J		ug/m3	TR
SAIA-SG44-15	N	Isopropanol	6.0	20.0	20.0 J	+	ug/m3	C11
SAIA-SG44-15	N	Methylene Chloride	8.0	6.0	6.0 J		ug/m3	TR
SAIA-SG44-15	N	o-Xylene	10.0	9.0	9.0 J		ug/m3	TR
SAIA-SG44-25	N	1,2,4-Trimethylbenzene	9.0	10.0	10.0 J	-	ug/m3	C11
SAIA-SG44-25	N	Chlorobenzene	9.0	5.0	5.0 J		ug/m3	TR
SAIA-SG44-25	N	Chloromethane	4.0	2.0	2.0 J	+	ug/m3	C11/TR
SAIA-SG44-25	N	Ethylbenzene	8.0	6.0	6.0 J		ug/m3	TR
SAIA-SG44-25	N	Isopropanol	5.0	20.0	20.0 J	+	ug/m3	C11
SAIA-SG44-25	N	Methylene Chloride	7.0	4.0	4.0 J		ug/m3	TR
SAIA-SG44-35	N	1,1-Dichloroethene	10.0	7.0	7.0 J		ug/m3	TR
SAIA-SG44-35	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG44-35	N	Isopropanol	6.0	20.0	20.0 J	+	ug/m3	C11
SAIA-SG44-5	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG44-5	N	Chloroform	9.0	5.0	5.0 J		ug/m3	TR
SAIA-SG44-5	N	Ethylbenzene	8.0	5.0	5.0 J		ug/m3	TR
SAIA-SG44-5	N	Isopropanol	5.0	90.0	90.0 J	+	ug/m3	C11
SAIA-SG44-5	N	Methylene Chloride	7.0	4.0	4.0 J		ug/m3	TR
SAIA-SG44-5	N	o-Xylene	8.0	6.0	6.0 J		ug/m3	TR
SAIA-SG45-15	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG45-15	N	Ethylbenzene	10.0	6.0	6.0 J		ug/m3	TR
SAIA-SG45-15	N	Isopropanol	5.0	20.0	20.0 J	+	ug/m3	C11/D5
SAIA-SG45-15	N	Methylene Chloride	8.0	6.0	6.0 J		ug/m3	TR
SAIA-SG45-15	N	o-Xylene	10.0	7.0	7.0 J		ug/m3	TR
SAIA-SG45-15	N	Tetrachloroethene (PCE)	20.0	10.0	10.0 J		ug/m3	TR
SAIA-SG45-15	N	Toluene	8.0	100	100 J		ug/m3	D5
SAIA-SG45-16	FD	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG45-16	FD	Ethylbenzene	9.0	8.0	8.0 J		ug/m3	TR
SAIA-SG45-16	FD	Isopropanol	5.0	10.0	10.0 J	+	ug/m3	C11/D5
SAIA-SG45-16	FD	Methylene Chloride	7.0	6.0	6.0 J		ug/m3	TR
SAIA-SG45-16	FD	o-Xylene	9.0	8.0	8.0 J		ug/m3	TR
SAIA-SG45-16	FD	Toluene	30.0	200	200 J		ug/m3	D5
SAIA-SG45-25	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG45-25	N	Isopropanol	6.0	6.0	6.0 J	+	ug/m3	C11
SAIA-SG45-25	N	m,p-Xylene	20.0	10.0	10.0 J		ug/m3	TR
SAIA-SG45-25	N	Methylene Chloride	8.0	4.0	4.0 J		ug/m3	TR
SAIA-SG45-35	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG45-35	N	Benzene	8.0	5.0	5.0 J		ug/m3	TR
SAIA-SG45-35	N	Isopropanol	6.0	20.0	20.0 J	+	ug/m3	C11
SAIA-SG45-5	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11

Qualified Results

Test Method: TO15	Extraction Method: NONE		Leach Method: NONE		Matrix: GS			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SG45-5	N	Benzene	8.0	6.0	6.0 J		ug/m3	TR
SAIA-SG45-5	N	Isopropanol	6.0	20.0	20.0 J	+	ug/m3	C11
SAIA-SG45-5	N	Tetrachloroethene (PCE)	20.0	10.0	10.0 J		ug/m3	TR
SAIA-SG46-05	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG46-05	N	Isopropanol	5.0	4.0	4.0 J	+	ug/m3	C11/TR
SAIA-SG46-05	N	Toluene	8.0	7.0	7.0 J		ug/m3	TR
SAIA-SG46-15	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG46-15	N	Chloromethane	5.0	3.0	3.0 J	+	ug/m3	C11/TR
SAIA-SG46-15	N	Isopropanol	6.0	20.0	20.0 J	+	ug/m3	C11
SAIA-SG46-15	N	m,p-Xylene	20.0	10.0	10.0 J		ug/m3	TR
SAIA-SG46-15	N	Methylene Chloride	9.0	6.0	6.0 J		ug/m3	TR
SAIA-SG46-25	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG46-25	N	Chloromethane	5.0	2.0	2.0 J	+	ug/m3	C11/TR
SAIA-SG46-25	N	Ethylbenzene	10.0	5.0	5.0 J		ug/m3	TR
SAIA-SG46-25	N	Isopropanol	6.0	10.0	10.0 J	+	ug/m3	C11
SAIA-SG46-25	N	m,p-Xylene	20.0	10.0	10.0 J		ug/m3	TR
SAIA-SG46-25	N	Methylene Chloride	8.0	5.0	5.0 J		ug/m3	TR
SAIA-SG46-25	N	o-Xylene	10.0	5.0	5.0 J		ug/m3	TR
SAIA-SG46-25	N	Tetrachloroethene (PCE)	20.0	10.0	10.0 J		ug/m3	TR
SAIA-SG46-35	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG46-35	N	Chloromethane	4.0	7.0	7.0 J	+	ug/m3	C11
SAIA-SG46-35	N	Isopropanol	5.0	10.0	10.0 J	+	ug/m3	C11
SAIA-SG46-35	N	Methylene Chloride	7.0	5.0	5.0 J		ug/m3	TR
SAIA-SG46-35	N	Tetrachloroethene (PCE)	10.0	8.0	8.0 J		ug/m3	TR
SAIA-SG47-05	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG47-05	N	Chloroform	10.0	7.0	7.0 J		ug/m3	TR
SAIA-SG47-05	N	Isopropanol	5.0	4.0	4.0 J	+	ug/m3	C11/TR
SAIA-SG47-05	N	Methylene Chloride	8.0	4.0	4.0 J		ug/m3	TR
SAIA-SG47-05	N	Tetrachloroethene (PCE)	10.0	9.0	9.0 J		ug/m3	TR
SAIA-SG47-15	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG47-15	N	Benzene	9.0	8.0	8.0 J		ug/m3	TR
SAIA-SG47-15	N	Isopropanol	7.0	3.0	3.0 J	+	ug/m3	C11/TR
SAIA-SG47-15	N	m,p-Xylene	20.0	10.0	10.0 J		ug/m3	TR
SAIA-SG47-15	N	Methylene Chloride	10.0	5.0	5.0 J		ug/m3	TR
SAIA-SG47-15	N	Tetrachloroethene (PCE)	20.0	10.0	10.0 J		ug/m3	TR
SAIA-SG47-25	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG47-25	N	Chloromethane	5.0	3.0	3.0 J	+	ug/m3	C11/TR
SAIA-SG47-25	N	Isopropanol	5.0	6.0	6.0 J	+	ug/m3	C11
SAIA-SG47-25	N	m,p-Xylene	20.0	10.0	10.0 J		ug/m3	TR
SAIA-SG47-25	N	Methylene Chloride	8.0	6.0	6.0 J		ug/m3	TR
SAIA-SG47-25	N	o-Xylene	10.0	5.0	5.0 J		ug/m3	TR
SAIA-SG47-25	N	Tetrachloroethene (PCE)	10.0	8.0	8.0 J		ug/m3	TR

Qualified Results

Test Method: TO15	Extraction Method: NONE		Leach Method: NONE		Matrix: GS			
FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SG47-35	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG47-35	N	cis-1,2-Dichloroethylene	10.0	7.0	7.0 J		ug/m3	TR
SAIA-SG47-35	N	Isopropanol	7.0	8.0	8.0 J	+	ug/m3	C11
SAIA-SG47-35	N	m,p-Xylene	20.0	10.0	10.0 J		ug/m3	TR
SAIA-SG47-35	N	Tetrachloroethene (PCE)	20.0	10.0	10.0 J		ug/m3	TR

Reason Code Definitions

Code	Definition
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
D5	Field duplicate precision
TR	Trace Level Detect

Flag Code and Definitions

Flag	Definition
J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

Automated Data Review Detail Report for 1704057
Southern Avenue Industrial Area

Batch Report

Test Method: TO15 Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
LABQC	GQ	LABQC	S17D133-CAL1	NA	1/1	4/26/2017 13:23		4/26/2017 13:23	/	CV
LABQC	GQ	LABQC	S17D133-CAL2	NA	1/1	4/26/2017 14:07		4/26/2017 14:07	/	CV
LABQC	GQ	LABQC	S17D133-CAL3	NA	1/1	4/26/2017 14:51		4/26/2017 14:51	/	CV
LABQC	GQ	LABQC	S17D133-CAL4	NA	1/1	4/26/2017 15:36		4/26/2017 15:36	/	CV
LABQC	GQ	LABQC	S17D133-CAL5	NA	1/1	4/26/2017 16:21		4/26/2017 16:21	/	CV
LABQC	GQ	LABQC	S17D133-CAL6	NA	1/1	4/26/2017 17:07		4/26/2017 17:07	/	CV
LABQC	GQ	LABQC	S17D133-SCV1	NA	1/1	4/26/2017 17:54		4/26/2017 17:54	/	CV
LABQC	GQ	LABQC	B17D168-BS1	NA	1/1	4/28/2017 13:15		4/28/2017 13:15	/	BS
LABQC	GQ	LABQC	S17D153-CCV1	NA	1/1	4/28/2017 13:15		4/28/2017 13:15	/	CV
LABQC	GQ	LABQC	B17D168-BLK1	NA	1/1	4/28/2017 14:45		4/28/2017 14:45	/	LB
SAIA-SB/SG44	GS	SAIA-SG44-5	1704057-01	NA	1/1.94	4/27/2017 08:35		4/28/2017 16:17	/	N
SAIA-SB/SG44	GS	SAIA-SG44-15	1704057-02	NA	1/2.28	4/27/2017 08:58		4/28/2017 17:03	/	N
SAIA-SB/SG44	GS	SAIA-SG44-25	1704057-03	NA	1/1.91	4/27/2017 09:15		4/28/2017 17:49	/	N
SAIA-SB/SG44	GS	SAIA-SG44-35	1704057-04	NA	1/2.62	4/27/2017 09:28		4/28/2017 18:35	/	N
SAIA-SB/SG45	GS	SAIA-SG45-5	1704057-05	NA	1/2.56	4/27/2017 09:47		4/28/2017 19:21	/	N
SAIA-SB/SG45	GS	SAIA-SG45-15	1704057-06	NA	1/2.22	4/27/2017 10:15		4/28/2017 20:53	/	N
SAIA-SB/SG45	GS	SAIA-SG45-16	1704057-07	NA	1/2.09	4/27/2017 10:19		4/28/2017 21:40	/	FD
SAIA-SB/SG45	GS	SAIA-SG45-25	1704057-08	NA	1/2.37	4/27/2017 10:27		4/28/2017 22:26	/	N
SAIA-SB/SG45	GS	SAIA-SG45-35	1704057-09	NA	1/2.44	4/27/2017 10:37		4/28/2017 23:12	/	N
SAIA-SB/SG46	GS	SAIA-SG46-05	1704057-10	NA	1/2.1	4/27/2017 10:52		4/28/2017 23:58	/	N
SAIA-SB/SG46	GS	SAIA-SG46-15	1704057-11	NA	1/2.51	4/27/2017 11:09		4/29/2017 01:30	/	N
SAIA-SB/SG46	GS	SAIA-SG46-25	1704057-12	NA	1/2.31	4/27/2017 11:17		4/29/2017 02:16	/	N
SAIA-SB/SG46	GS	SAIA-SG46-35	1704057-13	NA	1/2.06	4/27/2017 11:27		4/29/2017 03:02	/	N
SAIA-SB/SG47	GS	SAIA-SG47-05	1704057-14	NA	1/2.17	4/27/2017 11:42		4/29/2017 03:48	/	N
SAIA-SB/SG47	GS	SAIA-SG47-15	1704057-15	NA	1/2.74	4/27/2017 11:52		4/29/2017 04:33	/	N
SAIA-SB/SG47	GS	SAIA-SG47-25	1704057-16	NA	1/2.19	4/27/2017 12:02		4/29/2017 06:06	/	N

Batch Report

Test Method: TO15 Analysis Batch: NA

Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extraction Date/Time	Analysis Date/Time	Prep/Leach Batch	Sample Type
SAIA-SB/SG47	GS	SAIA-SG47-35	1704057-17	NA	1/2.66	4/27/2017 12:12		4/29/2017 06:52	/	N
LABQC	GQ	LABQC	B17E020-BS1	NA	1/1	5/1/2017 12:14		5/1/2017 12:14	/	BS
LABQC	GQ	LABQC	S17E006-CCV1	NA	1/1	5/1/2017 12:14		5/1/2017 12:14	/	CV
LABQC	GQ	LABQC	B17E020-BLK1	NA	1/1	5/1/2017 13:52		5/1/2017 13:52	/	LB
SAIA-SB/SG45	GS	SAIA-SG45-16	1704057-07RE1	NA	1/3.64	4/27/2017 10:19		5/1/2017 15:15	/	FD
SAIA-SB/SG46	GS	SAIA-SG46-25	1704057-12RE1	NA	1/3.86	4/27/2017 11:17		5/1/2017 15:59	/	N
SAIA-SB/SG47	GS	SAIA-SG47-35	1704057-17RE1	NA	1/4.47	4/27/2017 12:12		5/1/2017 16:44	/	N
SAIA-SB/SG45	GS	SAIA-SG45-25	1704057-08RE1	NA	1/7.94	4/27/2017 10:27		5/1/2017 17:28	/	N
SAIA-SB/SG45	GS	SAIA-SG45-25	B17E020-DUP1	NA	1/7.94	4/27/2017 10:27		5/1/2017 18:12	/	LR
SAIA-SB/SG45	GS	SAIA-SG45-35	1704057-09RE1	NA	1/8.31	4/27/2017 10:37		5/1/2017 20:27	/	N
LABQC	GQ	LABQC	B17E028-BS1	NA	1/1	5/2/2017 11:59		5/2/2017 11:59	/	BS
LABQC	GQ	LABQC	S17E017-CCV1	NA	1/1	5/2/2017 11:59		5/2/2017 11:59	/	CV
LABQC	GQ	LABQC	B17E028-BLK1	NA	1/1	5/2/2017 13:48		5/2/2017 13:48	/	LB
SAIA-SB/SG46	GS	SAIA-SG46-35	1704057-13RE2	NA	1/16.08	4/27/2017 11:27		5/2/2017 14:32	/	N

Field Batch Report

--No Records Found--

MS Mismatch Report

--No Records Found--

Section to identify Matrix Spike mismatches where parent sample differs from MS by dilution.

QC Outlier Report

Test Method: TO15 Extraction Method: NONE Leach Method: NONE

QC Element	Sample ID/ Lab Sample ID	Run#/ Dil'n	Analyte	Result (Units)	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
Continuing Calibration Verification	S17D133-CAL1 (CV) / S17D133-CAL1	1 / 1.00	1,2,4-Trimethylbenzene	68.9 (percent)	J/UJ	70 - 130	50 - 140	C11			
Continuing Calibration Verification	S17D133-CAL1 (CV) / S17D133-CAL1	1 / 1.00	Benzyl chloride	69.1 (percent)	J/UJ	70 - 130	50 - 140	C11			
Continuing Calibration Verification	S17D133-CAL2 (CV) / S17D133-CAL2	1 / 1.00	Benzyl chloride	63.6 (percent)	J/UJ	70 - 130	50 - 140	C11			
Continuing Calibration Verification	S17D133-SCV1 (CV) / S17D133-SCV1	1 / 1.00	2-Hexanone	132 (percent)	J/None	70 - 130	50 - 140	C11			
Continuing Calibration Verification	S17D133-SCV1 (CV) / S17D133-SCV1	1 / 1.00	Benzyl chloride	151 (percent)	J/None	70 - 130	50 - 140	C11			
Continuing Calibration Verification	S17D133-SCV1 (CV) / S17D133-SCV1	1 / 1.00	Chloromethane	141 (percent)	J/None	70 - 130	50 - 140	C11			
Continuing Calibration Verification	S17D133-SCV1 (CV) / S17D133-SCV1	1 / 1.00	Isopropanol	137 (percent)	J/None	70 - 130	50 - 140	C11			
Continuing Calibration Verification	S17D133-SCV1 (CV) / S17D133-SCV1	1 / 1.00	Vinyl Acetate	137 (percent)	J/None	70 - 130	50 - 140	C11			

Rule is the multiplier used when blank contamination occurs to determine action level.

Qualified Results

Test Method: TO15 Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SG44-15	1704057-02	GS	N	1,2,4-Trimethylbenzene	10.0	7.0	7.0 J	-	ug/m3	C11/TR
SAIA-SG44-15	1704057-02	GS	N	Ethylbenzene	10.0	9.0	9.0 J		ug/m3	TR
SAIA-SG44-15	1704057-02	GS	N	Isopropanol	6.0	20.0	20.0 J	+	ug/m3	C11
SAIA-SG44-15	1704057-02	GS	N	Methylene Chloride	8.0	6.0	6.0 J		ug/m3	TR
SAIA-SG44-15	1704057-02	GS	N	o-Xylene	10.0	9.0	9.0 J		ug/m3	TR
SAIA-SG44-25	1704057-03	GS	N	1,2,4-Trimethylbenzene	9.0	10.0	10.0 J	-	ug/m3	C11
SAIA-SG44-25	1704057-03	GS	N	Chlorobenzene	9.0	5.0	5.0 J		ug/m3	TR
SAIA-SG44-25	1704057-03	GS	N	Chloromethane	4.0	2.0	2.0 J	+	ug/m3	C11/TR
SAIA-SG44-25	1704057-03	GS	N	Ethylbenzene	8.0	6.0	6.0 J		ug/m3	TR
SAIA-SG44-25	1704057-03	GS	N	Isopropanol	5.0	20.0	20.0 J	+	ug/m3	C11
SAIA-SG44-25	1704057-03	GS	N	Methylene Chloride	7.0	4.0	4.0 J		ug/m3	TR
SAIA-SG44-35	1704057-04	GS	N	1,1-Dichloroethene	10.0	7.0	7.0 J		ug/m3	TR
SAIA-SG44-35	1704057-04	GS	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG44-35	1704057-04	GS	N	Isopropanol	6.0	20.0	20.0 J	+	ug/m3	C11
SAIA-SG44-5	1704057-01	GS	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG44-5	1704057-01	GS	N	Chloroform	9.0	5.0	5.0 J		ug/m3	TR
SAIA-SG44-5	1704057-01	GS	N	Ethylbenzene	8.0	5.0	5.0 J		ug/m3	TR
SAIA-SG44-5	1704057-01	GS	N	Isopropanol	5.0	90.0	90.0 J	+	ug/m3	C11
SAIA-SG44-5	1704057-01	GS	N	Methylene Chloride	7.0	4.0	4.0 J		ug/m3	TR
SAIA-SG44-5	1704057-01	GS	N	o-Xylene	8.0	6.0	6.0 J		ug/m3	TR
SAIA-SG45-15	1704057-06	GS	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG45-15	1704057-06	GS	N	Ethylbenzene	10.0	6.0	6.0 J		ug/m3	TR
SAIA-SG45-15	1704057-06	GS	N	Isopropanol	5.0	20.0	20.0 J	+	ug/m3	C11/D5
SAIA-SG45-15	1704057-06	GS	N	Methylene Chloride	8.0	6.0	6.0 J		ug/m3	TR
SAIA-SG45-15	1704057-06	GS	N	o-Xylene	10.0	7.0	7.0 J		ug/m3	TR
SAIA-SG45-15	1704057-06	GS	N	Tetrachloroethene (PCE)	20.0	10.0	10.0 J		ug/m3	TR
SAIA-SG45-15	1704057-06	GS	N	Toluene	8.0	100	100 J		ug/m3	D5

Qualified Results

Test Method: TO15 Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SG45-16	1704057-07	GS	FD	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG45-16	1704057-07	GS	FD	Ethylbenzene	9.0	8.0	8.0 J		ug/m3	TR
SAIA-SG45-16	1704057-07	GS	FD	Isopropanol	5.0	10.0	10.0 J	+	ug/m3	C11/D5
SAIA-SG45-16	1704057-07	GS	FD	Methylene Chloride	7.0	6.0	6.0 J		ug/m3	TR
SAIA-SG45-16	1704057-07	GS	FD	o-Xylene	9.0	8.0	8.0 J		ug/m3	TR
SAIA-SG45-16	1704057-07RE1	GS	FD	Toluene	30.0	200	200 J		ug/m3	D5
SAIA-SG45-25	1704057-08	GS	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG45-25	1704057-08	GS	N	Isopropanol	6.0	6.0	6.0 J	+	ug/m3	C11
SAIA-SG45-25	1704057-08	GS	N	m,p-Xylene	20.0	10.0	10.0 J		ug/m3	TR
SAIA-SG45-25	1704057-08	GS	N	Methylene Chloride	8.0	4.0	4.0 J		ug/m3	TR
SAIA-SG45-35	1704057-09	GS	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG45-35	1704057-09	GS	N	Benzene	8.0	5.0	5.0 J		ug/m3	TR
SAIA-SG45-35	1704057-09	GS	N	Isopropanol	6.0	20.0	20.0 J	+	ug/m3	C11
SAIA-SG45-5	1704057-05	GS	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG45-5	1704057-05	GS	N	Benzene	8.0	6.0	6.0 J		ug/m3	TR
SAIA-SG45-5	1704057-05	GS	N	Isopropanol	6.0	20.0	20.0 J	+	ug/m3	C11
SAIA-SG45-5	1704057-05	GS	N	Tetrachloroethene (PCE)	20.0	10.0	10.0 J		ug/m3	TR
SAIA-SG46-05	1704057-10	GS	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG46-05	1704057-10	GS	N	Isopropanol	5.0	4.0	4.0 J	+	ug/m3	C11/TR
SAIA-SG46-05	1704057-10	GS	N	Toluene	8.0	7.0	7.0 J		ug/m3	TR
SAIA-SG46-15	1704057-11	GS	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG46-15	1704057-11	GS	N	Chloromethane	5.0	3.0	3.0 J	+	ug/m3	C11/TR
SAIA-SG46-15	1704057-11	GS	N	Isopropanol	6.0	20.0	20.0 J	+	ug/m3	C11
SAIA-SG46-15	1704057-11	GS	N	m,p-Xylene	20.0	10.0	10.0 J		ug/m3	TR
SAIA-SG46-15	1704057-11	GS	N	Methylene Chloride	9.0	6.0	6.0 J		ug/m3	TR
SAIA-SG46-25	1704057-12	GS	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG46-25	1704057-12	GS	N	Chloromethane	5.0	2.0	2.0 J	+	ug/m3	C11/TR

Qualified Results

Test Method: TO15 Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SG46-25	1704057-12	GS	N	Ethylbenzene	10.0	5.0	5.0 J		ug/m3	TR
SAIA-SG46-25	1704057-12	GS	N	Isopropanol	6.0	10.0	10.0 J	+	ug/m3	C11
SAIA-SG46-25	1704057-12	GS	N	m,p-Xylene	20.0	10.0	10.0 J		ug/m3	TR
SAIA-SG46-25	1704057-12	GS	N	Methylene Chloride	8.0	5.0	5.0 J		ug/m3	TR
SAIA-SG46-25	1704057-12	GS	N	o-Xylene	10.0	5.0	5.0 J		ug/m3	TR
SAIA-SG46-25	1704057-12	GS	N	Tetrachloroethene (PCE)	20.0	10.0	10.0 J		ug/m3	TR
SAIA-SG46-35	1704057-13	GS	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG46-35	1704057-13	GS	N	Chloromethane	4.0	7.0	7.0 J	+	ug/m3	C11
SAIA-SG46-35	1704057-13	GS	N	Isopropanol	5.0	10.0	10.0 J	+	ug/m3	C11
SAIA-SG46-35	1704057-13	GS	N	Methylene Chloride	7.0	5.0	5.0 J		ug/m3	TR
SAIA-SG46-35	1704057-13	GS	N	Tetrachloroethene (PCE)	10.0	8.0	8.0 J		ug/m3	TR
SAIA-SG47-05	1704057-14	GS	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG47-05	1704057-14	GS	N	Chloroform	10.0	7.0	7.0 J		ug/m3	TR
SAIA-SG47-05	1704057-14	GS	N	Isopropanol	5.0	4.0	4.0 J	+	ug/m3	C11/TR
SAIA-SG47-05	1704057-14	GS	N	Methylene Chloride	8.0	4.0	4.0 J		ug/m3	TR
SAIA-SG47-05	1704057-14	GS	N	Tetrachloroethene (PCE)	10.0	9.0	9.0 J		ug/m3	TR
SAIA-SG47-15	1704057-15	GS	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG47-15	1704057-15	GS	N	Benzene	9.0	8.0	8.0 J		ug/m3	TR
SAIA-SG47-15	1704057-15	GS	N	Isopropanol	7.0	3.0	3.0 J	+	ug/m3	C11/TR
SAIA-SG47-15	1704057-15	GS	N	m,p-Xylene	20.0	10.0	10.0 J		ug/m3	TR
SAIA-SG47-15	1704057-15	GS	N	Methylene Chloride	10.0	5.0	5.0 J		ug/m3	TR
SAIA-SG47-15	1704057-15	GS	N	Tetrachloroethene (PCE)	20.0	10.0	10.0 J		ug/m3	TR
SAIA-SG47-25	1704057-16	GS	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG47-25	1704057-16	GS	N	Chloromethane	5.0	3.0	3.0 J	+	ug/m3	C11/TR
SAIA-SG47-25	1704057-16	GS	N	Isopropanol	5.0	6.0	6.0 J	+	ug/m3	C11
SAIA-SG47-25	1704057-16	GS	N	m,p-Xylene	20.0	10.0	10.0 J		ug/m3	TR
SAIA-SG47-25	1704057-16	GS	N	Methylene Chloride	8.0	6.0	6.0 J		ug/m3	TR

Qualified Results

Test Method: TO15 Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Analyte	RL	Lab Result	Qualified Result	Bias	Units	Reason
SAIA-SG47-25	1704057-16	GS	N	o-Xylene	10.0	5.0	5.0 J		ug/m3	TR
SAIA-SG47-25	1704057-16	GS	N	Tetrachloroethene (PCE)	10.0	8.0	8.0 J		ug/m3	TR
SAIA-SG47-35	1704057-17	GS	N	1,2,4-Trimethylbenzene	10.0	10.0 U	10.0 UJ	-	ug/m3	C11
SAIA-SG47-35	1704057-17	GS	N	cis-1,2-Dichloroethylene	10.0	7.0	7.0 J		ug/m3	TR
SAIA-SG47-35	1704057-17	GS	N	Isopropanol	7.0	8.0	8.0 J	+	ug/m3	C11
SAIA-SG47-35	1704057-17	GS	N	m,p-Xylene	20.0	10.0	10.0 J		ug/m3	TR
SAIA-SG47-35	1704057-17	GS	N	Tetrachloroethene (PCE)	20.0	10.0	10.0 J		ug/m3	TR

Detected Results

Test Method: TO15 Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SAIA-SG44-15	1704057-02	GS	N	2	1,1-Dichloroethene	9.0	10.0	10.0	ug/m3	
SAIA-SG44-15	1704057-02	GS	N	2	1,2,4-Trimethylbenzene	10.0	7.0	7.0 J	ug/m3	C11/TR
SAIA-SG44-15	1704057-02	GS	N	2	Benzene	7.0	40.0	40.0	ug/m3	
SAIA-SG44-15	1704057-02	GS	N	2	cis-1,2-Dichloroethylene	9.0	10.0	10.0	ug/m3	
SAIA-SG44-15	1704057-02	GS	N	2	Ethylbenzene	10.0	9.0	9.0 J	ug/m3	TR
SAIA-SG44-15	1704057-02	GS	N	2	Isopropanol	6.0	20.0	20.0 J	ug/m3	C11
SAIA-SG44-15	1704057-02	GS	N	2	m,p-Xylene	20.0	30.0	30.0	ug/m3	
SAIA-SG44-15	1704057-02	GS	N	2	Methylene Chloride	8.0	6.0	6.0 J	ug/m3	TR
SAIA-SG44-15	1704057-02	GS	N	2	o-Xylene	10.0	9.0	9.0 J	ug/m3	TR
SAIA-SG44-15	1704057-02	GS	N	2	Tetrachloroethene (PCE)	20.0	30.0	30.0	ug/m3	
SAIA-SG44-15	1704057-02	GS	N	2	Toluene	9.0	80.0	80.0	ug/m3	
SAIA-SG44-15	1704057-02	GS	N	2	Trichloroethene (TCE)	10.0	40.0	40.0	ug/m3	
SAIA-SG44-15	1704057-02	GS	N	2	Vinyl Chloride	6.0	40.0	40.0	ug/m3	
SAIA-SG44-25	1704057-03	GS	N	2	1,1-Dichloroethene	8.0	10.0	10.0	ug/m3	
SAIA-SG44-25	1704057-03	GS	N	2	1,2,4-Trimethylbenzene	9.0	10.0	10.0 J	ug/m3	C11
SAIA-SG44-25	1704057-03	GS	N	2	Benzene	6.0	10.0	10.0	ug/m3	
SAIA-SG44-25	1704057-03	GS	N	2	Chlorobenzene	9.0	5.0	5.0 J	ug/m3	TR
SAIA-SG44-25	1704057-03	GS	N	2	Chloromethane	4.0	2.0	2.0 J	ug/m3	C11/TR
SAIA-SG44-25	1704057-03	GS	N	2	cis-1,2-Dichloroethylene	8.0	30.0	30.0	ug/m3	
SAIA-SG44-25	1704057-03	GS	N	2	Ethylbenzene	8.0	6.0	6.0 J	ug/m3	TR
SAIA-SG44-25	1704057-03	GS	N	2	Isopropanol	5.0	20.0	20.0 J	ug/m3	C11
SAIA-SG44-25	1704057-03	GS	N	2	m,p-Xylene	20.0	20.0	20.0	ug/m3	
SAIA-SG44-25	1704057-03	GS	N	2	Methylene Chloride	7.0	4.0	4.0 J	ug/m3	TR
SAIA-SG44-25	1704057-03	GS	N	2	o-Xylene	8.0	8.0	8.0	ug/m3	
SAIA-SG44-25	1704057-03	GS	N	2	Toluene	7.0	60.0	60.0	ug/m3	
SAIA-SG44-25	1704057-03	GS	N	2	Trichloroethene (TCE)	10.0	50.0	50.0	ug/m3	
SAIA-SG44-25	1704057-03	GS	N	2	Vinyl Chloride	5.0	30.0	30.0	ug/m3	

Detected Results

Test Method: TO15 Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SAIA-SG44-35	1704057-04	GS	N	3	1,1-Dichloroethene	10.0	7.0	7.0 J	ug/m3	TR
SAIA-SG44-35	1704057-04	GS	N	3	Benzene	8.0	10.0	10.0	ug/m3	
SAIA-SG44-35	1704057-04	GS	N	3	cis-1,2-Dichloroethylene	10.0	20.0	20.0	ug/m3	
SAIA-SG44-35	1704057-04	GS	N	3	Isopropanol	6.0	20.0	20.0 J	ug/m3	C11
SAIA-SG44-35	1704057-04	GS	N	3	Tetrachloroethene (PCE)	20.0	20.0	20.0	ug/m3	
SAIA-SG44-35	1704057-04	GS	N	3	Toluene	10.0	40.0	40.0	ug/m3	
SAIA-SG44-35	1704057-04	GS	N	3	Trichloroethene (TCE)	10.0	40.0	40.0	ug/m3	
SAIA-SG44-35	1704057-04	GS	N	3	Vinyl Chloride	7.0	20.0	20.0	ug/m3	
SAIA-SG44-5	1704057-01	GS	N	2	Chloroform	9.0	5.0	5.0 J	ug/m3	TR
SAIA-SG44-5	1704057-01	GS	N	2	Ethylbenzene	8.0	5.0	5.0 J	ug/m3	TR
SAIA-SG44-5	1704057-01	GS	N	2	Isopropanol	5.0	90.0	90.0 J	ug/m3	C11
SAIA-SG44-5	1704057-01	GS	N	2	m,p-Xylene	20.0	20.0	20.0	ug/m3	
SAIA-SG44-5	1704057-01	GS	N	2	Methylene Chloride	7.0	4.0	4.0 J	ug/m3	TR
SAIA-SG44-5	1704057-01	GS	N	2	o-Xylene	8.0	6.0	6.0 J	ug/m3	TR
SAIA-SG44-5	1704057-01	GS	N	2	Toluene	7.0	40.0	40.0	ug/m3	
SAIA-SG45-15	1704057-06	GS	N	2	Benzene	7.0	30.0	30.0	ug/m3	
SAIA-SG45-15	1704057-06	GS	N	2	Chloroform	10.0	30.0	30.0	ug/m3	
SAIA-SG45-15	1704057-06	GS	N	2	Ethylbenzene	10.0	6.0	6.0 J	ug/m3	TR
SAIA-SG45-15	1704057-06	GS	N	2	Isopropanol	5.0	20.0	20.0 J	ug/m3	C11/D5
SAIA-SG45-15	1704057-06	GS	N	2	m,p-Xylene	20.0	20.0	20.0	ug/m3	
SAIA-SG45-15	1704057-06	GS	N	2	Methylene Chloride	8.0	6.0	6.0 J	ug/m3	TR
SAIA-SG45-15	1704057-06	GS	N	2	o-Xylene	10.0	7.0	7.0 J	ug/m3	TR
SAIA-SG45-15	1704057-06	GS	N	2	Tetrachloroethene (PCE)	20.0	10.0	10.0 J	ug/m3	TR
SAIA-SG45-15	1704057-06	GS	N	2	Toluene	8.0	100	100 J	ug/m3	D5
SAIA-SG45-15	1704057-06	GS	N	2	Trichloroethene (TCE)	10.0	20.0	20.0	ug/m3	
SAIA-SG45-16	1704057-07	GS	FD	2	Benzene	7.0	40.0	40.0	ug/m3	
SAIA-SG45-16	1704057-07	GS	FD	2	Chloroform	10.0	40.0	40.0	ug/m3	

Detected Results

Test Method: TO15 Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SAIA-SG45-16	1704057-07	GS	FD	2	Ethylbenzene	9.0	8.0	8.0 J	ug/m3	TR
SAIA-SG45-16	1704057-07	GS	FD	2	Isopropanol	5.0	10.0	10.0 J	ug/m3	C11/D5
SAIA-SG45-16	1704057-07	GS	FD	2	m,p-Xylene	20.0	20.0	20.0	ug/m3	
SAIA-SG45-16	1704057-07	GS	FD	2	Methylene Chloride	7.0	6.0	6.0 J	ug/m3	TR
SAIA-SG45-16	1704057-07	GS	FD	2	o-Xylene	9.0	8.0	8.0 J	ug/m3	TR
SAIA-SG45-16	1704057-07	GS	FD	2	Tetrachloroethene (PCE)	10.0	10.0	10.0	ug/m3	
SAIA-SG45-16	1704057-07	GS	FD	2	Trichloroethene (TCE)	10.0	20.0	20.0	ug/m3	
SAIA-SG45-16	1704057-07RE1	GS	FD	4	Toluene	30.0	200	200 J	ug/m3	D5
SAIA-SG45-25	1704057-08	GS	N	2	1,1-Dichloroethane	10.0	30.0	30.0	ug/m3	
SAIA-SG45-25	1704057-08	GS	N	2	1,1-Dichloroethene	9.0	100	100	ug/m3	
SAIA-SG45-25	1704057-08	GS	N	2	Benzene	8.0	9.0	9.0	ug/m3	
SAIA-SG45-25	1704057-08	GS	N	2	Isopropanol	6.0	6.0	6.0 J	ug/m3	C11
SAIA-SG45-25	1704057-08	GS	N	2	m,p-Xylene	20.0	10.0	10.0 J	ug/m3	TR
SAIA-SG45-25	1704057-08	GS	N	2	Methylene Chloride	8.0	4.0	4.0 J	ug/m3	TR
SAIA-SG45-25	1704057-08	GS	N	2	Tetrachloroethene (PCE)	20.0	20.0	20.0	ug/m3	
SAIA-SG45-25	1704057-08	GS	N	2	Vinyl Chloride	6.0	60.0	60.0	ug/m3	
SAIA-SG45-25	1704057-08RE1	GS	N	8	cis-1,2-Dichloroethylene	200	900	900	ug/m3	
SAIA-SG45-25	1704057-08RE1	GS	N	8	Toluene	100	200	200	ug/m3	
SAIA-SG45-25	1704057-08RE1	GS	N	8	Trichloroethene (TCE)	200	3500	3500	ug/m3	
SAIA-SG45-35	1704057-09	GS	N	2	1,1-Dichloroethane	10.0	30.0	30.0	ug/m3	
SAIA-SG45-35	1704057-09	GS	N	2	1,1-Dichloroethene	10.0	100	100	ug/m3	
SAIA-SG45-35	1704057-09	GS	N	2	Benzene	8.0	5.0	5.0 J	ug/m3	TR
SAIA-SG45-35	1704057-09	GS	N	2	Isopropanol	6.0	20.0	20.0 J	ug/m3	C11
SAIA-SG45-35	1704057-09	GS	N	2	Tetrachloroethene (PCE)	20.0	30.0	30.0	ug/m3	
SAIA-SG45-35	1704057-09	GS	N	2	Toluene	9.0	100	100	ug/m3	
SAIA-SG45-35	1704057-09	GS	N	2	Vinyl Chloride	6.0	50.0	50.0	ug/m3	
SAIA-SG45-35	1704057-09RE1	GS	N	8	cis-1,2-Dichloroethylene	200	1100	1100	ug/m3	

Detected Results

Test Method: TO15 Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SAIA-SG45-35	1704057-09RE1	GS	N	8	Trichloroethene (TCE)	300	3900	3900	ug/m3	
SAIA-SG45-5	1704057-05	GS	N	3	Benzene	8.0	6.0	6.0 J	ug/m3	TR
SAIA-SG45-5	1704057-05	GS	N	3	Isopropanol	6.0	20.0	20.0 J	ug/m3	C11
SAIA-SG45-5	1704057-05	GS	N	3	Tetrachloroethene (PCE)	20.0	10.0	10.0 J	ug/m3	TR
SAIA-SG45-5	1704057-05	GS	N	3	Toluene	10.0	10.0	10.0	ug/m3	
SAIA-SG46-05	1704057-10	GS	N	2	Isopropanol	5.0	4.0	4.0 J	ug/m3	C11/TR
SAIA-SG46-05	1704057-10	GS	N	2	Toluene	8.0	7.0	7.0 J	ug/m3	TR
SAIA-SG46-15	1704057-11	GS	N	3	Benzene	8.0	20.0	20.0	ug/m3	
SAIA-SG46-15	1704057-11	GS	N	3	Chloroform	10.0	10.0	10.0	ug/m3	
SAIA-SG46-15	1704057-11	GS	N	3	Chloromethane	5.0	3.0	3.0 J	ug/m3	C11/TR
SAIA-SG46-15	1704057-11	GS	N	3	cis-1,2-Dichloroethylene	10.0	20.0	20.0	ug/m3	
SAIA-SG46-15	1704057-11	GS	N	3	Isopropanol	6.0	20.0	20.0 J	ug/m3	C11
SAIA-SG46-15	1704057-11	GS	N	3	m,p-Xylene	20.0	10.0	10.0 J	ug/m3	TR
SAIA-SG46-15	1704057-11	GS	N	3	Methylene Chloride	9.0	6.0	6.0 J	ug/m3	TR
SAIA-SG46-15	1704057-11	GS	N	3	Toluene	9.0	40.0	40.0	ug/m3	
SAIA-SG46-15	1704057-11	GS	N	3	Trichloroethene (TCE)	10.0	100	100	ug/m3	
SAIA-SG46-25	1704057-12	GS	N	2	Benzene	7.0	20.0	20.0	ug/m3	
SAIA-SG46-25	1704057-12	GS	N	2	Chloroform	10.0	10.0	10.0	ug/m3	
SAIA-SG46-25	1704057-12	GS	N	2	Chloromethane	5.0	2.0	2.0 J	ug/m3	C11/TR
SAIA-SG46-25	1704057-12	GS	N	2	cis-1,2-Dichloroethylene	9.0	10.0	10.0	ug/m3	
SAIA-SG46-25	1704057-12	GS	N	2	Ethylbenzene	10.0	5.0	5.0 J	ug/m3	TR
SAIA-SG46-25	1704057-12	GS	N	2	Isopropanol	6.0	10.0	10.0 J	ug/m3	C11
SAIA-SG46-25	1704057-12	GS	N	2	m,p-Xylene	20.0	10.0	10.0 J	ug/m3	TR
SAIA-SG46-25	1704057-12	GS	N	2	Methylene Chloride	8.0	5.0	5.0 J	ug/m3	TR
SAIA-SG46-25	1704057-12	GS	N	2	o-Xylene	10.0	5.0	5.0 J	ug/m3	TR
SAIA-SG46-25	1704057-12	GS	N	2	Tetrachloroethene (PCE)	20.0	10.0	10.0 J	ug/m3	TR
SAIA-SG46-25	1704057-12	GS	N	2	Toluene	9.0	60.0	60.0	ug/m3	

Detected Results

Test Method: TO15 Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SAIA-SG46-25	1704057-12RE1	GS	N	4	Trichloroethene (TCE)	80.0	500	500	ug/m3	
SAIA-SG46-35	1704057-13	GS	N	2	1,1-Dichloroethane	8.0	70.0	70.0	ug/m3	
SAIA-SG46-35	1704057-13	GS	N	2	1,1-Dichloroethene	8.0	90.0	90.0	ug/m3	
SAIA-SG46-35	1704057-13	GS	N	2	Benzene	7.0	30.0	30.0	ug/m3	
SAIA-SG46-35	1704057-13	GS	N	2	Chloromethane	4.0	7.0	7.0 J	ug/m3	C11
SAIA-SG46-35	1704057-13	GS	N	2	Isopropanol	5.0	10.0	10.0 J	ug/m3	C11
SAIA-SG46-35	1704057-13	GS	N	2	Methylene Chloride	7.0	5.0	5.0 J	ug/m3	TR
SAIA-SG46-35	1704057-13	GS	N	2	Tetrachloroethene (PCE)	10.0	8.0	8.0 J	ug/m3	TR
SAIA-SG46-35	1704057-13	GS	N	2	Toluene	8.0	60.0	60.0	ug/m3	
SAIA-SG46-35	1704057-13	GS	N	2	Vinyl Chloride	5.0	20.0	20.0	ug/m3	
SAIA-SG46-35	1704057-13RE2	GS	N	16	cis-1,2-Dichloroethylene	600	1900	1900	ug/m3	
SAIA-SG46-35	1704057-13RE2	GS	N	16	Trichloroethene (TCE)	900	16000	16000	ug/m3	
SAIA-SG47-05	1704057-14	GS	N	2	Chloroform	10.0	7.0	7.0 J	ug/m3	TR
SAIA-SG47-05	1704057-14	GS	N	2	Isopropanol	5.0	4.0	4.0 J	ug/m3	C11/TR
SAIA-SG47-05	1704057-14	GS	N	2	Methylene Chloride	8.0	4.0	4.0 J	ug/m3	TR
SAIA-SG47-05	1704057-14	GS	N	2	Tetrachloroethene (PCE)	10.0	9.0	9.0 J	ug/m3	TR
SAIA-SG47-05	1704057-14	GS	N	2	Toluene	8.0	8.0	8.0	ug/m3	
SAIA-SG47-15	1704057-15	GS	N	3	Benzene	9.0	8.0	8.0 J	ug/m3	TR
SAIA-SG47-15	1704057-15	GS	N	3	Isopropanol	7.0	3.0	3.0 J	ug/m3	C11/TR
SAIA-SG47-15	1704057-15	GS	N	3	m,p-Xylene	20.0	10.0	10.0 J	ug/m3	TR
SAIA-SG47-15	1704057-15	GS	N	3	Methylene Chloride	10.0	5.0	5.0 J	ug/m3	TR
SAIA-SG47-15	1704057-15	GS	N	3	Tetrachloroethene (PCE)	20.0	10.0	10.0 J	ug/m3	TR
SAIA-SG47-15	1704057-15	GS	N	3	Toluene	10.0	80.0	80.0	ug/m3	
SAIA-SG47-25	1704057-16	GS	N	2	Benzene	7.0	20.0	20.0	ug/m3	
SAIA-SG47-25	1704057-16	GS	N	2	Chloroform	10.0	10.0	10.0	ug/m3	
SAIA-SG47-25	1704057-16	GS	N	2	Chloromethane	5.0	3.0	3.0 J	ug/m3	C11/TR
SAIA-SG47-25	1704057-16	GS	N	2	Isopropanol	5.0	6.0	6.0 J	ug/m3	C11

Detected Results

Test Method: TO15 Extraction Method: NONE Leach Method: NONE

FieldSample ID	LabSample ID	Matrix	Type	Dilution	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SAIA-SG47-25	1704057-16	GS	N	2	m,p-Xylene	20.0	10.0	10.0 J	ug/m3	TR
SAIA-SG47-25	1704057-16	GS	N	2	Methylene Chloride	8.0	6.0	6.0 J	ug/m3	TR
SAIA-SG47-25	1704057-16	GS	N	2	o-Xylene	10.0	5.0	5.0 J	ug/m3	TR
SAIA-SG47-25	1704057-16	GS	N	2	Tetrachloroethene (PCE)	10.0	8.0	8.0 J	ug/m3	TR
SAIA-SG47-25	1704057-16	GS	N	2	Toluene	8.0	60.0	60.0	ug/m3	
SAIA-SG47-25	1704057-16	GS	N	2	Trichloroethene (TCE)	10.0	40.0	40.0	ug/m3	
SAIA-SG47-35	1704057-17	GS	N	3	Benzene	8.0	60.0	60.0	ug/m3	
SAIA-SG47-35	1704057-17	GS	N	3	cis-1,2-Dichloroethylene	10.0	7.0	7.0 J	ug/m3	TR
SAIA-SG47-35	1704057-17	GS	N	3	Isopropanol	7.0	8.0	8.0 J	ug/m3	C11
SAIA-SG47-35	1704057-17	GS	N	3	m,p-Xylene	20.0	10.0	10.0 J	ug/m3	TR
SAIA-SG47-35	1704057-17	GS	N	3	Methylene Chloride	9.0	9.0	9.0	ug/m3	
SAIA-SG47-35	1704057-17	GS	N	3	Tetrachloroethene (PCE)	20.0	10.0	10.0 J	ug/m3	TR
SAIA-SG47-35	1704057-17	GS	N	3	Trichloroethene (TCE)	10.0	50.0	50.0	ug/m3	
SAIA-SG47-35	1704057-17	GS	N	3	Vinyl Chloride	7.0	30.0	30.0	ug/m3	
SAIA-SG47-35	1704057-17RE1	GS	N	4	Toluene	100	600	600	ug/m3	

Rejected Results

--No Records Found--

Review Questions

Method: TO15

Review Questions	Yes	No	NA	Comment
Stage 2 Review: COC - Custody Trail?	•			COCs signed by sampler and at the lab.
Stage 2 Review: COC - Temperature/Condition?	•			Samples received at ambient temp. in original boxes
Stage 2 Review: COC - Receipt anomalies?	•			No receipt anomalies.
Stage 2 Review: COC - Sample/Methods checked?	•			Standard TO-15 list requested.
Stage 2 Review: Case Narrative - Anomalies?	•			No anomalies noted in case narrative.
Stage 2 Review: Samples - Collection date?	•			All soil gas samples collected on 5/27/2017.
Stage 2 Review: Samples - Extraction date?			•	
Stage 2 Review: Samples - Analysis date?	•			Samples analyzed 4-28/29-2017, and re-analysis of high concentration analytes on 5-1/2-2017.
Stage 2 Review: Samples - Holding time?	•			Summa canister holding time of 30 days after certification met, and 30 days to analysis met.
Stage 2 Review: Samples - Batching?	•			All initial analyses batch B17D168. Re-analyses on 5/1/17 batch B17E020, on 5/2/17 batch B17E028.
Stage 2 Review: Samples - Surrogate recoveries?			•	
Stage 2 Review: Samples - Lab qualifiers?	•			Data were qualified J for trace detects (C1), and J/UJ for not meeting initial calibration criteria (C3).
Stage 2 Review: Calibration - ICAL?	•			No data qualification warranted.
Stage 2 Review: Calibration - ICV?	•			No data qualification warranted.
Stage 2 Review: Calibration - CCV?	•			Data were qualified J/UJ for initial and secondary calibration verification (C11) outside QC recovery limits of 70-130.
Stage 2 Review: Blank - Method blank?	•			All method blanks ND < QL
Stage 2 Review: Blank - Trip blank?			•	
Stage 2 Review: Blank - Equipment blank?			•	
Stage 2 Review: Precision/Accuracy - LCS/LCSD?	•			One LCS run per batch. All LCS recoveries within QC limits of 60 - 150.
Stage 2 Review: Quantitation - PQLs?	•			All QLs < 30 ug/m3 for normal run dilutions less than 3. Elevated QLs for re-analyses up to 900 ug/m3 at 16.08x dilution
Stage 2 Review: Quantitation - Dilution Factor?	•			All initial dilutions adjusted per canister pressure. Re-analyses performed for analytes exceeding calibration range at dilutions from 3.64 to 8.31. DLs and QLs adjusted accordingly.
Stage 2 Review: Quantitation - Results (i.e. correct analytes)?	•			TO-15 list analytes are correct.

Review Questions

Method: TO15

Review Questions	Yes	No	NA	Comment
Stage 2 Review: Field Duplicates - RPD within limits?	•			In field duplicate pair SAIA-SG45-15/SG45-16, RPDs for toluene (67) and isopropanol (67) exceed SAP RPD limit of 35. Data pairs were qualified J for field duplicate imprecision (D5).

AUTOMATED DATA REVIEW SUMMARY for 13107B

Facility: Southern Avenue Industrial Area

Soil Gas Event, R9 Lab Split Summa Canister Samples, April 2013

Guidance Document:

Contract Laboratory: U.S. EPA, Region 9 Lab, Richmond, CA

Field Contractor:

Data Review Contractor: ITSI Gilbane

SDG: 13107B, Certified - 6/4/2013 by wtse

QC Level: S1BVEM

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: June 14, 2013

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG 13107B

Analytical Method/ Leach Method	Normal Gaseous Samples	Field QC Gaseous Samples
TO15/NONE	10	0

AUTOMATED DATA REVIEW SUMMARY for 13107B

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by U.S. EPA, Region 9 Lab, Richmond, CA and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

Blank
Blank - Negative
Lab Replicate RPD
LCS Recovery
Prep Hold Time
Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

Ambient Blank
Calibration Blank
Calibration Blank - Negative
Continuing Calibration Verification
Equipment Blank
Field Blank
Field Duplicate RPD
Initial Calibration Verification
Material Blank
MS Recovery
MS RPD
Negative Blank
Surrogate
Trip Blank

AUTOMATED DATA REVIEW SUMMARY for 13107B

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 29 results (7.61%) out of the 381 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewed R9 Lab Level 2 Analytical Report.

Checked for COC and calibration issues, select analytes were qualified for initial and continuing calibration exceedances.

Qualifiers were added due to field duplicate imprecision with the original field lab syringe samples.

14-Jun-2013

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Code	Definition
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action
O	Interference check sample
P	Sample preservation/collection requirement not met.

Reason and Comment Code Definitions

P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.
J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for 13107B

Batch Report

Test Method: TO15; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
S13D091	B13D094	NA	LABQC	GQ	LABQC	B13D094-BS1	1304003	1/1	18-Apr-2013 12:00 AM	18-Apr-2013 5:11 PM	18-Apr-2013 6:50 PM	BS
	B13D094	NA	LABQC	GQ	LABQC	B13D094-BLK1	1304003	1/1	18-Apr-2013 12:00 AM	18-Apr-2013 5:11 PM	18-Apr-2013 8:28 PM	LB
	B13D094	NA	SAIA-SB/SG06	GS	SAIA-SG06-D35-E0413	1304031-01	1304003	1/1.89	09-Apr-2013 9:25 AM	18-Apr-2013 5:11 PM	19-Apr-2013 12:30 AM	N
	B13D094	NA	SAIA-SB/SG14	GS	SAIA-SG14-D25-E0413	1304031-02	1304003	1/3.46	09-Apr-2013 2:46 PM	18-Apr-2013 5:11 PM	18-Apr-2013 11:43 PM	N
S13D114	B13D111	NA	JW-SB/SG02	GS	JW-SG02-D25-E0413	1304042-04RE1	1304026	1/2.62	18-Apr-2013 12:45 PM	24-Apr-2013 2:38 AM	25-Apr-2013 12:22 AM	N
	B13D111	NA	LABQC	GQ	LABQC	B13D111-BS1	1304026	1/1	24-Apr-2013 12:00 AM	24-Apr-2013 2:38 AM	24-Apr-2013 4:16 AM	BS
	B13D111	NA	LABQC	GQ	LABQC	B13D111-BLK1	1304026	1/1	24-Apr-2013 12:00 AM	24-Apr-2013 2:38 AM	24-Apr-2013 11:56 AM	LB
	B13D111	NA	SAIA-SB/SG02	GS	SAIA-SG02-D05-E0413	1304031-05	1304026	1/1.9	11-Apr-2013 12:01 PM	24-Apr-2013 2:38 AM	25-Apr-2013 1:10 AM	N
	B13D111	NA	SAIA-SB/SG06	GS	SAIA-SG06-D35-E0413	1304031-01RE1	1304026	1/1.89	09-Apr-2013 9:25 AM	24-Apr-2013 2:38 AM	24-Apr-2013 1:38 PM	N
	B13D111	NA	SAIA-SB/SG06	GS	SAIA-SG06-D35-E0413	1304031-01RE2	1304026	1/3.86	09-Apr-2013 9:25 AM	24-Apr-2013 2:38 AM	25-Apr-2013 1:58 AM	N
	B13D111	NA	SAIA-SB/SG09	GS	SAIA-SG09-D35-E0413	1304031-04	1304026	1/2.1	10-Apr-2013 12:45 PM	24-Apr-2013 2:38 AM	24-Apr-2013 3:20 PM	N
	B13D111	NA	SAIA-SB/SG10	GS	SAIA-SG10-D15-E0413	1304031-03	1304026	1/2.5	10-Apr-2013 9:00 AM	24-Apr-2013 2:38 AM	24-Apr-2013 2:28 PM	N
	B13D111	NA	SAIA-SB/SG10	GS	SAIA-SG10-D15-E0413	1304031-03RE1	1304026	1/2.5	10-Apr-2013 9:00 AM	24-Apr-2013 2:38 AM	24-Apr-2013 8:08 PM	N
S13D128	B13D124	NA	JW-SB/SG02	GS	JW-SG02-D25-E0413	1304042-04	1304026	1/2.62	18-Apr-2013 12:45 PM	25-Apr-2013 10:59 AM	25-Apr-2013 11:55 PM	N
	B13D124	NA	JW-SB/SG04	GS	JW-SG04-D35-E0413	B13D124-DUP1	1304026	1/2.25	17-Apr-2013 3:17 PM	25-Apr-2013 10:59 AM	25-Apr-2013 11:06 PM	LR
	B13D124	NA	JW-SB/SG04	GS	JW-SG04-D35-E0413	1304042-03	1304026	1/2.25	17-Apr-2013 3:17 PM	25-Apr-2013 10:59 AM	25-Apr-2013 10:18 PM	N
	B13D124	NA	JW-SB/SG04	GS	JW-SG04-D35-E0413	1304042-03RE1	1304026	1/2.25	17-Apr-2013 3:17 PM	25-Apr-2013 10:59 AM	25-Apr-2013 4:28 PM	N
	B13D124	NA	JW-SB/SG06	GS	JW-SG06-D35-E0413	1304042-02	1304026	1/3.35	17-Apr-2013 11:23 AM	25-Apr-2013 10:59 AM	25-Apr-2013 9:29 PM	N
	B13D124	NA	LABQC	GQ	LABQC	B13D124-BS1	1304026	1/1	25-Apr-2013 12:00 AM	25-Apr-2013 10:59 AM	25-Apr-2013 12:38 PM	BS
	B13D124	NA	LABQC	GQ	LABQC	B13D124-BLK1	1304026	1/1	25-Apr-2013 12:00 AM	25-Apr-2013 10:59 AM	25-Apr-2013 3:37 PM	LB
	B13D124	NA	SAIA-SB/SG02	GS	SAIA-SG02-D05-E0413	1304031-05RE2	1304026	1/3.12	11-Apr-2013 12:01 PM	25-Apr-2013 10:59 AM	26-Apr-2013 1:35 AM	LR

AUTOMATED DATA REVIEW SUMMARY for 13107B

Batch Report

S13D128	B13D124	NA	SAIA-SB/SG08	GS	SAIA-SG08-D05-E0413	1304031-06	1304026	1/5.62	15-Apr-2013 1:05 PM	25-Apr-2013 10:59 AM	25-Apr-2013 6:13 PM	N
	B13D124	NA	SAIA-SB/SG08	GS	SAIA-SG08-D05-E0413	1304031-06RE1	1304026	1/5.62	15-Apr-2013 1:05 PM	25-Apr-2013 10:59 AM	25-Apr-2013 5:20 PM	N
	B13D124	NA	SAIA-SB/SG11	GS	SAIA-SG11-D25-E0413	1304042-01	1304026	1/2.08	16-Apr-2013 1:42 PM	25-Apr-2013 10:59 AM	25-Apr-2013 8:40 PM	N
S13D137	B13D129	NA	JW-SB/SG04	GS	JW-SG04-D35-E0413	1304042-03RE2	1304026	1/3.78	17-Apr-2013 3:17 PM	26-Apr-2013 10:57 AM	26-Apr-2013 6:21 PM	N
	B13D129	NA	LABQC	GQ	LABQC	B13D129-BS1	1304026	1/1	26-Apr-2013 12:00 AM	26-Apr-2013 10:57 AM	26-Apr-2013 1:26 PM	BS
	B13D129	NA	LABQC	GQ	LABQC	B13D129-BLK1	1304026	1/1	26-Apr-2013 12:00 AM	26-Apr-2013 10:57 AM	26-Apr-2013 3:58 PM	LB
	B13D129	NA	SAIA-SB/SG09	GS	SAIA-SG09-D35-E0413	1304031-04RE2	1304026	1/13300.4	10-Apr-2013 12:45 PM	26-Apr-2013 10:57 AM	26-Apr-2013 5:34 PM	N
	B13D129	NA	SAIA-SB/SG10	GS	SAIA-SG10-D15-E0413	1304031-03RE2	1304026	1/4289.89	10-Apr-2013 9:00 AM	26-Apr-2013 10:57 AM	26-Apr-2013 4:46 PM	N

AUTOMATED DATA REVIEW SUMMARY for 13107B

Field Batch Report

--No Records Found--

QC Outlier Report

--No Records Found--

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	JW-SG02-D25-E0413	N	1,2,4-Trichlorobenzene	26.0	26.0	26.0 UJ	PPBV	C11/G2
TO15/NONE	GS	JW-SG02-D25-E0413	N	Benzene	26.0	15.0	15.0 J	PPBV	TR
TO15/NONE	GS	JW-SG02-D25-E0413	N	Hexachlorobutadiene	26.0	26.0	26.0 UJ	PPBV	C11/G2
TO15/NONE	GS	JW-SG02-D25-E0413	N	Trichloroethene (TCE)	5200	19000	19000 J	PPBV	D5
TO15/NONE	GS	JW-SG02-D25-E0413	N	Vinyl Chloride	26.0	15.0	15.0 J	PPBV	TR
TO15/NONE	GS	JW-SG04-D35-E0413	N	1,1-Dichloroethane	22.0	16.0	16.0 J	PPBV	TR
TO15/NONE	GS	JW-SG04-D35-E0413	N	1,2,4-Trichlorobenzene	22.0	22.0	22.0 UJ	PPBV	C11/G2
TO15/NONE	GS	JW-SG04-D35-E0413	N	Benzene	22.0	14.0	14.0 J	PPBV	TR
TO15/NONE	GS	JW-SG04-D35-E0413	N	Hexachlorobutadiene	22.0	22.0	22.0 UJ	PPBV	C11/G2
TO15/NONE	GS	JW-SG04-D35-E0413	N	Trichloroethene (TCE)	450	4000	4000 J	PPBV	D5
TO15/NONE	GS	JW-SG06-D35-E0413	N	1,2,4-Trichlorobenzene	34.0	34.0	34.0 UJ	PPBV	C11/G2
TO15/NONE	GS	JW-SG06-D35-E0413	N	Hexachlorobutadiene	34.0	34.0	34.0 UJ	PPBV	C11/G2
TO15/NONE	GS	SAIA-SG02-D05-E0413	N	1,1-Dichloroethane	19.0	10.0	10.0 J	PPBV	TR
TO15/NONE	GS	SAIA-SG02-D05-E0413	N	1,2,4-Trichlorobenzene	19.0	19.0	19.0 UJ	PPBV	G2
TO15/NONE	GS	SAIA-SG02-D05-E0413	N	Hexachlorobutadiene	19.0	19.0	19.0 UJ	PPBV	G2
TO15/NONE	GS	SAIA-SG02-D05-E0413	N	Vinyl Chloride	19.0	18.0	18.0 J	PPBV	TR

AUTOMATED DATA REVIEW SUMMARY for 13107B

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SAIA-SG06-D35-E0413	N	1,1,2-Trichloro-1,2,2-trifluoroethane	19.0	19.0	19.0 UJ	PPBV	G2
TO15/NONE	GS	SAIA-SG06-D35-E0413	N	1,2-Dichlorotetrafluoroethane	19.0	19.0	19.0 UJ	PPBV	G2
TO15/NONE	GS	SAIA-SG06-D35-E0413	N	1,3,5-Trimethylbenzene	19.0	11.0	11.0 J	PPBV	TR
TO15/NONE	GS	SAIA-SG06-D35-E0413	N	Benzene	19.0	17.0	17.0 J	PPBV	TR
TO15/NONE	GS	SAIA-SG06-D35-E0413	N	Tetrachloroethene (PCE)	19.0	16.0	16.0 J	PPBV	TR
TO15/NONE	GS	SAIA-SG06-D35-E0413	N	Trichlorofluoromethane	19.0	19.0	19.0 UJ	PPBV	G2
TO15/NONE	GS	SAIA-SG08-D05-E0413	N	1,2,4-Trichlorobenzene	1100	1100	1100 UJ	PPBV	C11/G2
TO15/NONE	GS	SAIA-SG08-D05-E0413	N	Hexachlorobutadiene	1100	1100	1100 UJ	PPBV	C11/G2
TO15/NONE	GS	SAIA-SG09-D35-E0413	N	1,2,4-Trichlorobenzene	4200	4200	4200 UJ	PPBV	G2
TO15/NONE	GS	SAIA-SG09-D35-E0413	N	Hexachlorobutadiene	4200	4200	4200 UJ	PPBV	G2
TO15/NONE	GS	SAIA-SG09-D35-E0413	N	Trichloroethene (TCE)	130000	530000	530000 J	PPBV	D5
TO15/NONE	GS	SAIA-SG09-D35-E0413	N	Vinyl Chloride	4200	70000	70000 J	PPBV	D5
TO15/NONE	GS	SAIA-SG10-D15-E0413	N	1,2,4-Trichlorobenzene	2500	2500	2500 UJ	PPBV	G2
TO15/NONE	GS	SAIA-SG10-D15-E0413	N	cis-1,2-Dichloroethylene	43000	560000	560000 J	PPBV	D5
TO15/NONE	GS	SAIA-SG10-D15-E0413	N	Hexachlorobutadiene	2500	2500	2500 UJ	PPBV	G2
TO15/NONE	GS	SAIA-SG10-D15-E0413	N	Trichloroethene (TCE)	2500	2000	2000 J	PPBV	TR
TO15/NONE	GS	SAIA-SG11-D25-E0413	N	1,2,4-Trichlorobenzene	21.0	21.0	21.0 UJ	PPBV	C11/G2
TO15/NONE	GS	SAIA-SG11-D25-E0413	N	1,2,4-Trimethylbenzene	21.0	19.0	19.0 J	PPBV	TR
TO15/NONE	GS	SAIA-SG11-D25-E0413	N	Hexachlorobutadiene	21.0	21.0	21.0 UJ	PPBV	C11/G2
TO15/NONE	GS	SAIA-SG11-D25-E0413	N	Tetrachloroethene (PCE)	21.0	15.0	15.0 J	PPBV	TR
TO15/NONE	GS	SAIA-SG11-D25-E0413	N	Vinyl Chloride	21.0	13.0	13.0 J	PPBV	TR
TO15/NONE	GS	SAIA-SG14-D25-E0413	N	1,1,2-Trichloro-1,2,2-trifluoroethane	3.5	3.5	3.5 UJ	PPBV	G2

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SAIA-SG14-D25-E0413	N	1,2-Dichlorotetrafluoroethane	3.5	3.5	3.5 UJ	PPBV	G2
TO15/NONE	GS	SAIA-SG14-D25-E0413	N	1,3,5-Trimethylbenzene	3.5	2.5	2.5 J	PPBV	TR
TO15/NONE	GS	SAIA-SG14-D25-E0413	N	cis-1,2-Dichloroethylene	3.5	34.0	34.0 J	PPBV	D5
TO15/NONE	GS	SAIA-SG14-D25-E0413	N	o-Xylene	3.5	2.8	2.8 J	PPBV	TR
TO15/NONE	GS	SAIA-SG14-D25-E0413	N	Styrene	3.5	2.9	2.9 J	PPBV	TR
TO15/NONE	GS	SAIA-SG14-D25-E0413	N	Trichloroethene (TCE)	3.5	45.0	45.0 J	PPBV	D5
TO15/NONE	GS	SAIA-SG14-D25-E0413	N	Trichlorofluoromethane	3.5	3.5	3.5 UJ	PPBV	G2

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	JW-SG02-D25-E0413	N	Benzene	26.0	15.0	15.0 J	PPBV	TR
TO15/NONE	GS	JW-SG02-D25-E0413	N	1,1-Dichloroethane	26.0	42.0	42.0	PPBV	
TO15/NONE	GS	JW-SG02-D25-E0413	N	1,1-Dichloroethene	26.0	180	180	PPBV	
TO15/NONE	GS	JW-SG02-D25-E0413	N	cis-1,2-Dichloroethylene	5200	6800	6800	PPBV	
TO15/NONE	GS	JW-SG02-D25-E0413	N	Tetrachloroethene (PCE)	26.0	410	410	PPBV	
TO15/NONE	GS	JW-SG02-D25-E0413	N	Trichloroethene (TCE)	5200	19000	19000 J	PPBV	D5
TO15/NONE	GS	JW-SG02-D25-E0413	N	Vinyl Chloride	26.0	15.0	15.0 J	PPBV	TR
TO15/NONE	GS	JW-SG04-D35-E0413	N	Benzene	22.0	14.0	14.0 J	PPBV	TR
TO15/NONE	GS	JW-SG04-D35-E0413	N	1,1-Dichloroethane	22.0	16.0	16.0 J	PPBV	TR
TO15/NONE	GS	JW-SG04-D35-E0413	N	1,1-Dichloroethene	22.0	69.0	69.0	PPBV	
TO15/NONE	GS	JW-SG04-D35-E0413	N	cis-1,2-Dichloroethylene	450	1900	1900	PPBV	
TO15/NONE	GS	JW-SG04-D35-E0413	N	Tetrachloroethene (PCE)	38.0	640	640	PPBV	
TO15/NONE	GS	JW-SG04-D35-E0413	N	Trichloroethene (TCE)	450	4000	4000 J	PPBV	D5
TO15/NONE	GS	JW-SG06-D35-E0413	N	cis-1,2-Dichloroethylene	34.0	250	250	PPBV	
TO15/NONE	GS	JW-SG06-D35-E0413	N	Tetrachloroethene (PCE)	34.0	140	140	PPBV	
TO15/NONE	GS	JW-SG06-D35-E0413	N	Trichloroethene (TCE)	34.0	360	360	PPBV	
TO15/NONE	GS	SAIA-SG02-D05-E0413	N	1,1-Dichloroethane	19.0	10.0	10.0 J	PPBV	TR
TO15/NONE	GS	SAIA-SG02-D05-E0413	N	Trichloroethene (TCE)	19.0	280	280	PPBV	
TO15/NONE	GS	SAIA-SG02-D05-E0413	N	Vinyl Chloride	19.0	18.0	18.0 J	PPBV	TR
TO15/NONE	GS	SAIA-SG06-D35-E0413	N	Benzene	19.0	17.0	17.0 J	PPBV	TR
TO15/NONE	GS	SAIA-SG06-D35-E0413	N	1,1-Dichloroethane	39.0	100	100	PPBV	
TO15/NONE	GS	SAIA-SG06-D35-E0413	N	1,1-Dichloroethane	19.0	86.0	86.0	PPBV	
TO15/NONE	GS	SAIA-SG06-D35-E0413	N	1,1-Dichloroethene	39.0	520	520	PPBV	
TO15/NONE	GS	SAIA-SG06-D35-E0413	N	cis-1,2-Dichloroethylene	1900	9500	9500	PPBV	
TO15/NONE	GS	SAIA-SG06-D35-E0413	N	Diethylmethylcyclohexane		120	120 JN	PPBV	

AUTOMATED DATA REVIEW SUMMARY for 13107B

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SAIA-SG06-D35-E0413	N	Decahydromethyl Naphthalene		98.0	98.0 JN	PPBV	
TO15/NONE	GS	SAIA-SG06-D35-E0413	N	1,1,2,2-Tetrachloroethane	19.0	23.0	23.0	PPBV	
TO15/NONE	GS	SAIA-SG06-D35-E0413	N	Tetrachloroethene (PCE)	19.0	16.0	16.0 J	PPBV	TR
TO15/NONE	GS	SAIA-SG06-D35-E0413	N	Trichloroethene (TCE)	1900	2800	2800	PPBV	
TO15/NONE	GS	SAIA-SG06-D35-E0413	N	1,2,4-Trimethylbenzene	19.0	41.0	41.0	PPBV	
TO15/NONE	GS	SAIA-SG06-D35-E0413	N	1,3,5-Trimethylbenzene	19.0	11.0	11.0 J	PPBV	TR
TO15/NONE	GS	SAIA-SG06-D35-E0413	N	Vinyl Chloride	1900	2000	2000	PPBV	
TO15/NONE	GS	SAIA-SG08-D05-E0413	N	1,1-Dichloroethane	1100	16000	16000	PPBV	
TO15/NONE	GS	SAIA-SG08-D05-E0413	N	cis-1,2-Dichloroethylene	11000	65000	65000	PPBV	
TO15/NONE	GS	SAIA-SG08-D05-E0413	N	Vinyl Chloride	11000	210000	210000	PPBV	
TO15/NONE	GS	SAIA-SG09-D35-E0413	N	n-UNDECANE		49000	49000 JN	PPBV	
TO15/NONE	GS	SAIA-SG09-D35-E0413	N	1,1-Dichloroethane	4200	38000	38000	PPBV	
TO15/NONE	GS	SAIA-SG09-D35-E0413	N	1,1-Dichloroethene	4200	7100	7100	PPBV	
TO15/NONE	GS	SAIA-SG09-D35-E0413	N	cis-1,2-Dichloroethylene	130000	1500000	1500000	PPBV	
TO15/NONE	GS	SAIA-SG09-D35-E0413	N	Decahydromethyl Naphthalene		12000	12000 JN	PPBV	
TO15/NONE	GS	SAIA-SG09-D35-E0413	N	Trichloroethene (TCE)	130000	530000	530000 J	PPBV	D5
TO15/NONE	GS	SAIA-SG09-D35-E0413	N	Vinyl Chloride	4200	70000	70000 J	PPBV	D5
TO15/NONE	GS	SAIA-SG10-D15-E0413	N	1,1-Dichloroethane	5000	68000	68000	PPBV	
TO15/NONE	GS	SAIA-SG10-D15-E0413	N	1,1-Dichloroethene	2500	5200	5200	PPBV	
TO15/NONE	GS	SAIA-SG10-D15-E0413	N	cis-1,2-Dichloroethylene	43000	560000	560000 J	PPBV	D5
TO15/NONE	GS	SAIA-SG10-D15-E0413	N	1,1,1-Trichloroethane	2500	6800	6800	PPBV	
TO15/NONE	GS	SAIA-SG10-D15-E0413	N	Trichloroethene (TCE)	2500	2000	2000 J	PPBV	TR

AUTOMATED DATA REVIEW SUMMARY for 13107B

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SAIA-SG10-D15-E0413	N	Vinyl Chloride	43000	660000	660000	PPBV	
TO15/NONE	GS	SAIA-SG11-D25-E0413	N	BUTYLCYCLOOCTANE		470	470 JN	PPBV	
TO15/NONE	GS	SAIA-SG11-D25-E0413	N	Butane		680	680 JN	PPBV	
TO15/NONE	GS	SAIA-SG11-D25-E0413	N	n-Pentane		340	340 JN	PPBV	
TO15/NONE	GS	SAIA-SG11-D25-E0413	N	Dimethylpentane		260	260 JN	PPBV	
TO15/NONE	GS	SAIA-SG11-D25-E0413	N	cis-1,2-Dichloroethylene	21.0	220	220	PPBV	
TO15/NONE	GS	SAIA-SG11-D25-E0413	N	ISOPROPYLCYCLOBUTANE		170	170 JN	PPBV	
TO15/NONE	GS	SAIA-SG11-D25-E0413	N	Methyl Butane		190	190 JN	PPBV	
TO15/NONE	GS	SAIA-SG11-D25-E0413	N	Tetrachloroethene (PCE)	21.0	15.0	15.0 J	PPBV	TR
TO15/NONE	GS	SAIA-SG11-D25-E0413	N	Trichloroethene (TCE)	21.0	140	140	PPBV	
TO15/NONE	GS	SAIA-SG11-D25-E0413	N	1,2,4-Trimethylbenzene	21.0	19.0	19.0 J	PPBV	TR
TO15/NONE	GS	SAIA-SG11-D25-E0413	N	Vinyl Chloride	21.0	13.0	13.0 J	PPBV	TR
TO15/NONE	GS	SAIA-SG14-D25-E0413	N	Benzene	3.5	6.1	6.1	PPBV	
TO15/NONE	GS	SAIA-SG14-D25-E0413	N	Toluene	3.5	15.0	15.0	PPBV	
TO15/NONE	GS	SAIA-SG14-D25-E0413	N	cis-1,2-Dichloroethylene	3.5	34.0	34.0 J	PPBV	D5
TO15/NONE	GS	SAIA-SG14-D25-E0413	N	Decahydro Naphthalene		18.0	18.0 JN	PPBV	
TO15/NONE	GS	SAIA-SG14-D25-E0413	N	Ethylbenzene	3.5	4.5	4.5	PPBV	
TO15/NONE	GS	SAIA-SG14-D25-E0413	N	Decahydromethyl Naphthalene		18.0	18.0 JN	PPBV	
TO15/NONE	GS	SAIA-SG14-D25-E0413	N	Tetrachloroethene (PCE)	3.5	11.0	11.0	PPBV	
TO15/NONE	GS	SAIA-SG14-D25-E0413	N	Styrene	3.5	2.9	2.9 J	PPBV	TR
TO15/NONE	GS	SAIA-SG14-D25-E0413	N	Trichloroethene (TCE)	3.5	45.0	45.0 J	PPBV	D5
TO15/NONE	GS	SAIA-SG14-D25-E0413	N	1,2,4-Trimethylbenzene	3.5	10.0	10.0	PPBV	

AUTOMATED DATA REVIEW SUMMARY for 13107B

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SAIA-SG14-D25-E0413	N	1,3,5-Trimethylbenzene	3.5	2.5	2.5 J	PPBV	TR
TO15/NONE	GS	SAIA-SG14-D25-E0413	N	Vinyl Chloride	3.5	5.0	5.0	PPBV	
TO15/NONE	GS	SAIA-SG14-D25-E0413	N	m,p-Xylene	6.9	8.3	8.3	PPBV	
TO15/NONE	GS	SAIA-SG14-D25-E0413	N	o-Xylene	3.5	2.8	2.8 J	PPBV	TR

AUTOMATED DATA REVIEW SUMMARY for 13107B

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for E304021

Facility: Southern Avenue Industrial Area

Soil Gas Event, H&P Mobile Lab Day 1 SG6 Samples, April 2013

Guidance Document:

Contract Laboratory: H&P MOBILE GEOCHEMISTRY, CARLSBAD, CA

Field Contractor:

Data Review Contractor: ITSI Gilbane

SDG: E304021, Certified - 5/16/2013 by wtse

QC Level: S1BVEM

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: June 14, 2013

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG E304021

Analytical Method/ Leach Method	Normal Gaseous Samples	Field QC Gaseous Samples
TO15/NONE	8	0

AUTOMATED DATA REVIEW SUMMARY for E304021

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by H&P MOBILE GEOCHEMISTRY, CARLSBAD, CA and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- LCS Recovery
- Prep Hold Time
- Surrogate
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Field Duplicate RPD
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- MS Recovery
- MS RPD
- Negative Blank
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for E304021

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 8 results (2.50%) out of the 320 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewed H&P Lab Level 3 Analytical Report.

Checked for COC and calibration issues, several detected results were qualified due to continuing calibration anomalies.

No other data qualifiers were required.

14-Jun-2013

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Code	Definition
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action
O	Interference check sample
P	Sample preservation/collection requirement not met.

Reason and Comment Code Definitions

P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.
J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for E304021

Batch Report

Test Method: TO15; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
NA	NA	NA	LABQC	GQ	LABQC	ED30803-BS1	NA	1/1	08-Apr-2013 5:34 AM	08-Apr-2013 5:34 AM	08-Apr-2013 5:21 PM	BS
	NA	NA	LABQC	GQ	LABQC	ED30803-BLK1	NA	1/1	08-Apr-2013 5:34 AM	08-Apr-2013 5:34 AM	08-Apr-2013 8:10 AM	LB
	NA	NA	SAIA-SB/SG06	GS	SG6-15, 1PV, P481cc	E304021-04	NA	1/1	08-Apr-2013 10:49 AM	08-Apr-2013 10:52 AM	08-Apr-2013 10:58 AM	N
	NA	NA	SAIA-SB/SG06	GS	SG6-15, 3PV, P1443cc	E304021-07	NA	1/1	08-Apr-2013 2:25 PM	08-Apr-2013 2:28 PM	08-Apr-2013 2:33 PM	N
	NA	NA	SAIA-SB/SG06	GS	SG6-25, 10PV, P5298cc	E304021-08	NA	1/1	08-Apr-2013 2:46 PM	08-Apr-2013 2:48 PM	08-Apr-2013 2:56 PM	N
	NA	NA	SAIA-SB/SG06	GS	SG6-25, 10PV, P5298cc	E304021-08	NA	1/100	08-Apr-2013 2:46 PM	08-Apr-2013 2:48 PM	08-Apr-2013 2:56 PM	N
	NA	NA	SAIA-SB/SG06	GS	SG6-25, 1PV, P530cc	E304021-05	NA	1/1	08-Apr-2013 12:01 PM	08-Apr-2013 12:03 PM	08-Apr-2013 12:12 PM	N
	NA	NA	SAIA-SB/SG06	GS	SG6-25, 3PV, P1590cc	E304021-06	NA	1/1	08-Apr-2013 12:52 PM	08-Apr-2013 12:55 PM	08-Apr-2013 1:00 PM	N
	NA	NA	SAIA-SB/SG06	GS	SG6-25, 3PV, P1590cc	E304021-06	NA	1/100	08-Apr-2013 12:52 PM	08-Apr-2013 12:55 PM	08-Apr-2013 1:00 PM	N
	NA	NA	SAIA-SB/SG06	GS	SG6-25, 3PV, P1590cc	E304021-06	NA	1/50	08-Apr-2013 12:52 PM	08-Apr-2013 12:55 PM	08-Apr-2013 1:00 PM	N
	NA	NA	SAIA-SB/SG06	GS	SG6-5, 10PV, P4330cc	E304021-03	NA	1/1	08-Apr-2013 10:04 AM	08-Apr-2013 10:06 AM	08-Apr-2013 10:14 AM	N
	NA	NA	SAIA-SB/SG06	GS	SG6-5, 10PV, P4330cc	E304021-03	NA	1/5	08-Apr-2013 10:04 AM	08-Apr-2013 10:06 AM	08-Apr-2013 10:14 AM	N
	NA	NA	SAIA-SB/SG06	GS	SG6-5, 1PV, P433cc	E304021-01	NA	1/1	08-Apr-2013 8:39 AM	08-Apr-2013 8:40 AM	08-Apr-2013 8:54 AM	N
	NA	NA	SAIA-SB/SG06	GS	SG6-5, 1PV, P433cc	E304021-01	NA	1/5	08-Apr-2013 8:39 AM	08-Apr-2013 8:40 AM	08-Apr-2013 8:54 AM	N
	NA	NA	SAIA-SB/SG06	GS	SG6-5, 3PV, P1299cc	E304021-02	NA	1/1	08-Apr-2013 9:31 AM	08-Apr-2013 9:33 AM	08-Apr-2013 9:39 AM	N

AUTOMATED DATA REVIEW SUMMARY for E304021

Field Batch Report

--No Records Found--

QC Outlier Report

--No Records Found--

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SG6-15, 1PV, P481cc	N	Naphthalene	5.0	6.1	6.1 J	ppbv	C11
TO15/NONE	GS	SG6-15, 1PV, P481cc	N	p-Cymene (p-Isopropyltoluene)	5.0	9.2	9.2 J	ppbv	C11
TO15/NONE	GS	SG6-15, 3PV, P1443cc	N	p-Cymene (p-Isopropyltoluene)	5.0	5.1	5.1 J	ppbv	C11
TO15/NONE	GS	SG6-25, 10PV, P5298cc	N	p-Cymene (p-Isopropyltoluene)	5.0	45.0	45.0 J	ppbv	C11
TO15/NONE	GS	SG6-25, 3PV, P1590cc	N	p-Cymene (p-Isopropyltoluene)	5.0	22.0	22.0 J	ppbv	C11
TO15/NONE	GS	SG6-5, 10PV, P4330cc	N	p-Cymene (p-Isopropyltoluene)	5.0	68.0	68.0 J	ppbv	C11
TO15/NONE	GS	SG6-5, 1PV, P433cc	N	p-Cymene (p-Isopropyltoluene)	5.0	55.0	55.0 J	ppbv	C11
TO15/NONE	GS	SG6-5, 3PV, P1299cc	N	p-Cymene (p-Isopropyltoluene)	5.0	51.0	51.0 J	ppbv	C11

AUTOMATED DATA REVIEW SUMMARY for E304021

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SG6-15, 1PV, P481cc	N	sec-Butylbenzene	5.0	5.2	5.2	ppbv	
TO15/NONE	GS	SG6-15, 1PV, P481cc	N	p-Cymene (p-Isopropyltoluene)	5.0	9.2	9.2 J	ppbv	C11
TO15/NONE	GS	SG6-15, 1PV, P481cc	N	cis-1,2-Dichloroethylene	10.0	450	450	ppbv	
TO15/NONE	GS	SG6-15, 1PV, P481cc	N	Naphthalene	5.0	6.1	6.1 J	ppbv	C11
TO15/NONE	GS	SG6-15, 1PV, P481cc	N	1,2,4-Trimethylbenzene	5.0	36.0	36.0	ppbv	
TO15/NONE	GS	SG6-15, 1PV, P481cc	N	1,3,5-Trimethylbenzene	5.0	8.8	8.8	ppbv	
TO15/NONE	GS	SG6-15, 1PV, P481cc	N	Vinyl Chloride	5.0	41.0	41.0	ppbv	
TO15/NONE	GS	SG6-15, 3PV, P1443cc	N	n-Butylbenzene	5.0	7.9	7.9	ppbv	
TO15/NONE	GS	SG6-15, 3PV, P1443cc	N	p-Cymene (p-Isopropyltoluene)	5.0	5.1	5.1 J	ppbv	C11
TO15/NONE	GS	SG6-15, 3PV, P1443cc	N	1,1-Dichloroethene	5.0	9.8	9.8	ppbv	
TO15/NONE	GS	SG6-15, 3PV, P1443cc	N	cis-1,2-Dichloroethylene	10.0	950	950	ppbv	
TO15/NONE	GS	SG6-15, 3PV, P1443cc	N	Trichloroethene (TCE)	5.0	7.9	7.9	ppbv	
TO15/NONE	GS	SG6-15, 3PV, P1443cc	N	1,2,4-Trimethylbenzene	5.0	24.0	24.0	ppbv	
TO15/NONE	GS	SG6-15, 3PV, P1443cc	N	1,3,5-Trimethylbenzene	5.0	6.9	6.9	ppbv	
TO15/NONE	GS	SG6-15, 3PV, P1443cc	N	Vinyl Chloride	5.0	190	190	ppbv	
TO15/NONE	GS	SG6-25, 10PV, P5298cc	N	sec-Butylbenzene	5.0	32.0	32.0	ppbv	
TO15/NONE	GS	SG6-25, 10PV, P5298cc	N	Benzene	5.0	160	160	ppbv	
TO15/NONE	GS	SG6-25, 10PV, P5298cc	N	Toluene	5.0	30.0	30.0	ppbv	
TO15/NONE	GS	SG6-25, 10PV, P5298cc	N	p-Cymene (p-Isopropyltoluene)	5.0	45.0	45.0 J	ppbv	C11
TO15/NONE	GS	SG6-25, 10PV, P5298cc	N	1,1-Dichloroethane	10.0	470	470	ppbv	
TO15/NONE	GS	SG6-25, 10PV, P5298cc	N	1,1-Dichloroethene	5.0	1700	1700	ppbv	
TO15/NONE	GS	SG6-25, 10PV, P5298cc	N	cis-1,2-Dichloroethylene	1000	120000	120000	ppbv	
TO15/NONE	GS	SG6-25, 10PV, P5298cc	N	trans-1,2-Dichloroethene	10.0	1100	1100	ppbv	

AUTOMATED DATA REVIEW SUMMARY for E304021

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SG6-25, 10PV, P5298cc	N	Ethylbenzene	5.0	20.0	20.0	ppbv	
TO15/NONE	GS	SG6-25, 10PV, P5298cc	N	Dichlorodifluoromethane	5.0	53.0	53.0	ppbv	
TO15/NONE	GS	SG6-25, 10PV, P5298cc	N	Isopropylbenzene (Cumene)	5.0	20.0	20.0	ppbv	
TO15/NONE	GS	SG6-25, 10PV, P5298cc	N	n-Propylbenzene	5.0	20.0	20.0	ppbv	
TO15/NONE	GS	SG6-25, 10PV, P5298cc	N	Tetrachloroethene (PCE)	5.0	8.9	8.9	ppbv	
TO15/NONE	GS	SG6-25, 10PV, P5298cc	N	Trichloroethene (TCE)	5.0	470	470	ppbv	
TO15/NONE	GS	SG6-25, 10PV, P5298cc	N	1,2,4-Trimethylbenzene	5.0	180	180	ppbv	
TO15/NONE	GS	SG6-25, 10PV, P5298cc	N	1,3,5-Trimethylbenzene	5.0	64.0	64.0	ppbv	
TO15/NONE	GS	SG6-25, 10PV, P5298cc	N	Vinyl Chloride	500	49000	49000	ppbv	
TO15/NONE	GS	SG6-25, 10PV, P5298cc	N	m,p-Xylene	10.0	51.0	51.0	ppbv	
TO15/NONE	GS	SG6-25, 10PV, P5298cc	N	o-Xylene	5.0	28.0	28.0	ppbv	
TO15/NONE	GS	SG6-25, 3PV, P1590cc	N	sec-Butylbenzene	5.0	15.0	15.0	ppbv	
TO15/NONE	GS	SG6-25, 3PV, P1590cc	N	tert-Butylbenzene	5.0	11.0	11.0	ppbv	
TO15/NONE	GS	SG6-25, 3PV, P1590cc	N	Benzene	5.0	52.0	52.0	ppbv	
TO15/NONE	GS	SG6-25, 3PV, P1590cc	N	Toluene	5.0	28.0	28.0	ppbv	
TO15/NONE	GS	SG6-25, 3PV, P1590cc	N	p-Cymene (p-Isopropyltoluene)	5.0	22.0	22.0 J	ppbv	C11
TO15/NONE	GS	SG6-25, 3PV, P1590cc	N	1,1-Dichloroethane	10.0	220	220	ppbv	
TO15/NONE	GS	SG6-25, 3PV, P1590cc	N	1,1-Dichloroethene	5.0	720	720	ppbv	
TO15/NONE	GS	SG6-25, 3PV, P1590cc	N	cis-1,2-Dichloroethylene	1000	110000	110000	ppbv	
TO15/NONE	GS	SG6-25, 3PV, P1590cc	N	trans-1,2-Dichloroethene	10.0	480	480	ppbv	
TO15/NONE	GS	SG6-25, 3PV, P1590cc	N	Ethylbenzene	5.0	11.0	11.0	ppbv	
TO15/NONE	GS	SG6-25, 3PV, P1590cc	N	Dichlorodifluoromethane	5.0	17.0	17.0	ppbv	

AUTOMATED DATA REVIEW SUMMARY for E304021

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SG6-25, 3PV, P1590cc	N	n-Propylbenzene	5.0	11.0	11.0	ppbv	
TO15/NONE	GS	SG6-25, 3PV, P1590cc	N	Tetrachloroethene (PCE)	5.0	11.0	11.0	ppbv	
TO15/NONE	GS	SG6-25, 3PV, P1590cc	N	Trichloroethene (TCE)	5.0	600	600	ppbv	
TO15/NONE	GS	SG6-25, 3PV, P1590cc	N	1,2,4-Trimethylbenzene	5.0	97.0	97.0	ppbv	
TO15/NONE	GS	SG6-25, 3PV, P1590cc	N	1,3,5-Trimethylbenzene	5.0	31.0	31.0	ppbv	
TO15/NONE	GS	SG6-25, 3PV, P1590cc	N	Vinyl Chloride	250	45000	45000	ppbv	
TO15/NONE	GS	SG6-25, 3PV, P1590cc	N	m,p-Xylene	10.0	35.0	35.0	ppbv	
TO15/NONE	GS	SG6-25, 3PV, P1590cc	N	o-Xylene	5.0	16.0	16.0	ppbv	
TO15/NONE	GS	SG6-5, 10PV, P4330cc	N	n-Butylbenzene	5.0	100	100	ppbv	
TO15/NONE	GS	SG6-5, 10PV, P4330cc	N	sec-Butylbenzene	5.0	50.0	50.0	ppbv	
TO15/NONE	GS	SG6-5, 10PV, P4330cc	N	tert-Butylbenzene	5.0	52.0	52.0	ppbv	
TO15/NONE	GS	SG6-5, 10PV, P4330cc	N	Benzene	5.0	11.0	11.0	ppbv	
TO15/NONE	GS	SG6-5, 10PV, P4330cc	N	Toluene	5.0	30.0	30.0	ppbv	
TO15/NONE	GS	SG6-5, 10PV, P4330cc	N	p-Cymene (p-Isopropyltoluene)	5.0	68.0	68.0 J	ppbv	C11
TO15/NONE	GS	SG6-5, 10PV, P4330cc	N	1,1-Dichloroethane	10.0	65.0	65.0	ppbv	
TO15/NONE	GS	SG6-5, 10PV, P4330cc	N	1,1-Dichloroethene	5.0	15.0	15.0	ppbv	
TO15/NONE	GS	SG6-5, 10PV, P4330cc	N	cis-1,2-Dichloroethylene	10.0	450	450	ppbv	
TO15/NONE	GS	SG6-5, 10PV, P4330cc	N	trans-1,2-Dichloroethene	10.0	16.0	16.0	ppbv	
TO15/NONE	GS	SG6-5, 10PV, P4330cc	N	Ethylbenzene	5.0	40.0	40.0	ppbv	
TO15/NONE	GS	SG6-5, 10PV, P4330cc	N	Dichlorodifluoromethane	5.0	8.9	8.9	ppbv	
TO15/NONE	GS	SG6-5, 10PV, P4330cc	N	Isopropylbenzene (Cumene)	5.0	29.0	29.0	ppbv	
TO15/NONE	GS	SG6-5, 10PV, P4330cc	N	n-Propylbenzene	5.0	38.0	38.0	ppbv	

AUTOMATED DATA REVIEW SUMMARY for E304021

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SG6-5, 10PV, P4330cc	N	Tetrachloroethene (PCE)	5.0	35.0	35.0	ppbv	
TO15/NONE	GS	SG6-5, 10PV, P4330cc	N	Trichloroethene (TCE)	5.0	89.0	89.0	ppbv	
TO15/NONE	GS	SG6-5, 10PV, P4330cc	N	1,2,4-Trimethylbenzene	5.0	460	460	ppbv	
TO15/NONE	GS	SG6-5, 10PV, P4330cc	N	1,3,5-Trimethylbenzene	5.0	140	140	ppbv	
TO15/NONE	GS	SG6-5, 10PV, P4330cc	N	Vinyl Chloride	25.0	2700	2700	ppbv	
TO15/NONE	GS	SG6-5, 10PV, P4330cc	N	m,p-Xylene	10.0	160	160	ppbv	
TO15/NONE	GS	SG6-5, 10PV, P4330cc	N	o-Xylene	5.0	82.0	82.0	ppbv	
TO15/NONE	GS	SG6-5, 1PV, P433cc	N	n-Butylbenzene	5.0	62.0	62.0	ppbv	
TO15/NONE	GS	SG6-5, 1PV, P433cc	N	sec-Butylbenzene	5.0	41.0	41.0	ppbv	
TO15/NONE	GS	SG6-5, 1PV, P433cc	N	tert-Butylbenzene	5.0	40.0	40.0	ppbv	
TO15/NONE	GS	SG6-5, 1PV, P433cc	N	Benzene	5.0	11.0	11.0	ppbv	
TO15/NONE	GS	SG6-5, 1PV, P433cc	N	Toluene	5.0	30.0	30.0	ppbv	
TO15/NONE	GS	SG6-5, 1PV, P433cc	N	p-Cymene (p-Isopropyltoluene)	5.0	55.0	55.0 J	ppbv	C11
TO15/NONE	GS	SG6-5, 1PV, P433cc	N	1,1-Dichloroethane	10.0	61.0	61.0	ppbv	
TO15/NONE	GS	SG6-5, 1PV, P433cc	N	1,1-Dichloroethene	5.0	17.0	17.0	ppbv	
TO15/NONE	GS	SG6-5, 1PV, P433cc	N	cis-1,2-Dichloroethylene	10.0	440	440	ppbv	
TO15/NONE	GS	SG6-5, 1PV, P433cc	N	trans-1,2-Dichloroethene	10.0	17.0	17.0	ppbv	
TO15/NONE	GS	SG6-5, 1PV, P433cc	N	Ethylbenzene	5.0	43.0	43.0	ppbv	
TO15/NONE	GS	SG6-5, 1PV, P433cc	N	Dichlorodifluoromethane	5.0	9.3	9.3	ppbv	
TO15/NONE	GS	SG6-5, 1PV, P433cc	N	Isopropylbenzene (Cumene)	5.0	27.0	27.0	ppbv	
TO15/NONE	GS	SG6-5, 1PV, P433cc	N	n-Propylbenzene	5.0	33.0	33.0	ppbv	
TO15/NONE	GS	SG6-5, 1PV, P433cc	N	Tetrachloroethene (PCE)	5.0	32.0	32.0	ppbv	
TO15/NONE	GS	SG6-5, 1PV, P433cc	N	Trichloroethene (TCE)	5.0	100	100	ppbv	
TO15/NONE	GS	SG6-5, 1PV, P433cc	N	1,2,4-Trimethylbenzene	5.0	350	350	ppbv	
TO15/NONE	GS	SG6-5, 1PV, P433cc	N	1,3,5-Trimethylbenzene	5.0	120	120	ppbv	

AUTOMATED DATA REVIEW SUMMARY for E304021

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SG6-5, 1PV, P433cc	N	Vinyl Chloride	25.0	1900	1900	ppbv	
TO15/NONE	GS	SG6-5, 1PV, P433cc	N	m,p-Xylene	10.0	150	150	ppbv	
TO15/NONE	GS	SG6-5, 1PV, P433cc	N	o-Xylene	5.0	74.0	74.0	ppbv	
TO15/NONE	GS	SG6-5, 3PV, P1299cc	N	n-Butylbenzene	5.0	62.0	62.0	ppbv	
TO15/NONE	GS	SG6-5, 3PV, P1299cc	N	sec-Butylbenzene	5.0	39.0	39.0	ppbv	
TO15/NONE	GS	SG6-5, 3PV, P1299cc	N	tert-Butylbenzene	5.0	37.0	37.0	ppbv	
TO15/NONE	GS	SG6-5, 3PV, P1299cc	N	Benzene	5.0	13.0	13.0	ppbv	
TO15/NONE	GS	SG6-5, 3PV, P1299cc	N	Toluene	5.0	29.0	29.0	ppbv	
TO15/NONE	GS	SG6-5, 3PV, P1299cc	N	p-Cymene (p-Isopropyltoluene)	5.0	51.0	51.0 J	ppbv	C11
TO15/NONE	GS	SG6-5, 3PV, P1299cc	N	1,1-Dichloroethane	10.0	53.0	53.0	ppbv	
TO15/NONE	GS	SG6-5, 3PV, P1299cc	N	1,1-Dichloroethene	5.0	11.0	11.0	ppbv	
TO15/NONE	GS	SG6-5, 3PV, P1299cc	N	cis-1,2-Dichloroethylene	10.0	380	380	ppbv	
TO15/NONE	GS	SG6-5, 3PV, P1299cc	N	trans-1,2-Dichloroethene	10.0	16.0	16.0	ppbv	
TO15/NONE	GS	SG6-5, 3PV, P1299cc	N	Ethylbenzene	5.0	37.0	37.0	ppbv	
TO15/NONE	GS	SG6-5, 3PV, P1299cc	N	Dichlorodifluoromethane	5.0	6.5	6.5	ppbv	
TO15/NONE	GS	SG6-5, 3PV, P1299cc	N	Isopropylbenzene (Cumene)	5.0	26.0	26.0	ppbv	
TO15/NONE	GS	SG6-5, 3PV, P1299cc	N	n-Propylbenzene	5.0	31.0	31.0	ppbv	
TO15/NONE	GS	SG6-5, 3PV, P1299cc	N	Tetrachloroethene (PCE)	5.0	28.0	28.0	ppbv	
TO15/NONE	GS	SG6-5, 3PV, P1299cc	N	Trichloroethene (TCE)	5.0	80.0	80.0	ppbv	
TO15/NONE	GS	SG6-5, 3PV, P1299cc	N	1,2,4-Trimethylbenzene	5.0	330	330	ppbv	
TO15/NONE	GS	SG6-5, 3PV, P1299cc	N	1,3,5-Trimethylbenzene	5.0	110	110	ppbv	
TO15/NONE	GS	SG6-5, 3PV, P1299cc	N	Vinyl Chloride	5.0	1900	1900	ppbv	
TO15/NONE	GS	SG6-5, 3PV, P1299cc	N	m,p-Xylene	10.0	130	130	ppbv	
TO15/NONE	GS	SG6-5, 3PV, P1299cc	N	o-Xylene	5.0	67.0	67.0	ppbv	

AUTOMATED DATA REVIEW SUMMARY for E304021

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for E304025

Facility: Southern Avenue Industrial Area

Soil Gas Event, H&P Mobile Lab Remaining Samples, April 2013

Guidance Document:

Contract Laboratory: H&P MOBILE GEOCHEMISTRY, CARLSBAD, CA

Field Contractor:

Data Review Contractor: ITSI Gilbane

SDG: E304025, Certified - 5/2/2013 by wtse

QC Level: S1BVEM

Project Manager: Don Gruber

Data Reviewer: Tom Beer

Data Reviewer Title: Project Chemist

Date of Review Report: June 14, 2013

Second Reviewer:

Completion Date of Second Reviewer:

Samples Included in SDG E304025

Analytical Method/ Leach Method	Normal Gaseous Samples	Field QC Gaseous Samples
TO15/NONE	91	8

AUTOMATED DATA REVIEW SUMMARY for E304025

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by H&P MOBILE GEOCHEMISTRY, CARLSBAD, CA and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- LCS Recovery
- Prep Hold Time
- Surrogate
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- MS Recovery
- MS RPD
- Negative Blank
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for E304025

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 7 results (0.18%) out of the 3960 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Reviewed H&P Lab Level 3 Analytical Report.

Checked for COC and calibration issues, none noted.

Qualifiers were added to a limited number of detected results due to field duplicate imprecision with the R9 Lab split Summa canister samples.

14-Jun-2013

Released by Tom Beer, Project Chemist

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Code	Definition
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action
O	Interference check sample
P	Sample preservation/collection requirement not met.

Reason and Comment Code Definitions

P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.
J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

Batch Report

Test Method: TO15; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
NA	NA	NA	JW-SB/SG01	GS	JW-SB1-15, P4814cc	E304085-05	NA	1/1	18-Apr-2013 10:32 AM	18-Apr-2013 10:33 AM	18-Apr-2013 11:00 AM	N
	NA	NA	JW-SB/SG01	GS	JW-SB1-25, P5298cc	E304085-06	NA	1/1	18-Apr-2013 11:10 AM	18-Apr-2013 11:15 AM	18-Apr-2013 11:22 AM	N
	NA	NA	JW-SB/SG01	GS	JW-SB1-35, P5806cc	E304085-07	NA	1/1	18-Apr-2013 11:38 AM	18-Apr-2013 11:40 AM	18-Apr-2013 11:45 AM	N
	NA	NA	JW-SB/SG01	GS	JW-SB1-5, P4330cc	E304085-04	NA	1/1	18-Apr-2013 10:11 AM	18-Apr-2013 10:13 AM	18-Apr-2013 10:21 AM	N
	NA	NA	JW-SB/SG02	GS	JW-SB2-15, P4814cc	E304085-10	NA	1/1	18-Apr-2013 1:22 PM	18-Apr-2013 1:23 PM	18-Apr-2013 1:33 PM	N
	NA	NA	JW-SB/SG02	GS	JW-SB2-25, P5298cc	E304085-09	NA	1/1	18-Apr-2013 12:45 PM	18-Apr-2013 12:48 PM	18-Apr-2013 12:52 PM	N
	NA	NA	JW-SB/SG02	GS	JW-SB2-25, P5298cc	E304085-09	NA	1/10	18-Apr-2013 12:45 PM	18-Apr-2013 12:48 PM	18-Apr-2013 12:52 PM	N
	NA	NA	JW-SB/SG02	GS	JW-SB2-25, P5298cc	E304085-09	NA	1/25	18-Apr-2013 12:45 PM	18-Apr-2013 12:48 PM	18-Apr-2013 12:52 PM	N
	NA	NA	JW-SB/SG02	GS	JW-SB2-35, P5806cc	E304085-11	NA	1/1	18-Apr-2013 1:45 PM	18-Apr-2013 1:50 PM	18-Apr-2013 1:56 PM	N
	NA	NA	JW-SB/SG02	GS	JW-SB2-35, P5806cc	E304085-11	NA	1/25	18-Apr-2013 1:45 PM	18-Apr-2013 1:50 PM	18-Apr-2013 1:56 PM	N
	NA	NA	JW-SB/SG02	GS	JW-SB2-5, P4330cc	E304085-08	NA	1/1	18-Apr-2013 11:59 AM	18-Apr-2013 12:02 PM	18-Apr-2013 12:08 PM	N
	NA	NA	JW-SB/SG02	GS	JW-SB2-5, P4330cc	E304085-08	NA	1/5	18-Apr-2013 11:59 AM	18-Apr-2013 12:02 PM	18-Apr-2013 12:08 PM	N
	NA	NA	JW-SB/SG03	GS	JW-SB3-35, P5806cc	E304085-03	NA	1/1	18-Apr-2013 9:04 AM	18-Apr-2013 9:06 AM	18-Apr-2013 9:12 AM	N
	NA	NA	JW-SB/SG03	GS	JW-SB3-5 Rep, P4380cc	E304085-02	NA	1/1	18-Apr-2013 8:10 AM	18-Apr-2013 8:12 AM	18-Apr-2013 8:18 AM	FD
	NA	NA	JW-SB/SG03	GS	JW-SB3-5, P4330cc	E304085-01	NA	1/1	18-Apr-2013 7:45 AM	18-Apr-2013 7:46 AM	18-Apr-2013 7:56 AM	N
	NA	NA	JW-SB/SG04	GS	JW-SB4-15, P4814cc	E304070-11	NA	1/1	17-Apr-2013 2:35 PM	17-Apr-2013 2:37 PM	17-Apr-2013 3:03 PM	N
	NA	NA	JW-SB/SG04	GS	JW-SB4-35, P5806cc	E304070-12	NA	1/1	17-Apr-2013 3:17 PM	17-Apr-2013 3:18 PM	17-Apr-2013 3:26 PM	N
	NA	NA	JW-SB/SG04	GS	JW-SB4-35, P5806cc	E304070-12	NA	1/10	17-Apr-2013 3:17 PM	17-Apr-2013 3:18 PM	17-Apr-2013 3:26 PM	N
	NA	NA	JW-SB/SG04	GS	JW-SB4-5, P4330cc	E304070-10	NA	1/1	17-Apr-2013 2:05 PM	17-Apr-2013 2:08 PM	17-Apr-2013 2:17 PM	N
	NA	NA	JW-SB/SG05	GS	JW-SB5-25, P5298cc	E304070-08	NA	1/1	17-Apr-2013 12:58 PM	17-Apr-2013 12:59 PM	17-Apr-2013 1:06 PM	N
	NA	NA	JW-SB/SG05	GS	JW-SB5-25, P5298cc	E304070-08	NA	1/10	17-Apr-2013 12:58 PM	17-Apr-2013 12:59 PM	17-Apr-2013 1:06 PM	N

Batch Report

NA	NA	NA	JW-SB/SG05	GS	JW-SB5-35, P5806cc	E304070-09	NA	1/1	17-Apr-2013 1:48 PM	17-Apr-2013 1:50 PM	17-Apr-2013 1:58 PM	N
	NA	NA	JW-SB/SG05	GS	JW-SB5-35, P5806cc	E304070-09	NA	1/10	17-Apr-2013 1:48 PM	17-Apr-2013 1:50 PM	17-Apr-2013 1:58 PM	N
	NA	NA	JW-SB/SG05	GS	JW-SB5-5, P4330cc	E304070-07	NA	1/1	17-Apr-2013 12:35 PM	17-Apr-2013 12:37 PM	17-Apr-2013 12:43 PM	N
	NA	NA	JW-SB/SG06	GS	JW-SB6-15, P4814cc	E304070-03	NA	1/1	17-Apr-2013 9:38 AM	17-Apr-2013 9:40 AM	17-Apr-2013 10:06 AM	N
	NA	NA	JW-SB/SG06	GS	JW-SB6-25, P5298cc	E304070-04	NA	1/1	17-Apr-2013 10:20 AM	17-Apr-2013 10:25 AM	17-Apr-2013 10:28 AM	N
	NA	NA	JW-SB/SG06	GS	JW-SB6-25, P5298cc	E304070-04	NA	1/5	17-Apr-2013 10:20 AM	17-Apr-2013 10:25 AM	17-Apr-2013 10:28 AM	N
	NA	NA	JW-SB/SG06	GS	JW-SB6-35 Rep, P5906cc	E304070-06	NA	1/1	17-Apr-2013 12:03 PM	17-Apr-2013 12:05 PM	17-Apr-2013 12:09 PM	FD
	NA	NA	JW-SB/SG06	GS	JW-SB6-35, P5806cc	E304070-05	NA	1/1	17-Apr-2013 11:23 AM	17-Apr-2013 11:25 AM	17-Apr-2013 11:49 AM	N
	NA	NA	JW-SB/SG06	GS	JW-SB6-5, P4330cc	E304070-02	NA	1/1	17-Apr-2013 9:15 AM	17-Apr-2013 9:15 AM	17-Apr-2013 9:24 AM	N
	NA	NA	LABQC	GQ	LABQC	ED30905-BS1	NA	1/1	09-Apr-2013 5:46 AM	09-Apr-2013 5:46 AM	09-Apr-2013 4:02 PM	BS
	NA	NA	LABQC	GQ	LABQC	ED31002-BS1	NA	1/1	10-Apr-2013 5:32 AM	10-Apr-2013 5:32 AM	10-Apr-2013 3:47 PM	BS
	NA	NA	LABQC	GQ	LABQC	ED31101-BS1	NA	1/1	11-Apr-2013 5:57 AM	11-Apr-2013 5:57 AM	11-Apr-2013 3:56 PM	BS
	NA	NA	LABQC	GQ	LABQC	ED31201-BS1	NA	1/1	12-Apr-2013 6:02 AM	12-Apr-2013 6:02 AM	12-Apr-2013 4:30 PM	BS
	NA	NA	LABQC	GQ	LABQC	ED31503-BS1	NA	1/1	15-Apr-2013 7:53 AM	15-Apr-2013 7:53 AM	15-Apr-2013 4:31 PM	BS
	NA	NA	LABQC	GQ	LABQC	ED31601-BS1	NA	1/1	16-Apr-2013 6:08 AM	16-Apr-2013 6:08 AM	16-Apr-2013 4:34 PM	BS
	NA	NA	LABQC	GQ	LABQC	ED31703-BS1	NA	1/1	17-Apr-2013 6:03 AM	17-Apr-2013 6:03 AM	17-Apr-2013 3:47 PM	BS
	NA	NA	LABQC	GQ	LABQC	ED31801-BS1	NA	1/1	18-Apr-2013 6:03 AM	18-Apr-2013 6:03 AM	18-Apr-2013 3:20 PM	BS
	NA	NA	LABQC	GQ	LABQC	ED31801-BLK1	NA	1/1	18-Apr-2013 6:03 AM	18-Apr-2013 6:03 AM	18-Apr-2013 7:13 AM	LB
	NA	NA	LABQC	GQ	LABQC	ED31703-BLK1	NA	1/1	17-Apr-2013 6:03 AM	17-Apr-2013 6:03 AM	17-Apr-2013 7:28 AM	LB
	NA	NA	LABQC	GQ	LABQC	ED31601-BLK1	NA	1/1	16-Apr-2013 6:08 AM	16-Apr-2013 6:08 AM	16-Apr-2013 7:47 AM	LB
	NA	NA	LABQC	GQ	LABQC	ED31503-BLK1	NA	1/1	15-Apr-2013 7:53 AM	15-Apr-2013 7:53 AM	15-Apr-2013 7:53 AM	LB
	NA	NA	LABQC	GQ	LABQC	ED31201-BLK1	NA	1/1	12-Apr-2013 6:02 AM	12-Apr-2013 6:02 AM	12-Apr-2013 7:22 AM	LB
	NA	NA	LABQC	GQ	LABQC	ED31101-BLK1	NA	1/1	11-Apr-2013 5:57 AM	11-Apr-2013 5:57 AM	11-Apr-2013 7:05 AM	LB
	NA	NA	LABQC	GQ	LABQC	ED31002-BLK1	NA	1/1	10-Apr-2013 5:32 AM	10-Apr-2013 5:32 AM	10-Apr-2013 7:26 AM	LB

AUTOMATED DATA REVIEW SUMMARY for E304025

Batch Report

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
NA	NA	NA	LABQC	GQ	LABQC	ED30905-BLK1	NA	1/1	09-Apr-2013 5:46 AM	09-Apr-2013 5:46 AM	09-Apr-2013 6:29 AM	LB
	NA	NA	SAIA-SB/SG01	GS	SG1-15, P4814cc	E304054-05	NA	1/1	12-Apr-2013 10:00 AM	12-Apr-2013 10:02 AM	12-Apr-2013 10:09 AM	N
	NA	NA	SAIA-SB/SG01	GS	SG1-25, P5298cc	E304054-06	NA	1/1	12-Apr-2013 11:08 AM	12-Apr-2013 11:10 AM	12-Apr-2013 11:17 AM	N
	NA	NA	SAIA-SB/SG01	GS	SG1-25, P5298cc	E304054-06	NA	1/10	12-Apr-2013 11:08 AM	12-Apr-2013 11:10 AM	12-Apr-2013 11:17 AM	N
	NA	NA	SAIA-SB/SG01	GS	SG1-35, P5806cc	E304054-07	NA	1/1	12-Apr-2013 12:06 PM	12-Apr-2013 12:08 PM	12-Apr-2013 12:17 PM	N
	NA	NA	SAIA-SB/SG01	GS	SG1-35, P5806cc	E304054-07	NA	1/10	12-Apr-2013 12:06 PM	12-Apr-2013 12:08 PM	12-Apr-2013 12:17 PM	N
	NA	NA	SAIA-SB/SG01	GS	SG1-5, P4330cc	E304054-04	NA	1/1	12-Apr-2013 9:33 AM	12-Apr-2013 9:35 AM	12-Apr-2013 9:44 AM	N
	NA	NA	SAIA-SB/SG02	GS	SG2-15, P4814cc	E304043-09	NA	1/1	11-Apr-2013 1:04 PM	11-Apr-2013 1:04 PM	11-Apr-2013 1:14 PM	N
	NA	NA	SAIA-SB/SG02	GS	SG2-15, P4814cc	E304043-09	NA	1/10	11-Apr-2013 1:04 PM	11-Apr-2013 1:04 PM	11-Apr-2013 1:14 PM	N
	NA	NA	SAIA-SB/SG02	GS	SG2-25, P5298cc	E304043-10	NA	1/1	11-Apr-2013 1:46 PM	11-Apr-2013 1:46 PM	11-Apr-2013 1:55 PM	N
	NA	NA	SAIA-SB/SG02	GS	SG2-25, P5298cc	E304043-10	NA	1/2.5	11-Apr-2013 1:46 PM	11-Apr-2013 1:46 PM	11-Apr-2013 1:55 PM	N
	NA	NA	SAIA-SB/SG02	GS	SG2-35, P5806cc	E304043-11	NA	1/1	11-Apr-2013 2:10 PM	11-Apr-2013 2:12 PM	11-Apr-2013 2:18 PM	N
	NA	NA	SAIA-SB/SG02	GS	SG2-35, P5806cc	E304043-11	NA	1/125	11-Apr-2013 2:10 PM	11-Apr-2013 2:12 PM	11-Apr-2013 2:18 PM	N
	NA	NA	SAIA-SB/SG02	GS	SG2-35, P5806cc	E304043-11	NA	1/2.5	11-Apr-2013 2:10 PM	11-Apr-2013 2:12 PM	11-Apr-2013 2:18 PM	N
	NA	NA	SAIA-SB/SG02	GS	SG2-5 Rep, P5580cc	E304043-08	NA	1/1	11-Apr-2013 12:43 PM	11-Apr-2013 12:45 PM	11-Apr-2013 12:51 PM	FD
	NA	NA	SAIA-SB/SG02	GS	SG2-5 Rep, P5580cc	E304043-08	NA	1/2.5	11-Apr-2013 12:43 PM	11-Apr-2013 12:45 PM	11-Apr-2013 12:51 PM	FD
	NA	NA	SAIA-SB/SG02	GS	SG2-5, P4330cc	E304043-07	NA	1/1	11-Apr-2013 12:01 PM	11-Apr-2013 12:02 PM	11-Apr-2013 12:32 PM	N
	NA	NA	SAIA-SB/SG02	GS	SG2-5, P4330cc	E304043-07	NA	1/2.5	11-Apr-2013 12:01 PM	11-Apr-2013 12:02 PM	11-Apr-2013 12:32 PM	N
	NA	NA	SAIA-SB/SG03	GS	SG3-15, P4814cc	E304043-02	NA	1/1	11-Apr-2013 8:16 AM	11-Apr-2013 8:18 AM	11-Apr-2013 8:47 AM	N
	NA	NA	SAIA-SB/SG03	GS	SG3-15, P4814cc	E304043-02	NA	1/25	11-Apr-2013 8:16 AM	11-Apr-2013 8:18 AM	11-Apr-2013 8:47 AM	N
	NA	NA	SAIA-SB/SG03	GS	SG3-25, P5298cc	E304035-11	NA	1/1	10-Apr-2013 2:56 PM	10-Apr-2013 2:58 PM	10-Apr-2013 3:22 PM	N
	NA	NA	SAIA-SB/SG03	GS	SG3-25, P5298cc	E304035-11	NA	1/100	10-Apr-2013 2:56 PM	10-Apr-2013 2:58 PM	10-Apr-2013 3:22 PM	N

AUTOMATED DATA REVIEW SUMMARY for E304025

Batch Report

NA	NA	NA	SAIA-SB/SG03	GS	SG3-35, P5806cc	E304043-01	NA	1/1	11-Apr-2013 7:53 AM	11-Apr-2013 7:55 AM	11-Apr-2013 8:05 AM	N
	NA	NA	SAIA-SB/SG03	GS	SG3-35, P5806cc	E304043-01	NA	1/1250	11-Apr-2013 7:53 AM	11-Apr-2013 7:55 AM	11-Apr-2013 8:05 AM	N
	NA	NA	SAIA-SB/SG03	GS	SG3-5 Rep, P4380cc	E304035-10	NA	1/1	10-Apr-2013 2:22 PM	10-Apr-2013 2:23 PM	10-Apr-2013 2:32 PM	FD
	NA	NA	SAIA-SB/SG03	GS	SG3-5 Rep, P4380cc	E304035-10	NA	1/100	10-Apr-2013 2:22 PM	10-Apr-2013 2:23 PM	10-Apr-2013 2:32 PM	FD
	NA	NA	SAIA-SB/SG03	GS	SG3-5, P4330cc	E304035-09	NA	1/1	10-Apr-2013 1:42 PM	10-Apr-2013 1:45 PM	10-Apr-2013 2:13 PM	N
	NA	NA	SAIA-SB/SG03	GS	SG3-5, P4330cc	E304035-09	NA	1/100	10-Apr-2013 1:42 PM	10-Apr-2013 1:45 PM	10-Apr-2013 2:13 PM	N
	NA	NA	SAIA-SB/SG04	GS	SG4-15, P4814cc	E304043-04	NA	1/1	11-Apr-2013 10:04 AM	11-Apr-2013 10:05 AM	11-Apr-2013 10:32 AM	N
	NA	NA	SAIA-SB/SG04	GS	SG4-15, P4814cc	E304043-04	NA	1/50	11-Apr-2013 10:04 AM	11-Apr-2013 10:05 AM	11-Apr-2013 10:32 AM	N
	NA	NA	SAIA-SB/SG04	GS	SG4-25, P5298cc	E304043-05	NA	1/1	11-Apr-2013 10:43 AM	11-Apr-2013 10:44 AM	11-Apr-2013 10:53 AM	N
	NA	NA	SAIA-SB/SG04	GS	SG4-25, P5298cc	E304043-05	NA	1/125	11-Apr-2013 10:43 AM	11-Apr-2013 10:44 AM	11-Apr-2013 10:53 AM	N
	NA	NA	SAIA-SB/SG04	GS	SG4-25, P5298cc	E304043-05	NA	1/50	11-Apr-2013 10:43 AM	11-Apr-2013 10:44 AM	11-Apr-2013 10:53 AM	N
	NA	NA	SAIA-SB/SG04	GS	SG4-35, P5806cc	E304043-06	NA	1/1	11-Apr-2013 11:22 AM	11-Apr-2013 11:25 AM	11-Apr-2013 11:33 AM	N
	NA	NA	SAIA-SB/SG04	GS	SG4-35, P5806cc	E304043-06	NA	1/125	11-Apr-2013 11:22 AM	11-Apr-2013 11:25 AM	11-Apr-2013 11:33 AM	N
	NA	NA	SAIA-SB/SG04	GS	SG4-5, P4330cc	E304043-03	NA	1/1	11-Apr-2013 9:02 AM	11-Apr-2013 9:05 AM	11-Apr-2013 9:12 AM	N
	NA	NA	SAIA-SB/SG04	GS	SG4-5, P4330cc	E304043-03	NA	1/125	11-Apr-2013 9:02 AM	11-Apr-2013 9:05 AM	11-Apr-2013 9:12 AM	N
	NA	NA	SAIA-SB/SG05	GS	SG5-15, P4814cc	E304065-06	NA	1/1	16-Apr-2013 11:10 AM	16-Apr-2013 11:12 AM	16-Apr-2013 11:41 AM	N
	NA	NA	SAIA-SB/SG05	GS	SG5-25, P5298cc	E304065-07	NA	1/1	16-Apr-2013 11:54 AM	16-Apr-2013 11:55 AM	16-Apr-2013 12:03 PM	N
	NA	NA	SAIA-SB/SG05	GS	SG5-35, P5806cc	E304065-08	NA	1/1	16-Apr-2013 12:14 PM	16-Apr-2013 12:15 PM	16-Apr-2013 12:24 PM	N
	NA	NA	SAIA-SB/SG05	GS	SG5-35, P5806cc	E304065-08	NA	1/10	16-Apr-2013 12:14 PM	16-Apr-2013 12:15 PM	16-Apr-2013 12:24 PM	N
	NA	NA	SAIA-SB/SG05	GS	SG5-5 Rep, P4380cc	E304065-05	NA	1/1	16-Apr-2013 10:50 AM	16-Apr-2013 10:53 AM	16-Apr-2013 10:55 AM	FD
	NA	NA	SAIA-SB/SG05	GS	SG5-5, P4330cc	E304065-04	NA	1/1	16-Apr-2013 10:30 AM	16-Apr-2013 10:32 AM	16-Apr-2013 10:36 AM	N
	NA	NA	SAIA-SB/SG06	GS	SG6-35, 10PV, P5806cc	E304025-03	NA	1/1	09-Apr-2013 9:46 AM	09-Apr-2013 9:48 AM	09-Apr-2013 9:54 AM	N
	NA	NA	SAIA-SB/SG06	GS	SG6-35, 10PV, P5806cc	E304025-03	NA	1/25	09-Apr-2013 9:46 AM	09-Apr-2013 9:48 AM	09-Apr-2013 9:54 AM	N
	NA	NA	SAIA-SB/SG06	GS	SG6-35, 1PV, P581cc	E304025-01	NA	1/1	09-Apr-2013 7:06 AM	09-Apr-2013 7:08 AM	09-Apr-2013 7:17 AM	N

AUTOMATED DATA REVIEW SUMMARY for E304025

Batch Report

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
NA	NA	NA	SAIA-SB/SG06	GS	SG6-35, 1PV, P581cc	E304025-01	NA	1/100	09-Apr-2013 7:06 AM	09-Apr-2013 7:08 AM	09-Apr-2013 7:17 AM	N
	NA	NA	SAIA-SB/SG06	GS	SG6-35, 3PV, P1742cc	E304025-02	NA	1/1	09-Apr-2013 8:18 AM	09-Apr-2013 8:20 AM	09-Apr-2013 8:28 AM	N
	NA	NA	SAIA-SB/SG06	GS	SG6-35, 3PV, P1742cc	E304025-02	NA	1/25	09-Apr-2013 8:18 AM	09-Apr-2013 8:20 AM	09-Apr-2013 8:28 AM	N
	NA	NA	SAIA-SB/SG07	GS	SG7-15, P4814cc	E304065-01	NA	1/1	16-Apr-2013 8:03 AM	16-Apr-2013 8:05 AM	16-Apr-2013 8:33 AM	N
	NA	NA	SAIA-SB/SG07	GS	SG7-25, P5298cc	E304065-02	NA	1/1	16-Apr-2013 8:50 AM	16-Apr-2013 8:55 AM	16-Apr-2013 8:57 AM	N
	NA	NA	SAIA-SB/SG07	GS	SG7-25, P5298cc	E304065-02	NA	1/25	16-Apr-2013 8:50 AM	16-Apr-2013 8:55 AM	16-Apr-2013 8:57 AM	N
	NA	NA	SAIA-SB/SG07	GS	SG7-35, P5806cc	E304065-03	NA	1/1	16-Apr-2013 9:50 AM	16-Apr-2013 9:53 AM	16-Apr-2013 9:56 AM	N
	NA	NA	SAIA-SB/SG07	GS	SG7-35, P5806cc	E304065-03	NA	1/125	16-Apr-2013 9:50 AM	16-Apr-2013 9:53 AM	16-Apr-2013 9:56 AM	N
	NA	NA	SAIA-SB/SG07	GS	SG7-35, P5806cc	E304065-03	NA	1/25	16-Apr-2013 9:50 AM	16-Apr-2013 9:53 AM	16-Apr-2013 9:56 AM	N
	NA	NA	SAIA-SB/SG07	GS	SG7-5 Rep, P4380cc	E304060-12	NA	1/1	15-Apr-2013 3:34 PM	15-Apr-2013 3:36 PM	15-Apr-2013 3:43 PM	FD
	NA	NA	SAIA-SB/SG07	GS	SG7-5 Rep, P4380cc	E304060-12	NA	1/50	15-Apr-2013 3:34 PM	15-Apr-2013 3:36 PM	15-Apr-2013 3:43 PM	FD
	NA	NA	SAIA-SB/SG07	GS	SG7-5, P4330cc	E304060-11	NA	1/1	15-Apr-2013 2:57 PM	15-Apr-2013 3:00 PM	15-Apr-2013 3:23 PM	N
	NA	NA	SAIA-SB/SG07	GS	SG7-5, P4330cc	E304060-11	NA	1/50	15-Apr-2013 2:57 PM	15-Apr-2013 3:00 PM	15-Apr-2013 3:23 PM	N
	NA	NA	SAIA-SB/SG08	GS	SG8-15, P4814cc	E304060-08	NA	1/1	15-Apr-2013 1:38 PM	15-Apr-2013 1:40 PM	15-Apr-2013 1:48 PM	N
	NA	NA	SAIA-SB/SG08	GS	SG8-15, P4814cc	E304060-08	NA	1/500	15-Apr-2013 1:38 PM	15-Apr-2013 1:40 PM	15-Apr-2013 1:48 PM	N
	NA	NA	SAIA-SB/SG08	GS	SG8-25, P5298cc	E304060-09	NA	1/1	15-Apr-2013 2:08 PM	15-Apr-2013 2:10 PM	15-Apr-2013 2:18 PM	N
	NA	NA	SAIA-SB/SG08	GS	SG8-25, P5298cc	E304060-09	NA	1/625	15-Apr-2013 2:08 PM	15-Apr-2013 2:10 PM	15-Apr-2013 2:18 PM	N
	NA	NA	SAIA-SB/SG08	GS	SG8-35, P5806cc	E304060-10	NA	1/1	15-Apr-2013 2:34 PM	15-Apr-2013 2:37 PM	15-Apr-2013 2:44 PM	N
	NA	NA	SAIA-SB/SG08	GS	SG8-35, P5806cc	E304060-10	NA	1/1000	15-Apr-2013 2:34 PM	15-Apr-2013 2:37 PM	15-Apr-2013 2:44 PM	N
	NA	NA	SAIA-SB/SG08	GS	SG8-5, P4330cc	E304060-07	NA	1/1	15-Apr-2013 1:05 PM	15-Apr-2013 1:06 PM	15-Apr-2013 1:11 PM	N
	NA	NA	SAIA-SB/SG08	GS	SG8-5, P4330cc	E304060-07	NA	1/500	15-Apr-2013 1:05 PM	15-Apr-2013 1:06 PM	15-Apr-2013 1:11 PM	N
	NA	NA	SAIA-SB/SG09	GS	SG9-15, P4814cc	E304035-06	NA	1/1	10-Apr-2013 11:13 AM	10-Apr-2013 11:15 AM	10-Apr-2013 11:25 AM	N

Batch Report

NA	NA	NA	SAIA-SB/SG09	GS	SG9-15, P4814cc	E304035-06	NA	1/1250	10-Apr-2013 11:13 AM	10-Apr-2013 11:15 AM	10-Apr-2013 11:25 AM	N
	NA	NA	SAIA-SB/SG09	GS	SG9-25, P5298cc	E304035-07	NA	1/1	10-Apr-2013 11:39 AM	10-Apr-2013 11:42 AM	10-Apr-2013 11:49 AM	N
	NA	NA	SAIA-SB/SG09	GS	SG9-25, P5298cc	E304035-07	NA	1/1250	10-Apr-2013 11:39 AM	10-Apr-2013 11:42 AM	10-Apr-2013 11:49 AM	N
	NA	NA	SAIA-SB/SG09	GS	SG9-25, P5298cc	E304035-07	NA	1/2500	10-Apr-2013 11:39 AM	10-Apr-2013 11:42 AM	10-Apr-2013 11:49 AM	N
	NA	NA	SAIA-SB/SG09	GS	SG9-35, P5806cc	E304035-08	NA	1/1	10-Apr-2013 12:45 PM	10-Apr-2013 12:48 PM	10-Apr-2013 12:49 PM	N
	NA	NA	SAIA-SB/SG09	GS	SG9-35, P5806cc	E304035-08	NA	1/25	10-Apr-2013 12:45 PM	10-Apr-2013 12:48 PM	10-Apr-2013 12:49 PM	N
	NA	NA	SAIA-SB/SG09	GS	SG9-35, P5806cc	E304035-08	NA	1/2500	10-Apr-2013 12:45 PM	10-Apr-2013 12:48 PM	10-Apr-2013 12:49 PM	N
	NA	NA	SAIA-SB/SG09	GS	SG9-5, P4330cc	E304035-05	NA	1/1	10-Apr-2013 10:48 AM	10-Apr-2013 10:50 AM	10-Apr-2013 11:00 AM	N
	NA	NA	SAIA-SB/SG09	GS	SG9-5, P4330cc	E304035-05	NA	1/1250	10-Apr-2013 10:48 AM	10-Apr-2013 10:50 AM	10-Apr-2013 11:00 AM	N
	NA	NA	SAIA-SB/SG10	GS	SG10-15, P4814cc	E304035-02	NA	1/1	10-Apr-2013 9:00 AM	10-Apr-2013 9:01 AM	10-Apr-2013 9:05 AM	N
	NA	NA	SAIA-SB/SG10	GS	SG10-15, P4814cc	E304035-02	NA	1/1250	10-Apr-2013 9:00 AM	10-Apr-2013 9:01 AM	10-Apr-2013 9:05 AM	N
	NA	NA	SAIA-SB/SG10	GS	SG10-25, P5298cc	E304035-03	NA	1/1	10-Apr-2013 9:31 AM	10-Apr-2013 9:33 AM	10-Apr-2013 9:40 AM	N
	NA	NA	SAIA-SB/SG10	GS	SG10-25, P5298cc	E304035-03	NA	1/1250	10-Apr-2013 9:31 AM	10-Apr-2013 9:33 AM	10-Apr-2013 9:40 AM	N
	NA	NA	SAIA-SB/SG10	GS	SG10-25, P5298cc	E304035-03	NA	1/2500	10-Apr-2013 9:31 AM	10-Apr-2013 9:33 AM	10-Apr-2013 9:40 AM	N
	NA	NA	SAIA-SB/SG10	GS	SG10-35, P5806cc	E304035-04	NA	1/1	10-Apr-2013 10:05 AM	10-Apr-2013 10:07 AM	10-Apr-2013 10:36 AM	N
	NA	NA	SAIA-SB/SG10	GS	SG10-35, P5806cc	E304035-04	NA	1/100	10-Apr-2013 10:05 AM	10-Apr-2013 10:07 AM	10-Apr-2013 10:36 AM	N
	NA	NA	SAIA-SB/SG10	GS	SG10-5, P4330cc	E304035-01	NA	1/1	10-Apr-2013 7:36 AM	10-Apr-2013 7:38 AM	10-Apr-2013 7:49 AM	N
	NA	NA	SAIA-SB/SG10	GS	SG10-5, P4330cc	E304035-01	NA	1/25	10-Apr-2013 7:36 AM	10-Apr-2013 7:38 AM	10-Apr-2013 7:49 AM	N
	NA	NA	SAIA-SB/SG10	GS	SG10-5, P4330cc	E304035-01	NA	1/2500	10-Apr-2013 7:36 AM	10-Apr-2013 7:38 AM	10-Apr-2013 7:49 AM	N
	NA	NA	SAIA-SB/SG11	GS	SG11-15, P4814cc	E304065-10	NA	1/1	16-Apr-2013 1:08 PM	16-Apr-2013 1:10 PM	16-Apr-2013 1:15 PM	N
	NA	NA	SAIA-SB/SG11	GS	SG11-25, P5298cc	E304065-11	NA	1/1	16-Apr-2013 1:42 PM	16-Apr-2013 1:45 PM	16-Apr-2013 1:47 PM	N
	NA	NA	SAIA-SB/SG11	GS	SG11-35, P5806cc	E304065-12	NA	1/1	16-Apr-2013 2:03 PM	16-Apr-2013 2:05 PM	16-Apr-2013 2:09 PM	N
	NA	NA	SAIA-SB/SG11	GS	SG11-5, P4330cc	E304065-09	NA	1/1	16-Apr-2013 12:40 PM	16-Apr-2013 12:45 PM	16-Apr-2013 12:51 PM	N
	NA	NA	SAIA-SB/SG12	GS	SG12-15, P4814cc	E304054-01	NA	1/1	12-Apr-2013 7:38 AM	12-Apr-2013 7:40 AM	12-Apr-2013 8:12 AM	N

AUTOMATED DATA REVIEW SUMMARY for E304025

Batch Report

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
NA	NA	NA	SAIA-SB/SG12	GS	SG12-25, P5298cc	E304054-02	NA	1/1	12-Apr-2013 8:25 AM	12-Apr-2013 8:28 AM	12-Apr-2013 8:35 AM	N
	NA	NA	SAIA-SB/SG12	GS	SG12-25, P5298cc	E304054-02	NA	1/10	12-Apr-2013 8:25 AM	12-Apr-2013 8:28 AM	12-Apr-2013 8:35 AM	N
	NA	NA	SAIA-SB/SG12	GS	SG12-35, P5806cc	E304054-03	NA	1/1	12-Apr-2013 9:06 AM	12-Apr-2013 9:06 AM	12-Apr-2013 9:20 AM	N
	NA	NA	SAIA-SB/SG12	GS	SG12-5, P4330cc	E304043-12	NA	1/1	11-Apr-2013 3:13 PM	11-Apr-2013 3:15 PM	11-Apr-2013 3:23 PM	N
	NA	NA	SAIA-SB/SG12	GS	SG12-5, P4330cc	E304043-12	NA	1/125	11-Apr-2013 3:13 PM	11-Apr-2013 3:15 PM	11-Apr-2013 3:23 PM	N
	NA	NA	SAIA-SB/SG13	GS	SG13-15, P4814cc	E304025-05	NA	1/1	09-Apr-2013 11:57 AM	09-Apr-2013 11:59 AM	09-Apr-2013 12:04 PM	N
	NA	NA	SAIA-SB/SG13	GS	SG13-25, P5298cc	E304025-06	NA	1/1	09-Apr-2013 12:29 PM	09-Apr-2013 12:33 PM	09-Apr-2013 12:36 PM	N
	NA	NA	SAIA-SB/SG13	GS	SG13-35, P5806cc	E304025-07	NA	1/1	09-Apr-2013 12:59 PM	09-Apr-2013 1:00 PM	09-Apr-2013 1:08 PM	N
	NA	NA	SAIA-SB/SG13	GS	SG13-5, P4330cc	E304025-04	NA	1/1	09-Apr-2013 11:25 AM	09-Apr-2013 11:27 AM	09-Apr-2013 11:33 AM	N
	NA	NA	SAIA-SB/SG14	GS	SG14-15 Rep, P4864cc	E304025-10	NA	1/1	09-Apr-2013 2:26 PM	09-Apr-2013 2:28 PM	09-Apr-2013 2:34 PM	FD
	NA	NA	SAIA-SB/SG14	GS	SG14-15, P4814cc	E304025-09	NA	1/1	09-Apr-2013 2:02 PM	09-Apr-2013 2:05 PM	09-Apr-2013 2:11 PM	N
	NA	NA	SAIA-SB/SG14	GS	SG14-25, P5298cc	E304025-11	NA	1/1	09-Apr-2013 2:46 PM	09-Apr-2013 2:48 PM	09-Apr-2013 2:52 PM	N
	NA	NA	SAIA-SB/SG14	GS	SG14-35, P5806cc	E304025-12	NA	1/1	09-Apr-2013 3:05 PM	09-Apr-2013 3:08 PM	09-Apr-2013 3:14 PM	N
	NA	NA	SAIA-SB/SG14	GS	SG14-5, P4330cc	E304025-08	NA	1/1	09-Apr-2013 1:26 PM	09-Apr-2013 1:28 PM	09-Apr-2013 1:36 PM	N
	NA	NA	SAIA-SB/SG15	GS	SG15-15, P4814cc	E304060-04	NA	1/1	15-Apr-2013 10:14 AM	15-Apr-2013 10:15 AM	15-Apr-2013 10:24 AM	N
	NA	NA	SAIA-SB/SG15	GS	SG15-25, P5298cc	E304060-05	NA	1/1	15-Apr-2013 10:38 AM	15-Apr-2013 10:40 AM	15-Apr-2013 10:48 AM	N
	NA	NA	SAIA-SB/SG15	GS	SG15-35, P5806cc	E304060-06	NA	1/1	15-Apr-2013 11:04 AM	15-Apr-2013 11:06 AM	15-Apr-2013 11:13 AM	N
	NA	NA	SAIA-SB/SG15	GS	SG15-5, P4330cc	E304060-03	NA	1/1	15-Apr-2013 9:50 AM	15-Apr-2013 9:52 AM	15-Apr-2013 9:56 AM	N
	NA	NA	SAIA-SB/SG16	GS	SG16-15, P4814cc	E304054-14	NA	1/1	12-Apr-2013 3:03 PM	12-Apr-2013 3:05 PM	12-Apr-2013 3:14 PM	N
	NA	NA	SAIA-SB/SG16	GS	SG16-25, P5298cc	E304060-01	NA	1/1	15-Apr-2013 8:20 AM	15-Apr-2013 8:22 AM	15-Apr-2013 12:17 PM	N
	NA	NA	SAIA-SB/SG16	GS	SG16-35, P5806cc	E304060-02	NA	1/1	15-Apr-2013 9:10 AM	15-Apr-2013 9:12 AM	15-Apr-2013 12:37 PM	N
	NA	NA	SAIA-SB/SG16	GS	SG16-5 Rep, P4380cc	E304054-13	NA	1/1	12-Apr-2013 2:44 PM	12-Apr-2013 2:46 PM	12-Apr-2013 2:52 PM	FD

AUTOMATED DATA REVIEW SUMMARY for E304025

Batch Report

NA	NA	NA	SAIA-SB/SG16	GS	SG16-5, P4330cc	E304054-12	NA	1/1	12-Apr-2013 2:15 PM	12-Apr-2013 2:18 PM	12-Apr-2013 2:28 PM	N
	NA	NA	SAIA-SB/SG17	GS	SG17-15, P4814cc	E304054-09	NA	1/1	12-Apr-2013 12:28 PM	12-Apr-2013 1:02 PM	12-Apr-2013 1:11 PM	N
	NA	NA	SAIA-SB/SG17	GS	SG17-25, P5298cc	E304054-10	NA	1/1	12-Apr-2013 1:26 PM	12-Apr-2013 1:30 PM	12-Apr-2013 1:37 PM	N
	NA	NA	SAIA-SB/SG17	GS	SG17-35, P5806cc	E304054-11	NA	1/1	12-Apr-2013 1:55 PM	12-Apr-2013 1:58 PM	12-Apr-2013 2:03 PM	N
	NA	NA	SAIA-SB/SG17	GS	SG17-5, P4330cc	E304054-08	NA	1/1	12-Apr-2013 12:28 PM	12-Apr-2013 12:30 PM	12-Apr-2013 12:37 PM	N
	NA	NA	SAIA-SB/SG18	GS	SG18-15, P4814cc	E304065-14	NA	1/1	16-Apr-2013 2:52 PM	16-Apr-2013 2:55 PM	16-Apr-2013 3:02 PM	N
	NA	NA	SAIA-SB/SG18	GS	SG18-25, P5298cc	E304065-15	NA	1/1	16-Apr-2013 3:15 PM	16-Apr-2013 3:18 PM	16-Apr-2013 3:23 PM	N
	NA	NA	SAIA-SB/SG18	GS	SG18-35, P5806cc	E304070-01	NA	1/1	17-Apr-2013 7:52 AM	17-Apr-2013 7:55 AM	17-Apr-2013 8:23 AM	N
	NA	NA	SAIA-SB/SG18	GS	SG18-5, P4330cc	E304065-13	NA	1/1	16-Apr-2013 2:33 PM	16-Apr-2013 2:35 PM	16-Apr-2013 2:43 PM	N

AUTOMATED DATA REVIEW SUMMARY for E304025

Field Batch Report

--No Records Found--

QC Outlier Report

--No Records Found--

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	JW-SB2-25, P5298cc	N	Trichloroethene (TCE)	120	28000	28000 J	ppbv	D5
TO15/NONE	GS	JW-SB4-35, P5806cc	N	Trichloroethene (TCE)	50.0	7900	7900 J	ppbv	D5
TO15/NONE	GS	SG10-15, P4814cc	N	cis-1,2-Dichloroethylene	12000	990000	990000 J	ppbv	D5
TO15/NONE	GS	SG14-25, P5298cc	N	cis-1,2-Dichloroethylene	10.0	58.0	58.0 J	ppbv	D5
TO15/NONE	GS	SG14-25, P5298cc	N	Trichloroethene (TCE)	5.0	89.0	89.0 J	ppbv	D5
TO15/NONE	GS	SG9-35, P5806cc	N	Trichloroethene (TCE)	12000	1200000	1200000 J	ppbv	D5
TO15/NONE	GS	SG9-35, P5806cc	N	Vinyl Chloride	12000	120000	120000 J	ppbv	D5

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	JW-SB1-15, P4814cc	N	Benzene	5.0	8.6	8.6	ppbv	
TO15/NONE	GS	JW-SB1-15, P4814cc	N	Tetrachloroethene (PCE)	5.0	110	110	ppbv	
TO15/NONE	GS	JW-SB1-15, P4814cc	N	1,1,1-Trichloroethane	5.0	14.0	14.0	ppbv	
TO15/NONE	GS	JW-SB1-15, P4814cc	N	Trichloroethene (TCE)	5.0	480	480	ppbv	
TO15/NONE	GS	JW-SB1-25, P5298cc	N	Tetrachloroethene (PCE)	5.0	13.0	13.0	ppbv	
TO15/NONE	GS	JW-SB1-25, P5298cc	N	Trichloroethene (TCE)	5.0	290	290	ppbv	
TO15/NONE	GS	JW-SB1-35, P5806cc	N	cis-1,2-Dichloroethylene	10.0	76.0	76.0	ppbv	
TO15/NONE	GS	JW-SB1-35, P5806cc	N	Trichloroethene (TCE)	5.0	380	380	ppbv	
TO15/NONE	GS	JW-SB1-5, P4330cc	N	Tetrachloroethene (PCE)	5.0	380	380	ppbv	
TO15/NONE	GS	JW-SB1-5, P4330cc	N	1,1,1-Trichloroethane	5.0	38.0	38.0	ppbv	
TO15/NONE	GS	JW-SB1-5, P4330cc	N	Trichloroethene (TCE)	5.0	930	930	ppbv	
TO15/NONE	GS	JW-SB2-15, P4814cc	N	cis-1,2-Dichloroethylene	10.0	33.0	33.0	ppbv	
TO15/NONE	GS	JW-SB2-15, P4814cc	N	Tetrachloroethene (PCE)	5.0	7.6	7.6	ppbv	
TO15/NONE	GS	JW-SB2-15, P4814cc	N	Trichloroethene (TCE)	5.0	130	130	ppbv	
TO15/NONE	GS	JW-SB2-25, P5298cc	N	1,1-Dichloroethene	50.0	210	210	ppbv	
TO15/NONE	GS	JW-SB2-25, P5298cc	N	cis-1,2-Dichloroethylene	100	7300	7300	ppbv	
TO15/NONE	GS	JW-SB2-25, P5298cc	N	trans-1,2-Dichloroethene	100	420	420	ppbv	
TO15/NONE	GS	JW-SB2-25, P5298cc	N	Tetrachloroethene (PCE)	50.0	510	510	ppbv	
TO15/NONE	GS	JW-SB2-25, P5298cc	N	Trichloroethene (TCE)	120	28000	28000 J	ppbv	D5
TO15/NONE	GS	JW-SB2-35, P5806cc	N	Benzene	5.0	9.4	9.4	ppbv	
TO15/NONE	GS	JW-SB2-35, P5806cc	N	1,1-Dichloroethane	10.0	34.0	34.0	ppbv	
TO15/NONE	GS	JW-SB2-35, P5806cc	N	1,1-Dichloroethene	5.0	130	130	ppbv	
TO15/NONE	GS	JW-SB2-35, P5806cc	N	cis-1,2-Dichloroethylene	250	3200	3200	ppbv	
TO15/NONE	GS	JW-SB2-35, P5806cc	N	trans-1,2-Dichloroethene	10.0	260	260	ppbv	
TO15/NONE	GS	JW-SB2-35, P5806cc	N	Tetrachloroethene (PCE)	5.0	360	360	ppbv	
TO15/NONE	GS	JW-SB2-35, P5806cc	N	Trichloroethene (TCE)	120	13000	13000	ppbv	
TO15/NONE	GS	JW-SB2-35, P5806cc	N	Vinyl Chloride	5.0	16.0	16.0	ppbv	

AUTOMATED DATA REVIEW SUMMARY for E304025

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	JW-SB2-5, P4330cc	N	Tetrachloroethene (PCE)	5.0	780	780	ppbv	
TO15/NONE	GS	JW-SB2-5, P4330cc	N	1,1,1-Trichloroethane	5.0	81.0	81.0	ppbv	
TO15/NONE	GS	JW-SB2-5, P4330cc	N	Trichloroethene (TCE)	25.0	1900	1900	ppbv	
TO15/NONE	GS	JW-SB3-35, P5806cc	N	Toluene	5.0	8.1	8.1	ppbv	
TO15/NONE	GS	JW-SB3-35, P5806cc	N	Tetrachloroethene (PCE)	5.0	5.1	5.1	ppbv	
TO15/NONE	GS	JW-SB3-5 Rep, P4380cc	FD	Tetrachloroethene (PCE)	5.0	1000	1000	ppbv	
TO15/NONE	GS	JW-SB3-5 Rep, P4380cc	FD	1,1,1-Trichloroethane	5.0	58.0	58.0	ppbv	
TO15/NONE	GS	JW-SB3-5 Rep, P4380cc	FD	Trichloroethene (TCE)	5.0	42.0	42.0	ppbv	
TO15/NONE	GS	JW-SB3-5, P4330cc	N	Toluene	5.0	9.8	9.8	ppbv	
TO15/NONE	GS	JW-SB3-5, P4330cc	N	Tetrachloroethene (PCE)	5.0	660	660	ppbv	
TO15/NONE	GS	JW-SB3-5, P4330cc	N	1,1,1-Trichloroethane	5.0	42.0	42.0	ppbv	
TO15/NONE	GS	JW-SB3-5, P4330cc	N	Trichloroethene (TCE)	5.0	35.0	35.0	ppbv	
TO15/NONE	GS	JW-SB4-15, P4814cc	N	Toluene	5.0	8.6	8.6	ppbv	
TO15/NONE	GS	JW-SB4-15, P4814cc	N	cis-1,2-Dichloroethylene	10.0	44.0	44.0	ppbv	
TO15/NONE	GS	JW-SB4-15, P4814cc	N	Tetrachloroethene (PCE)	5.0	11.0	11.0	ppbv	
TO15/NONE	GS	JW-SB4-15, P4814cc	N	Trichloroethene (TCE)	5.0	90.0	90.0	ppbv	
TO15/NONE	GS	JW-SB4-35, P5806cc	N	1,1-Dichloroethene	50.0	72.0	72.0	ppbv	
TO15/NONE	GS	JW-SB4-35, P5806cc	N	cis-1,2-Dichloroethylene	100	2600	2600	ppbv	
TO15/NONE	GS	JW-SB4-35, P5806cc	N	trans-1,2-Dichloroethene	100	170	170	ppbv	
TO15/NONE	GS	JW-SB4-35, P5806cc	N	Tetrachloroethene (PCE)	50.0	710	710	ppbv	
TO15/NONE	GS	JW-SB4-35, P5806cc	N	Trichloroethene (TCE)	50.0	7900	7900 J	ppbv	D5
TO15/NONE	GS	JW-SB4-5, P4330cc	N	Tetrachloroethene (PCE)	5.0	420	420	ppbv	
TO15/NONE	GS	JW-SB4-5, P4330cc	N	1,1,1-Trichloroethane	5.0	32.0	32.0	ppbv	
TO15/NONE	GS	JW-SB4-5, P4330cc	N	Trichloroethene (TCE)	5.0	100	100	ppbv	
TO15/NONE	GS	JW-SB5-25, P5298cc	N	Benzene	5.0	31.0	31.0	ppbv	
TO15/NONE	GS	JW-SB5-25, P5298cc	N	1,1-Dichloroethene	5.0	360	360	ppbv	

AUTOMATED DATA REVIEW SUMMARY for E304025

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	JW-SB5-25, P5298cc	N	cis-1,2-Dichloroethylene	10.0	57.0	57.0	ppbv	
TO15/NONE	GS	JW-SB5-25, P5298cc	N	trans-1,2-Dichloroethene	10.0	23.0	23.0	ppbv	
TO15/NONE	GS	JW-SB5-25, P5298cc	N	Tetrachloroethene (PCE)	5.0	170	170	ppbv	
TO15/NONE	GS	JW-SB5-25, P5298cc	N	Trichloroethene (TCE)	50.0	8000	8000	ppbv	
TO15/NONE	GS	JW-SB5-25, P5298cc	N	Vinyl Chloride	5.0	30.0	30.0	ppbv	
TO15/NONE	GS	JW-SB5-35, P5806cc	N	1,1-Dichloroethene	50.0	70.0	70.0	ppbv	
TO15/NONE	GS	JW-SB5-35, P5806cc	N	cis-1,2-Dichloroethylene	100	1400	1400	ppbv	
TO15/NONE	GS	JW-SB5-35, P5806cc	N	trans-1,2-Dichloroethene	100	130	130	ppbv	
TO15/NONE	GS	JW-SB5-35, P5806cc	N	Tetrachloroethene (PCE)	50.0	940	940	ppbv	
TO15/NONE	GS	JW-SB5-35, P5806cc	N	Trichloroethene (TCE)	50.0	5600	5600	ppbv	
TO15/NONE	GS	JW-SB5-5, P4330cc	N	Tetrachloroethene (PCE)	5.0	260	260	ppbv	
TO15/NONE	GS	JW-SB5-5, P4330cc	N	Trichloroethene (TCE)	5.0	46.0	46.0	ppbv	
TO15/NONE	GS	JW-SB6-15, P4814cc	N	Benzene	5.0	9.7	9.7	ppbv	
TO15/NONE	GS	JW-SB6-15, P4814cc	N	Toluene	5.0	17.0	17.0	ppbv	
TO15/NONE	GS	JW-SB6-15, P4814cc	N	Naphthalene	5.0	7.0	7.0	ppbv	
TO15/NONE	GS	JW-SB6-15, P4814cc	N	Trichloroethene (TCE)	5.0	31.0	31.0	ppbv	
TO15/NONE	GS	JW-SB6-15, P4814cc	N	1,2,4-Trimethylbenzene	5.0	11.0	11.0	ppbv	
TO15/NONE	GS	JW-SB6-15, P4814cc	N	m,p-Xylene	10.0	15.0	15.0	ppbv	
TO15/NONE	GS	JW-SB6-25, P5298cc	N	Benzene	5.0	24.0	24.0	ppbv	
TO15/NONE	GS	JW-SB6-25, P5298cc	N	Toluene	5.0	6.8	6.8	ppbv	
TO15/NONE	GS	JW-SB6-25, P5298cc	N	1,1-Dichloroethene	5.0	170	170	ppbv	
TO15/NONE	GS	JW-SB6-25, P5298cc	N	cis-1,2-Dichloroethylene	10.0	240	240	ppbv	
TO15/NONE	GS	JW-SB6-25, P5298cc	N	trans-1,2-Dichloroethene	10.0	61.0	61.0	ppbv	
TO15/NONE	GS	JW-SB6-25, P5298cc	N	Tetrachloroethene (PCE)	5.0	28.0	28.0	ppbv	
TO15/NONE	GS	JW-SB6-25, P5298cc	N	Trichloroethene (TCE)	25.0	3300	3300	ppbv	
TO15/NONE	GS	JW-SB6-35 Rep, P5906cc	FD	Benzene	5.0	6.4	6.4	ppbv	

AUTOMATED DATA REVIEW SUMMARY for E304025

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	JW-SB6-35 Rep, P5906cc	FD	Toluene	5.0	6.0	6.0	ppbv	
TO15/NONE	GS	JW-SB6-35 Rep, P5906cc	FD	cis-1,2-Dichloroethylene	10.0	140	140	ppbv	
TO15/NONE	GS	JW-SB6-35 Rep, P5906cc	FD	Tetrachloroethene (PCE)	5.0	150	150	ppbv	
TO15/NONE	GS	JW-SB6-35 Rep, P5906cc	FD	Trichloroethene (TCE)	5.0	330	330	ppbv	
TO15/NONE	GS	JW-SB6-35 Rep, P5906cc	FD	1,2,4-Trimethylbenzene	5.0	8.7	8.7	ppbv	
TO15/NONE	GS	JW-SB6-35, P5806cc	N	Benzene	5.0	11.0	11.0	ppbv	
TO15/NONE	GS	JW-SB6-35, P5806cc	N	Toluene	5.0	7.5	7.5	ppbv	
TO15/NONE	GS	JW-SB6-35, P5806cc	N	cis-1,2-Dichloroethylene	10.0	180	180	ppbv	
TO15/NONE	GS	JW-SB6-35, P5806cc	N	Tetrachloroethene (PCE)	5.0	160	160	ppbv	
TO15/NONE	GS	JW-SB6-35, P5806cc	N	Trichloroethene (TCE)	5.0	360	360	ppbv	
TO15/NONE	GS	JW-SB6-35, P5806cc	N	1,2,4-Trimethylbenzene	5.0	11.0	11.0	ppbv	
TO15/NONE	GS	SG10-15, P4814cc	N	1,1-Dichloroethane	12000	94000	94000	ppbv	
TO15/NONE	GS	SG10-15, P4814cc	N	1,1-Dichloroethene	6200	10000	10000	ppbv	
TO15/NONE	GS	SG10-15, P4814cc	N	cis-1,2-Dichloroethylene	12000	990000	990000 J	ppbv	D5
TO15/NONE	GS	SG10-15, P4814cc	N	1,1,1-Trichloroethane	6200	13000	13000	ppbv	
TO15/NONE	GS	SG10-15, P4814cc	N	Vinyl Chloride	6200	730000	730000	ppbv	
TO15/NONE	GS	SG10-25, P5298cc	N	1,1-Dichloroethane	12000	160000	160000	ppbv	
TO15/NONE	GS	SG10-25, P5298cc	N	1,1-Dichloroethene	6200	21000	21000	ppbv	
TO15/NONE	GS	SG10-25, P5298cc	N	cis-1,2-Dichloroethylene	12000	640000	640000	ppbv	
TO15/NONE	GS	SG10-25, P5298cc	N	Vinyl Chloride	12000	2400000	2400000	ppbv	
TO15/NONE	GS	SG10-35, P5806cc	N	cis-1,2-Dichloroethylene	1000	10000	10000	ppbv	
TO15/NONE	GS	SG10-35, P5806cc	N	Trichloroethene (TCE)	500	2900	2900	ppbv	
TO15/NONE	GS	SG10-35, P5806cc	N	Vinyl Chloride	500	3500	3500	ppbv	
TO15/NONE	GS	SG10-5, P4330cc	N	Toluene	120	390	390	ppbv	
TO15/NONE	GS	SG10-5, P4330cc	N	Chloroethane	250	690	690	ppbv	
TO15/NONE	GS	SG10-5, P4330cc	N	1,1-Dichloroethane	25000	60000	60000	ppbv	

AUTOMATED DATA REVIEW SUMMARY for E304025

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SG10-5, P4330cc	N	1,1-Dichloroethene	120	3900	3900	ppbv	
TO15/NONE	GS	SG10-5, P4330cc	N	cis-1,2-Dichloroethylene	25000	1100000	1100000	ppbv	
TO15/NONE	GS	SG10-5, P4330cc	N	trans-1,2-Dichloroethene	250	13000	13000	ppbv	
TO15/NONE	GS	SG10-5, P4330cc	N	Tetrachloroethene (PCE)	120	170	170	ppbv	
TO15/NONE	GS	SG10-5, P4330cc	N	1,1,1-Trichloroethane	120	34000	34000	ppbv	
TO15/NONE	GS	SG10-5, P4330cc	N	Trichloroethene (TCE)	120	11000	11000	ppbv	
TO15/NONE	GS	SG10-5, P4330cc	N	1,2,4-Trimethylbenzene	120	230	230	ppbv	
TO15/NONE	GS	SG10-5, P4330cc	N	Vinyl Chloride	12000	200000	200000	ppbv	
TO15/NONE	GS	SG10-5, P4330cc	N	o-Xylene	120	150	150	ppbv	
TO15/NONE	GS	SG11-15, P4814cc	N	Benzene	5.0	6.4	6.4	ppbv	
TO15/NONE	GS	SG11-15, P4814cc	N	cis-1,2-Dichloroethylene	10.0	18.0	18.0	ppbv	
TO15/NONE	GS	SG11-15, P4814cc	N	Trichloroethene (TCE)	5.0	9.8	9.8	ppbv	
TO15/NONE	GS	SG11-25, P5298cc	N	Toluene	5.0	6.9	6.9	ppbv	
TO15/NONE	GS	SG11-25, P5298cc	N	p-Cymene (p-Isopropyltoluene)	5.0	13.0	13.0	ppbv	
TO15/NONE	GS	SG11-25, P5298cc	N	cis-1,2-Dichloroethylene	10.0	150	150	ppbv	
TO15/NONE	GS	SG11-25, P5298cc	N	Tetrachloroethene (PCE)	5.0	18.0	18.0	ppbv	
TO15/NONE	GS	SG11-25, P5298cc	N	Trichloroethene (TCE)	5.0	150	150	ppbv	
TO15/NONE	GS	SG11-25, P5298cc	N	1,2,4-Trimethylbenzene	5.0	8.6	8.6	ppbv	
TO15/NONE	GS	SG11-25, P5298cc	N	Vinyl Chloride	5.0	8.0	8.0	ppbv	
TO15/NONE	GS	SG11-5, P4330cc	N	cis-1,2-Dichloroethylene	10.0	50.0	50.0	ppbv	
TO15/NONE	GS	SG11-5, P4330cc	N	Trichloroethene (TCE)	5.0	32.0	32.0	ppbv	
TO15/NONE	GS	SG1-15, P4814cc	N	cis-1,2-Dichloroethylene	10.0	11.0	11.0	ppbv	
TO15/NONE	GS	SG1-15, P4814cc	N	Tetrachloroethene (PCE)	5.0	110	110	ppbv	
TO15/NONE	GS	SG1-15, P4814cc	N	Trichloroethene (TCE)	5.0	19.0	19.0	ppbv	
TO15/NONE	GS	SG12-15, P4814cc	N	n-Butylbenzene	5.0	5.7	5.7	ppbv	
TO15/NONE	GS	SG12-15, P4814cc	N	Benzene	5.0	18.0	18.0	ppbv	
TO15/NONE	GS	SG12-15, P4814cc	N	p-Cymene (p-Isopropyltoluene)	5.0	6.4	6.4	ppbv	

AUTOMATED DATA REVIEW SUMMARY for E304025

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SG12-15, P4814cc	N	1,1-Dichloroethane	10.0	32.0	32.0	ppbv	
TO15/NONE	GS	SG12-15, P4814cc	N	cis-1,2-Dichloroethylene	10.0	1300	1300	ppbv	
TO15/NONE	GS	SG12-15, P4814cc	N	trans-1,2-Dichloroethene	10.0	12.0	12.0	ppbv	
TO15/NONE	GS	SG12-15, P4814cc	N	Tetrachloroethene (PCE)	5.0	12.0	12.0	ppbv	
TO15/NONE	GS	SG12-15, P4814cc	N	Trichloroethene (TCE)	5.0	1600	1600	ppbv	
TO15/NONE	GS	SG12-15, P4814cc	N	1,2,4-Trimethylbenzene	5.0	16.0	16.0	ppbv	
TO15/NONE	GS	SG12-15, P4814cc	N	1,3,5-Trimethylbenzene	5.0	6.4	6.4	ppbv	
TO15/NONE	GS	SG12-25, P5298cc	N	Benzene	5.0	30.0	30.0	ppbv	
TO15/NONE	GS	SG12-25, P5298cc	N	Toluene	5.0	8.8	8.8	ppbv	
TO15/NONE	GS	SG12-25, P5298cc	N	1,1-Dichloroethane	10.0	39.0	39.0	ppbv	
TO15/NONE	GS	SG12-25, P5298cc	N	1,1-Dichloroethene	5.0	47.0	47.0	ppbv	
TO15/NONE	GS	SG12-25, P5298cc	N	cis-1,2-Dichloroethylene	10.0	1600	1600	ppbv	
TO15/NONE	GS	SG12-25, P5298cc	N	trans-1,2-Dichloroethene	10.0	23.0	23.0	ppbv	
TO15/NONE	GS	SG12-25, P5298cc	N	Tetrachloroethene (PCE)	5.0	18.0	18.0	ppbv	
TO15/NONE	GS	SG12-25, P5298cc	N	Trichloroethene (TCE)	50.0	2700	2700	ppbv	
TO15/NONE	GS	SG12-25, P5298cc	N	1,2,4-Trimethylbenzene	5.0	21.0	21.0	ppbv	
TO15/NONE	GS	SG12-25, P5298cc	N	1,3,5-Trimethylbenzene	5.0	5.9	5.9	ppbv	
TO15/NONE	GS	SG12-25, P5298cc	N	Vinyl Chloride	5.0	26.0	26.0	ppbv	
TO15/NONE	GS	SG12-25, P5298cc	N	m,p-Xylene	10.0	10.0	10.0	ppbv	
TO15/NONE	GS	SG12-25, P5298cc	N	o-Xylene	5.0	7.2	7.2	ppbv	
TO15/NONE	GS	SG12-35, P5806cc	N	Benzene	5.0	14.0	14.0	ppbv	
TO15/NONE	GS	SG12-35, P5806cc	N	Toluene	5.0	6.0	6.0	ppbv	
TO15/NONE	GS	SG12-35, P5806cc	N	p-Cymene (p-Isopropyltoluene)	5.0	8.0	8.0	ppbv	
TO15/NONE	GS	SG12-35, P5806cc	N	1,1-Dichloroethane	10.0	26.0	26.0	ppbv	
TO15/NONE	GS	SG12-35, P5806cc	N	cis-1,2-Dichloroethylene	10.0	1300	1300	ppbv	
TO15/NONE	GS	SG12-35, P5806cc	N	Tetrachloroethene (PCE)	5.0	12.0	12.0	ppbv	
TO15/NONE	GS	SG12-35, P5806cc	N	Trichloroethene (TCE)	5.0	1800	1800	ppbv	

AUTOMATED DATA REVIEW SUMMARY for E304025

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SG12-35, P5806cc	N	1,2,4-Trimethylbenzene	5.0	22.0	22.0	ppbv	
TO15/NONE	GS	SG12-35, P5806cc	N	1,3,5-Trimethylbenzene	5.0	6.2	6.2	ppbv	
TO15/NONE	GS	SG12-5, P4330cc	N	cis-1,2-Dichloroethylene	1200	3800	3800	ppbv	
TO15/NONE	GS	SG12-5, P4330cc	N	Trichloroethene (TCE)	620	4000	4000	ppbv	
TO15/NONE	GS	SG1-25, P5298cc	N	cis-1,2-Dichloroethylene	10.0	63.0	63.0	ppbv	
TO15/NONE	GS	SG1-25, P5298cc	N	Tetrachloroethene (PCE)	50.0	6200	6200	ppbv	
TO15/NONE	GS	SG1-25, P5298cc	N	Trichloroethene (TCE)	50.0	3400	3400	ppbv	
TO15/NONE	GS	SG13-15, P4814cc	N	Benzene	5.0	14.0	14.0	ppbv	
TO15/NONE	GS	SG13-15, P4814cc	N	Toluene	5.0	25.0	25.0	ppbv	
TO15/NONE	GS	SG13-15, P4814cc	N	p-Cymene (p-Isopropyltoluene)	5.0	31.0	31.0	ppbv	
TO15/NONE	GS	SG13-15, P4814cc	N	cis-1,2-Dichloroethylene	10.0	40.0	40.0	ppbv	
TO15/NONE	GS	SG13-15, P4814cc	N	Tetrachloroethene (PCE)	5.0	520	520	ppbv	
TO15/NONE	GS	SG13-15, P4814cc	N	Trichloroethene (TCE)	5.0	20.0	20.0	ppbv	
TO15/NONE	GS	SG13-15, P4814cc	N	Vinyl Chloride	5.0	14.0	14.0	ppbv	
TO15/NONE	GS	SG13-25, P5298cc	N	1,1-Difluoroethane	10.0	70.0	70.0	ppbv	
TO15/NONE	GS	SG13-25, P5298cc	N	Tetrachloroethene (PCE)	5.0	8.8	8.8	ppbv	
TO15/NONE	GS	SG13-25, P5298cc	N	Trichloroethene (TCE)	5.0	7.8	7.8	ppbv	
TO15/NONE	GS	SG13-35, P5806cc	N	p-Cymene (p-Isopropyltoluene)	5.0	12.0	12.0	ppbv	
TO15/NONE	GS	SG13-35, P5806cc	N	cis-1,2-Dichloroethylene	10.0	18.0	18.0	ppbv	
TO15/NONE	GS	SG13-35, P5806cc	N	Tetrachloroethene (PCE)	5.0	80.0	80.0	ppbv	
TO15/NONE	GS	SG13-35, P5806cc	N	Trichloroethene (TCE)	5.0	52.0	52.0	ppbv	
TO15/NONE	GS	SG13-5, P4330cc	N	cis-1,2-Dichloroethylene	10.0	45.0	45.0	ppbv	
TO15/NONE	GS	SG13-5, P4330cc	N	Tetrachloroethene (PCE)	5.0	420	420	ppbv	
TO15/NONE	GS	SG13-5, P4330cc	N	Trichloroethene (TCE)	5.0	11.0	11.0	ppbv	
TO15/NONE	GS	SG13-5, P4330cc	N	Vinyl Chloride	5.0	21.0	21.0	ppbv	
TO15/NONE	GS	SG1-35, P5806cc	N	cis-1,2-Dichloroethylene	100	480	480	ppbv	
TO15/NONE	GS	SG1-35, P5806cc	N	Tetrachloroethene (PCE)	50.0	880	880	ppbv	

AUTOMATED DATA REVIEW SUMMARY for E304025

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SG1-35, P5806cc	N	Trichloroethene (TCE)	50.0	1500	1500	ppbv	
TO15/NONE	GS	SG14-15 Rep, P4864cc	FD	Toluene	5.0	8.8	8.8	ppbv	
TO15/NONE	GS	SG14-15 Rep, P4864cc	FD	p-Cymene (p-Isopropyltoluene)	5.0	5.4	5.4	ppbv	
TO15/NONE	GS	SG14-15 Rep, P4864cc	FD	Trichloroethene (TCE)	5.0	6.5	6.5	ppbv	
TO15/NONE	GS	SG14-25, P5298cc	N	Benzene	5.0	9.5	9.5	ppbv	
TO15/NONE	GS	SG14-25, P5298cc	N	Toluene	5.0	24.0	24.0	ppbv	
TO15/NONE	GS	SG14-25, P5298cc	N	p-Cymene (p-Isopropyltoluene)	5.0	13.0	13.0	ppbv	
TO15/NONE	GS	SG14-25, P5298cc	N	cis-1,2-Dichloroethylene	10.0	58.0	58.0 J	ppbv	D5
TO15/NONE	GS	SG14-25, P5298cc	N	Ethylbenzene	5.0	5.5	5.5	ppbv	
TO15/NONE	GS	SG14-25, P5298cc	N	Dichlorodifluoromethane	5.0	39.0	39.0	ppbv	
TO15/NONE	GS	SG14-25, P5298cc	N	Tetrachloroethene (PCE)	5.0	21.0	21.0	ppbv	
TO15/NONE	GS	SG14-25, P5298cc	N	Trichloroethene (TCE)	5.0	89.0	89.0 J	ppbv	D5
TO15/NONE	GS	SG14-25, P5298cc	N	1,2,4-Trimethylbenzene	5.0	11.0	11.0	ppbv	
TO15/NONE	GS	SG14-25, P5298cc	N	1,3,5-Trimethylbenzene	5.0	5.1	5.1	ppbv	
TO15/NONE	GS	SG14-25, P5298cc	N	Vinyl Chloride	5.0	6.9	6.9	ppbv	
TO15/NONE	GS	SG14-25, P5298cc	N	m,p-Xylene	10.0	12.0	12.0	ppbv	
TO15/NONE	GS	SG14-25, P5298cc	N	o-Xylene	5.0	5.2	5.2	ppbv	
TO15/NONE	GS	SG14-35, P5806cc	N	1,1-Dichloroethene	5.0	11.0	11.0	ppbv	
TO15/NONE	GS	SG14-35, P5806cc	N	cis-1,2-Dichloroethylene	10.0	37.0	37.0	ppbv	
TO15/NONE	GS	SG14-35, P5806cc	N	Dichlorodifluoromethane	5.0	29.0	29.0	ppbv	
TO15/NONE	GS	SG14-35, P5806cc	N	Trichloroethene (TCE)	5.0	100	100	ppbv	
TO15/NONE	GS	SG14-5, P4330cc	N	Dichlorodifluoromethane	5.0	6.0	6.0	ppbv	
TO15/NONE	GS	SG14-5, P4330cc	N	Tetrachloroethene (PCE)	5.0	6.6	6.6	ppbv	
TO15/NONE	GS	SG14-5, P4330cc	N	Trichloroethene (TCE)	5.0	20.0	20.0	ppbv	
TO15/NONE	GS	SG1-5, P4330cc	N	Tetrachloroethene (PCE)	5.0	2000	2000	ppbv	
TO15/NONE	GS	SG1-5, P4330cc	N	Trichloroethene (TCE)	5.0	24.0	24.0	ppbv	

AUTOMATED DATA REVIEW SUMMARY for E304025

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SG15-15, P4814cc	N	Benzene	5.0	35.0	35.0	ppbv	
TO15/NONE	GS	SG15-15, P4814cc	N	Toluene	5.0	11.0	11.0	ppbv	
TO15/NONE	GS	SG15-15, P4814cc	N	Tetrachloroethene (PCE)	5.0	120	120	ppbv	
TO15/NONE	GS	SG15-15, P4814cc	N	Trichloroethene (TCE)	5.0	5.9	5.9	ppbv	
TO15/NONE	GS	SG15-25, P5298cc	N	Benzene	5.0	7.0	7.0	ppbv	
TO15/NONE	GS	SG15-25, P5298cc	N	Tetrachloroethene (PCE)	5.0	230	230	ppbv	
TO15/NONE	GS	SG15-25, P5298cc	N	Trichloroethene (TCE)	5.0	85.0	85.0	ppbv	
TO15/NONE	GS	SG15-35, P5806cc	N	Tetrachloroethene (PCE)	5.0	180	180	ppbv	
TO15/NONE	GS	SG15-35, P5806cc	N	Trichloroethene (TCE)	5.0	110	110	ppbv	
TO15/NONE	GS	SG15-5, P4330cc	N	Tetrachloroethene (PCE)	5.0	110	110	ppbv	
TO15/NONE	GS	SG16-15, P4814cc	N	Benzene	5.0	9.0	9.0	ppbv	
TO15/NONE	GS	SG16-15, P4814cc	N	Toluene	5.0	9.1	9.1	ppbv	
TO15/NONE	GS	SG16-15, P4814cc	N	p-Cymene (p-Isopropyltoluene)	5.0	6.9	6.9	ppbv	
TO15/NONE	GS	SG16-15, P4814cc	N	cis-1,2-Dichloroethylene	10.0	14.0	14.0	ppbv	
TO15/NONE	GS	SG16-15, P4814cc	N	Tetrachloroethene (PCE)	5.0	120	120	ppbv	
TO15/NONE	GS	SG16-15, P4814cc	N	Trichloroethene (TCE)	5.0	13.0	13.0	ppbv	
TO15/NONE	GS	SG16-25, P5298cc	N	Benzene	5.0	22.0	22.0	ppbv	
TO15/NONE	GS	SG16-25, P5298cc	N	cis-1,2-Dichloroethylene	10.0	220	220	ppbv	
TO15/NONE	GS	SG16-25, P5298cc	N	Tetrachloroethene (PCE)	5.0	160	160	ppbv	
TO15/NONE	GS	SG16-25, P5298cc	N	Trichloroethene (TCE)	5.0	160	160	ppbv	
TO15/NONE	GS	SG16-35, P5806cc	N	Tetrachloroethene (PCE)	5.0	88.0	88.0	ppbv	
TO15/NONE	GS	SG16-35, P5806cc	N	Trichloroethene (TCE)	5.0	31.0	31.0	ppbv	
TO15/NONE	GS	SG16-5 Rep, P4380cc	FD	cis-1,2-Dichloroethylene	10.0	16.0	16.0	ppbv	
TO15/NONE	GS	SG16-5 Rep, P4380cc	FD	Tetrachloroethene (PCE)	5.0	56.0	56.0	ppbv	
TO15/NONE	GS	SG16-5 Rep, P4380cc	FD	Trichloroethene (TCE)	5.0	9.1	9.1	ppbv	
TO15/NONE	GS	SG16-5, P4330cc	N	cis-1,2-Dichloroethylene	10.0	29.0	29.0	ppbv	
TO15/NONE	GS	SG16-5, P4330cc	N	Tetrachloroethene (PCE)	5.0	41.0	41.0	ppbv	

AUTOMATED DATA REVIEW SUMMARY for E304025

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SG16-5, P4330cc	N	Trichloroethene (TCE)	5.0	19.0	19.0	ppbv	
TO15/NONE	GS	SG17-15, P4814cc	N	Benzene	5.0	12.0	12.0	ppbv	
TO15/NONE	GS	SG17-15, P4814cc	N	Toluene	5.0	12.0	12.0	ppbv	
TO15/NONE	GS	SG17-15, P4814cc	N	p-Cymene (p-Isopropyltoluene)	5.0	6.2	6.2	ppbv	
TO15/NONE	GS	SG17-15, P4814cc	N	Tetrachloroethene (PCE)	5.0	31.0	31.0	ppbv	
TO15/NONE	GS	SG17-15, P4814cc	N	Trichloroethene (TCE)	5.0	7.2	7.2	ppbv	
TO15/NONE	GS	SG17-25, P5298cc	N	Benzene	5.0	32.0	32.0	ppbv	
TO15/NONE	GS	SG17-25, P5298cc	N	Toluene	5.0	14.0	14.0	ppbv	
TO15/NONE	GS	SG17-25, P5298cc	N	cis-1,2-Dichloroethylene	10.0	67.0	67.0	ppbv	
TO15/NONE	GS	SG17-25, P5298cc	N	Tetrachloroethene (PCE)	5.0	210	210	ppbv	
TO15/NONE	GS	SG17-25, P5298cc	N	Trichloroethene (TCE)	5.0	310	310	ppbv	
TO15/NONE	GS	SG17-35, P5806cc	N	Benzene	5.0	11.0	11.0	ppbv	
TO15/NONE	GS	SG17-35, P5806cc	N	Toluene	5.0	5.0	5.0	ppbv	
TO15/NONE	GS	SG17-35, P5806cc	N	1,1-Dichloroethane	10.0	32.0	32.0	ppbv	
TO15/NONE	GS	SG17-35, P5806cc	N	cis-1,2-Dichloroethylene	10.0	750	750	ppbv	
TO15/NONE	GS	SG17-35, P5806cc	N	trans-1,2-Dichloroethene	10.0	17.0	17.0	ppbv	
TO15/NONE	GS	SG17-35, P5806cc	N	Tetrachloroethene (PCE)	5.0	70.0	70.0	ppbv	
TO15/NONE	GS	SG17-35, P5806cc	N	Trichloroethene (TCE)	5.0	1200	1200	ppbv	
TO15/NONE	GS	SG17-35, P5806cc	N	Vinyl Chloride	5.0	10.0	10.0	ppbv	
TO15/NONE	GS	SG17-5, P4330cc	N	Toluene	5.0	7.0	7.0	ppbv	
TO15/NONE	GS	SG17-5, P4330cc	N	Tetrachloroethene (PCE)	5.0	27.0	27.0	ppbv	
TO15/NONE	GS	SG17-5, P4330cc	N	Trichloroethene (TCE)	5.0	15.0	15.0	ppbv	
TO15/NONE	GS	SG18-15, P4814cc	N	cis-1,2-Dichloroethylene	10.0	20.0	20.0	ppbv	
TO15/NONE	GS	SG18-15, P4814cc	N	Trichloroethene (TCE)	5.0	37.0	37.0	ppbv	
TO15/NONE	GS	SG18-25, P5298cc	N	Trichloroethene (TCE)	5.0	52.0	52.0	ppbv	
TO15/NONE	GS	SG18-35, P5806cc	N	Toluene	5.0	6.5	6.5	ppbv	
TO15/NONE	GS	SG18-5, P4330cc	N	Trichloroethene (TCE)	5.0	12.0	12.0	ppbv	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SG2-15, P4814cc	N	Benzene	5.0	13.0	13.0	ppbv	
TO15/NONE	GS	SG2-15, P4814cc	N	p-Cymene (p-Isopropyltoluene)	5.0	8.4	8.4	ppbv	
TO15/NONE	GS	SG2-15, P4814cc	N	1,1-Dichloroethane	10.0	27.0	27.0	ppbv	
TO15/NONE	GS	SG2-15, P4814cc	N	cis-1,2-Dichloroethylene	10.0	680	680	ppbv	
TO15/NONE	GS	SG2-15, P4814cc	N	trans-1,2-Dichloroethene	10.0	10.0	10.0	ppbv	
TO15/NONE	GS	SG2-15, P4814cc	N	Tetrachloroethene (PCE)	5.0	650	650	ppbv	
TO15/NONE	GS	SG2-15, P4814cc	N	Trichloroethene (TCE)	50.0	1500	1500	ppbv	
TO15/NONE	GS	SG2-15, P4814cc	N	1,2,4-Trimethylbenzene	5.0	5.2	5.2	ppbv	
TO15/NONE	GS	SG2-25, P5298cc	N	1,1-Dichloroethane	25.0	69.0	69.0	ppbv	
TO15/NONE	GS	SG2-25, P5298cc	N	1,1-Dichloroethene	12.0	79.0	79.0	ppbv	
TO15/NONE	GS	SG2-25, P5298cc	N	cis-1,2-Dichloroethylene	25.0	1700	1700	ppbv	
TO15/NONE	GS	SG2-25, P5298cc	N	trans-1,2-Dichloroethene	25.0	150	150	ppbv	
TO15/NONE	GS	SG2-25, P5298cc	N	Tetrachloroethene (PCE)	12.0	31.0	31.0	ppbv	
TO15/NONE	GS	SG2-25, P5298cc	N	Trichloroethene (TCE)	12.0	3300	3300	ppbv	
TO15/NONE	GS	SG2-25, P5298cc	N	Vinyl Chloride	12.0	28.0	28.0	ppbv	
TO15/NONE	GS	SG2-35, P5806cc	N	Benzene	12.0	23.0	23.0	ppbv	
TO15/NONE	GS	SG2-35, P5806cc	N	1,1-Dichloroethane	25.0	2000	2000	ppbv	
TO15/NONE	GS	SG2-35, P5806cc	N	1,2-Dichloroethane	12.0	18.0	18.0	ppbv	
TO15/NONE	GS	SG2-35, P5806cc	N	1,1-Dichloroethene	12.0	330	330	ppbv	
TO15/NONE	GS	SG2-35, P5806cc	N	cis-1,2-Dichloroethylene	1200	90000	90000	ppbv	
TO15/NONE	GS	SG2-35, P5806cc	N	trans-1,2-Dichloroethene	25.0	1900	1900	ppbv	
TO15/NONE	GS	SG2-35, P5806cc	N	Tetrachloroethene (PCE)	12.0	89.0	89.0	ppbv	
TO15/NONE	GS	SG2-35, P5806cc	N	Trichloroethene (TCE)	620	52000	52000	ppbv	
TO15/NONE	GS	SG2-35, P5806cc	N	Vinyl Chloride	12.0	950	950	ppbv	
TO15/NONE	GS	SG2-5 Rep, P5580cc	FD	cis-1,2-Dichloroethylene	25.0	200	200	ppbv	
TO15/NONE	GS	SG2-5 Rep, P5580cc	FD	Tetrachloroethene (PCE)	12.0	470	470	ppbv	
TO15/NONE	GS	SG2-5 Rep, P5580cc	FD	Trichloroethene (TCE)	12.0	430	430	ppbv	

AUTOMATED DATA REVIEW SUMMARY for E304025

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SG2-5, P4330cc	N	cis-1,2-Dichloroethylene	25.0	400	400	ppbv	
TO15/NONE	GS	SG2-5, P4330cc	N	Tetrachloroethene (PCE)	12.0	490	490	ppbv	
TO15/NONE	GS	SG2-5, P4330cc	N	Trichloroethene (TCE)	12.0	320	320	ppbv	
TO15/NONE	GS	SG3-15, P4814cc	N	cis-1,2-Dichloroethylene	250	2100	2100	ppbv	
TO15/NONE	GS	SG3-15, P4814cc	N	Trichloroethene (TCE)	120	710	710	ppbv	
TO15/NONE	GS	SG3-15, P4814cc	N	Vinyl Chloride	120	230	230	ppbv	
TO15/NONE	GS	SG3-25, P5298cc	N	Toluene	500	850	850	ppbv	
TO15/NONE	GS	SG3-25, P5298cc	N	1,1-Dichloroethane	1000	4000	4000	ppbv	
TO15/NONE	GS	SG3-25, P5298cc	N	1,1-Dichloroethene	500	830	830	ppbv	
TO15/NONE	GS	SG3-25, P5298cc	N	cis-1,2-Dichloroethylene	1000	32000	32000	ppbv	
TO15/NONE	GS	SG3-25, P5298cc	N	Trichloroethene (TCE)	500	16000	16000	ppbv	
TO15/NONE	GS	SG3-25, P5298cc	N	1,2,4-Trimethylbenzene	500	1200	1200	ppbv	
TO15/NONE	GS	SG3-25, P5298cc	N	Vinyl Chloride	500	29000	29000	ppbv	
TO15/NONE	GS	SG3-35, P5806cc	N	1,1-Dichloroethane	12000	46000	46000	ppbv	
TO15/NONE	GS	SG3-35, P5806cc	N	cis-1,2-Dichloroethylene	12000	1200000	1200000	ppbv	
TO15/NONE	GS	SG3-35, P5806cc	N	Trichloroethene (TCE)	6200	1400000	1400000	ppbv	
TO15/NONE	GS	SG3-35, P5806cc	N	Vinyl Chloride	6200	50000	50000	ppbv	
TO15/NONE	GS	SG3-5 Rep, P4380cc	FD	Toluene	500	760	760	ppbv	
TO15/NONE	GS	SG3-5 Rep, P4380cc	FD	p-Cymene (p-Isopropyltoluene)	500	1400	1400	ppbv	
TO15/NONE	GS	SG3-5 Rep, P4380cc	FD	1,1-Dichloroethane	1000	5000	5000	ppbv	
TO15/NONE	GS	SG3-5 Rep, P4380cc	FD	cis-1,2-Dichloroethylene	1000	83000	83000	ppbv	
TO15/NONE	GS	SG3-5 Rep, P4380cc	FD	Trichloroethene (TCE)	500	49000	49000	ppbv	
TO15/NONE	GS	SG3-5 Rep, P4380cc	FD	1,2,4-Trimethylbenzene	500	4600	4600	ppbv	
TO15/NONE	GS	SG3-5 Rep, P4380cc	FD	1,3,5-Trimethylbenzene	500	1200	1200	ppbv	
TO15/NONE	GS	SG3-5 Rep, P4380cc	FD	Vinyl Chloride	500	35000	35000	ppbv	
TO15/NONE	GS	SG3-5 Rep, P4380cc	FD	m,p-Xylene	1000	1100	1100	ppbv	
TO15/NONE	GS	SG3-5 Rep, P4380cc	FD	o-Xylene	500	780	780	ppbv	

AUTOMATED DATA REVIEW SUMMARY for E304025

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SG3-5, P4330cc	N	Toluene	500	650	650	ppbv	
TO15/NONE	GS	SG3-5, P4330cc	N	p-Cymene (p-Isopropyltoluene)	500	790	790	ppbv	
TO15/NONE	GS	SG3-5, P4330cc	N	1,1-Dichloroethane	1000	4200	4200	ppbv	
TO15/NONE	GS	SG3-5, P4330cc	N	cis-1,2-Dichloroethylene	1000	51000	51000	ppbv	
TO15/NONE	GS	SG3-5, P4330cc	N	Trichloroethene (TCE)	500	26000	26000	ppbv	
TO15/NONE	GS	SG3-5, P4330cc	N	1,2,4-Trimethylbenzene	500	2800	2800	ppbv	
TO15/NONE	GS	SG3-5, P4330cc	N	1,3,5-Trimethylbenzene	500	870	870	ppbv	
TO15/NONE	GS	SG3-5, P4330cc	N	Vinyl Chloride	500	34000	34000	ppbv	
TO15/NONE	GS	SG3-5, P4330cc	N	o-Xylene	500	720	720	ppbv	
TO15/NONE	GS	SG4-15, P4814cc	N	1,1-Dichloroethane	500	690	690	ppbv	
TO15/NONE	GS	SG4-15, P4814cc	N	cis-1,2-Dichloroethylene	500	3200	3200	ppbv	
TO15/NONE	GS	SG4-15, P4814cc	N	Tetrachloroethene (PCE)	250	1200	1200	ppbv	
TO15/NONE	GS	SG4-15, P4814cc	N	Trichloroethene (TCE)	250	24000	24000	ppbv	
TO15/NONE	GS	SG4-25, P5298cc	N	1,1-Dichloroethane	500	2600	2600	ppbv	
TO15/NONE	GS	SG4-25, P5298cc	N	cis-1,2-Dichloroethylene	500	19000	19000	ppbv	
TO15/NONE	GS	SG4-25, P5298cc	N	trans-1,2-Dichloroethene	500	510	510	ppbv	
TO15/NONE	GS	SG4-25, P5298cc	N	Tetrachloroethene (PCE)	250	780	780	ppbv	
TO15/NONE	GS	SG4-25, P5298cc	N	Trichloroethene (TCE)	620	57000	57000	ppbv	
TO15/NONE	GS	SG4-35, P5806cc	N	1,1-Dichloroethane	1200	5600	5600	ppbv	
TO15/NONE	GS	SG4-35, P5806cc	N	cis-1,2-Dichloroethylene	1200	160000	160000	ppbv	
TO15/NONE	GS	SG4-35, P5806cc	N	trans-1,2-Dichloroethene	1200	2600	2600	ppbv	
TO15/NONE	GS	SG4-35, P5806cc	N	Trichloroethene (TCE)	620	120000	120000	ppbv	
TO15/NONE	GS	SG4-35, P5806cc	N	Vinyl Chloride	620	2400	2400	ppbv	
TO15/NONE	GS	SG4-5, P4330cc	N	sec-Butylbenzene	5.0	17.0	17.0	ppbv	
TO15/NONE	GS	SG4-5, P4330cc	N	Benzene	5.0	22.0	22.0	ppbv	
TO15/NONE	GS	SG4-5, P4330cc	N	Toluene	5.0	11.0	11.0	ppbv	
TO15/NONE	GS	SG4-5, P4330cc	N	p-Cymene (p-Isopropyltoluene)	5.0	18.0	18.0	ppbv	

AUTOMATED DATA REVIEW SUMMARY for E304025

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SG4-5, P4330cc	N	1,1-Dichloroethane	10.0	470	470	ppbv	
TO15/NONE	GS	SG4-5, P4330cc	N	1,1-Dichloroethene	5.0	29.0	29.0	ppbv	
TO15/NONE	GS	SG4-5, P4330cc	N	cis-1,2-Dichloroethylene	1200	9900	9900	ppbv	
TO15/NONE	GS	SG4-5, P4330cc	N	trans-1,2-Dichloroethene	10.0	64.0	64.0	ppbv	
TO15/NONE	GS	SG4-5, P4330cc	N	Ethylbenzene	5.0	5.8	5.8	ppbv	
TO15/NONE	GS	SG4-5, P4330cc	N	Isopropylbenzene (Cumene)	5.0	11.0	11.0	ppbv	
TO15/NONE	GS	SG4-5, P4330cc	N	Tetrachloroethene (PCE)	5.0	970	970	ppbv	
TO15/NONE	GS	SG4-5, P4330cc	N	1,1,1-Trichloroethane	5.0	30.0	30.0	ppbv	
TO15/NONE	GS	SG4-5, P4330cc	N	Trichloroethene (TCE)	620	23000	23000	ppbv	
TO15/NONE	GS	SG4-5, P4330cc	N	Chloroform	5.0	24.0	24.0	ppbv	
TO15/NONE	GS	SG4-5, P4330cc	N	1,2,4-Trimethylbenzene	5.0	65.0	65.0	ppbv	
TO15/NONE	GS	SG4-5, P4330cc	N	1,3,5-Trimethylbenzene	5.0	16.0	16.0	ppbv	
TO15/NONE	GS	SG4-5, P4330cc	N	Vinyl Chloride	5.0	150	150	ppbv	
TO15/NONE	GS	SG4-5, P4330cc	N	m,p-Xylene	10.0	12.0	12.0	ppbv	
TO15/NONE	GS	SG4-5, P4330cc	N	o-Xylene	5.0	7.3	7.3	ppbv	
TO15/NONE	GS	SG5-15, P4814cc	N	Benzene	5.0	22.0	22.0	ppbv	
TO15/NONE	GS	SG5-15, P4814cc	N	cis-1,2-Dichloroethylene	10.0	20.0	20.0	ppbv	
TO15/NONE	GS	SG5-15, P4814cc	N	Tetrachloroethene (PCE)	5.0	110	110	ppbv	
TO15/NONE	GS	SG5-15, P4814cc	N	Trichloroethene (TCE)	5.0	460	460	ppbv	
TO15/NONE	GS	SG5-25, P5298cc	N	Benzene	5.0	53.0	53.0	ppbv	
TO15/NONE	GS	SG5-25, P5298cc	N	1,1-Dichloroethene	5.0	7.4	7.4	ppbv	
TO15/NONE	GS	SG5-25, P5298cc	N	cis-1,2-Dichloroethylene	10.0	50.0	50.0	ppbv	
TO15/NONE	GS	SG5-25, P5298cc	N	trans-1,2-Dichloroethene	10.0	21.0	21.0	ppbv	
TO15/NONE	GS	SG5-25, P5298cc	N	Tetrachloroethene (PCE)	5.0	18.0	18.0	ppbv	
TO15/NONE	GS	SG5-25, P5298cc	N	Trichloroethene (TCE)	5.0	2000	2000	ppbv	
TO15/NONE	GS	SG5-35, P5806cc	N	cis-1,2-Dichloroethylene	100	200	200	ppbv	
TO15/NONE	GS	SG5-35, P5806cc	N	Trichloroethene (TCE)	50.0	3700	3700	ppbv	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SG5-5 Rep, P4380cc	FD	cis-1,2-Dichloroethylene	10.0	59.0	59.0	ppbv	
TO15/NONE	GS	SG5-5 Rep, P4380cc	FD	Tetrachloroethene (PCE)	5.0	140	140	ppbv	
TO15/NONE	GS	SG5-5 Rep, P4380cc	FD	Trichloroethene (TCE)	5.0	220	220	ppbv	
TO15/NONE	GS	SG5-5, P4330cc	N	cis-1,2-Dichloroethylene	10.0	53.0	53.0	ppbv	
TO15/NONE	GS	SG5-5, P4330cc	N	Tetrachloroethene (PCE)	5.0	140	140	ppbv	
TO15/NONE	GS	SG5-5, P4330cc	N	Trichloroethene (TCE)	5.0	230	230	ppbv	
TO15/NONE	GS	SG6-35, 10PV, P5806cc	N	sec-Butylbenzene	5.0	15.0	15.0	ppbv	
TO15/NONE	GS	SG6-35, 10PV, P5806cc	N	Benzene	5.0	25.0	25.0	ppbv	
TO15/NONE	GS	SG6-35, 10PV, P5806cc	N	Toluene	5.0	5.2	5.2	ppbv	
TO15/NONE	GS	SG6-35, 10PV, P5806cc	N	p-Cymene (p-Isopropyltoluene)	5.0	14.0	14.0	ppbv	
TO15/NONE	GS	SG6-35, 10PV, P5806cc	N	1,1-Dichloroethane	10.0	150	150	ppbv	
TO15/NONE	GS	SG6-35, 10PV, P5806cc	N	1,1-Dichloroethene	5.0	820	820	ppbv	
TO15/NONE	GS	SG6-35, 10PV, P5806cc	N	cis-1,2-Dichloroethylene	250	16000	16000	ppbv	
TO15/NONE	GS	SG6-35, 10PV, P5806cc	N	trans-1,2-Dichloroethene	10.0	590	590	ppbv	
TO15/NONE	GS	SG6-35, 10PV, P5806cc	N	1,4-Dioxane (p-Dioxane)	10.0	37.0	37.0	ppbv	
TO15/NONE	GS	SG6-35, 10PV, P5806cc	N	Dichlorodifluoromethane	5.0	48.0	48.0	ppbv	
TO15/NONE	GS	SG6-35, 10PV, P5806cc	N	Trichloroethene (TCE)	120	6100	6100	ppbv	
TO15/NONE	GS	SG6-35, 10PV, P5806cc	N	1,2,4-Trimethylbenzene	5.0	41.0	41.0	ppbv	
TO15/NONE	GS	SG6-35, 10PV, P5806cc	N	1,3,5-Trimethylbenzene	5.0	13.0	13.0	ppbv	
TO15/NONE	GS	SG6-35, 10PV, P5806cc	N	Vinyl Chloride	120	2800	2800	ppbv	
TO15/NONE	GS	SG6-35, 10PV, P5806cc	N	o-Xylene	5.0	5.7	5.7	ppbv	
TO15/NONE	GS	SG6-35, 1PV, P581cc	N	sec-Butylbenzene	5.0	20.0	20.0	ppbv	
TO15/NONE	GS	SG6-35, 1PV, P581cc	N	Benzene	5.0	32.0	32.0	ppbv	
TO15/NONE	GS	SG6-35, 1PV, P581cc	N	Toluene	5.0	8.2	8.2	ppbv	

AUTOMATED DATA REVIEW SUMMARY for E304025

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SG6-35, 1PV, P581cc	N	p-Cymene (p-Isopropyltoluene)	5.0	23.0	23.0	ppbv	
TO15/NONE	GS	SG6-35, 1PV, P581cc	N	1,1-Dichloroethane	10.0	170	170	ppbv	
TO15/NONE	GS	SG6-35, 1PV, P581cc	N	1,1-Dichloroethene	5.0	900	900	ppbv	
TO15/NONE	GS	SG6-35, 1PV, P581cc	N	cis-1,2-Dichloroethylene	1000	14000	14000	ppbv	
TO15/NONE	GS	SG6-35, 1PV, P581cc	N	trans-1,2-Dichloroethene	10.0	680	680	ppbv	
TO15/NONE	GS	SG6-35, 1PV, P581cc	N	1,4-Dioxane (p-Dioxane)	10.0	42.0	42.0	ppbv	
TO15/NONE	GS	SG6-35, 1PV, P581cc	N	Dichlorodifluoromethane	5.0	54.0	54.0	ppbv	
TO15/NONE	GS	SG6-35, 1PV, P581cc	N	Naphthalene	5.0	15.0	15.0	ppbv	
TO15/NONE	GS	SG6-35, 1PV, P581cc	N	Trichloroethene (TCE)	500	5100	5100	ppbv	
TO15/NONE	GS	SG6-35, 1PV, P581cc	N	1,2,4-Trimethylbenzene	5.0	66.0	66.0	ppbv	
TO15/NONE	GS	SG6-35, 1PV, P581cc	N	1,3,5-Trimethylbenzene	5.0	20.0	20.0	ppbv	
TO15/NONE	GS	SG6-35, 1PV, P581cc	N	Vinyl Chloride	500	3400	3400	ppbv	
TO15/NONE	GS	SG6-35, 1PV, P581cc	N	o-Xylene	5.0	6.7	6.7	ppbv	
TO15/NONE	GS	SG6-35, 3PV, P1742cc	N	sec-Butylbenzene	5.0	13.0	13.0	ppbv	
TO15/NONE	GS	SG6-35, 3PV, P1742cc	N	Benzene	5.0	25.0	25.0	ppbv	
TO15/NONE	GS	SG6-35, 3PV, P1742cc	N	Toluene	5.0	6.3	6.3	ppbv	
TO15/NONE	GS	SG6-35, 3PV, P1742cc	N	p-Cymene (p-Isopropyltoluene)	5.0	9.2	9.2	ppbv	
TO15/NONE	GS	SG6-35, 3PV, P1742cc	N	1,1-Dichloroethane	10.0	130	130	ppbv	
TO15/NONE	GS	SG6-35, 3PV, P1742cc	N	1,1-Dichloroethene	5.0	680	680	ppbv	
TO15/NONE	GS	SG6-35, 3PV, P1742cc	N	cis-1,2-Dichloroethylene	250	10000	10000	ppbv	
TO15/NONE	GS	SG6-35, 3PV, P1742cc	N	trans-1,2-Dichloroethene	10.0	500	500	ppbv	
TO15/NONE	GS	SG6-35, 3PV, P1742cc	N	1,4-Dioxane (p-Dioxane)	10.0	28.0	28.0	ppbv	
TO15/NONE	GS	SG6-35, 3PV, P1742cc	N	Dichlorodifluoromethane	5.0	45.0	45.0	ppbv	
TO15/NONE	GS	SG6-35, 3PV, P1742cc	N	Naphthalene	5.0	8.7	8.7	ppbv	

AUTOMATED DATA REVIEW SUMMARY for E304025

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SG6-35, 3PV, P1742cc	N	Trichloroethene (TCE)	120	3900	3900	ppbv	
TO15/NONE	GS	SG6-35, 3PV, P1742cc	N	1,2,4-Trimethylbenzene	5.0	40.0	40.0	ppbv	
TO15/NONE	GS	SG6-35, 3PV, P1742cc	N	1,3,5-Trimethylbenzene	5.0	12.0	12.0	ppbv	
TO15/NONE	GS	SG6-35, 3PV, P1742cc	N	Vinyl Chloride	120	1900	1900	ppbv	
TO15/NONE	GS	SG7-15, P4814cc	N	Benzene	5.0	27.0	27.0	ppbv	
TO15/NONE	GS	SG7-15, P4814cc	N	Toluene	5.0	5.9	5.9	ppbv	
TO15/NONE	GS	SG7-15, P4814cc	N	cis-1,2-Dichloroethylene	10.0	150	150	ppbv	
TO15/NONE	GS	SG7-15, P4814cc	N	Trichloroethene (TCE)	5.0	1100	1100	ppbv	
TO15/NONE	GS	SG7-25, P5298cc	N	Benzene	5.0	38.0	38.0	ppbv	
TO15/NONE	GS	SG7-25, P5298cc	N	Toluene	5.0	7.0	7.0	ppbv	
TO15/NONE	GS	SG7-25, P5298cc	N	1,1-Dichloroethane	10.0	310	310	ppbv	
TO15/NONE	GS	SG7-25, P5298cc	N	1,1-Dichloroethene	5.0	69.0	69.0	ppbv	
TO15/NONE	GS	SG7-25, P5298cc	N	cis-1,2-Dichloroethylene	250	5900	5900	ppbv	
TO15/NONE	GS	SG7-25, P5298cc	N	trans-1,2-Dichloroethene	10.0	160	160	ppbv	
TO15/NONE	GS	SG7-25, P5298cc	N	Dichlorodifluoromethane	5.0	6.8	6.8	ppbv	
TO15/NONE	GS	SG7-25, P5298cc	N	Tetrachloroethene (PCE)	5.0	13.0	13.0	ppbv	
TO15/NONE	GS	SG7-25, P5298cc	N	Trichloroethene (TCE)	120	22000	22000	ppbv	
TO15/NONE	GS	SG7-25, P5298cc	N	Vinyl Chloride	5.0	51.0	51.0	ppbv	
TO15/NONE	GS	SG7-35, P5806cc	N	1,1-Dichloroethane	250	1300	1300	ppbv	
TO15/NONE	GS	SG7-35, P5806cc	N	1,1-Dichloroethene	120	1000	1000	ppbv	
TO15/NONE	GS	SG7-35, P5806cc	N	cis-1,2-Dichloroethylene	250	49000	49000	ppbv	
TO15/NONE	GS	SG7-35, P5806cc	N	trans-1,2-Dichloroethene	250	1800	1800	ppbv	
TO15/NONE	GS	SG7-35, P5806cc	N	Trichloroethene (TCE)	620	62000	62000	ppbv	
TO15/NONE	GS	SG7-35, P5806cc	N	Vinyl Chloride	120	2600	2600	ppbv	
TO15/NONE	GS	SG7-5 Rep, P4380cc	FD	cis-1,2-Dichloroethylene	500	550	550	ppbv	
TO15/NONE	GS	SG7-5 Rep, P4380cc	FD	Trichloroethene (TCE)	250	3300	3300	ppbv	

AUTOMATED DATA REVIEW SUMMARY for E304025

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SG7-5, P4330cc	N	cis-1,2-Dichloroethylene	500	1600	1600	ppbv	
TO15/NONE	GS	SG7-5, P4330cc	N	Trichloroethene (TCE)	250	2200	2200	ppbv	
TO15/NONE	GS	SG8-15, P4814cc	N	1,1-Dichloroethane	5000	45000	45000	ppbv	
TO15/NONE	GS	SG8-15, P4814cc	N	1,1-Dichloroethene	2500	3400	3400	ppbv	
TO15/NONE	GS	SG8-15, P4814cc	N	cis-1,2-Dichloroethylene	5000	600000	600000	ppbv	
TO15/NONE	GS	SG8-15, P4814cc	N	Trichloroethene (TCE)	2500	160000	160000	ppbv	
TO15/NONE	GS	SG8-15, P4814cc	N	Vinyl Chloride	2500	190000	190000	ppbv	
TO15/NONE	GS	SG8-25, P5298cc	N	1,1-Dichloroethane	6200	32000	32000	ppbv	
TO15/NONE	GS	SG8-25, P5298cc	N	1,1-Dichloroethene	3100	5800	5800	ppbv	
TO15/NONE	GS	SG8-25, P5298cc	N	cis-1,2-Dichloroethylene	6200	990000	990000	ppbv	
TO15/NONE	GS	SG8-25, P5298cc	N	Trichloroethene (TCE)	3100	16000	16000	ppbv	
TO15/NONE	GS	SG8-25, P5298cc	N	Vinyl Chloride	3100	150000	150000	ppbv	
TO15/NONE	GS	SG8-35, P5806cc	N	1,1-Dichloroethane	10000	27000	27000	ppbv	
TO15/NONE	GS	SG8-35, P5806cc	N	cis-1,2-Dichloroethylene	10000	770000	770000	ppbv	
TO15/NONE	GS	SG8-35, P5806cc	N	trans-1,2-Dichloroethene	10000	16000	16000	ppbv	
TO15/NONE	GS	SG8-35, P5806cc	N	Trichloroethene (TCE)	5000	140000	140000	ppbv	
TO15/NONE	GS	SG8-35, P5806cc	N	Vinyl Chloride	5000	75000	75000	ppbv	
TO15/NONE	GS	SG8-5, P4330cc	N	1,1-Dichloroethane	5000	20000	20000	ppbv	
TO15/NONE	GS	SG8-5, P4330cc	N	cis-1,2-Dichloroethylene	5000	58000	58000	ppbv	
TO15/NONE	GS	SG8-5, P4330cc	N	Vinyl Chloride	2500	170000	170000	ppbv	
TO15/NONE	GS	SG9-15, P4814cc	N	1,1-Dichloroethane	12000	59000	59000	ppbv	
TO15/NONE	GS	SG9-15, P4814cc	N	cis-1,2-Dichloroethylene	12000	460000	460000	ppbv	
TO15/NONE	GS	SG9-15, P4814cc	N	Trichloroethene (TCE)	6200	580000	580000	ppbv	
TO15/NONE	GS	SG9-15, P4814cc	N	Vinyl Chloride	6200	20000	20000	ppbv	
TO15/NONE	GS	SG9-25, P5298cc	N	n-Butylbenzene	6200	8000	8000	ppbv	
TO15/NONE	GS	SG9-25, P5298cc	N	1,1-Dichloroethane	12000	100000	100000	ppbv	
TO15/NONE	GS	SG9-25, P5298cc	N	1,1-Dichloroethene	6200	35000	35000	ppbv	

AUTOMATED DATA REVIEW SUMMARY for E304025

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SG9-25, P5298cc	N	cis-1,2-Dichloroethylene	25000	2300000	2300000	ppbv	
TO15/NONE	GS	SG9-25, P5298cc	N	trans-1,2-Dichloroethene	12000	16000	16000	ppbv	
TO15/NONE	GS	SG9-25, P5298cc	N	Trichloroethene (TCE)	6200	540000	540000	ppbv	
TO15/NONE	GS	SG9-25, P5298cc	N	1,2,4-Trimethylbenzene	6200	9300	9300	ppbv	
TO15/NONE	GS	SG9-25, P5298cc	N	Vinyl Chloride	6200	79000	79000	ppbv	
TO15/NONE	GS	SG9-35, P5806cc	N	n-Butylbenzene	120	350	350	ppbv	
TO15/NONE	GS	SG9-35, P5806cc	N	sec-Butylbenzene	120	190	190	ppbv	
TO15/NONE	GS	SG9-35, P5806cc	N	Benzene	120	260	260	ppbv	
TO15/NONE	GS	SG9-35, P5806cc	N	Toluene	120	260	260	ppbv	
TO15/NONE	GS	SG9-35, P5806cc	N	p-Cymene (p-Isopropyltoluene)	120	140	140	ppbv	
TO15/NONE	GS	SG9-35, P5806cc	N	1,1-Dichloroethane	250	41000	41000	ppbv	
TO15/NONE	GS	SG9-35, P5806cc	N	1,2-Dichloroethane	120	220	220	ppbv	
TO15/NONE	GS	SG9-35, P5806cc	N	1,1-Dichloroethene	120	7600	7600	ppbv	
TO15/NONE	GS	SG9-35, P5806cc	N	cis-1,2-Dichloroethylene	25000	2100000	2100000	ppbv	
TO15/NONE	GS	SG9-35, P5806cc	N	trans-1,2-Dichloroethene	250	7100	7100	ppbv	
TO15/NONE	GS	SG9-35, P5806cc	N	Ethylbenzene	120	130	130	ppbv	
TO15/NONE	GS	SG9-35, P5806cc	N	Isopropylbenzene (Cumene)	120	180	180	ppbv	
TO15/NONE	GS	SG9-35, P5806cc	N	n-Propylbenzene	120	130	130	ppbv	
TO15/NONE	GS	SG9-35, P5806cc	N	Tetrachloroethene (PCE)	120	750	750	ppbv	
TO15/NONE	GS	SG9-35, P5806cc	N	1,1,2-Trichloroethane	120	310	310	ppbv	
TO15/NONE	GS	SG9-35, P5806cc	N	Trichloroethene (TCE)	12000	1200000	1200000 J	ppbv	D5
TO15/NONE	GS	SG9-35, P5806cc	N	1,2,4-Trimethylbenzene	120	480	480	ppbv	
TO15/NONE	GS	SG9-35, P5806cc	N	Vinyl Chloride	12000	120000	120000 J	ppbv	D5
TO15/NONE	GS	SG9-5, P4330cc	N	1,1-Dichloroethane	12000	100000	100000	ppbv	
TO15/NONE	GS	SG9-5, P4330cc	N	cis-1,2-Dichloroethylene	12000	930000	930000	ppbv	
TO15/NONE	GS	SG9-5, P4330cc	N	1,1,1-Trichloroethane	6200	18000	18000	ppbv	
TO15/NONE	GS	SG9-5, P4330cc	N	Trichloroethene (TCE)	6200	1100000	1100000	ppbv	

AUTOMATED DATA REVIEW SUMMARY for E304025

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SG9-5, P4330cc	N	Vinyl Chloride	6200	36000	36000	ppbv	

AUTOMATED DATA REVIEW SUMMARY for E304025

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for 14125A

Facility: Southern Avenue Industrial Area

EPA R9 Lab Split Soil Gas Results, April-May 2014

Guidance Document:

Contract Laboratory: U.S. EPA, Region 9 Lab, Richmond, CA

Field Contractor:

Data Review Contractor: Gilbane

SDG: 14125A, Certified - 6/3/2014 by wtse

QC Level: S1BVEM

Project Manager: Don Gruber

Data Reviewer: Peggy Cota

Data Reviewer Title: Senior Validator

Date of Review Report: August 07, 2014

Second Reviewer: Tom Beer

Completion Date of Second Reviewer: July 02, 2014

Samples Included in SDG 14125A

Analytical Method/ Leach Method	Normal Gaseous Samples	Field QC Gaseous Samples
TO15/NONE	12	0

AUTOMATED DATA REVIEW SUMMARY for 14125A

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by U.S. EPA, Region 9 Lab, Richmond, CA and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

Blank
Blank - Negative
Lab Replicate RPD
LCS Recovery
Prep Hold Time
Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

Ambient Blank
Calibration Blank
Calibration Blank - Negative
Continuing Calibration Verification
Equipment Blank
Field Blank
Field Duplicate RPD
Initial Calibration Verification
Material Blank
MS Recovery
MS RPD
Negative Blank
Surrogate
Trip Blank

AUTOMATED DATA REVIEW SUMMARY for 14125A

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 41 results (8.91%) out of the 460 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

EPA R9 Lab report was reviewed

Qualifiers were added for continuing calibration anomalies and tentatively identified compounds (TICs)

07-Aug-2014

Released by Peggy Cota, Senior Validator

02-Jul-2014

Released by Tom Beer

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action
O	Interference check sample

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.
J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for 14125A

Batch Report

Test Method: TO15; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
S14E035	B14E052	NA	LABQC	GQ	LABQC	B14E052-BS1	1405004	1/1	09-May-2014 12:00 AM	09-May-2014 8:28 AM	09-May-2014 9:16 AM	BS
	B14E052	NA	LABQC	GQ	LABQC	B14E052-BLK1	1405004	1/1	09-May-2014 12:00 AM	09-May-2014 8:28 AM	09-May-2014 11:43 AM	LB
	B14E052	NA	SAIA-SB/SG20	GS	SAIA-SG20-E35	1405007-11	1405004	1/2.04	01-May-2014 8:18 AM	09-May-2014 8:28 AM	10-May-2014 5:50 AM	N
	B14E052	NA	SAIA-SB/SG22	GS	SAIA-SG22-E25	1405007-10	1405004	1/2.77	29-Apr-2014 3:58 PM	09-May-2014 8:28 AM	09-May-2014 6:44 PM	N
	B14E052	NA	SAIA-SB/SG24	GS	SAIA-SG24-E35	1405007-03	1405004	1/2.39	23-Apr-2014 1:05 PM	09-May-2014 8:28 AM	10-May-2014 6:38 AM	N
	B14E052	NA	SAIA-SB/SG27	GS	SAIA-SG27-E5	1405007-09RE1	1405004	1/2.09	28-Apr-2014 1:42 PM	09-May-2014 8:28 AM	09-May-2014 5:07 PM	N
	B14E052	NA	SAIA-SB/SG29	GS	SAIA-SG29-E5	1405007-04	1405004	1/2.24	24-Apr-2014 9:45 AM	09-May-2014 8:28 AM	09-May-2014 9:52 PM	N
	B14E052	NA	SAIA-SB/SG29	GS	SAIA-SG29-E5	1405007-04RE2	1405004	1/2.24	24-Apr-2014 9:45 AM	09-May-2014 8:28 AM	09-May-2014 3:29 PM	N
	B14E052	NA	SAIA-SB/SG30	GS	SAIA-SG30-E25	1405007-05	1405004	1/3.19	25-Apr-2014 9:04 AM	09-May-2014 8:28 AM	10-May-2014 1:53 AM	N
	B14E052	NA	SAIA-SB/SG30	GS	SAIA-SG30-E25	1405007-05RE1	1405004	1/3.19	25-Apr-2014 9:04 AM	09-May-2014 8:28 AM	10-May-2014 2:38 AM	N
	B14E052	NA	SAIA-SB/SG32	GS	SAIA-SG32-E15	1405007-06	1405004	1/2.36	25-Apr-2014 10:13 AM	09-May-2014 8:28 AM	09-May-2014 10:41 PM	N
	B14E052	NA	SAIA-SB/SG32	GS	SAIA-SG32-E15	1405007-06RE1	1405004	1/2.36	25-Apr-2014 10:13 AM	09-May-2014 8:28 AM	09-May-2014 11:26 PM	N
	B14E052	NA	SAIA-SB/SG33	GS	SAIA-SG33-E35	1405007-07	1405004	1/2.7	25-Apr-2014 1:19 PM	09-May-2014 8:28 AM	10-May-2014 12:15 AM	N
	B14E052	NA	SAIA-SB/SG35	GS	SAIA-SG35-E25	1405007-08	1405004	1/2.43	28-Apr-2014 9:42 AM	09-May-2014 8:28 AM	09-May-2014 9:07 PM	N
	B14E052	NA	SAIA-SB/SG36	GS	SAIA-SG36-E35	1405007-02	1405004	1/3.4	23-Apr-2014 10:03 AM	09-May-2014 8:28 AM	10-May-2014 3:27 AM	N
	B14E052	NA	SAIA-SB/SG41	GS	SAIA-SG41-E5	B14E052-DUP1	1405004	1/2.2	01-May-2014 1:27 PM	09-May-2014 8:28 AM	09-May-2014 1:25 PM	LR
	B14E052	NA	SAIA-SB/SG41	GS	SAIA-SG41-E5	1405007-12	1405004	1/2.2	01-May-2014 1:27 PM	09-May-2014 8:28 AM	09-May-2014 8:18 PM	N
	B14E052	NA	SAIA-SB/SG41	GS	SAIA-SG41-E5	1405007-12RE1	1405004	1/2.2	01-May-2014 1:27 PM	09-May-2014 8:28 AM	09-May-2014 12:35 PM	N
S14E055	B14E064	NA	LABQC	GQ	LABQC	B14E064-BS1	1405004	1/1	13-May-2014 12:00 AM	13-May-2014 10:55 AM	13-May-2014 11:44 AM	BS
	B14E064	NA	LABQC	GQ	LABQC	B14E064-BLK1	1405004	1/1	13-May-2014 12:00 AM	13-May-2014 10:55 AM	13-May-2014 2:09 PM	LB
	B14E064	NA	SAIA-SB/SG20	GS	SAIA-SG20-E35	1405007-11RE1	1405004	1/34.11	01-May-2014 8:18 AM	13-May-2014 10:55 AM	13-May-2014 2:58 PM	N

AUTOMATED DATA REVIEW SUMMARY for 14125A

Batch Report

Test Method: TO15; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
S14E055	B14E064	NA	SAIA-SB/SG22	GS	SAIA-SG22-E25	1405007-10RE1	1405004	1/2.77	29-Apr-2014 3:58 PM	13-May-2014 10:55 AM	13-May-2014 10:05 PM	N
	B14E064	NA	SAIA-SB/SG24	GS	SAIA-SG24-E35	B14E064-DUP1	1405004	1/37.61	23-Apr-2014 1:05 PM	13-May-2014 10:55 AM	13-May-2014 4:35 PM	LR
	B14E064	NA	SAIA-SB/SG24	GS	SAIA-SG24-E35	1405007-03RE1	1405004	1/37.61	23-Apr-2014 1:05 PM	13-May-2014 10:55 AM	13-May-2014 3:47 PM	N
	B14E064	NA	SAIA-SB/SG27	GS	SAIA-SG27-E5	1405007-09	1405004	1/2.09	28-Apr-2014 1:42 PM	13-May-2014 10:55 AM	13-May-2014 7:42 PM	N
	B14E064	NA	SAIA-SB/SG29	GS	SAIA-SG29-E5	1405007-04RE1	1405004	1/2.24	24-Apr-2014 9:45 AM	13-May-2014 10:55 AM	13-May-2014 5:22 PM	N
	B14E064	NA	SAIA-SB/SG33	GS	SAIA-SG33-E35	1405007-07RE1	1405004	1/2.7	25-Apr-2014 1:19 PM	13-May-2014 10:55 AM	13-May-2014 6:08 PM	N
	B14E064	NA	SAIA-SB/SG35	GS	SAIA-SG35-E25	1405007-08RE1	1405004	1/2.43	28-Apr-2014 9:42 AM	13-May-2014 10:55 AM	13-May-2014 6:56 PM	N
	B14E064	NA	SAIA-SB/SG39	GS	SAIA-SG39-E15	1405007-01	1405004	1/4.96	22-Apr-2014 10:52 AM	13-May-2014 10:55 AM	13-May-2014 9:20 PM	N

AUTOMATED DATA REVIEW SUMMARY for 14125A

Field Batch Report

--No Records Found--

QC Outlier Report

--No Records Found--

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SAIA-SG20-E35	N	1,1-Dichloroethene	16000	11000 J,C1	11000 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG22-E25	N	1,1-Dichloroethene	10.0	7.0 J,C1	7.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG22-E25	N	1,3,5-Trimethylbenzene	10.0	8.0 J,C1	8.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG22-E25	N	Butane		1600 J	1600 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG22-E25	N	Dimethyl OctaNE		600 J	600 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG22-E25	N	Ethylbenzene	10.0	10.0 J,C1	10.0 J	UG/M3	C11
TO15/NONE	GS	SAIA-SG22-E25	N	o-Xylene	10.0	10.0 J,C1	10.0 J	UG/M3	C11
TO15/NONE	GS	SAIA-SG27-E5	N	Benzene	70.0	60.0 J,C1	60.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG29-E5	N	Bromochlorodifluoromethane		11000 J	11000 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG29-E5	N	Chlorodifluoromethane		400 J	400 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG30-E25	N	Acetaldehyde		40.0 J	40.0 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG30-E25	N	Toluene	10.0	8.0 J,C1	8.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG32-E15	N	1,1-Dichloroethane	10.0	5.0 J,C1	5.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG32-E15	N	1,2,4-Trichlorobenzene	20.0	10.0 J,C1	10.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG32-E15	N	1,2,4-Trimethylbenzene	10.0	7.0 J,C1	7.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG32-E15	N	Toluene	9.0	8.0 J,C1	8.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG33-E35	N	1,2,4-Trimethylbenzene	10.0	10.0 J,C1	10.0 J	UG/M3	C11

AUTOMATED DATA REVIEW SUMMARY for 14125A

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SAIA-SG33-E35	N	Toluene	10.0	8.0 J,C1	8.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG33-E35	N	Trimethyl Cyclohexane		300 J	300 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG33-E35	N	TrimethylCyclopentane Isomers		80.0 J	80.0 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG35-E25	N	1,2,4-Trichlorobenzene	20.0	10.0 J,C1	10.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG35-E25	N	1,2,4-Trimethylbenzene	10.0	10.0 J,C1	10.0 J	UG/M3	C11
TO15/NONE	GS	SAIA-SG35-E25	N	Butane		400 J	400 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG35-E25	N	Decahydromethyl Naphthalene		40.0 J	40.0 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG35-E25	N	Ethylbenzene	10.0	7.0 J,C1	7.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG36-E35	N	Benzene	10.0	9.0 J,C1	9.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG36-E35	N	Butane		60.0 J	60.0 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG36-E35	N	Methyl Butane		30.0 J	30.0 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG36-E35	N	n-Pentane		60.0 J	60.0 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG36-E35	N	Toluene	10.0	8.0 J,C1	8.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG39-E15	N	1,2,4-Trimethylbenzene	20.0	20.0 J,C1	20.0 J	UG/M3	C11
TO15/NONE	GS	SAIA-SG39-E15	N	Benzene	20.0	10.0 J,C1	10.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG39-E15	N	Bromochlorodifluoromethane		900 J	900 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG39-E15	N	Butane		60.0 J	60.0 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG39-E15	N	Chlorodifluoromethane		70.0 J	70.0 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG39-E15	N	m,p-Xylene	40.0	20.0 J,C1	20.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG39-E15	N	o-Xylene	20.0	10.0 J,C1	10.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG39-E15	N	Trichloroethene (TCE)	30.0	20.0 J,C1	20.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG41-E5	N	1,1-Dichloroethane	40.0	20.0 J,C1	20.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG41-E5	N	Decahydromethyl Naphthalene		100 J	100 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG41-E5	N	Tetrachloroethene (PCE)	70.0	50.0 J,C1	50.0 J	UG/M3	C11/TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SAIA-SG20-E35	N	1,1-Dichloroethane	17000	32000 =	32000	UG/M3	
TO15/NONE	GS	SAIA-SG20-E35	N	1,1-Dichloroethene	16000	11000 J,C1	11000 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG20-E35	N	cis-1,2-Dichloroethylene	270000	4700000 =	4700000	UG/M3	
TO15/NONE	GS	SAIA-SG20-E35	N	Trichloroethene (TCE)	370000	3200000 =	3200000	UG/M3	
TO15/NONE	GS	SAIA-SG20-E35	N	Vinyl Chloride	10000	43000 =	43000	UG/M3	
TO15/NONE	GS	SAIA-SG22-E25	N	Butane		1600 J	1600 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG22-E25	N	Benzene	9.0	200 =	200	UG/M3	
TO15/NONE	GS	SAIA-SG22-E25	N	Toluene	10.0	40.0 =	40.0	UG/M3	
TO15/NONE	GS	SAIA-SG22-E25	N	1,1-Dichloroethene	10.0	7.0 J,C1	7.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG22-E25	N	cis-1,2-Dichloroethylene	10.0	200 =	200	UG/M3	
TO15/NONE	GS	SAIA-SG22-E25	N	Dimethyl OctaNE		600 J	600 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG22-E25	N	Ethylbenzene	10.0	10.0 J,C1	10.0 J	UG/M3	C11
TO15/NONE	GS	SAIA-SG22-E25	N	Tetrachloroethene (PCE)	20.0	60.0 =	60.0	UG/M3	
TO15/NONE	GS	SAIA-SG22-E25	N	Trichloroethene (TCE)	100	800 =	800	UG/M3	
TO15/NONE	GS	SAIA-SG22-E25	N	1,2,4-Trimethylbenzene	10.0	70.0 =	70.0	UG/M3	
TO15/NONE	GS	SAIA-SG22-E25	N	1,3,5-Trimethylbenzene	10.0	8.0 J,C1	8.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG22-E25	N	Vinyl Chloride	7.0	10.0 =	10.0	UG/M3	
TO15/NONE	GS	SAIA-SG22-E25	N	m,p-Xylene	20.0	30.0 =	30.0	UG/M3	
TO15/NONE	GS	SAIA-SG22-E25	N	o-Xylene	10.0	10.0 J,C1	10.0 J	UG/M3	C11
TO15/NONE	GS	SAIA-SG24-E35	N	1,1-Dichloroethane	19000	57000 =	57000	UG/M3	
TO15/NONE	GS	SAIA-SG24-E35	N	1,1-Dichloroethene	19000	38000 =	38000	UG/M3	
TO15/NONE	GS	SAIA-SG24-E35	N	cis-1,2-Dichloroethylene	300000	2600000 =	2600000	UG/M3	
TO15/NONE	GS	SAIA-SG24-E35	N	Trichloroethene (TCE)	400000	6600000 =	6600000	UG/M3	
TO15/NONE	GS	SAIA-SG24-E35	N	Vinyl Chloride	12000	20000 =	20000	UG/M3	
TO15/NONE	GS	SAIA-SG27-E5	N	Benzene	70.0	60.0 J,C1	60.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG27-E5	N	cis-1,2-Dichloroethylene	80.0	200 =	200	UG/M3	
TO15/NONE	GS	SAIA-SG27-E5	N	Tetrachloroethene (PCE)	14000	40000 =	40000	UG/M3	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SAIA-SG27-E5	N	Trichloroethene (TCE)	100	1600 =	1600	UG/M3	
TO15/NONE	GS	SAIA-SG29-E5	N	Bromochlorodifluoromethane		11000 J	11000 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG29-E5	N	Chlorodifluoromethane		400 J	400 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG29-E5	N	cis-1,2-Dichloroethylene	90.0	1400 =	1400	UG/M3	
TO15/NONE	GS	SAIA-SG29-E5	N	Trichloroethene (TCE)	2400	4800 =	4800	UG/M3	
TO15/NONE	GS	SAIA-SG30-E25	N	Acetaldehyde		40.0 J	40.0 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG30-E25	N	Benzene	10.0	40.0 =	40.0	UG/M3	
TO15/NONE	GS	SAIA-SG30-E25	N	Toluene	10.0	8.0 J,C1	8.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG30-E25	N	cis-1,2-Dichloroethylene	100	500 =	500	UG/M3	
TO15/NONE	GS	SAIA-SG30-E25	N	Tetrachloroethene (PCE)	200	700 =	700	UG/M3	
TO15/NONE	GS	SAIA-SG30-E25	N	Trichloroethene (TCE)	200	2600 =	2600	UG/M3	
TO15/NONE	GS	SAIA-SG32-E15	N	Benzene	8.0	40.0 =	40.0	UG/M3	
TO15/NONE	GS	SAIA-SG32-E15	N	Toluene	9.0	8.0 J,C1	8.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG32-E15	N	1,1-Dichloroethane	10.0	5.0 J,C1	5.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG32-E15	N	cis-1,2-Dichloroethylene	90.0	400 =	400	UG/M3	
TO15/NONE	GS	SAIA-SG32-E15	N	Tetrachloroethene (PCE)	20.0	200 =	200	UG/M3	
TO15/NONE	GS	SAIA-SG32-E15	N	1,2,4-Trichlorobenzene	20.0	10.0 J,C1	10.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG32-E15	N	Trichloroethene (TCE)	100	2000 =	2000	UG/M3	
TO15/NONE	GS	SAIA-SG32-E15	N	1,2,4-Trimethylbenzene	10.0	7.0 J,C1	7.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG33-E35	N	Benzene	9.0	50.0 =	50.0	UG/M3	
TO15/NONE	GS	SAIA-SG33-E35	N	Toluene	10.0	8.0 J,C1	8.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG33-E35	N	1,1-Dichloroethane	10.0	10.0 =	10.0	UG/M3	
TO15/NONE	GS	SAIA-SG33-E35	N	1,1-Dichloroethene	10.0	10.0 =	10.0	UG/M3	
TO15/NONE	GS	SAIA-SG33-E35	N	cis-1,2-Dichloroethylene	100	800 =	800	UG/M3	
TO15/NONE	GS	SAIA-SG33-E35	N	Tetrachloroethene (PCE)	20.0	20.0 =	20.0	UG/M3	
TO15/NONE	GS	SAIA-SG33-E35	N	Trichloroethene (TCE)	100	2700 =	2700	UG/M3	
TO15/NONE	GS	SAIA-SG33-E35	N	1,2,4-Trimethylbenzene	10.0	10.0 J,C1	10.0 J	UG/M3	C11

AUTOMATED DATA REVIEW SUMMARY for 14125A

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SAIA-SG33-E35	N	Trimethyl Cyclohexane		300 J	300 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG33-E35	N	TrimethylCyclopentane Isomers		80.0 J	80.0 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG35-E25	N	Butane		400 J	400 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG35-E25	N	Benzene	8.0	100 =	100	UG/M3	
TO15/NONE	GS	SAIA-SG35-E25	N	Toluene	9.0	20.0 =	20.0	UG/M3	
TO15/NONE	GS	SAIA-SG35-E25	N	cis-1,2-Dichloroethylene	10.0	100 =	100	UG/M3	
TO15/NONE	GS	SAIA-SG35-E25	N	Ethylbenzene	10.0	7.0 J,C1	7.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG35-E25	N	Decahydromethyl Naphthalene		40.0 J	40.0 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG35-E25	N	1,2,4-Trichlorobenzene	20.0	10.0 J,C1	10.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG35-E25	N	Trichloroethene (TCE)	100	1200 =	1200	UG/M3	
TO15/NONE	GS	SAIA-SG35-E25	N	1,2,4-Trimethylbenzene	10.0	10.0 J,C1	10.0 J	UG/M3	C11
TO15/NONE	GS	SAIA-SG35-E25	N	m,p-Xylene	20.0	20.0 =	20.0	UG/M3	
TO15/NONE	GS	SAIA-SG35-E25	N	o-Xylene	10.0	10.0 =	10.0	UG/M3	
TO15/NONE	GS	SAIA-SG36-E35	N	Butane		60.0 J	60.0 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG36-E35	N	Benzene	10.0	9.0 J,C1	9.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG36-E35	N	Toluene	10.0	8.0 J,C1	8.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG36-E35	N	n-Pentane		60.0 J	60.0 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG36-E35	N	cis-1,2-Dichloroethylene	10.0	20.0 =	20.0	UG/M3	
TO15/NONE	GS	SAIA-SG36-E35	N	Methyl Butane		30.0 J	30.0 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG36-E35	N	Trichloroethene (TCE)	20.0	80.0 =	80.0	UG/M3	
TO15/NONE	GS	SAIA-SG39-E15	N	Bromochlorodifluoromethane		900 J	900 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG39-E15	N	Butane		60.0 J	60.0 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG39-E15	N	Benzene	20.0	10.0 J,C1	10.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG39-E15	N	Toluene	20.0	20.0 =	20.0	UG/M3	
TO15/NONE	GS	SAIA-SG39-E15	N	Chlorodifluoromethane		70.0 J	70.0 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG39-E15	N	cis-1,2-Dichloroethylene	20.0	20.0 =	20.0	UG/M3	
TO15/NONE	GS	SAIA-SG39-E15	N	Trichloroethene (TCE)	30.0	20.0 J,C1	20.0 J	UG/M3	C11/TR

AUTOMATED DATA REVIEW SUMMARY for 14125A

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO15/NONE	GS	SAIA-SG39-E15	N	1,2,4-Trimethylbenzene	20.0	20.0 J,C1	20.0 J	UG/M3	C11
TO15/NONE	GS	SAIA-SG39-E15	N	m,p-Xylene	40.0	20.0 J,C1	20.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG39-E15	N	o-Xylene	20.0	10.0 J,C1	10.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG41-E5	N	Benzene	40.0	60.0 =	60.0	UG/M3	
TO15/NONE	GS	SAIA-SG41-E5	N	1,1-Dichloroethane	40.0	20.0 J,C1	20.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG41-E5	N	cis-1,2-Dichloroethylene	1700	5100 =	5100	UG/M3	
TO15/NONE	GS	SAIA-SG41-E5	N	Decahydromethyl Naphthalene		100 J	100 NJ	UG/M3	TI
TO15/NONE	GS	SAIA-SG41-E5	N	Tetrachloroethene (PCE)	70.0	50.0 J,C1	50.0 J	UG/M3	C11/TR
TO15/NONE	GS	SAIA-SG41-E5	N	Trichloroethene (TCE)	2400	6000 =	6000	UG/M3	

AUTOMATED DATA REVIEW SUMMARY for 14125A

Rejected Results

--No Records Found--

ATTACHMENT B

STAGE 3 DATA VALIDATION REPORTS

AUTOMATED DATA REVIEW SUMMARY for MY9E95

Facility: Southern Avenue Industrial Area

Soil Boring Sampling Event, April 2014

Guidance Document:

Contract Laboratory: CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ

Field Contractor:

Data Review Contractor: ESAT/ICF International

SDG: MY9E95, Certified - 5/2/2014 by wtse

QC Level: S3VEM

Project Manager: Don Gruber, Gilbane

Data Reviewer: Dina Bailey, ICF

Data Reviewer Title: Validator

Date of Review Report: June 26, 2014

Second Reviewer: Tom Beer, Gilbane

Completion Date of Second Reviewer: December 01, 2014

Samples Included in SDG MY9E95

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
E200.7/NONE	16	4
SW7471B/NONE	16	4

AUTOMATED DATA REVIEW SUMMARY for MY9E95

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Material Blank
- MS RPD
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for MY9E95

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 78 results (16.96%) out of the 460 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

The EPA validator reviewed the Chemtech lab report, COCs, lab case narrative, and EXES data review package.

No sample receipt issues or calibration anomalies were noted.

Data qualifiers were added for lab blank (B2) detects, matrix interference (M), and field duplicate (D5) imprecision.

No data were rejected, and the negative blank QC outliers were resolved.

26-Jun-2014

Released by Dina Bailey, ICF, Validator

01-Dec-2014

Released by Tom Beer, Gilbane

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for MY9E95

Batch Report

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70621-CC	PB76120	NA	LABQC	SQ	LABQC	PB76120BS	LB70621-S0	1/1	17-Apr-2014 12:00 PM	17-Apr-2014 12:00 PM	17-Apr-2014 6:43 PM	BS
	PB76120	NA	LABQC	SQ	LABQC	PB76120BL	LB70621-S0	1/1	17-Apr-2014 12:00 PM	17-Apr-2014 12:00 PM	17-Apr-2014 6:39 PM	LB
	PB76120	NA	SAIA-SB/SG19	SO	SAIA-SB19-15	F2027-02	LB70621-S0	1/1	16-Apr-2014 8:15 AM	17-Apr-2014 12:00 PM	17-Apr-2014 6:52 PM	N
	PB76120	NA	SAIA-SB/SG19	SO	SAIA-SB19-25	F2027-03	LB70621-S0	1/1	16-Apr-2014 8:25 AM	17-Apr-2014 12:00 PM	17-Apr-2014 6:56 PM	N
	PB76120	NA	SAIA-SB/SG19	SO	SAIA-SB19-35	F2027-05	LB70621-S0	1/1	16-Apr-2014 8:35 AM	17-Apr-2014 12:00 PM	17-Apr-2014 7:04 PM	LR
	PB76120	NA	SAIA-SB/SG19	SO	SAIA-SB19-35	F2027-06	LB70621-S0	1/1	16-Apr-2014 8:35 AM	17-Apr-2014 12:00 PM	17-Apr-2014 7:08 PM	MS
	PB76120	NA	SAIA-SB/SG19	SO	SAIA-SB19-35	F2027-04	LB70621-S0	1/1	16-Apr-2014 8:35 AM	17-Apr-2014 12:00 PM	17-Apr-2014 7:00 PM	N
	PB76120	NA	SAIA-SB/SG19	SO	SAIA-SB19-6	F2027-01	LB70621-S0	1/1	16-Apr-2014 8:00 AM	17-Apr-2014 12:00 PM	17-Apr-2014 6:48 PM	FD
	PB76120	NA	SAIA-SB/SG24	SO	SAIA-SB24-0.5	F2027-07	LB70621-S0	1/1	16-Apr-2014 10:00 AM	17-Apr-2014 12:00 PM	17-Apr-2014 7:15 PM	N
	PB76120	NA	SAIA-SB/SG24	SO	SAIA-SB24-15	F2027-10	LB70621-S0	1/1	16-Apr-2014 10:30 AM	17-Apr-2014 12:00 PM	17-Apr-2014 7:27 PM	N
	PB76120	NA	SAIA-SB/SG24	SO	SAIA-SB24-2	F2027-08	LB70621-S0	1/1	16-Apr-2014 10:05 AM	17-Apr-2014 12:00 PM	17-Apr-2014 7:19 PM	N
	PB76120	NA	SAIA-SB/SG24	SO	SAIA-SB24-25	F2027-11	LB70621-S0	1/1	16-Apr-2014 10:40 AM	17-Apr-2014 12:00 PM	17-Apr-2014 7:31 PM	N
	PB76120	NA	SAIA-SB/SG24	SO	SAIA-SB24-35	F2027-12	LB70621-S0	1/1	16-Apr-2014 10:50 AM	17-Apr-2014 12:00 PM	17-Apr-2014 7:35 PM	N
	PB76120	NA	SAIA-SB/SG24	SO	SAIA-SB24-5	F2027-09	LB70621-S0	1/1	16-Apr-2014 10:10 AM	17-Apr-2014 12:00 PM	17-Apr-2014 7:23 PM	N
	PB76120	NA	SAIA-SB/SG26	SO	SAIA-SB26-0.5	F2027-13	LB70621-S0	1/1	16-Apr-2014 12:20 PM	17-Apr-2014 12:00 PM	17-Apr-2014 7:39 PM	N
	PB76120	NA	SAIA-SB/SG26	SO	SAIA-SB26-0.6	F2027-14	LB70621-S0	1/1	16-Apr-2014 12:25 PM	17-Apr-2014 12:00 PM	17-Apr-2014 7:43 PM	FD
LB70645-CC	PB76120	NA	SAIA-SB/SG26	SO	SAIA-SB26-15	F2027-17	LB70645-S0	1/1	16-Apr-2014 12:50 PM	17-Apr-2014 12:00 PM	18-Apr-2014 12:12 PM	N
	PB76120	NA	SAIA-SB/SG26	SO	SAIA-SB26-16	F2027-18	LB70645-S0	1/1	16-Apr-2014 12:55 PM	17-Apr-2014 12:00 PM	18-Apr-2014 12:16 PM	FD
	PB76120	NA	SAIA-SB/SG26	SO	SAIA-SB26-2	F2027-15	LB70645-S0	1/1	16-Apr-2014 12:30 PM	17-Apr-2014 12:00 PM	18-Apr-2014 12:04 PM	N
	PB76120	NA	SAIA-SB/SG26	SO	SAIA-SB26-25	F2027-19	LB70645-S0	1/1	16-Apr-2014 1:00 PM	17-Apr-2014 12:00 PM	18-Apr-2014 12:20 PM	N
	PB76120	NA	SAIA-SB/SG26	SO	SAIA-SB26-5	F2027-16	LB70645-S0	1/1	16-Apr-2014 12:35 PM	17-Apr-2014 12:00 PM	18-Apr-2014 12:08 PM	N
	PB76120	NA	SAIA-SB/SG29	SO	SAIA-SB29-2	F2027-20	LB70645-S0	1/1	16-Apr-2014 2:05 PM	17-Apr-2014 12:00 PM	18-Apr-2014 12:24 PM	N

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70645-CC	PB76120	NA	SAIA-SB/SG29	SO	SAIA-SB29-5	F2027-21	LB70645-S0	1/1	16-Apr-2014 2:10 PM	17-Apr-2014 12:00 PM	18-Apr-2014 12:28 PM	N
	PB76120	NA	SAIA-SB/SG29	SO	SAIA-SB29-6	F2027-22	LB70645-S0	1/1	16-Apr-2014 2:15 PM	17-Apr-2014 12:00 PM	18-Apr-2014 12:32 PM	FD

Test Method: SW7471B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70627-CC	PB76122	NA	LABQC	SQ	LABQC	PB76122BL	LB70627-S0	1/1	17-Apr-2014 12:00 PM	17-Apr-2014 12:00 PM	18-Apr-2014 1:27 PM	LB
	PB76122	NA	SAIA-SB/SG19	SO	SAIA-SB19-15	F2027-02	LB70627-S0	1/1	16-Apr-2014 8:15 AM	17-Apr-2014 12:00 PM	18-Apr-2014 1:31 PM	N
	PB76122	NA	SAIA-SB/SG19	SO	SAIA-SB19-25	F2027-03	LB70627-S0	1/1	16-Apr-2014 8:25 AM	17-Apr-2014 12:00 PM	18-Apr-2014 1:33 PM	N
	PB76122	NA	SAIA-SB/SG19	SO	SAIA-SB19-35	F2027-05	LB70627-S0	1/1	16-Apr-2014 8:35 AM	17-Apr-2014 12:00 PM	18-Apr-2014 1:38 PM	LR
	PB76122	NA	SAIA-SB/SG19	SO	SAIA-SB19-35	F2027-06	LB70627-S0	1/1	16-Apr-2014 8:35 AM	17-Apr-2014 12:00 PM	18-Apr-2014 1:40 PM	MS
	PB76122	NA	SAIA-SB/SG19	SO	SAIA-SB19-35	F2027-04	LB70627-S0	1/1	16-Apr-2014 8:35 AM	17-Apr-2014 12:00 PM	18-Apr-2014 1:36 PM	N
	PB76122	NA	SAIA-SB/SG19	SO	SAIA-SB19-6	F2027-01	LB70627-S0	1/1	16-Apr-2014 8:00 AM	17-Apr-2014 12:00 PM	18-Apr-2014 1:29 PM	FD
	PB76122	NA	SAIA-SB/SG24	SO	SAIA-SB24-0.5	F2027-07	LB70627-S0	1/1	16-Apr-2014 10:00 AM	17-Apr-2014 12:00 PM	18-Apr-2014 1:42 PM	N
	PB76122	NA	SAIA-SB/SG24	SO	SAIA-SB24-15	F2027-10	LB70627-S0	1/1	16-Apr-2014 10:30 AM	17-Apr-2014 12:00 PM	18-Apr-2014 1:49 PM	N
	PB76122	NA	SAIA-SB/SG24	SO	SAIA-SB24-2	F2027-08	LB70627-S0	1/1	16-Apr-2014 10:05 AM	17-Apr-2014 12:00 PM	18-Apr-2014 1:44 PM	N
	PB76122	NA	SAIA-SB/SG24	SO	SAIA-SB24-25	F2027-11	LB70627-S0	1/1	16-Apr-2014 10:40 AM	17-Apr-2014 12:00 PM	18-Apr-2014 1:51 PM	N
	PB76122	NA	SAIA-SB/SG24	SO	SAIA-SB24-35	F2027-12	LB70627-S0	1/1	16-Apr-2014 10:50 AM	17-Apr-2014 12:00 PM	18-Apr-2014 1:53 PM	N
	PB76122	NA	SAIA-SB/SG24	SO	SAIA-SB24-5	F2027-09	LB70627-S0	1/1	16-Apr-2014 10:10 AM	17-Apr-2014 12:00 PM	18-Apr-2014 1:46 PM	N
	PB76122	NA	SAIA-SB/SG26	SO	SAIA-SB26-0.5	F2027-13	LB70627-S0	1/1	16-Apr-2014 12:20 PM	17-Apr-2014 12:00 PM	18-Apr-2014 1:55 PM	N
	PB76122	NA	SAIA-SB/SG26	SO	SAIA-SB26-0.6	F2027-14	LB70627-S0	1/1	16-Apr-2014 12:25 PM	17-Apr-2014 12:00 PM	18-Apr-2014 1:57 PM	FD
	PB76122	NA	SAIA-SB/SG26	SO	SAIA-SB26-15	F2027-17	LB70627-S0	1/1	16-Apr-2014 12:50 PM	17-Apr-2014 12:00 PM	18-Apr-2014 2:08 PM	N
	PB76122	NA	SAIA-SB/SG26	SO	SAIA-SB26-16	F2027-18	LB70627-S0	1/1	16-Apr-2014 12:55 PM	17-Apr-2014 12:00 PM	18-Apr-2014 2:10 PM	FD

AUTOMATED DATA REVIEW SUMMARY for MY9E95

Batch Report

Test Method: SW7471B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70627-CC	PB76122	NA	SAIA-SB/SG26	SO	SAIA-SB26-2	F2027-15	LB70627-S0	1/1	16-Apr-2014 12:30 PM	17-Apr-2014 12:00 PM	18-Apr-2014 1:59 PM	N
	PB76122	NA	SAIA-SB/SG26	SO	SAIA-SB26-25	F2027-19	LB70627-S0	1/1	16-Apr-2014 1:00 PM	17-Apr-2014 12:00 PM	18-Apr-2014 2:12 PM	N
	PB76122	NA	SAIA-SB/SG26	SO	SAIA-SB26-5	F2027-16	LB70627-S0	1/1	16-Apr-2014 12:35 PM	17-Apr-2014 12:00 PM	18-Apr-2014 2:01 PM	N
	PB76122	NA	SAIA-SB/SG29	SO	SAIA-SB29-2	F2027-20	LB70627-S0	1/1	16-Apr-2014 2:05 PM	17-Apr-2014 12:00 PM	18-Apr-2014 2:14 PM	N
	PB76122	NA	SAIA-SB/SG29	SO	SAIA-SB29-5	F2027-21	LB70627-S0	1/1	16-Apr-2014 2:10 PM	17-Apr-2014 12:00 PM	18-Apr-2014 2:17 PM	N
	PB76122	NA	SAIA-SB/SG29	SO	SAIA-SB29-6	F2027-22	LB70627-S0	1/1	16-Apr-2014 2:15 PM	17-Apr-2014 12:00 PM	18-Apr-2014 2:19 PM	FD

AUTOMATED DATA REVIEW SUMMARY for MY9E95

Field Batch Report

--No Records Found--

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
E200.7 / METHOD	Blank - Negative	PB76120BL (LB)	1 / 1.00	Selenium	-0.180	mg/kg	J/UJ	< 0.16	< 3.5	L1			
E200.7 / METHOD	MS Recovery	SAIA-SB19-35 (MS)	1 / 1.00	Antimony	68.0	Percent	J/UJ	75 - 125	50 - 140	M			
E200.7 / METHOD	MS Recovery	SAIA-SB19-35 (MS)	1 / 1.00	Lead	126	Percent	J/None	75 - 125	50 - 140	M			
E200.7 / METHOD	MS Recovery	SAIA-SB19-35 (MS)	1 / 1.00	Thallium	31.7	Percent	J/R	75 - 125	50 - 140	M			
SW7471B / METHOD	Blank - Negative	PB76122BL (LB)	1 / 1.00	Mercury	-0.00720	mg/kg	J/UJ	< 0.002	< 0.1	L1			

AUTOMATED DATA REVIEW SUMMARY for MY9E95

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB19-15	N	Antimony	5.3	5.3 JN	5.3 UJ	mg/kg	M/B2
E200.7/NONE	SO	SAIA-SB19-15	N	Lead	0.88	21.2 N	21.2 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB19-15	N	Selenium	3.1	2.8 J	2.8 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB19-15	N	Sodium	440	431 J	431 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB19-15	N	Thallium	2.2	2.2 UN	2.2 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB19-25	N	Antimony	4.9	4.9 JN	4.9 UJ	mg/kg	M/B2
E200.7/NONE	SO	SAIA-SB19-25	N	Lead	0.82	5.3 N	5.3 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB19-25	N	Selenium	2.9	2.8 J	2.8 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB19-25	N	Thallium	2.0	2.0 UN	2.0 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB19-35	N	Antimony	4.6	4.6 JN	4.6 UJ	mg/kg	M/B2
E200.7/NONE	SO	SAIA-SB19-35	N	Lead	0.77	3.3 N	3.3 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB19-35	N	Selenium	2.7	2.0 J	2.0 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB19-35	N	Sodium	386	272 J	272 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB19-35	N	Thallium	1.9	1.9 UN	1.9 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB19-6	FD	Antimony	4.6	4.6 JN	4.6 UJ	mg/kg	M/B2
E200.7/NONE	SO	SAIA-SB19-6	FD	Lead	0.76	23.6 N	23.6 J	mg/kg	D5/M
E200.7/NONE	SO	SAIA-SB19-6	FD	Selenium	2.7	1.9 J	1.9 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB19-6	FD	Sodium	380	307 J	307 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB19-6	FD	Thallium	1.9	1.9 UN	1.9 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB24-0.5	N	Antimony	4.7	27.8 N	27.8 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB24-0.5	N	Lead	0.78	792 N	792 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB24-0.5	N	Sodium	390	371 J	371 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB24-0.5	N	Thallium	2.0	2.0 UN	2.0 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB24-15	N	Antimony	5.5	5.5 JN	5.5 UJ	mg/kg	M/B2
E200.7/NONE	SO	SAIA-SB24-15	N	Lead	0.91	5.8 N	5.8 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB24-15	N	Selenium	3.2	3.1 J	3.1 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB24-15	N	Thallium	2.3	2.3 UN	2.3 UJ	mg/kg	M

AUTOMATED DATA REVIEW SUMMARY for MY9E95

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB24-2	N	Antimony	4.8	10.0 N	10.0 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB24-2	N	Lead	0.81	227 N	227 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB24-2	N	Selenium	2.8	2.4 J	2.4 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB24-2	N	Sodium	403	371 J	371 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB24-2	N	Thallium	2.0	2.0 UN	2.0 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB24-25	N	Antimony	5.3	5.3 JN	5.3 UJ	mg/kg	M/B2
E200.7/NONE	SO	SAIA-SB24-25	N	Lead	0.88	48.6 N	48.6 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB24-25	N	Selenium	3.1	2.6 J	2.6 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB24-25	N	Thallium	2.2	2.2 UN	2.2 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB24-35	N	Antimony	5.4	5.4 JN	5.4 UJ	mg/kg	M/B2
E200.7/NONE	SO	SAIA-SB24-35	N	Beryllium	0.45	0.45 J	0.45 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB24-35	N	Lead	0.89	3.4 N	3.4 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB24-35	N	Selenium	3.1	2.4 J	2.4 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB24-35	N	Thallium	2.2	2.2 UN	2.2 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB24-5	N	Antimony	5.3	5.3 JN	5.3 UJ	mg/kg	M/B2
E200.7/NONE	SO	SAIA-SB24-5	N	Lead	0.89	25.9 N	25.9 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB24-5	N	Selenium	3.1	2.7 J	2.7 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB24-5	N	Sodium	446	424 J	424 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB24-5	N	Thallium	2.2	2.2 UN	2.2 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-0.5	N	Antimony	4.9	20.1 N	20.1 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-0.5	N	Calcium	407	4150	4150 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB26-0.5	N	Lead	0.81	1360 N	1360 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-0.5	N	Sodium	407	334 J	334 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB26-0.5	N	Thallium	2.0	2.0 UN	2.0 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-0.6	FD	Antimony	4.7	29.3 N	29.3 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-0.6	FD	Calcium	391	6970	6970 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB26-0.6	FD	Lead	0.78	1850 N	1850 J	mg/kg	M

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB26-0.6	FD	Sodium	391	331 J	331 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB26-0.6	FD	Thallium	2.0	2.0 UN	2.0 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-15	N	Antimony	5.0	5.0 JN	5.0 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-15	N	Lead	0.84	6.8 N	6.8 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-15	N	Silver	0.84	0.84 J	0.84 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB26-15	N	Thallium	2.1	2.1 UN	2.1 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-16	FD	Antimony	5.2	5.2 JN	5.2 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-16	FD	Lead	0.86	6.2 N	6.2 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-16	FD	Silver	0.86	0.86 J	0.86 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB26-16	FD	Thallium	2.2	2.2 UN	2.2 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-2	N	Antimony	4.7	64.1 N	64.1 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-2	N	Lead	0.78	2620 N	2620 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-2	N	Sodium	389	389 J	389 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB26-2	N	Thallium	1.9	1.9 UN	1.9 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-25	N	Antimony	5.1	5.1 JN	5.1 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-25	N	Lead	0.86	6.4 N	6.4 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-25	N	Silver	0.86	0.86 J	0.86 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB26-25	N	Thallium	2.1	2.1 UN	2.1 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-5	N	Antimony	4.6	10.0 N	10.0 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-5	N	Lead	0.77	41.6 N	41.6 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-5	N	Selenium	2.7	2.6 J	2.6 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB26-5	N	Silver	0.77	0.77 J	0.77 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB26-5	N	Sodium	386	386 J	386 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB26-5	N	Thallium	1.9	1.9 UN	1.9 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB29-2	N	Antimony	4.7	4.7 JN	4.7 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB29-2	N	Lead	0.78	13.8 N	13.8 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB29-2	N	Silver	0.78	0.78 J	0.78 U	mg/kg	B2

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB29-2	N	Sodium	388	388 J	388 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB29-2	N	Thallium	1.9	1.9 UN	1.9 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB29-5	N	Antimony	5.2	5.2 JN	5.2 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB29-5	N	Chromium	0.87	46.8	46.8 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB29-5	N	Cobalt	4.4	25.0	25.0 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB29-5	N	Lead	0.87	18.3 N	18.3 J	mg/kg	D5/M
E200.7/NONE	SO	SAIA-SB29-5	N	Sodium	435	435 J	435 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB29-5	N	Thallium	2.2	2.2 UN	2.2 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB29-6	FD	Antimony	5.4	5.4 JN	5.4 UJ	mg/kg	M
E200.7/NONE	SO	SAIA-SB29-6	FD	Chromium	0.89	21.3	21.3 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB29-6	FD	Cobalt	4.5	10.1	10.1 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB29-6	FD	Lead	0.89	5.5 N	5.5 J	mg/kg	D5/M
E200.7/NONE	SO	SAIA-SB29-6	FD	Selenium	3.1	2.5 J	2.5 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB29-6	FD	Silver	0.89	0.89 J	0.89 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB29-6	FD	Sodium	446	446 J	446 U	mg/kg	B2
E200.7/NONE	SO	SAIA-SB29-6	FD	Thallium	2.2	2.2 UN	2.2 UJ	mg/kg	M

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	SAIA-SB19-15	N	Mercury	0.11	0.057 J	0.057 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB19-25	N	Mercury	0.11	0.037 J	0.037 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB19-35	N	Mercury	0.11	0.021 J	0.021 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB19-6	FD	Mercury	0.092	0.020 J	0.020 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB24-0.5	N	Mercury	0.099	0.035 J	0.035 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB24-15	N	Mercury	0.12	0.062 J	0.062 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB24-2	N	Mercury	0.10	0.015 J	0.015 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB24-25	N	Mercury	0.11	0.072 J	0.072 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB24-5	N	Mercury	0.11	0.093 J	0.093 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB26-16	FD	Mercury	0.11	0.048 J	0.048 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9E95

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	SAIA-SB26-25	N	Mercury	0.11	0.051 J	0.051 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB26-5	N	Mercury	0.10	0.024 J	0.024 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB29-2	N	Mercury	0.097	0.023 J	0.023 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB29-5	N	Mercury	0.10	0.032 J	0.032 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB29-6	FD	Mercury	0.11	0.082 J	0.082 J	mg/kg	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB19-15	N	Aluminum	17.6	17200	17200	mg/kg	
E200.7/NONE	SO	SAIA-SB19-15	N	Arsenic	0.88	4.7	4.7	mg/kg	
E200.7/NONE	SO	SAIA-SB19-15	N	Barium	17.6	156	156	mg/kg	
E200.7/NONE	SO	SAIA-SB19-15	N	Beryllium	0.44	0.71	0.71	mg/kg	
E200.7/NONE	SO	SAIA-SB19-15	N	Calcium	440	10200	10200	mg/kg	
E200.7/NONE	SO	SAIA-SB19-15	N	Cobalt	4.4	13.2	13.2	mg/kg	
E200.7/NONE	SO	SAIA-SB19-15	N	Chromium	0.88	24.9	24.9	mg/kg	
E200.7/NONE	SO	SAIA-SB19-15	N	Copper	2.2	99.6	99.6	mg/kg	
E200.7/NONE	SO	SAIA-SB19-15	N	Iron	8.8	26700	26700	mg/kg	
E200.7/NONE	SO	SAIA-SB19-15	N	Potassium	440	4180	4180	mg/kg	
E200.7/NONE	SO	SAIA-SB19-15	N	Magnesium	440	8600	8600	mg/kg	
E200.7/NONE	SO	SAIA-SB19-15	N	Manganese	1.3	425	425	mg/kg	
E200.7/NONE	SO	SAIA-SB19-15	N	Sodium	440	431 J	431 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB19-15	N	Nickel	3.5	20.0	20.0	mg/kg	
E200.7/NONE	SO	SAIA-SB19-15	N	Lead	0.88	21.2 N	21.2 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB19-15	N	Selenium	3.1	2.8 J	2.8 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB19-15	N	Vanadium	4.4	52.6	52.6	mg/kg	
E200.7/NONE	SO	SAIA-SB19-15	N	Zinc	5.3	94.6	94.6	mg/kg	
E200.7/NONE	SO	SAIA-SB19-25	N	Aluminum	16.4	18500	18500	mg/kg	
E200.7/NONE	SO	SAIA-SB19-25	N	Arsenic	0.82	4.5	4.5	mg/kg	
E200.7/NONE	SO	SAIA-SB19-25	N	Barium	16.4	164	164	mg/kg	
E200.7/NONE	SO	SAIA-SB19-25	N	Beryllium	0.41	0.78	0.78	mg/kg	
E200.7/NONE	SO	SAIA-SB19-25	N	Calcium	409	10100	10100	mg/kg	
E200.7/NONE	SO	SAIA-SB19-25	N	Cobalt	4.1	14.0	14.0	mg/kg	
E200.7/NONE	SO	SAIA-SB19-25	N	Chromium	0.82	23.3	23.3	mg/kg	
E200.7/NONE	SO	SAIA-SB19-25	N	Copper	2.0	23.8	23.8	mg/kg	
E200.7/NONE	SO	SAIA-SB19-25	N	Iron	8.2	27100	27100	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB19-25	N	Potassium	409	4690	4690	mg/kg	
E200.7/NONE	SO	SAIA-SB19-25	N	Magnesium	409	9170	9170	mg/kg	
E200.7/NONE	SO	SAIA-SB19-25	N	Manganese	1.2	410	410	mg/kg	
E200.7/NONE	SO	SAIA-SB19-25	N	Sodium	409	477	477	mg/kg	
E200.7/NONE	SO	SAIA-SB19-25	N	Nickel	3.3	17.4	17.4	mg/kg	
E200.7/NONE	SO	SAIA-SB19-25	N	Lead	0.82	5.3 N	5.3 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB19-25	N	Selenium	2.9	2.8 J	2.8 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB19-25	N	Vanadium	4.1	56.0	56.0	mg/kg	
E200.7/NONE	SO	SAIA-SB19-25	N	Zinc	4.9	66.9	66.9	mg/kg	
E200.7/NONE	SO	SAIA-SB19-35	N	Aluminum	15.4	11200	11200	mg/kg	
E200.7/NONE	SO	SAIA-SB19-35	N	Arsenic	0.77	3.0	3.0	mg/kg	
E200.7/NONE	SO	SAIA-SB19-35	N	Barium	15.4	94.5	94.5	mg/kg	
E200.7/NONE	SO	SAIA-SB19-35	N	Beryllium	0.39	0.47	0.47	mg/kg	
E200.7/NONE	SO	SAIA-SB19-35	N	Calcium	386	5900	5900	mg/kg	
E200.7/NONE	SO	SAIA-SB19-35	N	Cobalt	3.9	8.8	8.8	mg/kg	
E200.7/NONE	SO	SAIA-SB19-35	N	Chromium	0.77	15.5	15.5	mg/kg	
E200.7/NONE	SO	SAIA-SB19-35	N	Copper	1.9	14.4	14.4	mg/kg	
E200.7/NONE	SO	SAIA-SB19-35	N	Iron	7.7	19600	19600	mg/kg	
E200.7/NONE	SO	SAIA-SB19-35	N	Potassium	386	3330	3330	mg/kg	
E200.7/NONE	SO	SAIA-SB19-35	N	Magnesium	386	5470	5470	mg/kg	
E200.7/NONE	SO	SAIA-SB19-35	N	Manganese	1.2	273	273	mg/kg	
E200.7/NONE	SO	SAIA-SB19-35	N	Sodium	386	272 J	272 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB19-35	N	Nickel	3.1	10.5	10.5	mg/kg	
E200.7/NONE	SO	SAIA-SB19-35	N	Lead	0.77	3.3 N	3.3 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB19-35	N	Selenium	2.7	2.0 J	2.0 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB19-35	N	Vanadium	3.9	38.5	38.5	mg/kg	
E200.7/NONE	SO	SAIA-SB19-35	N	Zinc	4.6	43.1	43.1	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9E95

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB19-6	FD	Aluminum	15.2	10100	10100	mg/kg	
E200.7/NONE	SO	SAIA-SB19-6	FD	Arsenic	0.76	2.4	2.4	mg/kg	
E200.7/NONE	SO	SAIA-SB19-6	FD	Barium	15.2	96.7	96.7	mg/kg	
E200.7/NONE	SO	SAIA-SB19-6	FD	Beryllium	0.38	0.41	0.41	mg/kg	
E200.7/NONE	SO	SAIA-SB19-6	FD	Calcium	380	4890	4890	mg/kg	
E200.7/NONE	SO	SAIA-SB19-6	FD	Cobalt	3.8	7.8	7.8	mg/kg	
E200.7/NONE	SO	SAIA-SB19-6	FD	Chromium	0.76	12.5	12.5	mg/kg	
E200.7/NONE	SO	SAIA-SB19-6	FD	Copper	1.9	140	140	mg/kg	
E200.7/NONE	SO	SAIA-SB19-6	FD	Iron	7.6	17200	17200	mg/kg	
E200.7/NONE	SO	SAIA-SB19-6	FD	Potassium	380	3470	3470	mg/kg	
E200.7/NONE	SO	SAIA-SB19-6	FD	Magnesium	380	5200	5200	mg/kg	
E200.7/NONE	SO	SAIA-SB19-6	FD	Manganese	1.1	239	239	mg/kg	
E200.7/NONE	SO	SAIA-SB19-6	FD	Sodium	380	307 J	307 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB19-6	FD	Nickel	3.0	9.4	9.4	mg/kg	
E200.7/NONE	SO	SAIA-SB19-6	FD	Lead	0.76	23.6 N	23.6 J	mg/kg	D5/M
E200.7/NONE	SO	SAIA-SB19-6	FD	Selenium	2.7	1.9 J	1.9 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB19-6	FD	Vanadium	3.8	31.6	31.6	mg/kg	
E200.7/NONE	SO	SAIA-SB19-6	FD	Zinc	4.6	80.9	80.9	mg/kg	
E200.7/NONE	SO	SAIA-SB24-0.5	N	Aluminum	15.6	12200	12200	mg/kg	
E200.7/NONE	SO	SAIA-SB24-0.5	N	Arsenic	0.78	5.2	5.2	mg/kg	
E200.7/NONE	SO	SAIA-SB24-0.5	N	Barium	15.6	337	337	mg/kg	
E200.7/NONE	SO	SAIA-SB24-0.5	N	Beryllium	0.39	0.49	0.49	mg/kg	
E200.7/NONE	SO	SAIA-SB24-0.5	N	Calcium	390	7890	7890	mg/kg	
E200.7/NONE	SO	SAIA-SB24-0.5	N	Cadmium	0.39	1.3	1.3	mg/kg	
E200.7/NONE	SO	SAIA-SB24-0.5	N	Cobalt	3.9	12.4	12.4	mg/kg	
E200.7/NONE	SO	SAIA-SB24-0.5	N	Chromium	0.78	26.9	26.9	mg/kg	
E200.7/NONE	SO	SAIA-SB24-0.5	N	Copper	2.0	692	692	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB24-0.5	N	Iron	7.8	25300	25300	mg/kg	
E200.7/NONE	SO	SAIA-SB24-0.5	N	Potassium	390	3840	3840	mg/kg	
E200.7/NONE	SO	SAIA-SB24-0.5	N	Magnesium	390	6020	6020	mg/kg	
E200.7/NONE	SO	SAIA-SB24-0.5	N	Manganese	1.2	362	362	mg/kg	
E200.7/NONE	SO	SAIA-SB24-0.5	N	Sodium	390	371 J	371 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB24-0.5	N	Nickel	3.1	19.4	19.4	mg/kg	
E200.7/NONE	SO	SAIA-SB24-0.5	N	Lead	0.78	792 N	792 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB24-0.5	N	Antimony	4.7	27.8 N	27.8 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB24-0.5	N	Selenium	2.7	2.7 J	2.7	mg/kg	
E200.7/NONE	SO	SAIA-SB24-0.5	N	Vanadium	3.9	42.3	42.3	mg/kg	
E200.7/NONE	SO	SAIA-SB24-0.5	N	Zinc	4.7	440	440	mg/kg	
E200.7/NONE	SO	SAIA-SB24-15	N	Aluminum	18.2	20700	20700	mg/kg	
E200.7/NONE	SO	SAIA-SB24-15	N	Arsenic	0.91	5.0	5.0	mg/kg	
E200.7/NONE	SO	SAIA-SB24-15	N	Barium	18.2	184	184	mg/kg	
E200.7/NONE	SO	SAIA-SB24-15	N	Beryllium	0.45	0.87	0.87	mg/kg	
E200.7/NONE	SO	SAIA-SB24-15	N	Calcium	454	11900	11900	mg/kg	
E200.7/NONE	SO	SAIA-SB24-15	N	Cobalt	4.5	14.7	14.7	mg/kg	
E200.7/NONE	SO	SAIA-SB24-15	N	Chromium	0.91	25.3	25.3	mg/kg	
E200.7/NONE	SO	SAIA-SB24-15	N	Copper	2.3	26.0	26.0	mg/kg	
E200.7/NONE	SO	SAIA-SB24-15	N	Iron	9.1	29500	29500	mg/kg	
E200.7/NONE	SO	SAIA-SB24-15	N	Potassium	454	4900	4900	mg/kg	
E200.7/NONE	SO	SAIA-SB24-15	N	Magnesium	454	10000	10000	mg/kg	
E200.7/NONE	SO	SAIA-SB24-15	N	Manganese	1.4	451	451	mg/kg	
E200.7/NONE	SO	SAIA-SB24-15	N	Sodium	454	472	472	mg/kg	
E200.7/NONE	SO	SAIA-SB24-15	N	Nickel	3.6	18.5	18.5	mg/kg	
E200.7/NONE	SO	SAIA-SB24-15	N	Lead	0.91	5.8 N	5.8 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB24-15	N	Selenium	3.2	3.1 J	3.1 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9E95

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB24-15	N	Vanadium	4.5	59.9	59.9	mg/kg	
E200.7/NONE	SO	SAIA-SB24-15	N	Zinc	5.5	72.9	72.9	mg/kg	
E200.7/NONE	SO	SAIA-SB24-2	N	Aluminum	16.1	12500	12500	mg/kg	
E200.7/NONE	SO	SAIA-SB24-2	N	Arsenic	0.81	3.7	3.7	mg/kg	
E200.7/NONE	SO	SAIA-SB24-2	N	Barium	16.1	125	125	mg/kg	
E200.7/NONE	SO	SAIA-SB24-2	N	Beryllium	0.40	0.49	0.49	mg/kg	
E200.7/NONE	SO	SAIA-SB24-2	N	Calcium	403	9390	9390	mg/kg	
E200.7/NONE	SO	SAIA-SB24-2	N	Cobalt	4.0	9.6	9.6	mg/kg	
E200.7/NONE	SO	SAIA-SB24-2	N	Chromium	0.81	17.4	17.4	mg/kg	
E200.7/NONE	SO	SAIA-SB24-2	N	Copper	2.0	26.3	26.3	mg/kg	
E200.7/NONE	SO	SAIA-SB24-2	N	Iron	8.1	22200	22200	mg/kg	
E200.7/NONE	SO	SAIA-SB24-2	N	Potassium	403	4040	4040	mg/kg	
E200.7/NONE	SO	SAIA-SB24-2	N	Magnesium	403	6460	6460	mg/kg	
E200.7/NONE	SO	SAIA-SB24-2	N	Manganese	1.2	334	334	mg/kg	
E200.7/NONE	SO	SAIA-SB24-2	N	Sodium	403	371 J	371 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB24-2	N	Nickel	3.2	12.1	12.1	mg/kg	
E200.7/NONE	SO	SAIA-SB24-2	N	Lead	0.81	227 N	227 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB24-2	N	Antimony	4.8	10.0 N	10.0 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB24-2	N	Selenium	2.8	2.4 J	2.4 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB24-2	N	Vanadium	4.0	43.0	43.0	mg/kg	
E200.7/NONE	SO	SAIA-SB24-2	N	Zinc	4.8	63.9	63.9	mg/kg	
E200.7/NONE	SO	SAIA-SB24-25	N	Aluminum	17.5	17500	17500	mg/kg	
E200.7/NONE	SO	SAIA-SB24-25	N	Arsenic	0.88	7.0	7.0	mg/kg	
E200.7/NONE	SO	SAIA-SB24-25	N	Barium	17.5	168	168	mg/kg	
E200.7/NONE	SO	SAIA-SB24-25	N	Beryllium	0.44	0.66	0.66	mg/kg	
E200.7/NONE	SO	SAIA-SB24-25	N	Calcium	438	12100	12100	mg/kg	
E200.7/NONE	SO	SAIA-SB24-25	N	Cobalt	4.4	13.2	13.2	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9E95

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB24-25	N	Chromium	0.88	25.6	25.6	mg/kg	
E200.7/NONE	SO	SAIA-SB24-25	N	Copper	2.2	34.1	34.1	mg/kg	
E200.7/NONE	SO	SAIA-SB24-25	N	Iron	8.8	27500	27500	mg/kg	
E200.7/NONE	SO	SAIA-SB24-25	N	Potassium	438	4200	4200	mg/kg	
E200.7/NONE	SO	SAIA-SB24-25	N	Magnesium	438	8680	8680	mg/kg	
E200.7/NONE	SO	SAIA-SB24-25	N	Manganese	1.3	475	475	mg/kg	
E200.7/NONE	SO	SAIA-SB24-25	N	Sodium	438	442	442	mg/kg	
E200.7/NONE	SO	SAIA-SB24-25	N	Nickel	3.5	18.4	18.4	mg/kg	
E200.7/NONE	SO	SAIA-SB24-25	N	Lead	0.88	48.6 N	48.6 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB24-25	N	Selenium	3.1	2.6 J	2.6 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB24-25	N	Vanadium	4.4	54.0	54.0	mg/kg	
E200.7/NONE	SO	SAIA-SB24-25	N	Zinc	5.3	68.9	68.9	mg/kg	
E200.7/NONE	SO	SAIA-SB24-35	N	Aluminum	17.8	12300	12300	mg/kg	
E200.7/NONE	SO	SAIA-SB24-35	N	Arsenic	0.89	21.4	21.4	mg/kg	
E200.7/NONE	SO	SAIA-SB24-35	N	Barium	17.8	105	105	mg/kg	
E200.7/NONE	SO	SAIA-SB24-35	N	Calcium	446	18300	18300	mg/kg	
E200.7/NONE	SO	SAIA-SB24-35	N	Cobalt	4.5	9.8	9.8	mg/kg	
E200.7/NONE	SO	SAIA-SB24-35	N	Chromium	0.89	18.1	18.1	mg/kg	
E200.7/NONE	SO	SAIA-SB24-35	N	Copper	2.2	14.9	14.9	mg/kg	
E200.7/NONE	SO	SAIA-SB24-35	N	Iron	8.9	22400	22400	mg/kg	
E200.7/NONE	SO	SAIA-SB24-35	N	Potassium	446	3670	3670	mg/kg	
E200.7/NONE	SO	SAIA-SB24-35	N	Magnesium	446	6810	6810	mg/kg	
E200.7/NONE	SO	SAIA-SB24-35	N	Manganese	1.3	385	385	mg/kg	
E200.7/NONE	SO	SAIA-SB24-35	N	Sodium	446	478	478	mg/kg	
E200.7/NONE	SO	SAIA-SB24-35	N	Nickel	3.6	12.0	12.0	mg/kg	
E200.7/NONE	SO	SAIA-SB24-35	N	Lead	0.89	3.4 N	3.4 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB24-35	N	Selenium	3.1	2.4 J	2.4 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9E95

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB24-35	N	Vanadium	4.5	46.8	46.8	mg/kg	
E200.7/NONE	SO	SAIA-SB24-35	N	Zinc	5.4	47.8	47.8	mg/kg	
E200.7/NONE	SO	SAIA-SB24-5	N	Aluminum	17.8	21500	21500	mg/kg	
E200.7/NONE	SO	SAIA-SB24-5	N	Arsenic	0.89	4.7	4.7	mg/kg	
E200.7/NONE	SO	SAIA-SB24-5	N	Barium	17.8	176	176	mg/kg	
E200.7/NONE	SO	SAIA-SB24-5	N	Beryllium	0.45	0.84	0.84	mg/kg	
E200.7/NONE	SO	SAIA-SB24-5	N	Calcium	446	10400	10400	mg/kg	
E200.7/NONE	SO	SAIA-SB24-5	N	Cobalt	4.5	14.5	14.5	mg/kg	
E200.7/NONE	SO	SAIA-SB24-5	N	Chromium	0.89	26.8	26.8	mg/kg	
E200.7/NONE	SO	SAIA-SB24-5	N	Copper	2.2	32.0	32.0	mg/kg	
E200.7/NONE	SO	SAIA-SB24-5	N	Iron	8.9	29400	29400	mg/kg	
E200.7/NONE	SO	SAIA-SB24-5	N	Potassium	446	5300	5300	mg/kg	
E200.7/NONE	SO	SAIA-SB24-5	N	Magnesium	446	8830	8830	mg/kg	
E200.7/NONE	SO	SAIA-SB24-5	N	Manganese	1.3	452	452	mg/kg	
E200.7/NONE	SO	SAIA-SB24-5	N	Sodium	446	424 J	424 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB24-5	N	Nickel	3.6	20.3	20.3	mg/kg	
E200.7/NONE	SO	SAIA-SB24-5	N	Lead	0.89	25.9 N	25.9 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB24-5	N	Selenium	3.1	2.7 J	2.7 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB24-5	N	Vanadium	4.5	58.0	58.0	mg/kg	
E200.7/NONE	SO	SAIA-SB24-5	N	Zinc	5.3	76.5	76.5	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.5	N	Silver	0.81	1.9	1.9	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.5	N	Aluminum	16.3	9650	9650	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.5	N	Arsenic	0.81	6.2	6.2	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.5	N	Barium	16.3	189	189	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.5	N	Beryllium	0.41	0.47	0.47	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.5	N	Calcium	407	4150	4150 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB26-0.5	N	Cadmium	0.41	26.7	26.7	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB26-0.5	N	Cobalt	4.1	21.6	21.6	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.5	N	Chromium	0.81	240	240	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.5	N	Copper	2.0	187	187	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.5	N	Iron	8.1	22100	22100	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.5	N	Potassium	407	2080	2080	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.5	N	Magnesium	407	4310	4310	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.5	N	Manganese	1.2	404	404	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.5	N	Sodium	407	334 J	334 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB26-0.5	N	Nickel	3.3	152	152	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.5	N	Lead	0.81	1360 N	1360 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-0.5	N	Antimony	4.9	20.1 N	20.1 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-0.5	N	Selenium	2.8	2.9	2.9	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.5	N	Vanadium	4.1	39.1	39.1	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.5	N	Zinc	4.9	1350	1350	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.6	FD	Silver	0.78	2.4	2.4	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.6	FD	Aluminum	15.6	10200	10200	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.6	FD	Arsenic	0.78	6.7	6.7	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.6	FD	Barium	15.6	211	211	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.6	FD	Beryllium	0.39	0.44	0.44	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.6	FD	Calcium	391	6970	6970 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB26-0.6	FD	Cadmium	0.39	31.0	31.0	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.6	FD	Cobalt	3.9	21.3	21.3	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.6	FD	Chromium	0.78	234	234	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.6	FD	Copper	2.0	199	199	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.6	FD	Iron	7.8	22000	22000	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.6	FD	Potassium	391	2450	2450	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.6	FD	Magnesium	391	4490	4490	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9E95

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB26-0.6	FD	Manganese	1.2	418	418	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.6	FD	Sodium	391	331 J	331 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB26-0.6	FD	Nickel	3.1	136	136	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.6	FD	Lead	0.78	1850 N	1850 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-0.6	FD	Antimony	4.7	29.3 N	29.3 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-0.6	FD	Selenium	2.7	2.7 J	2.7	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.6	FD	Vanadium	3.9	41.6	41.6	mg/kg	
E200.7/NONE	SO	SAIA-SB26-0.6	FD	Zinc	4.7	1550	1550	mg/kg	
E200.7/NONE	SO	SAIA-SB26-15	N	Aluminum	16.8	21700	21700	mg/kg	
E200.7/NONE	SO	SAIA-SB26-15	N	Arsenic	0.84	4.2	4.2	mg/kg	
E200.7/NONE	SO	SAIA-SB26-15	N	Barium	16.8	170	170	mg/kg	
E200.7/NONE	SO	SAIA-SB26-15	N	Beryllium	0.42	0.73	0.73	mg/kg	
E200.7/NONE	SO	SAIA-SB26-15	N	Calcium	420	14300	14300	mg/kg	
E200.7/NONE	SO	SAIA-SB26-15	N	Cadmium	0.42	0.89	0.89	mg/kg	
E200.7/NONE	SO	SAIA-SB26-15	N	Cobalt	4.2	13.2	13.2	mg/kg	
E200.7/NONE	SO	SAIA-SB26-15	N	Chromium	0.84	24.2	24.2	mg/kg	
E200.7/NONE	SO	SAIA-SB26-15	N	Copper	2.1	26.3	26.3	mg/kg	
E200.7/NONE	SO	SAIA-SB26-15	N	Iron	8.4	31400	31400	mg/kg	
E200.7/NONE	SO	SAIA-SB26-15	N	Potassium	420	4660	4660	mg/kg	
E200.7/NONE	SO	SAIA-SB26-15	N	Magnesium	420	9300	9300	mg/kg	
E200.7/NONE	SO	SAIA-SB26-15	N	Manganese	1.3	452	452	mg/kg	
E200.7/NONE	SO	SAIA-SB26-15	N	Sodium	420	561	561	mg/kg	
E200.7/NONE	SO	SAIA-SB26-15	N	Nickel	3.4	19.5	19.5	mg/kg	
E200.7/NONE	SO	SAIA-SB26-15	N	Lead	0.84	6.8 N	6.8 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-15	N	Selenium	2.9	3.2	3.2	mg/kg	
E200.7/NONE	SO	SAIA-SB26-15	N	Vanadium	4.2	63.3	63.3	mg/kg	
E200.7/NONE	SO	SAIA-SB26-15	N	Zinc	5.0	70.1	70.1	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9E95

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB26-16	FD	Aluminum	17.3	20600	20600	mg/kg	
E200.7/NONE	SO	SAIA-SB26-16	FD	Arsenic	0.86	3.9	3.9	mg/kg	
E200.7/NONE	SO	SAIA-SB26-16	FD	Barium	17.3	167	167	mg/kg	
E200.7/NONE	SO	SAIA-SB26-16	FD	Beryllium	0.43	0.71	0.71	mg/kg	
E200.7/NONE	SO	SAIA-SB26-16	FD	Calcium	432	13700	13700	mg/kg	
E200.7/NONE	SO	SAIA-SB26-16	FD	Cadmium	0.43	0.91	0.91	mg/kg	
E200.7/NONE	SO	SAIA-SB26-16	FD	Cobalt	4.3	13.3	13.3	mg/kg	
E200.7/NONE	SO	SAIA-SB26-16	FD	Chromium	0.86	24.0	24.0	mg/kg	
E200.7/NONE	SO	SAIA-SB26-16	FD	Copper	2.2	25.3	25.3	mg/kg	
E200.7/NONE	SO	SAIA-SB26-16	FD	Iron	8.6	31500	31500	mg/kg	
E200.7/NONE	SO	SAIA-SB26-16	FD	Potassium	432	4520	4520	mg/kg	
E200.7/NONE	SO	SAIA-SB26-16	FD	Magnesium	432	9000	9000	mg/kg	
E200.7/NONE	SO	SAIA-SB26-16	FD	Manganese	1.3	448	448	mg/kg	
E200.7/NONE	SO	SAIA-SB26-16	FD	Sodium	432	524	524	mg/kg	
E200.7/NONE	SO	SAIA-SB26-16	FD	Nickel	3.5	19.1	19.1	mg/kg	
E200.7/NONE	SO	SAIA-SB26-16	FD	Lead	0.86	6.2 N	6.2 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-16	FD	Selenium	3.0	3.0	3.0	mg/kg	
E200.7/NONE	SO	SAIA-SB26-16	FD	Vanadium	4.3	63.3	63.3	mg/kg	
E200.7/NONE	SO	SAIA-SB26-16	FD	Zinc	5.2	66.6	66.6	mg/kg	
E200.7/NONE	SO	SAIA-SB26-2	N	Silver	0.78	2.4	2.4	mg/kg	
E200.7/NONE	SO	SAIA-SB26-2	N	Aluminum	15.6	11900	11900	mg/kg	
E200.7/NONE	SO	SAIA-SB26-2	N	Arsenic	0.78	6.5	6.5	mg/kg	
E200.7/NONE	SO	SAIA-SB26-2	N	Barium	15.6	169	169	mg/kg	
E200.7/NONE	SO	SAIA-SB26-2	N	Beryllium	0.39	0.44	0.44	mg/kg	
E200.7/NONE	SO	SAIA-SB26-2	N	Calcium	389	5590	5590	mg/kg	
E200.7/NONE	SO	SAIA-SB26-2	N	Cadmium	0.39	40.5	40.5	mg/kg	
E200.7/NONE	SO	SAIA-SB26-2	N	Cobalt	3.9	17.2	17.2	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9E95

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB26-2	N	Chromium	0.78	200	200	mg/kg	
E200.7/NONE	SO	SAIA-SB26-2	N	Copper	1.9	359	359	mg/kg	
E200.7/NONE	SO	SAIA-SB26-2	N	Iron	7.8	26800	26800	mg/kg	
E200.7/NONE	SO	SAIA-SB26-2	N	Potassium	389	3320	3320	mg/kg	
E200.7/NONE	SO	SAIA-SB26-2	N	Magnesium	389	5560	5560	mg/kg	
E200.7/NONE	SO	SAIA-SB26-2	N	Manganese	1.2	364	364	mg/kg	
E200.7/NONE	SO	SAIA-SB26-2	N	Nickel	3.1	77.6	77.6	mg/kg	
E200.7/NONE	SO	SAIA-SB26-2	N	Lead	0.78	2620 N	2620 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-2	N	Antimony	4.7	64.1 N	64.1 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-2	N	Selenium	2.7	3.7	3.7	mg/kg	
E200.7/NONE	SO	SAIA-SB26-2	N	Vanadium	3.9	48.4	48.4	mg/kg	
E200.7/NONE	SO	SAIA-SB26-2	N	Zinc	4.7	1240	1240	mg/kg	
E200.7/NONE	SO	SAIA-SB26-25	N	Aluminum	17.1	22300	22300	mg/kg	
E200.7/NONE	SO	SAIA-SB26-25	N	Arsenic	0.86	4.0	4.0	mg/kg	
E200.7/NONE	SO	SAIA-SB26-25	N	Barium	17.1	198	198	mg/kg	
E200.7/NONE	SO	SAIA-SB26-25	N	Beryllium	0.43	0.77	0.77	mg/kg	
E200.7/NONE	SO	SAIA-SB26-25	N	Calcium	429	14100	14100	mg/kg	
E200.7/NONE	SO	SAIA-SB26-25	N	Cadmium	0.43	0.86	0.86	mg/kg	
E200.7/NONE	SO	SAIA-SB26-25	N	Cobalt	4.3	14.0	14.0	mg/kg	
E200.7/NONE	SO	SAIA-SB26-25	N	Chromium	0.86	23.6	23.6	mg/kg	
E200.7/NONE	SO	SAIA-SB26-25	N	Copper	2.1	27.6	27.6	mg/kg	
E200.7/NONE	SO	SAIA-SB26-25	N	Iron	8.6	30600	30600	mg/kg	
E200.7/NONE	SO	SAIA-SB26-25	N	Potassium	429	5460	5460	mg/kg	
E200.7/NONE	SO	SAIA-SB26-25	N	Magnesium	429	10400	10400	mg/kg	
E200.7/NONE	SO	SAIA-SB26-25	N	Manganese	1.3	466	466	mg/kg	
E200.7/NONE	SO	SAIA-SB26-25	N	Sodium	429	649	649	mg/kg	
E200.7/NONE	SO	SAIA-SB26-25	N	Nickel	3.4	20.0	20.0	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB26-25	N	Lead	0.86	6.4 N	6.4 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-25	N	Selenium	3.0	3.0 J	3.0	mg/kg	
E200.7/NONE	SO	SAIA-SB26-25	N	Vanadium	4.3	59.2	59.2	mg/kg	
E200.7/NONE	SO	SAIA-SB26-25	N	Zinc	5.1	72.8	72.8	mg/kg	
E200.7/NONE	SO	SAIA-SB26-5	N	Aluminum	15.4	11800	11800	mg/kg	
E200.7/NONE	SO	SAIA-SB26-5	N	Arsenic	0.77	2.1	2.1	mg/kg	
E200.7/NONE	SO	SAIA-SB26-5	N	Barium	15.4	115	115	mg/kg	
E200.7/NONE	SO	SAIA-SB26-5	N	Beryllium	0.39	0.41	0.41	mg/kg	
E200.7/NONE	SO	SAIA-SB26-5	N	Calcium	386	6800	6800	mg/kg	
E200.7/NONE	SO	SAIA-SB26-5	N	Cadmium	0.39	3.2	3.2	mg/kg	
E200.7/NONE	SO	SAIA-SB26-5	N	Cobalt	3.9	8.1	8.1	mg/kg	
E200.7/NONE	SO	SAIA-SB26-5	N	Chromium	0.77	19.9	19.9	mg/kg	
E200.7/NONE	SO	SAIA-SB26-5	N	Copper	1.9	20.5	20.5	mg/kg	
E200.7/NONE	SO	SAIA-SB26-5	N	Iron	7.7	22700	22700	mg/kg	
E200.7/NONE	SO	SAIA-SB26-5	N	Potassium	386	3790	3790	mg/kg	
E200.7/NONE	SO	SAIA-SB26-5	N	Magnesium	386	5860	5860	mg/kg	
E200.7/NONE	SO	SAIA-SB26-5	N	Manganese	1.2	384	384	mg/kg	
E200.7/NONE	SO	SAIA-SB26-5	N	Nickel	3.1	13.1	13.1	mg/kg	
E200.7/NONE	SO	SAIA-SB26-5	N	Lead	0.77	41.6 N	41.6 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-5	N	Antimony	4.6	10.0 N	10.0 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB26-5	N	Selenium	2.7	2.6 J	2.6 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB26-5	N	Vanadium	3.9	44.2	44.2	mg/kg	
E200.7/NONE	SO	SAIA-SB26-5	N	Zinc	4.6	150	150	mg/kg	
E200.7/NONE	SO	SAIA-SB29-2	N	Aluminum	15.5	13200	13200	mg/kg	
E200.7/NONE	SO	SAIA-SB29-2	N	Arsenic	0.78	2.6	2.6	mg/kg	
E200.7/NONE	SO	SAIA-SB29-2	N	Barium	15.5	124	124	mg/kg	
E200.7/NONE	SO	SAIA-SB29-2	N	Beryllium	0.39	0.48	0.48	mg/kg	

AUTOMATED DATA REVIEW SUMMARY for MY9E95

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB29-2	N	Calcium	388	7130	7130	mg/kg	
E200.7/NONE	SO	SAIA-SB29-2	N	Cadmium	0.39	0.70	0.70	mg/kg	
E200.7/NONE	SO	SAIA-SB29-2	N	Cobalt	3.9	13.7	13.7	mg/kg	
E200.7/NONE	SO	SAIA-SB29-2	N	Chromium	0.78	24.2	24.2	mg/kg	
E200.7/NONE	SO	SAIA-SB29-2	N	Copper	1.9	20.5	20.5	mg/kg	
E200.7/NONE	SO	SAIA-SB29-2	N	Iron	7.8	24700	24700	mg/kg	
E200.7/NONE	SO	SAIA-SB29-2	N	Potassium	388	4420	4420	mg/kg	
E200.7/NONE	SO	SAIA-SB29-2	N	Magnesium	388	6470	6470	mg/kg	
E200.7/NONE	SO	SAIA-SB29-2	N	Manganese	1.2	344	344	mg/kg	
E200.7/NONE	SO	SAIA-SB29-2	N	Nickel	3.1	13.9	13.9	mg/kg	
E200.7/NONE	SO	SAIA-SB29-2	N	Lead	0.78	13.8 N	13.8 J	mg/kg	M
E200.7/NONE	SO	SAIA-SB29-2	N	Selenium	2.7	2.9	2.9	mg/kg	
E200.7/NONE	SO	SAIA-SB29-2	N	Vanadium	3.9	47.3	47.3	mg/kg	
E200.7/NONE	SO	SAIA-SB29-2	N	Zinc	4.7	75.3	75.3	mg/kg	
E200.7/NONE	SO	SAIA-SB29-5	N	Silver	0.87	1.0	1.0	mg/kg	
E200.7/NONE	SO	SAIA-SB29-5	N	Aluminum	17.4	19100	19100	mg/kg	
E200.7/NONE	SO	SAIA-SB29-5	N	Arsenic	0.87	3.5	3.5	mg/kg	
E200.7/NONE	SO	SAIA-SB29-5	N	Barium	17.4	176	176	mg/kg	
E200.7/NONE	SO	SAIA-SB29-5	N	Beryllium	0.44	0.68	0.68	mg/kg	
E200.7/NONE	SO	SAIA-SB29-5	N	Calcium	435	9500	9500	mg/kg	
E200.7/NONE	SO	SAIA-SB29-5	N	Cadmium	0.44	1.0	1.0	mg/kg	
E200.7/NONE	SO	SAIA-SB29-5	N	Cobalt	4.4	25.0	25.0 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB29-5	N	Chromium	0.87	46.8	46.8 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB29-5	N	Copper	2.2	28.9	28.9	mg/kg	
E200.7/NONE	SO	SAIA-SB29-5	N	Iron	8.7	31700	31700	mg/kg	
E200.7/NONE	SO	SAIA-SB29-5	N	Potassium	435	5300	5300	mg/kg	
E200.7/NONE	SO	SAIA-SB29-5	N	Magnesium	435	8540	8540	mg/kg	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	SO	SAIA-SB29-5	N	Manganese	1.3	444	444	mg/kg	
E200.7/NONE	SO	SAIA-SB29-5	N	Nickel	3.5	20.4	20.4	mg/kg	
E200.7/NONE	SO	SAIA-SB29-5	N	Lead	0.87	18.3 N	18.3 J	mg/kg	D5/M
E200.7/NONE	SO	SAIA-SB29-5	N	Selenium	3.0	4.2	4.2	mg/kg	
E200.7/NONE	SO	SAIA-SB29-5	N	Vanadium	4.4	66.8	66.8	mg/kg	
E200.7/NONE	SO	SAIA-SB29-5	N	Zinc	5.2	86.6	86.6	mg/kg	
E200.7/NONE	SO	SAIA-SB29-6	FD	Aluminum	17.8	14700	14700	mg/kg	
E200.7/NONE	SO	SAIA-SB29-6	FD	Arsenic	0.89	2.8	2.8	mg/kg	
E200.7/NONE	SO	SAIA-SB29-6	FD	Barium	17.8	138	138	mg/kg	
E200.7/NONE	SO	SAIA-SB29-6	FD	Beryllium	0.45	0.50	0.50	mg/kg	
E200.7/NONE	SO	SAIA-SB29-6	FD	Calcium	446	7720	7720	mg/kg	
E200.7/NONE	SO	SAIA-SB29-6	FD	Cadmium	0.45	0.62	0.62	mg/kg	
E200.7/NONE	SO	SAIA-SB29-6	FD	Cobalt	4.5	10.1	10.1 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB29-6	FD	Chromium	0.89	21.3	21.3 J	mg/kg	D5
E200.7/NONE	SO	SAIA-SB29-6	FD	Copper	2.2	17.9	17.9	mg/kg	
E200.7/NONE	SO	SAIA-SB29-6	FD	Iron	8.9	23800	23800	mg/kg	
E200.7/NONE	SO	SAIA-SB29-6	FD	Potassium	446	4140	4140	mg/kg	
E200.7/NONE	SO	SAIA-SB29-6	FD	Magnesium	446	6570	6570	mg/kg	
E200.7/NONE	SO	SAIA-SB29-6	FD	Manganese	1.3	321	321	mg/kg	
E200.7/NONE	SO	SAIA-SB29-6	FD	Nickel	3.6	13.3	13.3	mg/kg	
E200.7/NONE	SO	SAIA-SB29-6	FD	Lead	0.89	5.5 N	5.5 J	mg/kg	D5/M
E200.7/NONE	SO	SAIA-SB29-6	FD	Selenium	3.1	2.5 J	2.5 J	mg/kg	TR
E200.7/NONE	SO	SAIA-SB29-6	FD	Vanadium	4.5	46.0	46.0	mg/kg	
E200.7/NONE	SO	SAIA-SB29-6	FD	Zinc	5.4	54.4	54.4	mg/kg	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	SAIA-SB19-15	N	Mercury	0.11	0.057 J	0.057 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9E95

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW7471B/NONE	SO	SAIA-SB19-25	N	Mercury	0.11	0.037 J	0.037 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB19-35	N	Mercury	0.11	0.021 J	0.021 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB19-6	FD	Mercury	0.092	0.020 J	0.020 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB24-0.5	N	Mercury	0.099	0.035 J	0.035 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB24-15	N	Mercury	0.12	0.062 J	0.062 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB24-2	N	Mercury	0.10	0.015 J	0.015 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB24-25	N	Mercury	0.11	0.072 J	0.072 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB24-35	N	Mercury	0.11	0.18	0.18	mg/kg	
SW7471B/NONE	SO	SAIA-SB24-5	N	Mercury	0.11	0.093 J	0.093 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB26-0.5	N	Mercury	0.11	0.21	0.21	mg/kg	
SW7471B/NONE	SO	SAIA-SB26-0.6	FD	Mercury	0.10	0.15	0.15	mg/kg	
SW7471B/NONE	SO	SAIA-SB26-15	N	Mercury	0.11	0.14	0.14	mg/kg	
SW7471B/NONE	SO	SAIA-SB26-16	FD	Mercury	0.11	0.048 J	0.048 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB26-2	N	Mercury	0.10	0.10	0.10	mg/kg	
SW7471B/NONE	SO	SAIA-SB26-25	N	Mercury	0.11	0.051 J	0.051 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB26-5	N	Mercury	0.10	0.024 J	0.024 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB29-2	N	Mercury	0.097	0.023 J	0.023 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB29-5	N	Mercury	0.10	0.032 J	0.032 J	mg/kg	TR
SW7471B/NONE	SO	SAIA-SB29-6	FD	Mercury	0.11	0.082 J	0.082 J	mg/kg	TR

AUTOMATED DATA REVIEW SUMMARY for MY9E95

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for Y9E95

Facility: Southern Avenue Industrial Area

Soil Boring Sampling Event, April 2014

Guidance Document:

Contract Laboratory: KAP TECHNOLOGIES INC., THE WOODLANDS, TX

Field Contractor:

Data Review Contractor: ESAT/ICF International

SDG: Y9E95, Certified - 5/14/2014 by wtse

QC Level: S3VEM

Project Manager: Don Gruber, Gilbane

Data Reviewer: Santiago Lee, ICF

Data Reviewer Title: Validator

Date of Review Report: June 25, 2014

Second Reviewer: Tom Beer, Gilbane

Completion Date of Second Reviewer: December 02, 2014

Samples Included in SDG Y9E95

Analytical Method/ Leach Method	Normal Soil Samples	Field QC Soil Samples
SW8082/NONE	16	4
SW8260B/NONE	16	4
SW8270D/NONE	16	4

AUTOMATED DATA REVIEW SUMMARY for Y9E95

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by KAP TECHNOLOGIES INC., THE WOODLANDS, TX and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- Negative Blank
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for Y9E95

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 112 results (4.34%) out of the 2580 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

The EPA validator reviewed the KAP lab report, COCs, lab case narrative, and EXES data review package.

No sample receipt issues noted, but qualifiers were added for minor calibration (C11) anomalies.

Data qualifiers also were added for lab blank (B1, B2) detects, elevated PCB surrogate recoveries (S), matrix interference (M), poor LCS recoveries (L), and PCB second column (P1) and field duplicate (D5) imprecision.

No data were rejected, and some surrogate QC outliers were resolved.

25-Jun-2014

Released by Santiago Lee, ICF, Validator

02-Dec-2014

Released by Tom Beer, Gilbane

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for Y9E95

Batch Report

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
A44125-1	P50281	NA	LABQC	SQ	LABQC	ALCS26	A44068-1	1/1	23-Apr-2014 7:15 PM	23-Apr-2014 7:15 PM	26-Apr-2014 10:17 PM	BS
	P50281	NA	SAIA-SB/SG19	SO	SAIA-SB19-15	S-6425.02	A44068-1	1/1	16-Apr-2014 8:15 AM	23-Apr-2014 7:15 PM	26-Apr-2014 11:16 PM	N
	P50281	NA	SAIA-SB/SG19	SO	SAIA-SB19-25	S-6425.03	A44068-1	1/1	16-Apr-2014 8:25 AM	23-Apr-2014 7:15 PM	26-Apr-2014 11:45 PM	N
	P50281	NA	SAIA-SB/SG19	SO	SAIA-SB19-35	S-6425.04	A44068-1	1/1	16-Apr-2014 8:35 AM	23-Apr-2014 7:15 PM	27-Apr-2014 12:14 AM	N
	P50281	NA	SAIA-SB/SG24	SO	SAIA-SB24-0.5	S-6425.05	A44068-1	1/1	16-Apr-2014 10:00 AM	23-Apr-2014 7:15 PM	27-Apr-2014 12:44 AM	N
	P50281	NA	SAIA-SB/SG24	SO	SAIA-SB24-15	S-6425.08	A44068-1	1/1	16-Apr-2014 10:30 AM	23-Apr-2014 7:15 PM	27-Apr-2014 2:12 AM	N
	P50281	NA	SAIA-SB/SG24	SO	SAIA-SB24-2	S-6425.06	A44068-1	1/1	16-Apr-2014 10:05 AM	23-Apr-2014 7:15 PM	27-Apr-2014 1:13 AM	N
	P50281	NA	SAIA-SB/SG24	SO	SAIA-SB24-25	S-6425.09	A44068-1	1/1	16-Apr-2014 10:40 AM	23-Apr-2014 7:15 PM	27-Apr-2014 2:41 AM	N
	P50281	NA	SAIA-SB/SG24	SO	SAIA-SB24-35	S-6425.10	A44068-1	1/1	16-Apr-2014 10:50 AM	23-Apr-2014 7:15 PM	27-Apr-2014 3:11 AM	N
	P50281	NA	SAIA-SB/SG24	SO	SAIA-SB24-5	S-6425.07	A44068-1	1/1	16-Apr-2014 10:10 AM	23-Apr-2014 7:15 PM	27-Apr-2014 1:42 AM	N
	P50281	NA	SAIA-SB/SG26	SO	SAIA-SB26-5	S-6425.14	A44068-1	1/1	16-Apr-2014 12:35 PM	23-Apr-2014 7:15 PM	27-Apr-2014 3:40 AM	N
A44125-2	P50281	NA	LABQC	SQ	LABQC	ALCS26	A44068-2	1/1	23-Apr-2014 7:15 PM	23-Apr-2014 7:15 PM	26-Apr-2014 10:46 PM	BS
	P50281	NA	SAIA-SB/SG19	SO	SAIA-SB19-15	S-6425.02	A44068-2	1/1	16-Apr-2014 8:15 AM	23-Apr-2014 7:15 PM	26-Apr-2014 11:45 PM	N
	P50281	NA	SAIA-SB/SG19	SO	SAIA-SB19-25	S-6425.03	A44068-2	1/1	16-Apr-2014 8:25 AM	23-Apr-2014 7:15 PM	27-Apr-2014 12:14 AM	N
	P50281	NA	SAIA-SB/SG19	SO	SAIA-SB19-35	S-6425.04	A44068-2	1/1	16-Apr-2014 8:35 AM	23-Apr-2014 7:15 PM	27-Apr-2014 12:44 AM	N
	P50281	NA	SAIA-SB/SG24	SO	SAIA-SB24-0.5	S-6425.05	A44068-2	1/1	16-Apr-2014 10:00 AM	23-Apr-2014 7:15 PM	27-Apr-2014 1:13 AM	N
	P50281	NA	SAIA-SB/SG24	SO	SAIA-SB24-15	S-6425.08	A44068-2	1/1	16-Apr-2014 10:30 AM	23-Apr-2014 7:15 PM	27-Apr-2014 2:41 AM	N
	P50281	NA	SAIA-SB/SG24	SO	SAIA-SB24-2	S-6425.06	A44068-2	1/1	16-Apr-2014 10:05 AM	23-Apr-2014 7:15 PM	27-Apr-2014 1:42 AM	N
	P50281	NA	SAIA-SB/SG24	SO	SAIA-SB24-25	S-6425.09	A44068-2	1/1	16-Apr-2014 10:40 AM	23-Apr-2014 7:15 PM	27-Apr-2014 3:11 AM	N
	P50281	NA	SAIA-SB/SG24	SO	SAIA-SB24-35	S-6425.10	A44068-2	1/1	16-Apr-2014 10:50 AM	23-Apr-2014 7:15 PM	27-Apr-2014 3:40 AM	N
	P50281	NA	SAIA-SB/SG24	SO	SAIA-SB24-5	S-6425.07	A44068-2	1/1	16-Apr-2014 10:10 AM	23-Apr-2014 7:15 PM	27-Apr-2014 2:12 AM	N

Batch Report

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
A44125-2	P50281	NA	SAIA-SB/SG26	SO	SAIA-SB26-5	S-6425.14	A44068-2	1/1	16-Apr-2014 12:35 PM	23-Apr-2014 7:15 PM	27-Apr-2014 4:09 AM	N
A44160-1	P50281	NA	SAIA-SB/SG19	SO	SAIA-SB19-35	S-6425.04	A44068-1	1/1	16-Apr-2014 8:35 AM	23-Apr-2014 7:15 PM	27-Apr-2014 5:13 PM	MS
	P50281	NA	SAIA-SB/SG19	SO	SAIA-SB19-35	S-6425.04	A44068-1	1/1	16-Apr-2014 8:35 AM	23-Apr-2014 7:15 PM	27-Apr-2014 5:43 PM	SD
	P50281	NA	SAIA-SB/SG26	SO	SAIA-SB26-15	S-6425.15	A44068-1	1/1	16-Apr-2014 12:50 PM	23-Apr-2014 7:15 PM	27-Apr-2014 2:17 PM	N
	P50281	NA	SAIA-SB/SG26	SO	SAIA-SB26-16	S-6425.16	A44068-1	1/1	16-Apr-2014 12:55 PM	23-Apr-2014 7:15 PM	27-Apr-2014 2:46 PM	FD
	P50281	NA	SAIA-SB/SG26	SO	SAIA-SB26-25	S-6425.17	A44068-1	1/1	16-Apr-2014 1:00 PM	23-Apr-2014 7:15 PM	27-Apr-2014 3:15 PM	N
	P50281	NA	SAIA-SB/SG29	SO	SAIA-SB29-2	S-6425.18	A44068-1	1/1	16-Apr-2014 2:05 PM	23-Apr-2014 7:15 PM	27-Apr-2014 3:45 PM	N
	P50281	NA	SAIA-SB/SG29	SO	SAIA-SB29-5	S-6425.19	A44068-1	1/1	16-Apr-2014 2:10 PM	23-Apr-2014 7:15 PM	27-Apr-2014 4:14 PM	N
	P50281	NA	SAIA-SB/SG29	SO	SAIA-SB29-6	S-6425.20	A44068-1	1/1	16-Apr-2014 2:15 PM	23-Apr-2014 7:15 PM	27-Apr-2014 4:44 PM	FD
A44160-2	P50281	NA	SAIA-SB/SG19	SO	SAIA-SB19-35	S-6425.04	A44068-2	1/1	16-Apr-2014 8:35 AM	23-Apr-2014 7:15 PM	27-Apr-2014 5:43 PM	MS
	P50281	NA	SAIA-SB/SG19	SO	SAIA-SB19-35	S-6425.04	A44068-2	1/1	16-Apr-2014 8:35 AM	23-Apr-2014 7:15 PM	27-Apr-2014 6:12 PM	SD
	P50281	NA	SAIA-SB/SG26	SO	SAIA-SB26-15	S-6425.15	A44068-2	1/1	16-Apr-2014 12:50 PM	23-Apr-2014 7:15 PM	27-Apr-2014 2:46 PM	N
	P50281	NA	SAIA-SB/SG26	SO	SAIA-SB26-16	S-6425.16	A44068-2	1/1	16-Apr-2014 12:55 PM	23-Apr-2014 7:15 PM	27-Apr-2014 3:15 PM	FD
	P50281	NA	SAIA-SB/SG26	SO	SAIA-SB26-25	S-6425.17	A44068-2	1/1	16-Apr-2014 1:00 PM	23-Apr-2014 7:15 PM	27-Apr-2014 3:45 PM	N
	P50281	NA	SAIA-SB/SG29	SO	SAIA-SB29-2	S-6425.18	A44068-2	1/1	16-Apr-2014 2:05 PM	23-Apr-2014 7:15 PM	27-Apr-2014 4:14 PM	N
	P50281	NA	SAIA-SB/SG29	SO	SAIA-SB29-5	S-6425.19	A44068-2	1/1	16-Apr-2014 2:10 PM	23-Apr-2014 7:15 PM	27-Apr-2014 4:44 PM	N
	P50281	NA	SAIA-SB/SG29	SO	SAIA-SB29-6	S-6425.20	A44068-2	1/1	16-Apr-2014 2:15 PM	23-Apr-2014 7:15 PM	27-Apr-2014 5:13 PM	FD
A44179-1	P50281	NA	SAIA-SB/SG19	SO	SAIA-SB19-6	S-6425.01	A44068-1	1/1	16-Apr-2014 8:00 AM	23-Apr-2014 7:15 PM	28-Apr-2014 9:35 PM	FD
A44179-2	P50281	NA	SAIA-SB/SG19	SO	SAIA-SB19-6	S-6425.01	A44068-2	1/1	16-Apr-2014 8:00 AM	23-Apr-2014 7:15 PM	28-Apr-2014 10:05 PM	FD
P50279-1	P50281	NA	LABQC	SQ	LABQC	ABLK26	P50169-1	1/1	23-Apr-2014 7:15 PM	23-Apr-2014 7:15 PM	06-May-2014 12:24 PM	LB
	P50281	NA	SAIA-SB/SG26	SO	SAIA-SB26-0.5	S-6425.11	P50169-1	1/50	16-Apr-2014 12:20 PM	23-Apr-2014 7:15 PM	06-May-2014 2:26 PM	N
	P50281	NA	SAIA-SB/SG26	SO	SAIA-SB26-0.5	S-6425.11	P50169-1	1/1	16-Apr-2014 12:20 PM	23-Apr-2014 7:15 PM	06-May-2014 12:54 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9E95

Batch Report

Test Method: SW8082; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
P50279-1	P50281	NA	SAIA-SB/SG26	SO	SAIA-SB26-0.6	S-6425.12	P50169-1	1/1	16-Apr-2014 12:25 PM	23-Apr-2014 7:15 PM	06-May-2014 1:25 PM	FD
	P50281	NA	SAIA-SB/SG26	SO	SAIA-SB26-0.6	S-6425.12	P50169-1	1/20	16-Apr-2014 12:25 PM	23-Apr-2014 7:15 PM	06-May-2014 2:56 PM	FD
	P50281	NA	SAIA-SB/SG26	SO	SAIA-SB26-2	S-6425.13	P50169-1	1/1	16-Apr-2014 12:30 PM	23-Apr-2014 7:15 PM	06-May-2014 1:55 PM	N
	P50281	NA	SAIA-SB/SG26	SO	SAIA-SB26-2	S-6425.13	P50169-1	1/50	16-Apr-2014 12:30 PM	23-Apr-2014 7:15 PM	06-May-2014 3:26 PM	N
P50279-2	P50281	NA	LABQC	SQ	LABQC	ABLK26	P50169-2	1/1	23-Apr-2014 7:15 PM	23-Apr-2014 7:15 PM	06-May-2014 12:54 PM	LB
	P50281	NA	SAIA-SB/SG26	SO	SAIA-SB26-0.5	S-6425.11	P50169-2	1/1	16-Apr-2014 12:20 PM	23-Apr-2014 7:15 PM	06-May-2014 1:25 PM	N
	P50281	NA	SAIA-SB/SG26	SO	SAIA-SB26-0.6	S-6425.12	P50169-2	1/1	16-Apr-2014 12:25 PM	23-Apr-2014 7:15 PM	06-May-2014 1:55 PM	FD
	P50281	NA	SAIA-SB/SG26	SO	SAIA-SB26-2	S-6425.13	P50169-2	1/1	16-Apr-2014 12:30 PM	23-Apr-2014 7:15 PM	06-May-2014 2:26 PM	N

Test Method: SW8260B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
A39833	A39835	NA	LABQC	SQ	LABQC	VBLKQP	A39737	1/1	22-Apr-2014 10:09 AM	22-Apr-2014 10:09 AM	22-Apr-2014 10:09 AM	LB
	A39835	NA	SAIA-SB/SG19	SO	SAIA-SB19-15	S-6425.02	A39737	1/1	16-Apr-2014 8:15 AM	22-Apr-2014 3:32 PM	22-Apr-2014 3:32 PM	N
	A39835	NA	SAIA-SB/SG19	SO	SAIA-SB19-25	S-6425.03	A39737	1/1	16-Apr-2014 8:25 AM	22-Apr-2014 4:13 PM	22-Apr-2014 4:13 PM	N
	A39835	NA	SAIA-SB/SG19	SO	SAIA-SB19-6	S-6425.01	A39737	1/1	16-Apr-2014 8:00 AM	22-Apr-2014 3:00 PM	22-Apr-2014 3:00 PM	FD
	A39835	NA	SAIA-SB/SG24	SO	SAIA-SB24-2	S-6425.06	A39737	1/1	16-Apr-2014 10:05 AM	22-Apr-2014 6:54 PM	22-Apr-2014 6:54 PM	N
	A39835	NA	SAIA-SB/SG26	SO	SAIA-SB26-0.6	S-6425.12	A39737	1/1	16-Apr-2014 12:25 PM	22-Apr-2014 4:45 PM	22-Apr-2014 4:45 PM	FD
A39853	A39856	NA	LABQC	SQ	LABQC	VBLKQR	A39737	1/1	23-Apr-2014 10:04 AM	23-Apr-2014 10:04 AM	23-Apr-2014 10:04 AM	LB
	A39856	NA	SAIA-SB/SG19	SO	SAIA-SB19-35	S-6425.04MS	A39737	1/1	16-Apr-2014 8:35 AM	23-Apr-2014 11:41 AM	23-Apr-2014 11:41 AM	MS
	A39856	NA	SAIA-SB/SG19	SO	SAIA-SB19-35	S-6425.04	A39737	1/1	16-Apr-2014 8:35 AM	23-Apr-2014 10:36 AM	23-Apr-2014 10:36 AM	N
	A39856	NA	SAIA-SB/SG19	SO	SAIA-SB19-35	S-6425.04MSD	A39737	1/1	16-Apr-2014 8:35 AM	23-Apr-2014 12:13 PM	23-Apr-2014 12:13 PM	SD
	A39856	NA	SAIA-SB/SG24	SO	SAIA-SB24-0.5	S-6425.05	A39737	1/1	16-Apr-2014 10:00 AM	23-Apr-2014 11:08 AM	23-Apr-2014 11:08 AM	N

AUTOMATED DATA REVIEW SUMMARY for Y9E95

Batch Report

Test Method: SW8260B; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
A39853	A39856	NA	SAIA-SB/SG24	SO	SAIA-SB24-15	S-6425.08	A39737	1/1	16-Apr-2014 10:30 AM	23-Apr-2014 1:18 PM	23-Apr-2014 1:18 PM	N
	A39856	NA	SAIA-SB/SG24	SO	SAIA-SB24-25	S-6425.09	A39737	1/1	16-Apr-2014 10:40 AM	23-Apr-2014 1:50 PM	23-Apr-2014 1:50 PM	N
	A39856	NA	SAIA-SB/SG24	SO	SAIA-SB24-35	S-6425.10	A39737	1/1	16-Apr-2014 10:50 AM	23-Apr-2014 2:23 PM	23-Apr-2014 2:23 PM	N
	A39856	NA	SAIA-SB/SG24	SO	SAIA-SB24-5	S-6425.07	A39737	1/1	16-Apr-2014 10:10 AM	23-Apr-2014 12:46 PM	23-Apr-2014 12:46 PM	N
	A39856	NA	SAIA-SB/SG26	SO	SAIA-SB26-0.5	S-6425.11	A39737	1/1	16-Apr-2014 12:20 PM	23-Apr-2014 2:55 PM	23-Apr-2014 2:55 PM	N
	A39856	NA	SAIA-SB/SG26	SO	SAIA-SB26-15	S-6425.15	A39737	1/1	16-Apr-2014 12:50 PM	23-Apr-2014 4:33 PM	23-Apr-2014 4:33 PM	N
	A39856	NA	SAIA-SB/SG26	SO	SAIA-SB26-2	S-6425.13	A39737	1/1	16-Apr-2014 12:30 PM	23-Apr-2014 3:28 PM	23-Apr-2014 3:28 PM	N
	A39856	NA	SAIA-SB/SG26	SO	SAIA-SB26-5	S-6425.14	A39737	1/1	16-Apr-2014 12:35 PM	23-Apr-2014 4:00 PM	23-Apr-2014 4:00 PM	N
A39871	A39874	NA	LABQC	SQ	LABQC	VBLKQT	A39737	1/1	24-Apr-2014 11:07 AM	24-Apr-2014 11:07 AM	24-Apr-2014 11:07 AM	LB
	A39874	NA	LABQC	SQ	LABQC	S-6425.21	A39737	1/1	24-Apr-2014 2:28 PM	24-Apr-2014 2:28 PM	24-Apr-2014 2:28 PM	LB
	A39874	NA	SAIA-SB/SG26	SO	SAIA-SB26-16	S-6425.16	A39737	1/1	16-Apr-2014 12:55 PM	24-Apr-2014 11:45 AM	24-Apr-2014 11:45 AM	FD
	A39874	NA	SAIA-SB/SG26	SO	SAIA-SB26-25	S-6425.17	A39737	1/1	16-Apr-2014 1:00 PM	24-Apr-2014 12:18 PM	24-Apr-2014 12:18 PM	N
	A39874	NA	SAIA-SB/SG29	SO	SAIA-SB29-2	S-6425.18	A39737	1/1	16-Apr-2014 2:05 PM	24-Apr-2014 12:51 PM	24-Apr-2014 12:51 PM	N
	A39874	NA	SAIA-SB/SG29	SO	SAIA-SB29-5	S-6425.19	A39737	1/1	16-Apr-2014 2:10 PM	24-Apr-2014 1:23 PM	24-Apr-2014 1:23 PM	N
	A39874	NA	SAIA-SB/SG29	SO	SAIA-SB29-6	S-6425.20	A39737	1/1	16-Apr-2014 2:15 PM	24-Apr-2014 1:55 PM	24-Apr-2014 1:55 PM	FD

Test Method: SW8270D; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
D13253	D13378	NA	SAIA-SB/SG19	SO	SAIA-SB19-15	S-6425.02	D13220	1/1	16-Apr-2014 8:15 AM	23-Apr-2014 9:10 AM	25-Apr-2014 7:48 AM	N
	D13378	NA	SAIA-SB/SG19	SO	SAIA-SB19-25	S-6425.03	D13220	1/1	16-Apr-2014 8:25 AM	23-Apr-2014 9:10 AM	25-Apr-2014 8:14 AM	N
	D13378	NA	SAIA-SB/SG19	SO	SAIA-SB19-35	S-6425.04	D13220	1/1	16-Apr-2014 8:35 AM	23-Apr-2014 9:10 AM	25-Apr-2014 8:40 AM	N
	D13378	NA	SAIA-SB/SG24	SO	SAIA-SB24-2	S-6425.06	D13220	1/1	16-Apr-2014 10:05 AM	23-Apr-2014 9:10 AM	25-Apr-2014 9:07 AM	N

AUTOMATED DATA REVIEW SUMMARY for Y9E95

Batch Report

Test Method: SW8270D; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
D13299	D13378	NA	SAIA-SB/SG19	SO	SAIA-SB19-35	S-6425.04MS	D13220	1/1	16-Apr-2014 8:35 AM	23-Apr-2014 9:10 AM	28-Apr-2014 2:04 PM	MS
	D13378	NA	SAIA-SB/SG19	SO	SAIA-SB19-35	S-6425.04MSD	D13220	1/1	16-Apr-2014 8:35 AM	23-Apr-2014 9:10 AM	28-Apr-2014 2:30 PM	SD
	D13378	NA	SAIA-SB/SG24	SO	SAIA-SB24-15	S-6425.08	D13220	1/1	16-Apr-2014 10:30 AM	23-Apr-2014 9:10 AM	28-Apr-2014 8:50 AM	N
	D13378	NA	SAIA-SB/SG24	SO	SAIA-SB24-25	S-6425.09	D13220	1/1	16-Apr-2014 10:40 AM	23-Apr-2014 9:10 AM	28-Apr-2014 9:17 AM	N
	D13378	NA	SAIA-SB/SG24	SO	SAIA-SB24-35	S-6425.10	D13220	1/1	16-Apr-2014 10:50 AM	23-Apr-2014 9:10 AM	28-Apr-2014 9:43 AM	N
	D13378	NA	SAIA-SB/SG24	SO	SAIA-SB24-5	S-6425.07	D13220	1/1	16-Apr-2014 10:10 AM	23-Apr-2014 9:10 AM	28-Apr-2014 8:24 AM	N
	D13378	NA	SAIA-SB/SG26	SO	SAIA-SB26-15	S-6425.15	D13220	1/1	16-Apr-2014 12:50 PM	23-Apr-2014 9:10 AM	28-Apr-2014 10:35 AM	N
	D13378	NA	SAIA-SB/SG26	SO	SAIA-SB26-16	S-6425.16	D13220	1/1	16-Apr-2014 12:55 PM	23-Apr-2014 9:10 AM	28-Apr-2014 11:02 AM	FD
	D13378	NA	SAIA-SB/SG26	SO	SAIA-SB26-25	S-6425.17	D13220	1/1	16-Apr-2014 1:00 PM	23-Apr-2014 9:10 AM	28-Apr-2014 11:28 AM	N
	D13378	NA	SAIA-SB/SG26	SO	SAIA-SB26-5	S-6425.14	D13220	1/1	16-Apr-2014 12:35 PM	23-Apr-2014 9:10 AM	28-Apr-2014 10:09 AM	N
	D13378	NA	SAIA-SB/SG29	SO	SAIA-SB29-5	S-6425.19	D13220	1/1	16-Apr-2014 2:10 PM	23-Apr-2014 9:10 AM	28-Apr-2014 11:55 AM	N
D13373	D13378	NA	LABQC	SQ	LABQC	SBLK01	D13220	1/1	23-Apr-2014 9:10 AM	23-Apr-2014 9:10 AM	29-Apr-2014 6:49 PM	LB
D13386	D13378	NA	SAIA-SB/SG19	SO	SAIA-SB19-6	S-6425.01	D13220	1/1	16-Apr-2014 8:00 AM	23-Apr-2014 9:10 AM	30-Apr-2014 12:13 PM	FD
	D13378	NA	SAIA-SB/SG24	SO	SAIA-SB24-0.5	S-6425.05	D13220	1/1	16-Apr-2014 10:00 AM	23-Apr-2014 9:10 AM	30-Apr-2014 10:55 AM	N
	D13378	NA	SAIA-SB/SG29	SO	SAIA-SB29-2	S-6425.18	D13220	1/1	16-Apr-2014 2:05 PM	23-Apr-2014 9:10 AM	30-Apr-2014 11:21 AM	N
	D13378	NA	SAIA-SB/SG29	SO	SAIA-SB29-6	S-6425.20	D13220	1/1	16-Apr-2014 2:15 PM	23-Apr-2014 9:10 AM	30-Apr-2014 11:47 AM	FD
D13457	D13378	NA	SAIA-SB/SG26	SO	SAIA-SB26-0.5	S-6425.11	D13421	1/1	16-Apr-2014 12:20 PM	23-Apr-2014 9:10 AM	05-May-2014 11:00 AM	N
	D13378	NA	SAIA-SB/SG26	SO	SAIA-SB26-0.6	S-6425.12	D13421	1/1	16-Apr-2014 12:25 PM	23-Apr-2014 9:10 AM	05-May-2014 10:34 AM	FD
	D13378	NA	SAIA-SB/SG26	SO	SAIA-SB26-2	S-6425.13	D13421	1/1	16-Apr-2014 12:30 PM	23-Apr-2014 9:10 AM	05-May-2014 10:08 AM	N

AUTOMATED DATA REVIEW SUMMARY for Y9E95

Field Batch Report

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for Y9E95

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
SW8082 / SW3550B	LCS Recovery	ALCS26 (BS)	1 / 1.00	PCB-1016 (Arochlor 1016)	175	Percent	J/None	50 - 150	20 - 160	L			
SW8082 / SW3550B	Surrogate	SAIA-SB19-15 (N)	1 / 1.00	Decachlorobiphenyl	27.5	Percent	J/UJ	30 - 150	20 - 160	S			
SW8082 / SW3550B	Surrogate	SAIA-SB19-25 (N)	1 / 1.00	Decachlorobiphenyl	22.0	Percent	J/UJ	30 - 150	20 - 160	S			
SW8082 / SW3550B	Surrogate	SAIA-SB26-0.6 (FD)	1 / 1.00	Decachlorobiphenyl	20.3	Percent	J/UJ	30 - 150	20 - 160	S			
SW8260B / SW5035	Blank	S-6425.21 (LB)	1 / 1.00	Bromomethane	0.920	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	S-6425.21 (LB)	1 / 1.00	Methylene Chloride	1.50	UG/KG	U/None	< 1	< 5	B1			
SW8260B / SW5035	Blank	VBLKQP (LB)	1 / 1.00	1,2,3-Trichlorobenzene	1.20	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQP (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.960	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQP (LB)	1 / 1.00	1,3-Dichlorobenzene	0.460	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQP (LB)	1 / 1.00	Bromomethane	2.50	UG/KG	U/None	< 2	< 5	B1			
SW8260B / SW5035	Blank	VBLKQP (LB)	1 / 1.00	Methylene Chloride	7.50	UG/KG	U/None	< 1	< 5	B1			
SW8260B / SW5035	Blank	VBLKQP (LB)	1 / 1.00	Toluene	0.790	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQR (LB)	1 / 1.00	1,2,3-Trichlorobenzene	1.40	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQR (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.970	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQR (LB)	1 / 1.00	Bromomethane	1.50	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQR (LB)	1 / 1.00	Methylene Chloride	2.00	UG/KG	U/None	< 1	< 5	B1			
SW8260B / SW5035	Blank	VBLKQR (LB)	1 / 1.00	Toluene	0.510	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQT (LB)	1 / 1.00	1,2,3-Trichlorobenzene	1.60	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQT (LB)	1 / 1.00	1,2,4-Trichlorobenzene	1.10	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQT (LB)	1 / 1.00	Bromomethane	1.70	UG/KG	U/None	< 0	< 5	B1			
SW8260B / SW5035	Blank	VBLKQT (LB)	1 / 1.00	Methylene Chloride	3.40	UG/KG	U/None	< 1	< 5	B1			
SW8260B / SW5035	Surrogate	SAIA-SB19-15 (N)	1 / 1.00	1,2-Dichloroethane-d4	134	Percent	J/None	78 - 129	20 - 129	S			

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
SW8260B / SW5035	Surrogate	SAIA-SB19-15 (N)	1 / 1.00	Chloroethane-d5	160	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB19-25 (N)	1 / 1.00	1,1,2,2-Tetrachloroethane-d2	134	Percent	J/None	73 - 125	20 - 125	S			
SW8260B / SW5035	Surrogate	SAIA-SB19-25 (N)	1 / 1.00	Vinyl Chloride-d3	136	Percent	J/None	65 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB19-35 (SD)	1 / 1.00	1,1-Dichloroethene-d2	110	Percent	J/None	55 - 104	20 - 104	S			
SW8260B / SW5035	Surrogate	SAIA-SB19-35 (N)	1 / 1.00	Toluene-d8	124	Percent	J/None	77 - 121	20 - 121	S			
SW8260B / SW5035	Surrogate	SAIA-SB19-6 (FD)	1 / 1.00	1,1-Dichloroethene-d2	108	Percent	J/None	55 - 104	20 - 104	S			
SW8260B / SW5035	Surrogate	SAIA-SB19-6 (FD)	1 / 1.00	Chloroethane-d5	148	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB24-15 (N)	1 / 1.00	1,2-Dichloroethane-d4	132	Percent	J/None	78 - 129	20 - 129	S			
SW8260B / SW5035	Surrogate	SAIA-SB24-15 (N)	1 / 1.00	2-Hexanone-d5	140	Percent	J/None	28 - 135	20 - 135	S			
SW8260B / SW5035	Surrogate	SAIA-SB24-15 (N)	1 / 1.00	trans-1,3-Dichloropropene-d4	128	Percent	J/None	73 - 121	20 - 121	S			
SW8260B / SW5035	Surrogate	SAIA-SB24-2 (N)	1 / 1.00	Chloroethane-d5	70.0	Percent	J/UJ	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB24-25 (N)	1 / 1.00	1,2-Dichloroethane-d4	142	Percent	J/None	78 - 129	20 - 129	S			
SW8260B / SW5035	Surrogate	SAIA-SB24-25 (N)	1 / 1.00	Benzene-d6	128	Percent	J/None	77 - 124	20 - 124	S			
SW8260B / SW5035	Surrogate	SAIA-SB24-25 (N)	1 / 1.00	Chloroethane-d5	152	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB24-25 (N)	1 / 1.00	Toluene-d8	130	Percent	J/None	77 - 121	20 - 121	S			
SW8260B / SW5035	Surrogate	SAIA-SB24-25 (N)	1 / 1.00	trans-1,3-Dichloropropene-d4	128	Percent	J/None	73 - 121	20 - 121	S			
SW8260B / SW5035	Surrogate	SAIA-SB24-25 (N)	1 / 1.00	Vinyl Chloride-d3	160	Percent	J/None	65 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB26-0.6 (FD)	1 / 1.00	Chloroethane-d5	64.0	Percent	J/UJ	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB26-0.6 (FD)	1 / 1.00	Chloroform-d	70.0	Percent	J/UJ	78 - 121	20 - 121	S			
SW8260B / SW5035	Surrogate	SAIA-SB26-15 (N)	1 / 1.00	1,1-Dichloroethene-d2	120	Percent	J/None	55 - 104	20 - 104	S			
SW8260B / SW5035	Surrogate	SAIA-SB26-15 (N)	1 / 1.00	1,2-Dichloroethane-d4	138	Percent	J/None	78 - 129	20 - 129	S			
SW8260B / SW5035	Surrogate	SAIA-SB26-15 (N)	1 / 1.00	Chloroethane-d5	144	Percent	J/None	71 - 131	20 - 131	S			

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
SW8260B / SW5035	Surrogate	SAIA-SB26-15 (N)	1 / 1.00	Toluene-d8	122	Percent	J/None	77 - 121	20 - 121	S			
SW8260B / SW5035	Surrogate	SAIA-SB26-15 (N)	1 / 1.00	Vinyl Chloride-d3	136	Percent	J/None	65 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB26-16 (FD)	1 / 1.00	1,1-Dichloroethene-d2	120	Percent	J/None	55 - 104	20 - 104	S			
SW8260B / SW5035	Surrogate	SAIA-SB26-16 (FD)	1 / 1.00	1,2-Dichloroethane-d4	148	Percent	J/None	78 - 129	20 - 129	S			
SW8260B / SW5035	Surrogate	SAIA-SB26-16 (FD)	1 / 1.00	Chloroethane-d5	156	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB26-25 (N)	1 / 1.00	1,1-Dichloroethene-d2	122	Percent	J/None	55 - 104	20 - 104	S			
SW8260B / SW5035	Surrogate	SAIA-SB26-25 (N)	1 / 1.00	1,2-Dichloroethane-d4	142	Percent	J/None	78 - 129	20 - 129	S			
SW8260B / SW5035	Surrogate	SAIA-SB26-25 (N)	1 / 1.00	Chloroethane-d5	164	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB26-25 (N)	1 / 1.00	Chloroform-d	132	Percent	J/None	78 - 121	20 - 121	S			
SW8260B / SW5035	Surrogate	SAIA-SB26-25 (N)	1 / 1.00	Toluene-d8	126	Percent	J/None	77 - 121	20 - 121	S			
SW8260B / SW5035	Surrogate	SAIA-SB26-25 (N)	1 / 1.00	trans-1,3-Dichloropropene-d4	124	Percent	J/None	73 - 121	20 - 121	S			
SW8260B / SW5035	Surrogate	SAIA-SB26-25 (N)	1 / 1.00	Vinyl Chloride-d3	146	Percent	J/None	65 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB29-2 (N)	1 / 1.00	1,1-Dichloroethene-d2	116	Percent	J/None	55 - 104	20 - 104	S			
SW8260B / SW5035	Surrogate	SAIA-SB29-2 (N)	1 / 1.00	Chloroethane-d5	150	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB29-5 (N)	1 / 1.00	1,1-Dichloroethene-d2	114	Percent	J/None	55 - 104	20 - 104	S			
SW8260B / SW5035	Surrogate	SAIA-SB29-5 (N)	1 / 1.00	1,2-Dichloroethane-d4	140	Percent	J/None	78 - 129	20 - 129	S			
SW8260B / SW5035	Surrogate	SAIA-SB29-5 (N)	1 / 1.00	2-Butanone-d5	190	Percent	J/None	49 - 155	20 - 155	S			
SW8260B / SW5035	Surrogate	SAIA-SB29-5 (N)	1 / 1.00	2-Hexanone-d5	170	Percent	J/None	28 - 135	20 - 135	S			
SW8260B / SW5035	Surrogate	SAIA-SB29-5 (N)	1 / 1.00	Chloroform-d	126	Percent	J/None	78 - 121	20 - 121	S			
SW8260B / SW5035	Surrogate	SAIA-SB29-5 (N)	1 / 1.00	trans-1,3-Dichloropropene-d4	126	Percent	J/None	73 - 121	20 - 121	S			
SW8260B / SW5035	Surrogate	SAIA-SB29-5 (N)	1 / 1.00	Vinyl Chloride-d3	132	Percent	J/None	65 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB29-6 (FD)	1 / 1.00	1,1-Dichloroethene-d2	132	Percent	J/None	55 - 104	20 - 104	S			

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
SW8260B / SW5035	Surrogate	SAIA-SB29-6 (FD)	1 / 1.00	1,2-Dichloroethane-d4	144	Percent	J/None	78 - 129	20 - 129	S			
SW8260B / SW5035	Surrogate	SAIA-SB29-6 (FD)	1 / 1.00	Chloroethane-d5	162	Percent	J/None	71 - 131	20 - 131	S			
SW8260B / SW5035	Surrogate	SAIA-SB29-6 (FD)	1 / 1.00	Chloroform-d	138	Percent	J/None	78 - 121	20 - 121	S			
SW8260B / SW5035	Surrogate	SAIA-SB29-6 (FD)	1 / 1.00	trans-1,3-Dichloropropene-d4	122	Percent	J/None	73 - 121	20 - 121	S			
SW8270D / SW3550B	Surrogate	SAIA-SB19-25 (N)	1 / 1.00	4-Chloroaniline-d4	207	PERCENT	J/None	40 - 135	10 - 140	S			
SW8270D / SW3550B	Surrogate	SAIA-SB19-6 (FD)	1 / 1.00	4-Chloroaniline-d4	25.3	PERCENT	J/UJ	40 - 135	10 - 140	S			
SW8270D / SW3550B	Surrogate	SAIA-SB24-0.5 (N)	1 / 1.00	2-Chlorophenol-d4	36.0	PERCENT	J/UJ	40 - 135	10 - 140	S			
SW8270D / SW3550B	Surrogate	SAIA-SB24-0.5 (N)	1 / 1.00	Nitrobenzene-d5	39.3	PERCENT	J/UJ	40 - 135	10 - 140	S			

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8082/NONE	SO	SAIA-SB19-15	N	PCB-1016 (Arochlor 1016)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB19-15	N	PCB-1221 (Arochlor 1221)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB19-15	N	PCB-1232 (Arochlor 1232)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB19-15	N	PCB-1242 (Arochlor 1242)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB19-15	N	PCB-1248 (Arochlor 1248)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB19-15	N	PCB-1254 (Arochlor 1254)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB19-15	N	PCB-1260 (Arochlor 1260)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB19-15	N	PCB-1262 (Arochlor 1262)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB19-15	N	PCB-1268 (Arochlor 1268)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB19-25	N	PCB-1016 (Arochlor 1016)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB19-25	N	PCB-1221 (Arochlor 1221)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB19-25	N	PCB-1232 (Arochlor 1232)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB19-25	N	PCB-1242 (Arochlor 1242)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB19-25	N	PCB-1248 (Arochlor 1248)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB19-25	N	PCB-1254 (Arochlor 1254)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB19-25	N	PCB-1260 (Arochlor 1260)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB19-25	N	PCB-1262 (Arochlor 1262)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB19-25	N	PCB-1268 (Arochlor 1268)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB19-35	N	PCB-1016 (Arochlor 1016)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB19-35	N	PCB-1221 (Arochlor 1221)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB19-35	N	PCB-1232 (Arochlor 1232)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB19-35	N	PCB-1242 (Arochlor 1242)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB19-35	N	PCB-1248 (Arochlor 1248)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB19-35	N	PCB-1254 (Arochlor 1254)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB19-35	N	PCB-1260 (Arochlor 1260)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB19-35	N	PCB-1262 (Arochlor 1262)	39.0	39.0 U	39.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB19-35	N	PCB-1268 (Arochlor 1268)	39.0	39.0 U	39.0 UJ	UG/KG	S

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8082/NONE	SO	SAIA-SB24-0.5	N	PCB-1016 (Arochlor 1016)	35.0	35.0 U	35.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB24-0.5	N	PCB-1221 (Arochlor 1221)	35.0	35.0 U	35.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB24-0.5	N	PCB-1232 (Arochlor 1232)	35.0	35.0 U	35.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB24-0.5	N	PCB-1242 (Arochlor 1242)	35.0	35.0 U	35.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB24-0.5	N	PCB-1248 (Arochlor 1248)	35.0	35.0 U	35.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB24-0.5	N	PCB-1254 (Arochlor 1254)	35.0	35.0 U	35.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB24-0.5	N	PCB-1260 (Arochlor 1260)	35.0	35.0 U	35.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB24-0.5	N	PCB-1262 (Arochlor 1262)	35.0	35.0 U	35.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB24-0.5	N	PCB-1268 (Arochlor 1268)	35.0	35.0 U	35.0 UJ	UG/KG	S
SW8082/NONE	SO	SAIA-SB26-0.5	N	PCB-1260 (Arochlor 1260)	1800	7300 D	7300 J	UG/KG	D5
SW8082/NONE	SO	SAIA-SB26-0.6	FD	PCB-1260 (Arochlor 1260)	690	3000 DP	3000 J	UG/KG	P1/D5
SW8082/NONE	SO	SAIA-SB26-2	N	PCB-1260 (Arochlor 1260)	1800	5700 DP	5700 J	UG/KG	P1
SW8082/NONE	SO	SAIA-SB26-25	N	PCB-1016 (Arochlor 1016)	40.0	2.4 JP	2.4 J	UG/KG	L/TR
SW8082/NONE	SO	SAIA-SB26-25	N	PCB-1260 (Arochlor 1260)	40.0	3.7 J	3.7 J	UG/KG	TR
SW8082/NONE	SO	SAIA-SB26-5	N	PCB-1260 (Arochlor 1260)	35.0	25.0 J	25.0 J	UG/KG	TR
SW8082/NONE	SO	SAIA-SB29-2	N	PCB-1260 (Arochlor 1260)	36.0	10.0 J	10.0 J	UG/KG	TR
SW8082/NONE	SO	SAIA-SB29-5	N	PCB-1260 (Arochlor 1260)	39.0	5.3 J	5.3 J	UG/KG	TR
SW8082/NONE	SO	SAIA-SB29-6	FD	PCB-1260 (Arochlor 1260)	40.0	15.0 JP	15.0 J	UG/KG	TR/P1

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8260B/NONE	SO	SAIA-SB19-15	N	1,1-Dichloroethene	5.8	5.8 U	5.8 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB19-15	N	Bromomethane	5.8	5.8 JB	5.8 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB19-15	N	Methylene Chloride	5.8	5.8 JB	5.8 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB19-25	N	1,1-Dichloroethene	6.4	6.4 U	6.4 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB19-25	N	Bromomethane	6.4	6.4 JB	6.4 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB19-25	N	Methylcyclohexane	6.4	1.3 J	1.3 J	UG/KG	S/TR
SW8260B/NONE	SO	SAIA-SB19-25	N	Methylene Chloride	6.4	6.4 JB	6.4 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB19-25	N	o-Xylene	6.4	1.5 J	1.5 J	UG/KG	S/TR

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8260B/NONE	SO	SAIA-SB19-35	N	Bromomethane	6.2	6.2 JB	6.2 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB19-35	N	Methylene Chloride	6.2	6.2 JB	6.2 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB19-35	N	Toluene	6.2	6.2 JB	6.2 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB19-6	FD	1,1-Dichloroethene	5.4	5.4 U	5.4 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB19-6	FD	Bromomethane	5.4	5.4 JB	5.4 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB19-6	FD	Methylene Chloride	5.4	5.4 JB	5.4 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB24-0.5	N	Bromomethane	5.2	5.2 JB	5.2 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB24-0.5	N	Methylene Chloride	5.2	5.2 JB	5.2 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB24-0.5	N	Toluene	5.2	5.2 JB	5.2 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB24-15	N	Bromomethane	5.9	5.9 JB	5.9 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB24-15	N	Methylene Chloride	5.9	5.9 JB	5.9 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB24-2	N	1,1-Dichloroethane	5.6	5.6 U	5.6 UJ	UG/KG	S
SW8260B/NONE	SO	SAIA-SB24-2	N	1,1-Dichloroethene	5.6	5.6 U	5.6 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB24-2	N	Bromochloromethane	5.6	5.6 U	5.6 UJ	UG/KG	S
SW8260B/NONE	SO	SAIA-SB24-2	N	Bromoform	5.6	5.6 U	5.6 UJ	UG/KG	S
SW8260B/NONE	SO	SAIA-SB24-2	N	Bromomethane	5.6	5.6 JB	5.6 UJ	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB24-2	N	Chloroform	5.6	5.6 U	5.6 UJ	UG/KG	S
SW8260B/NONE	SO	SAIA-SB24-2	N	Dibromochloromethane	5.6	5.6 U	5.6 UJ	UG/KG	S
SW8260B/NONE	SO	SAIA-SB24-2	N	Methylene Chloride	5.6	5.6 JB	5.6 UJ	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB24-25	N	Bromomethane	6.3	6.3 JB	6.3 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB24-25	N	Methylene Chloride	6.3	6.3 JB	6.3 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB24-35	N	Bromomethane	5.4	5.4 JB	5.4 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB24-35	N	Methylene Chloride	5.4	5.4 JB	5.4 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB24-5	N	Bromomethane	5.4	5.4 JB	5.4 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB24-5	N	Methylene Chloride	5.4	5.4 JB	5.4 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB26-0.5	N	1,2,4-Trichlorobenzene	5.2	48.0 B	48.0 J	UG/KG	D5
SW8260B/NONE	SO	SAIA-SB26-0.5	N	Bromomethane	5.2	5.2 JB	5.2 U	UG/KG	B1

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8260B/NONE	SO	SAIA-SB26-0.5	N	Methylene Chloride	5.2	5.2 JB	5.2 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB26-0.5	N	Toluene	5.2	5.2 JB	5.2 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB26-0.6	FD	1,1-Dichloroethane	5.1	5.1 U	5.1 UJ	UG/KG	S
SW8260B/NONE	SO	SAIA-SB26-0.6	FD	1,1-Dichloroethene	5.1	5.1 U	5.1 UJ	UG/KG	C11
SW8260B/NONE	SO	SAIA-SB26-0.6	FD	1,2,4-Trichlorobenzene	5.1	5.1 U	5.1 UJ	UG/KG	D5
SW8260B/NONE	SO	SAIA-SB26-0.6	FD	Bromochloromethane	5.1	5.1 U	5.1 UJ	UG/KG	S
SW8260B/NONE	SO	SAIA-SB26-0.6	FD	Bromoform	5.1	5.1 U	5.1 UJ	UG/KG	S
SW8260B/NONE	SO	SAIA-SB26-0.6	FD	Bromomethane	5.1	5.1 JB	5.1 UJ	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB26-0.6	FD	Chloroform	5.1	5.1 U	5.1 UJ	UG/KG	S
SW8260B/NONE	SO	SAIA-SB26-0.6	FD	Dibromochloromethane	5.1	5.1 U	5.1 UJ	UG/KG	S
SW8260B/NONE	SO	SAIA-SB26-0.6	FD	Methylene Chloride	5.1	5.1 JB	5.1 UJ	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB26-0.6	FD	Toluene	5.1	5.1 JB	5.1 UJ	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB26-15	N	Bromomethane	6.1	6.1 JB	6.1 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB26-15	N	Methylene Chloride	6.1	6.1 JB	6.1 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB26-15	N	Toluene	6.1	6.1 JB	6.1 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB26-16	FD	Bromomethane	6.0	6.0 JB	6.0 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB26-16	FD	Methylene Chloride	6.0	6.0 B	6.0 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB26-2	N	1,2,3-Trichlorobenzene	5.5	5.5 JB	5.5 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB26-2	N	1,2,4-Trichlorobenzene	5.5	5.5 JB	5.5 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB26-2	N	Bromomethane	5.5	5.5 JB	5.5 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB26-2	N	Methylene Chloride	5.5	5.5 JB	5.5 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB26-2	N	Toluene	5.5	5.5 JB	5.5 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB26-25	N	Bromomethane	6.2	6.2 JB	6.2 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB26-25	N	Methylene Chloride	6.2	6.2 JB	6.2 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB26-5	N	Bromomethane	5.2	5.2 JB	5.2 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB26-5	N	Methylene Chloride	5.2	5.2 JB	5.2 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB26-5	N	Toluene	5.2	5.2 JB	5.2 U	UG/KG	B1

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8260B/NONE	SO	SAIA-SB29-2	N	1,2,4-Trichlorobenzene	5.6	5.6 JB	5.6 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB29-2	N	Bromomethane	5.6	5.6 JB	5.6 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB29-2	N	Methylene Chloride	5.6	5.6 JB	5.6 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB29-5	N	Bromomethane	5.7	5.7 JB	5.7 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB29-5	N	Methylene Chloride	5.7	5.7 JB	5.7 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB29-6	FD	Bromomethane	5.9	5.9 JB	5.9 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB29-6	FD	Methylene Chloride	5.9	5.9 JB	5.9 U	UG/KG	B1
SW8260B/NONE	SO	SAIA-SB29-6	FD	Toluene	5.9	1.2 J	1.2 J	UG/KG	S/TR/B5

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8270D/NONE	SO	SAIA-SB19-15	N	Fluorene	200	98.0 J	98.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB19-6	FD	Di-n-Butyl Phthalate	170	85.0 J	85.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-0.5	N	4-Chloroaniline	180	180 U	180 UJ	UG/KG	S
SW8270D/NONE	SO	SAIA-SB24-0.5	N	Benzo(a)anthracene	180	180 U	55.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-0.5	N	Benzo(a)pyrene	180	74.0 J	74.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-0.5	N	Benzo(b)fluoranthene	180	180 U	44.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-0.5	N	Benzo(g,h,i)perylene	180	79.0 J	79.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-0.5	N	Benzo(k)fluoranthene	180	180 U	68.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-0.5	N	Chrysene	180	74.0 J	74.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-0.5	N	Di-n-Butyl Phthalate	180	180 U	32.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-0.5	N	Fluoranthene	180	100 J	100 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-0.5	N	Indeno(1,2,3-c,d)pyrene	180	180 U	59.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-0.5	N	Phenanthrene	180	180 U	36.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-0.5	N	Pyrene	180	120 J	120 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-2	N	Benzo(a)pyrene	180	87.0 J	87.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-2	N	Benzo(g,h,i)perylene	180	99.0 J	99.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-2	N	Chrysene	180	86.0 J	86.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-2	N	Fluoranthene	180	120 J	120 J	UG/KG	TR

AUTOMATED DATA REVIEW SUMMARY for Y9E95

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8270D/NONE	SO	SAIA-SB24-2	N	Pyrene	180	150 J	150 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-5	N	Benzo(a)pyrene	200	200 U	24.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-5	N	Benzo(b)fluoranthene	200	200 U	19.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-5	N	Benzo(g,h,i)perylene	200	200 U	42.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-5	N	Benzo(k)fluoranthene	200	200 U	20.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-5	N	bis(2-Ethylhexyl) Phthalate	200	200 U	22.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-5	N	Dibenz(a,h)anthracene	200	200 U	38.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-5	N	Di-n-Butyl Phthalate	200	200 U	24.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-5	N	Indeno(1,2,3-c,d)pyrene	200	200 U	34.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB29-2	N	Benzo(a)anthracene	180	180 U	12.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB29-2	N	bis(2-Ethylhexyl) Phthalate	180	180 U	49.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB29-2	N	Chrysene	180	180 U	16.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB29-2	N	Diethyl Phthalate	180	180 U	17.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB29-2	N	Di-n-Butyl Phthalate	180	180 U	30.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB29-2	N	Fluoranthene	180	180 U	12.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB29-2	N	Pyrene	180	180 U	19.0 J	UG/KG	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8082/NONE	SO	SAIA-SB26-0.5	N	PCB-1260 (Arochlor 1260)	1800	7300 D	7300 J	UG/KG	D5
SW8082/NONE	SO	SAIA-SB26-0.6	FD	PCB-1260 (Arochlor 1260)	690	3000 DP	3000 J	UG/KG	P1/D5
SW8082/NONE	SO	SAIA-SB26-2	N	PCB-1260 (Arochlor 1260)	1800	5700 DP	5700 J	UG/KG	P1
SW8082/NONE	SO	SAIA-SB26-25	N	PCB-1016 (Arochlor 1016)	40.0	2.4 JP	2.4 J	UG/KG	L/TR
SW8082/NONE	SO	SAIA-SB26-25	N	PCB-1260 (Arochlor 1260)	40.0	3.7 J	3.7 J	UG/KG	TR
SW8082/NONE	SO	SAIA-SB26-5	N	PCB-1260 (Arochlor 1260)	35.0	25.0 J	25.0 J	UG/KG	TR
SW8082/NONE	SO	SAIA-SB29-2	N	PCB-1260 (Arochlor 1260)	36.0	10.0 J	10.0 J	UG/KG	TR
SW8082/NONE	SO	SAIA-SB29-5	N	PCB-1260 (Arochlor 1260)	39.0	5.3 J	5.3 J	UG/KG	TR
SW8082/NONE	SO	SAIA-SB29-6	FD	PCB-1260 (Arochlor 1260)	40.0	15.0 JP	15.0 J	UG/KG	TR/P1

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8260B/NONE	SO	SAIA-SB19-25	N	Methylcyclohexane	6.4	1.3 J	1.3 J	UG/KG	S/TR
SW8260B/NONE	SO	SAIA-SB19-25	N	o-Xylene	6.4	1.5 J	1.5 J	UG/KG	S/TR
SW8260B/NONE	SO	SAIA-SB26-0.5	N	1,2,3-Trichlorobenzene	5.2	6.6 B	6.6	UG/KG	
SW8260B/NONE	SO	SAIA-SB26-0.5	N	1,2,4-Trichlorobenzene	5.2	48.0 B	48.0 J	UG/KG	D5
SW8260B/NONE	SO	SAIA-SB29-6	FD	Toluene	5.9	1.2 J	1.2 J	UG/KG	S/TR/B5

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8270D/NONE	SO	SAIA-SB19-15	N	Fluorene	200	98.0 J	98.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB19-25	N	Fluorene	200	220	220	UG/KG	
SW8270D/NONE	SO	SAIA-SB19-6	FD	Di-n-Butyl Phthalate	170	85.0 J	85.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-0.5	N	Benzo(a)anthracene	180	180 U	55.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-0.5	N	Benzo(a)pyrene	180	74.0 J	74.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-0.5	N	Benzo(b)fluoranthene	180	180 U	44.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-0.5	N	Benzo(g,h,i)perylene	180	79.0 J	79.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-0.5	N	Benzo(k)fluoranthene	180	180 U	68.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-0.5	N	Chrysene	180	74.0 J	74.0 J	UG/KG	TR

AUTOMATED DATA REVIEW SUMMARY for Y9E95

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
SW8270D/NONE	SO	SAIA-SB24-0.5	N	Di-n-Butyl Phthalate	180	180 U	32.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-0.5	N	Fluoranthene	180	100 J	100 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-0.5	N	Indeno(1,2,3-c,d)pyrene	180	180 U	59.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-0.5	N	Phenanthrene	180	180 U	36.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-0.5	N	Pyrene	180	120 J	120 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-2	N	Benzo(a)pyrene	180	87.0 J	87.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-2	N	Benzo(g,h,i)perylene	180	99.0 J	99.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-2	N	Chrysene	180	86.0 J	86.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-2	N	Fluoranthene	180	120 J	120 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-2	N	Pyrene	180	150 J	150 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-5	N	bis(2-Ethylhexyl) Phthalate	200	200 U	22.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-5	N	Benzo(a)pyrene	200	200 U	24.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-5	N	Benzo(b)fluoranthene	200	200 U	19.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-5	N	Benzo(g,h,i)perylene	200	200 U	42.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-5	N	Benzo(k)fluoranthene	200	200 U	20.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-5	N	Dibenz(a,h)anthracene	200	200 U	38.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-5	N	Di-n-Butyl Phthalate	200	200 U	24.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB24-5	N	Indeno(1,2,3-c,d)pyrene	200	200 U	34.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB29-2	N	bis(2-Ethylhexyl) Phthalate	180	180 U	49.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB29-2	N	Benzo(a)anthracene	180	180 U	12.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB29-2	N	Chrysene	180	180 U	16.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB29-2	N	Diethyl Phthalate	180	180 U	17.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB29-2	N	Di-n-Butyl Phthalate	180	180 U	30.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB29-2	N	Fluoranthene	180	180 U	12.0 J	UG/KG	TR
SW8270D/NONE	SO	SAIA-SB29-2	N	Pyrene	180	180 U	19.0 J	UG/KG	TR

AUTOMATED DATA REVIEW SUMMARY for Y9E95

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for MY9DP1

Facility: Southern Avenue Industrial Area

Groundwater Sampling Event, March 2014

Guidance Document:

Contract Laboratory: CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ

Field Contractor:

Data Review Contractor: ESAT/ICF

SDG: MY9DP1, Certified - 5/30/2014 by wtse

QC Level: S3VEM

Project Manager: Don Gruber

Data Reviewer: Dina Bailey, ESAT

Data Reviewer Title: Validator

Date of Review Report: July 02, 2014

Second Reviewer: Tom Beer, Gilbane

Completion Date of Second Reviewer: November 17, 2014

Samples Included in SDG MY9DP1

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
CI41CN/NONE	11	4
E200.7/NONE	14	4
E200.8/NONE	14	4
SW7470A/NONE	14	4

AUTOMATED DATA REVIEW SUMMARY for MY9DP1

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by CHEMTECH CONSULTING GROUP, INC., ENGLEWOOD, NJ and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Equipment Blank
- Field Duplicate RPD
- Lab Replicate RPD
- LCS Recovery
- MS Recovery
- Prep Hold Time
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Field Blank
- Initial Calibration Verification
- Material Blank
- MS RPD
- Negative Blank
- Surrogate
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for MY9DP1

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 82 results (19.11%) out of the 429 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

ESAT contractor reviewed Chemtech lab report, COCs, case narrative, and EXES data review package.

No sample receipt issues or calibration anomalies were noted.

Qualifiers were added for field (K1) and lab blank (B2, B5) detects, and minor serial dilution (A), and matrix (M) effects.

02-Jul-2014

Released by Dina Bailey, ESAT, Validator

17-Nov-2014

Released by Tom Beer, Gilbane

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

Batch Report

Test Method: CI41CN; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70354-CC	PB75732	NA	FIELDQC	WQ	SAIA-EL01-0314	F1794-20	LB70354-S0	1/1	27-Mar-2014 12:30 PM	31-Mar-2014 12:00 PM	31-Mar-2014 5:54 PM	EB
	PB75732	NA	FIELDQC	WQ	SAIA-EL02-0314	F1794-09	LB70354-S0	1/1	26-Mar-2014 10:50 AM	31-Mar-2014 12:00 PM	31-Mar-2014 5:47 PM	EB
	PB75732	NA	LABQC	WQ	LABQC	PB75732BL	LB70354-S0	1/1	31-Mar-2014 12:00 PM	31-Mar-2014 12:00 PM	31-Mar-2014 5:47 PM	LB
	PB75732	NA	MW34	WG	MW34-0314	F1794-01	LB70354-S0	1/1	26-Mar-2014 9:06 AM	31-Mar-2014 12:00 PM	31-Mar-2014 5:47 PM	N
	PB75732	NA	MW34	WG	MW934-0314	F1794-02	LB70354-S0	1/1	26-Mar-2014 9:11 AM	31-Mar-2014 12:00 PM	31-Mar-2014 5:47 PM	FD
	PB75732	NA	MW42	WG	MW42-0314	F1794-10	LB70354-S0	1/1	26-Mar-2014 11:55 AM	31-Mar-2014 12:00 PM	31-Mar-2014 5:54 PM	LR
	PB75732	NA	MW42	WG	MW42-0314	F1794-11	LB70354-S0	1/1	26-Mar-2014 11:55 AM	31-Mar-2014 12:00 PM	31-Mar-2014 5:54 PM	MS
	PB75732	NA	MW42	WG	MW42-0314	F1794-04	LB70354-S0	1/1	26-Mar-2014 11:55 AM	31-Mar-2014 12:00 PM	31-Mar-2014 5:47 PM	N
	PB75732	NA	MW43	WG	MW43-0314	F1794-05	LB70354-S0	1/1	26-Mar-2014 9:29 AM	31-Mar-2014 12:00 PM	31-Mar-2014 5:47 PM	N
	PB75732	NA	MW44	WG	MW44-0314	F1794-06	LB70354-S0	1/1	26-Mar-2014 10:17 AM	31-Mar-2014 12:00 PM	31-Mar-2014 5:47 PM	N
	PB75732	NA	SAIA-MW1A	WG	SAIA-MW1A-0314	F1794-12	LB70354-S0	1/1	27-Mar-2014 9:55 AM	31-Mar-2014 12:00 PM	31-Mar-2014 5:54 PM	N
	PB75732	NA	SAIA-MW1B	WG	SAIA-MW1B-0314	F1794-13	LB70354-S0	1/1	27-Mar-2014 9:02 AM	31-Mar-2014 12:00 PM	31-Mar-2014 5:54 PM	N
	PB75732	NA	SAIA-MW1C	WG	SAIA-MW1C-0314	F1794-14	LB70354-S0	1/1	27-Mar-2014 8:05 AM	31-Mar-2014 12:00 PM	31-Mar-2014 5:54 PM	N
	PB75732	NA	SAIA-MW2A	WG	SAIA-MW2A-0314	F1794-15	LB70354-S0	1/1	27-Mar-2014 10:02 AM	31-Mar-2014 12:00 PM	31-Mar-2014 5:54 PM	N
	PB75732	NA	SAIA-MW2B	WG	SAIA-MW2B-0314	F1794-16	LB70354-S0	1/1	27-Mar-2014 9:08 AM	31-Mar-2014 12:00 PM	31-Mar-2014 5:54 PM	N
	PB75732	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	F1794-17	LB70354-S0	1/1	27-Mar-2014 7:58 AM	31-Mar-2014 12:00 PM	31-Mar-2014 5:54 PM	N
	PB75732	NA	SAIA-MW7	WG	SAIA-MW7-0314	F1794-18	LB70354-S0	1/1	27-Mar-2014 11:35 AM	31-Mar-2014 12:00 PM	31-Mar-2014 5:54 PM	N
	PB75732	NA	SAIA-MW7	WG	SAIA-MW97-0314	F1794-19	LB70354-S0	1/1	27-Mar-2014 11:40 AM	31-Mar-2014 12:00 PM	31-Mar-2014 5:54 PM	FD

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70358-CC	PB75743	NA	FIELDQC	WQ	SAIA-EL01-0314	F1794-20	LB70358-S0	1/1	27-Mar-2014 12:30 PM	31-Mar-2014 12:00 PM	31-Mar-2014 2:26 PM	EB

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70358-CC	PB75743	NA	FIELDQC	WQ	SAIA-EL02-0314	F1794-09	LB70358-S0	1/1	26-Mar-2014 10:50 AM	31-Mar-2014 12:00 PM	31-Mar-2014 1:30 PM	EB
	PB75743	NA	LABQC	WQ	LABQC	PB75743BS	LB70358-S0	1/1	31-Mar-2014 12:00 PM	31-Mar-2014 12:00 PM	31-Mar-2014 12:25 PM	BS
	PB75743	NA	LABQC	WQ	LABQC	PB75743BL	LB70358-S0	1/1	31-Mar-2014 12:00 PM	31-Mar-2014 12:00 PM	31-Mar-2014 12:21 PM	LB
	PB75743	NA	MW34	WG	MW34-0314	F1794-01	LB70358-S0	1/1	26-Mar-2014 9:06 AM	31-Mar-2014 12:00 PM	31-Mar-2014 12:57 PM	N
	PB75743	NA	MW34	WG	MW934-0314	F1794-02	LB70358-S0	1/1	26-Mar-2014 9:11 AM	31-Mar-2014 12:00 PM	31-Mar-2014 1:01 PM	FD
	PB75743	NA	MW35	WG	MW35-0314	F1794-03	LB70358-S0	1/1	26-Mar-2014 10:15 AM	31-Mar-2014 12:00 PM	31-Mar-2014 1:05 PM	N
	PB75743	NA	MW35	WG	MW35-0314	F1794-03	LB70358-S0	1/10	26-Mar-2014 10:15 AM	31-Mar-2014 12:00 PM	31-Mar-2014 2:31 PM	N
	PB75743	NA	MW42	WG	MW42-0314	F1794-10	LB70358-S0	1/1	26-Mar-2014 11:55 AM	31-Mar-2014 12:00 PM	31-Mar-2014 1:34 PM	LR
	PB75743	NA	MW42	WG	MW42-0314	F1794-11	LB70358-S0	1/1	26-Mar-2014 11:55 AM	31-Mar-2014 12:00 PM	31-Mar-2014 1:38 PM	MS
	PB75743	NA	MW42	WG	MW42-0314	F1794-04	LB70358-S0	1/1	26-Mar-2014 11:55 AM	31-Mar-2014 12:00 PM	31-Mar-2014 1:09 PM	N
	PB75743	NA	MW43	WG	MW43-0314	F1794-05	LB70358-S0	1/1	26-Mar-2014 9:29 AM	31-Mar-2014 12:00 PM	31-Mar-2014 1:13 PM	N
	PB75743	NA	MW44	WG	MW44-0314	F1794-06	LB70358-S0	1/1	26-Mar-2014 10:17 AM	31-Mar-2014 12:00 PM	31-Mar-2014 1:17 PM	N
	PB75743	NA	MW44	WG	MW44-0314	F1794-06	LB70358-S0	1/10	26-Mar-2014 10:17 AM	31-Mar-2014 12:00 PM	31-Mar-2014 2:35 PM	N
	PB75743	NA	MW49	WG	MW49-0314	F1794-07	LB70358-S0	1/1	26-Mar-2014 7:57 AM	31-Mar-2014 12:00 PM	31-Mar-2014 1:21 PM	N
	PB75743	NA	MW56	WG	MW56-0314	F1794-08	LB70358-S0	1/1	26-Mar-2014 8:03 AM	31-Mar-2014 12:00 PM	31-Mar-2014 1:25 PM	N
	PB75743	NA	SAIA-MW1A	WG	SAIA-MW1A-0314	F1794-12	LB70358-S0	1/1	27-Mar-2014 9:55 AM	31-Mar-2014 12:00 PM	31-Mar-2014 1:54 PM	N
	PB75743	NA	SAIA-MW1B	WG	SAIA-MW1B-0314	F1794-13	LB70358-S0	1/1	27-Mar-2014 9:02 AM	31-Mar-2014 12:00 PM	31-Mar-2014 1:58 PM	N
	PB75743	NA	SAIA-MW1C	WG	SAIA-MW1C-0314	F1794-14	LB70358-S0	1/1	27-Mar-2014 8:05 AM	31-Mar-2014 12:00 PM	31-Mar-2014 2:02 PM	N
	PB75743	NA	SAIA-MW1C	WG	SAIA-MW1C-0314	F1794-14	LB70358-S0	1/10	27-Mar-2014 8:05 AM	31-Mar-2014 12:00 PM	31-Mar-2014 2:39 PM	N
	PB75743	NA	SAIA-MW2A	WG	SAIA-MW2A-0314	F1794-15	LB70358-S0	1/1	27-Mar-2014 10:02 AM	31-Mar-2014 12:00 PM	31-Mar-2014 2:06 PM	N
	PB75743	NA	SAIA-MW2B	WG	SAIA-MW2B-0314	F1794-16	LB70358-S0	1/1	27-Mar-2014 9:08 AM	31-Mar-2014 12:00 PM	31-Mar-2014 2:10 PM	N
	PB75743	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	F1794-17	LB70358-S0	1/1	27-Mar-2014 7:58 AM	31-Mar-2014 12:00 PM	31-Mar-2014 2:14 PM	N

Batch Report

Test Method: E200.7; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70358-CC	PB75743	NA	SAIA-MW7	WG	SAIA-MW7-0314	F1794-18	LB70358-S0	1/1	27-Mar-2014 11:35 AM	31-Mar-2014 12:00 PM	31-Mar-2014 2:18 PM	N
	PB75743	NA	SAIA-MW7	WG	SAIA-MW97-0314	F1794-19	LB70358-S0	1/1	27-Mar-2014 11:40 AM	31-Mar-2014 12:00 PM	31-Mar-2014 2:22 PM	FD

Test Method: E200.8; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70435-CC	PB75742	NA	FIELDQC	WQ	SAIA-EL01-0314	F1794-20	LB70435-S0	1/1	27-Mar-2014 12:30 PM	31-Mar-2014 12:00 PM	04-Apr-2014 12:51 AM	EB
	PB75742	NA	FIELDQC	WQ	SAIA-EL02-0314	F1794-09	LB70435-S0	1/1	26-Mar-2014 10:50 AM	31-Mar-2014 12:00 PM	03-Apr-2014 8:41 PM	EB
	PB75742	NA	LABQC	WQ	LABQC	PB75742BS	LB70435-S0	1/1	31-Mar-2014 12:00 PM	31-Mar-2014 12:00 PM	03-Apr-2014 6:03 PM	BS
	PB75742	NA	LABQC	WQ	LABQC	PB75742BL	LB70435-S0	1/1	31-Mar-2014 12:00 PM	31-Mar-2014 12:00 PM	03-Apr-2014 5:55 PM	LB
	PB75742	NA	MW34	WG	MW34-0314	F1794-01	LB70435-S0	1/1	26-Mar-2014 9:06 AM	31-Mar-2014 12:00 PM	03-Apr-2014 6:10 PM	N
	PB75742	NA	MW34	WG	MW934-0314	F1794-02	LB70435-S0	1/1	26-Mar-2014 9:11 AM	31-Mar-2014 12:00 PM	03-Apr-2014 6:26 PM	FD
	PB75742	NA	MW35	WG	MW35-0314	F1794-03	LB70435-S0	1/1	26-Mar-2014 10:15 AM	31-Mar-2014 12:00 PM	03-Apr-2014 6:41 PM	N
	PB75742	NA	MW35	WG	MW35-0314	F1794-03	LB70435-S0	1/25	26-Mar-2014 10:15 AM	31-Mar-2014 12:00 PM	03-Apr-2014 6:49 PM	N
	PB75742	NA	MW42	WG	MW42-0314	F1794-10	LB70435-S0	1/1	26-Mar-2014 11:55 AM	31-Mar-2014 12:00 PM	03-Apr-2014 9:18 PM	LR
	PB75742	NA	MW42	WG	MW42-0314	F1794-10	LB70435-S0	1/2	26-Mar-2014 11:55 AM	31-Mar-2014 12:00 PM	04-Apr-2014 3:42 PM	LR
	PB75742	NA	MW42	WG	MW42-0314	F1794-11	LB70435-S0	1/1	26-Mar-2014 11:55 AM	31-Mar-2014 12:00 PM	03-Apr-2014 9:48 PM	MS
	PB75742	NA	MW42	WG	MW42-0314	F1794-11	LB70435-S0	1/2	26-Mar-2014 11:55 AM	31-Mar-2014 12:00 PM	04-Apr-2014 3:49 PM	MS
	PB75742	NA	MW42	WG	MW42-0314	F1794-04	LB70435-S0	1/1	26-Mar-2014 11:55 AM	31-Mar-2014 12:00 PM	03-Apr-2014 6:56 PM	N
	PB75742	NA	MW42	WG	MW42-0314	F1794-04	LB70435-S0	1/2	26-Mar-2014 11:55 AM	31-Mar-2014 12:00 PM	04-Apr-2014 3:04 PM	N
	PB75742	NA	MW43	WG	MW43-0314	F1794-05	LB70435-S0	1/1	26-Mar-2014 9:29 AM	31-Mar-2014 12:00 PM	03-Apr-2014 7:40 PM	N
	PB75742	NA	MW43	WG	MW43-0314	F1794-05	LB70435-S0	1/2	26-Mar-2014 9:29 AM	31-Mar-2014 12:00 PM	04-Apr-2014 3:11 PM	N
	PB75742	NA	MW44	WG	MW44-0314	F1794-06	LB70435-S0	1/1	26-Mar-2014 10:17 AM	31-Mar-2014 12:00 PM	03-Apr-2014 7:55 PM	N

AUTOMATED DATA REVIEW SUMMARY for MY9DP1

Batch Report

Test Method: E200.8; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70435-CC	PB75742	NA	MW44	WG	MW44-0314	F1794-06	LB70435-S0	1/25	26-Mar-2014 10:17 AM	31-Mar-2014 12:00 PM	03-Apr-2014 8:03 PM	N
	PB75742	NA	MW44	WG	MW44-0314	F1794-06	LB70435-S0	1/2	26-Mar-2014 10:17 AM	31-Mar-2014 12:00 PM	04-Apr-2014 3:19 PM	N
	PB75742	NA	MW49	WG	MW49-0314	F1794-07	LB70435-S0	1/1	26-Mar-2014 7:57 AM	31-Mar-2014 12:00 PM	03-Apr-2014 8:10 PM	N
	PB75742	NA	MW49	WG	MW49-0314	F1794-07	LB70435-S0	1/25	26-Mar-2014 7:57 AM	31-Mar-2014 12:00 PM	03-Apr-2014 8:18 PM	N
	PB75742	NA	MW49	WG	MW49-0314	F1794-07	LB70435-S0	1/2	26-Mar-2014 7:57 AM	31-Mar-2014 12:00 PM	04-Apr-2014 3:26 PM	N
	PB75742	NA	MW56	WG	MW56-0314	F1794-08	LB70435-S0	1/1	26-Mar-2014 8:03 AM	31-Mar-2014 12:00 PM	03-Apr-2014 8:26 PM	N
	PB75742	NA	MW56	WG	MW56-0314	F1794-08	LB70435-S0	1/2	26-Mar-2014 8:03 AM	31-Mar-2014 12:00 PM	04-Apr-2014 3:34 PM	N
	PB75742	NA	SAIA-MW1A	WG	SAIA-MW1A-0314	F1794-12	LB70435-S0	1/1	27-Mar-2014 9:55 AM	31-Mar-2014 12:00 PM	03-Apr-2014 10:03 PM	N
	PB75742	NA	SAIA-MW1A	WG	SAIA-MW1A-0314	F1794-12	LB70435-S0	1/2	27-Mar-2014 9:55 AM	31-Mar-2014 12:00 PM	04-Apr-2014 4:05 PM	N
	PB75742	NA	SAIA-MW1B	WG	SAIA-MW1B-0314	F1794-13	LB70435-S0	1/1	27-Mar-2014 9:02 AM	31-Mar-2014 12:00 PM	03-Apr-2014 10:19 PM	N
	PB75742	NA	SAIA-MW1B	WG	SAIA-MW1B-0314	F1794-13	LB70435-S0	1/2	27-Mar-2014 9:02 AM	31-Mar-2014 12:00 PM	04-Apr-2014 4:12 PM	N
	PB75742	NA	SAIA-MW1C	WG	SAIA-MW1C-0314	F1794-14	LB70435-S0	1/1	27-Mar-2014 8:05 AM	31-Mar-2014 12:00 PM	03-Apr-2014 10:57 PM	N
	PB75742	NA	SAIA-MW1C	WG	SAIA-MW1C-0314	F1794-14	LB70435-S0	1/2	27-Mar-2014 8:05 AM	31-Mar-2014 12:00 PM	04-Apr-2014 4:35 PM	N
	PB75742	NA	SAIA-MW2A	WG	SAIA-MW2A-0314	F1794-15	LB70435-S0	1/1	27-Mar-2014 10:02 AM	31-Mar-2014 12:00 PM	03-Apr-2014 11:12 PM	N
	PB75742	NA	SAIA-MW2A	WG	SAIA-MW2A-0314	F1794-15	LB70435-S0	1/2	27-Mar-2014 10:02 AM	31-Mar-2014 12:00 PM	04-Apr-2014 4:43 PM	N
	PB75742	NA	SAIA-MW2B	WG	SAIA-MW2B-0314	F1794-16	LB70435-S0	1/1	27-Mar-2014 9:08 AM	31-Mar-2014 12:00 PM	03-Apr-2014 11:27 PM	N
	PB75742	NA	SAIA-MW2B	WG	SAIA-MW2B-0314	F1794-16	LB70435-S0	1/2	27-Mar-2014 9:08 AM	31-Mar-2014 12:00 PM	04-Apr-2014 4:51 PM	N
	PB75742	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	F1794-17	LB70435-S0	1/1	27-Mar-2014 7:58 AM	31-Mar-2014 12:00 PM	03-Apr-2014 11:43 PM	N
	PB75742	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	F1794-17	LB70435-S0	1/2	27-Mar-2014 7:58 AM	31-Mar-2014 12:00 PM	04-Apr-2014 4:58 PM	N
	PB75742	NA	SAIA-MW7	WG	SAIA-MW7-0314	F1794-18	LB70435-S0	1/1	27-Mar-2014 11:35 AM	31-Mar-2014 12:00 PM	03-Apr-2014 11:58 PM	N
	PB75742	NA	SAIA-MW7	WG	SAIA-MW7-0314	F1794-18	LB70435-S0	1/2	27-Mar-2014 11:35 AM	31-Mar-2014 12:00 PM	04-Apr-2014 5:06 PM	N
	PB75742	NA	SAIA-MW7	WG	SAIA-MW97-0314	F1794-19	LB70435-S0	1/1	27-Mar-2014 11:40 AM	31-Mar-2014 12:00 PM	04-Apr-2014 12:36 AM	FD

Batch Report

Test Method: E200.8; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70435-CC	PB75742	NA	SAIA-MW7	WG	SAIA-MW97-0314	F1794-19	LB70435-S0	1/25	27-Mar-2014 11:40 AM	31-Mar-2014 12:00 PM	04-Apr-2014 12:43 AM	FD

AUTOMATED DATA REVIEW SUMMARY for MY9DP1

Batch Report

Test Method: SW7470A; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
LB70356-CC	PB75748	NA	FIELDQC	WQ	SAIA-EL01-0314	F1794-20	LB70356-S0	1/1	27-Mar-2014 12:30 PM	31-Mar-2014 12:00 PM	31-Mar-2014 7:18 PM	EB
	PB75748	NA	FIELDQC	WQ	SAIA-EL02-0314	F1794-09	LB70356-S0	1/1	26-Mar-2014 10:50 AM	31-Mar-2014 12:00 PM	31-Mar-2014 6:55 PM	EB
	PB75748	NA	LABQC	WQ	LABQC	PB75748BL	LB70356-S0	1/1	31-Mar-2014 12:00 PM	31-Mar-2014 12:00 PM	31-Mar-2014 6:31 PM	LB
	PB75748	NA	MW34	WG	MW34-0314	F1794-01	LB70356-S0	1/1	26-Mar-2014 9:06 AM	31-Mar-2014 12:00 PM	31-Mar-2014 6:33 PM	N
	PB75748	NA	MW34	WG	MW934-0314	F1794-02	LB70356-S0	1/1	26-Mar-2014 9:11 AM	31-Mar-2014 12:00 PM	31-Mar-2014 6:36 PM	FD
	PB75748	NA	MW35	WG	MW35-0314	F1794-03	LB70356-S0	1/1	26-Mar-2014 10:15 AM	31-Mar-2014 12:00 PM	31-Mar-2014 6:38 PM	N
	PB75748	NA	MW42	WG	MW42-0314	F1794-10	LB70356-S0	1/1	26-Mar-2014 11:55 AM	31-Mar-2014 12:00 PM	31-Mar-2014 6:57 PM	LR
	PB75748	NA	MW42	WG	MW42-0314	F1794-11	LB70356-S0	1/1	26-Mar-2014 11:55 AM	31-Mar-2014 12:00 PM	31-Mar-2014 6:59 PM	MS
	PB75748	NA	MW42	WG	MW42-0314	F1794-04	LB70356-S0	1/1	26-Mar-2014 11:55 AM	31-Mar-2014 12:00 PM	31-Mar-2014 6:40 PM	N
	PB75748	NA	MW43	WG	MW43-0314	F1794-05	LB70356-S0	1/1	26-Mar-2014 9:29 AM	31-Mar-2014 12:00 PM	31-Mar-2014 6:42 PM	N
	PB75748	NA	MW44	WG	MW44-0314	F1794-06	LB70356-S0	1/1	26-Mar-2014 10:17 AM	31-Mar-2014 12:00 PM	31-Mar-2014 6:48 PM	N
	PB75748	NA	MW49	WG	MW49-0314	F1794-07	LB70356-S0	1/1	26-Mar-2014 7:57 AM	31-Mar-2014 12:00 PM	31-Mar-2014 6:51 PM	N
	PB75748	NA	MW56	WG	MW56-0314	F1794-08	LB70356-S0	1/1	26-Mar-2014 8:03 AM	31-Mar-2014 12:00 PM	31-Mar-2014 6:53 PM	N
	PB75748	NA	SAIA-MW1A	WG	SAIA-MW1A-0314	F1794-12	LB70356-S0	1/1	27-Mar-2014 9:55 AM	31-Mar-2014 12:00 PM	31-Mar-2014 7:01 PM	N
	PB75748	NA	SAIA-MW1B	WG	SAIA-MW1B-0314	F1794-13	LB70356-S0	1/1	27-Mar-2014 9:02 AM	31-Mar-2014 12:00 PM	31-Mar-2014 7:03 PM	N
	PB75748	NA	SAIA-MW1C	WG	SAIA-MW1C-0314	F1794-14	LB70356-S0	1/1	27-Mar-2014 8:05 AM	31-Mar-2014 12:00 PM	31-Mar-2014 7:05 PM	N
	PB75748	NA	SAIA-MW2A	WG	SAIA-MW2A-0314	F1794-15	LB70356-S0	1/1	27-Mar-2014 10:02 AM	31-Mar-2014 12:00 PM	31-Mar-2014 7:07 PM	N
	PB75748	NA	SAIA-MW2B	WG	SAIA-MW2B-0314	F1794-16	LB70356-S0	1/1	27-Mar-2014 9:08 AM	31-Mar-2014 12:00 PM	31-Mar-2014 7:10 PM	N
	PB75748	NA	SAIA-MW2C	WG	SAIA-MW2C-0314	F1794-17	LB70356-S0	1/1	27-Mar-2014 7:58 AM	31-Mar-2014 12:00 PM	31-Mar-2014 7:12 PM	N
	PB75748	NA	SAIA-MW7	WG	SAIA-MW7-0314	F1794-18	LB70356-S0	1/1	27-Mar-2014 11:35 AM	31-Mar-2014 12:00 PM	31-Mar-2014 7:14 PM	N
	PB75748	NA	SAIA-MW7	WG	SAIA-MW97-0314	F1794-19	LB70356-S0	1/1	27-Mar-2014 11:40 AM	31-Mar-2014 12:00 PM	31-Mar-2014 7:16 PM	FD

Field Batch Report

Test Method: CI41CN		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
27031401			FIELDQC	WQ	SAIA-EL01-0314	F1794-20	3/27/2014 12:30:00 PM	EB
27031401			SAIA-MW1A	WG	SAIA-MW1A-0314	F1794-12	3/27/2014 9:55:00 AM	N
27031401			SAIA-MW1B	WG	SAIA-MW1B-0314	F1794-13	3/27/2014 9:02:00 AM	N
27031401			SAIA-MW1C	WG	SAIA-MW1C-0314	F1794-14	3/27/2014 8:05:00 AM	N
27031401			SAIA-MW2A	WG	SAIA-MW2A-0314	F1794-15	3/27/2014 10:02:00 AM	N
27031401			SAIA-MW2B	WG	SAIA-MW2B-0314	F1794-16	3/27/2014 9:08:00 AM	N
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	F1794-17	3/27/2014 7:58:00 AM	N
27031401			SAIA-MW7	WG	SAIA-MW7-0314	F1794-18	3/27/2014 11:35:00 AM	N
27031401			SAIA-MW7	WG	SAIA-MW97-0314	F1794-19	3/27/2014 11:40:00 AM	FD

Test Method: E200.7		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
27031401			FIELDQC	WQ	SAIA-EL01-0314	F1794-20	3/27/2014 12:30:00 PM	EB
27031401			SAIA-MW1A	WG	SAIA-MW1A-0314	F1794-12	3/27/2014 9:55:00 AM	N
27031401			SAIA-MW1B	WG	SAIA-MW1B-0314	F1794-13	3/27/2014 9:02:00 AM	N
27031401			SAIA-MW1C	WG	SAIA-MW1C-0314	F1794-14	3/27/2014 8:05:00 AM	N
27031401			SAIA-MW2A	WG	SAIA-MW2A-0314	F1794-15	3/27/2014 10:02:00 AM	N
27031401			SAIA-MW2B	WG	SAIA-MW2B-0314	F1794-16	3/27/2014 9:08:00 AM	N
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	F1794-17	3/27/2014 7:58:00 AM	N
27031401			SAIA-MW7	WG	SAIA-MW7-0314	F1794-18	3/27/2014 11:35:00 AM	N
27031401			SAIA-MW7	WG	SAIA-MW97-0314	F1794-19	3/27/2014 11:40:00 AM	FD

Test Method: E200.8		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
27031401			FIELDQC	WQ	SAIA-EL01-0314	F1794-20	3/27/2014 12:30:00 PM	EB
27031401			SAIA-MW1A	WG	SAIA-MW1A-0314	F1794-12	3/27/2014 9:55:00 AM	N

Field Batch Report

Test Method: E200.8		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
27031401			SAIA-MW1B	WG	SAIA-MW1B-0314	F1794-13	3/27/2014 9:02:00 AM	N
27031401			SAIA-MW1C	WG	SAIA-MW1C-0314	F1794-14	3/27/2014 8:05:00 AM	N
27031401			SAIA-MW2A	WG	SAIA-MW2A-0314	F1794-15	3/27/2014 10:02:00 AM	N
27031401			SAIA-MW2B	WG	SAIA-MW2B-0314	F1794-16	3/27/2014 9:08:00 AM	N
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	F1794-17	3/27/2014 7:58:00 AM	N
27031401			SAIA-MW7	WG	SAIA-MW7-0314	F1794-18	3/27/2014 11:35:00 AM	N
27031401			SAIA-MW7	WG	SAIA-MW97-0314	F1794-19	3/27/2014 11:40:00 AM	FD
Test Method: SW7470A		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
27031401			FIELDQC	WQ	SAIA-EL01-0314	F1794-20	3/27/2014 12:30:00 PM	EB
27031401			SAIA-MW1A	WG	SAIA-MW1A-0314	F1794-12	3/27/2014 9:55:00 AM	N
27031401			SAIA-MW1B	WG	SAIA-MW1B-0314	F1794-13	3/27/2014 9:02:00 AM	N
27031401			SAIA-MW1C	WG	SAIA-MW1C-0314	F1794-14	3/27/2014 8:05:00 AM	N
27031401			SAIA-MW2A	WG	SAIA-MW2A-0314	F1794-15	3/27/2014 10:02:00 AM	N
27031401			SAIA-MW2B	WG	SAIA-MW2B-0314	F1794-16	3/27/2014 9:08:00 AM	N
27031401			SAIA-MW2C	WG	SAIA-MW2C-0314	F1794-17	3/27/2014 7:58:00 AM	N
27031401			SAIA-MW7	WG	SAIA-MW7-0314	F1794-18	3/27/2014 11:35:00 AM	N
27031401			SAIA-MW7	WG	SAIA-MW97-0314	F1794-19	3/27/2014 11:40:00 AM	FD
Test Method: CI41CN		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
26031401			FIELDQC	WQ	SAIA-EL02-0314	F1794-09	3/26/2014 10:50:00 AM	EB
26031401			MW34	WG	MW34-0314	F1794-01	3/26/2014 9:06:00 AM	N
26031401			MW34	WG	MW934-0314	F1794-02	3/26/2014 9:11:00 AM	FD
26031401			MW42	WG	MW42-0314	F1794-04	3/26/2014 11:55:00 AM	N

Field Batch Report

Test Method: CI41CN		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
26031401			MW42	WG	MW42-0314	F1794-10	3/26/2014 11:55:00 AM	LR
26031401			MW42	WG	MW42-0314	F1794-11	3/26/2014 11:55:00 AM	MS
26031401			MW43	WG	MW43-0314	F1794-05	3/26/2014 9:29:00 AM	N
26031401			MW44	WG	MW44-0314	F1794-06	3/26/2014 10:17:00 AM	N

Test Method: E200.7		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
26031401			FIELDQC	WQ	SAIA-EL02-0314	F1794-09	3/26/2014 10:50:00 AM	EB
26031401			MW34	WG	MW34-0314	F1794-01	3/26/2014 9:06:00 AM	N
26031401			MW34	WG	MW934-0314	F1794-02	3/26/2014 9:11:00 AM	FD
26031401			MW35	WG	MW35-0314	F1794-03	3/26/2014 10:15:00 AM	N
26031401			MW42	WG	MW42-0314	F1794-04	3/26/2014 11:55:00 AM	N
26031401			MW42	WG	MW42-0314	F1794-10	3/26/2014 11:55:00 AM	LR
26031401			MW42	WG	MW42-0314	F1794-11	3/26/2014 11:55:00 AM	MS
26031401			MW43	WG	MW43-0314	F1794-05	3/26/2014 9:29:00 AM	N
26031401			MW44	WG	MW44-0314	F1794-06	3/26/2014 10:17:00 AM	N
26031401			MW49	WG	MW49-0314	F1794-07	3/26/2014 7:57:00 AM	N
26031401			MW56	WG	MW56-0314	F1794-08	3/26/2014 8:03:00 AM	N

Test Method: E200.8		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
26031401			FIELDQC	WQ	SAIA-EL02-0314	F1794-09	3/26/2014 10:50:00 AM	EB
26031401			MW34	WG	MW34-0314	F1794-01	3/26/2014 9:06:00 AM	N
26031401			MW34	WG	MW934-0314	F1794-02	3/26/2014 9:11:00 AM	FD
26031401			MW35	WG	MW35-0314	F1794-03	3/26/2014 10:15:00 AM	N
26031401			MW42	WG	MW42-0314	F1794-04	3/26/2014 11:55:00 AM	N

Field Batch Report

Test Method: E200.8		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
26031401			MW42	WG	MW42-0314	F1794-10	3/26/2014 11:55:00 AM	LR
26031401			MW42	WG	MW42-0314	F1794-11	3/26/2014 11:55:00 AM	MS
26031401			MW43	WG	MW43-0314	F1794-05	3/26/2014 9:29:00 AM	N
26031401			MW44	WG	MW44-0314	F1794-06	3/26/2014 10:17:00 AM	N
26031401			MW49	WG	MW49-0314	F1794-07	3/26/2014 7:57:00 AM	N
26031401			MW56	WG	MW56-0314	F1794-08	3/26/2014 8:03:00 AM	N

Test Method: SW7470A		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
26031401			FIELDQC	WQ	SAIA-EL02-0314	F1794-09	3/26/2014 10:50:00 AM	EB
26031401			MW34	WG	MW34-0314	F1794-01	3/26/2014 9:06:00 AM	N
26031401			MW34	WG	MW934-0314	F1794-02	3/26/2014 9:11:00 AM	FD
26031401			MW35	WG	MW35-0314	F1794-03	3/26/2014 10:15:00 AM	N
26031401			MW42	WG	MW42-0314	F1794-04	3/26/2014 11:55:00 AM	N
26031401			MW42	WG	MW42-0314	F1794-10	3/26/2014 11:55:00 AM	LR
26031401			MW42	WG	MW42-0314	F1794-11	3/26/2014 11:55:00 AM	MS
26031401			MW43	WG	MW43-0314	F1794-05	3/26/2014 9:29:00 AM	N
26031401			MW44	WG	MW44-0314	F1794-06	3/26/2014 10:17:00 AM	N
26031401			MW49	WG	MW49-0314	F1794-07	3/26/2014 7:57:00 AM	N
26031401			MW56	WG	MW56-0314	F1794-08	3/26/2014 8:03:00 AM	N

AUTOMATED DATA REVIEW SUMMARY for MY9DP1

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CI41CN / SW9010C	MS Recovery	MW42-0314 (MS)	1 / 1.00	Cyanide	75.5	PERCENT	J/UJ	80 - 120	50 - 130	M			
E200.7 / METHOD	Equipment Blank	SAIA-EL01-0314 (EB)	1 / 1.00	Calcium	271	ug/L	U/None	< 59.9	< 5000	K1			
E200.7 / METHOD	Equipment Blank	SAIA-EL02-0314 (EB)	1 / 1.00	Calcium	388	ug/L	U/None	< 59.9	< 5000	K1			
E200.7 / METHOD	Equipment Blank	SAIA-EL02-0314 (EB)	1 / 1.00	Magnesium	85.2	ug/L	U/None	< 63.2	< 5000	K1			
E200.7 / METHOD	LCS Recovery	PB75743BS (BS)	1 / 1.00	Iron	123	PERCENT	J/None	85 - 115	50 - 125	L			
E200.7 / METHOD	MS Recovery	MW42-0314 (MS)	1 / 1.00	Iron	-1420	PERCENT	J/R	70 - 130	50 - 140	M	Spike amount Insignificant	4.00	
E200.8 / METHOD	Blank - Negative	PB75742BL (LB)	1 / 1.00	Beryllium	-0.170	ug/L	J/UJ	< 0.063	< 1	L1			
E200.8 / METHOD	Blank - Negative	PB75742BL (LB)	1 / 1.00	Vanadium	-0.220	ug/L	J/UJ	< 0.062	< 5	L1			
E200.8 / METHOD	Blank - Negative	PB75742BL (LB)	1 / 1.00	Zinc	-0.130	ug/L	J/UJ	< 0.13	< 2	L1			
E200.8 / METHOD	Equipment Blank	SAIA-EL01-0314 (EB)	1 / 1.00	Barium	0.200	ug/L	U/None	< 0.15	< 10	K1			
E200.8 / METHOD	Equipment Blank	SAIA-EL01-0314 (EB)	1 / 1.00	Chromium	2.80	ug/L	U/None	< 0.053	< 2	K1			
E200.8 / METHOD	Equipment Blank	SAIA-EL01-0314 (EB)	1 / 1.00	Cobalt	0.300	ug/L	U/None	< 0.05	< 1	K1			
E200.8 / METHOD	Equipment Blank	SAIA-EL01-0314 (EB)	1 / 1.00	Lead	0.190	ug/L	U/None	< 0.062	< 1	K1			
E200.8 / METHOD	Equipment Blank	SAIA-EL01-0314 (EB)	1 / 1.00	Manganese	4.00	ug/L	U/None	< 0.12	< 1	K1	Blank is over 3X RL		
E200.8 / METHOD	Equipment Blank	SAIA-EL01-0314 (EB)	1 / 1.00	Nickel	15.7	ug/L	U/None	< 0.047	< 1	K1	Blank is over 3X RL		
E200.8 / METHOD	Equipment Blank	SAIA-EL01-0314 (EB)	1 / 1.00	Silver	0.0490	ug/L	U/None	< 0.044	< 1	K1			
E200.8 / METHOD	Equipment Blank	SAIA-EL01-0314 (EB)	1 / 1.00	Zinc	3.10	ug/L	U/None	< 0.13	< 2	K1			
E200.8 / METHOD	Equipment Blank	SAIA-EL02-0314 (EB)	1 / 1.00	Barium	0.270	ug/L	U/None	< 0.15	< 10	K1			
E200.8 / METHOD	Equipment Blank	SAIA-EL02-0314 (EB)	1 / 1.00	Chromium	2.80	ug/L	U/None	< 0.053	< 2	K1			
E200.8 / METHOD	Equipment Blank	SAIA-EL02-0314 (EB)	1 / 1.00	Lead	0.250	ug/L	U/None	< 0.062	< 1	K1			
E200.8 / METHOD	Equipment Blank	SAIA-EL02-0314 (EB)	1 / 1.00	Manganese	0.960	ug/L	U/None	< 0.12	< 1	K1			
E200.8 / METHOD	Equipment Blank	SAIA-EL02-0314 (EB)	1 / 1.00	Nickel	1.50	ug/L	U/None	< 0.047	< 1	K1			

AUTOMATED DATA REVIEW SUMMARY for MY9DP1

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
E200.8 / METHOD	Equipment Blank	SAIA-EL02-0314 (EB)	1 / 1.00	Zinc	4.10	ug/L	U/None	< 0.13	< 2	K1			
E200.8 / METHOD	MS Recovery	MW42-0314 (MS)	1 / 1.00	Antimony	62.8	PERCENT	J/UJ	70 - 130	50 - 140	M			

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CI41CN/NONE	WG	MW34-0314	N	Cyanide	10.0	10.0 J	10.0 U	ug/L	B2
CI41CN/NONE	WG	MW42-0314	N	Cyanide	10.0	10.0 J	10.0 U	ug/L	B2
CI41CN/NONE	WG	MW43-0314	N	Cyanide	10.0	10.0 J	10.0 U	ug/L	B2
CI41CN/NONE	WG	MW44-0314	N	Cyanide	10.0	10.0 J	10.0 U	ug/L	B2
CI41CN/NONE	WG	MW934-0314	FD	Cyanide	10.0	10.0 J	10.0 U	ug/L	B2
CI41CN/NONE	WQ	SAIA-EL02-0314	EB	Cyanide	10.0	10.0 J	10.0 U	ug/L	B2
CI41CN/NONE	WG	SAIA-MW1A-0314	N	Cyanide	10.0	10.0 J	10.0 U	ug/L	B2
CI41CN/NONE	WG	SAIA-MW2A-0314	N	Cyanide	10.0	10.0 J	10.0 U	ug/L	B2
CI41CN/NONE	WG	SAIA-MW2B-0314	N	Cyanide	10.0	10.0 J	10.0 U	ug/L	B2
CI41CN/NONE	WG	SAIA-MW2C-0314	N	Cyanide	10.0	10.0 J	10.0 U	ug/L	B2
CI41CN/NONE	WG	SAIA-MW7-0314	N	Cyanide	10.0	10.0 J	10.0 U	ug/L	B2

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	WG	MW34-0314	N	Potassium	5000	5000 JE	5000 U	ug/L	B2
E200.7/NONE	WG	MW56-0314	N	Potassium	5000	5000 JE	5000 U	ug/L	B2
E200.7/NONE	WG	MW934-0314	FD	Potassium	5000	5000 JE	5000 U	ug/L	B2
E200.7/NONE	WQ	SAIA-EL01-0314	EB	Calcium	5000	271 J	271 J	ug/L	TR
E200.7/NONE	WQ	SAIA-EL01-0314	EB	Sodium	5000	5000 J	5000 U	ug/L	B2
E200.7/NONE	WQ	SAIA-EL02-0314	EB	Calcium	5000	388 J	388 J	ug/L	TR
E200.7/NONE	WQ	SAIA-EL02-0314	EB	Magnesium	5000	85.2 J	85.2 J	ug/L	TR
E200.7/NONE	WQ	SAIA-EL02-0314	EB	Sodium	5000	5000 J	5000 U	ug/L	B2
E200.7/NONE	WG	SAIA-MW1A-0314	N	Potassium	5000	7630 E	7630 J	ug/L	A
E200.7/NONE	WG	SAIA-MW1B-0314	N	Potassium	5000	5000 JE	5000 U	ug/L	B2
E200.7/NONE	WG	SAIA-MW2A-0314	N	Potassium	5000	5000 JE	5000 U	ug/L	B2
E200.7/NONE	WG	SAIA-MW2B-0314	N	Potassium	5000	5000 JE	5000 UJ	ug/L	A/B2
E200.7/NONE	WG	SAIA-MW7-0314	N	Iron	100	1370	1370 J	ug/L	D5
E200.7/NONE	WG	SAIA-MW7-0314	N	Potassium	5000	5930 E	5930 J	ug/L	A
E200.7/NONE	WG	SAIA-MW97-0314	FD	Iron	100	419	419 J	ug/L	D5

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	WG	SAIA-MW97-0314	FD	Potassium	5000	5850 E	5850 J	ug/L	A

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	WG	MW34-0314	N	Chromium	2.0	7.5	7.5 J	ug/L	K1
E200.8/NONE	WG	MW34-0314	N	Copper	2.0	2.0 J	1.4 J	ug/L	TR
E200.8/NONE	WG	MW34-0314	N	Lead	1.0	0.64 J	0.64 J	ug/L	TR
E200.8/NONE	WG	MW34-0314	N	Nickel	1.0	4.3	4.3 J	ug/L	K1
E200.8/NONE	WG	MW34-0314	N	Selenium	5.0	5.0 J	2.3 J	ug/L	TR
E200.8/NONE	WG	MW34-0314	N	Silver	1.0	0.060 J	0.060 J	ug/L	TR
E200.8/NONE	WG	MW34-0314	N	Zinc	2.0	5.4	5.4 J	ug/L	K1
E200.8/NONE	WG	MW35-0314	N	Chromium	2.0	5.2	5.2 J	ug/L	K1
E200.8/NONE	WG	MW35-0314	N	Nickel	1.0	5.0	5.0 J	ug/L	K1
E200.8/NONE	WG	MW35-0314	N	Selenium	5.0	5.0 J	1.7 J	ug/L	TR
E200.8/NONE	WG	MW35-0314	N	Silver	1.0	0.12 J	0.12 J	ug/L	TR
E200.8/NONE	WG	MW35-0314	N	Zinc	2.0	17.2	17.2 J	ug/L	K1
E200.8/NONE	WG	MW42-0314	N	Antimony	2.0	2.0 JN	2.0 UJ	ug/L	M/B2
E200.8/NONE	WG	MW42-0314	N	Beryllium	2.0	0.75 JD	0.75 J	ug/L	TR
E200.8/NONE	WG	MW42-0314	N	Selenium	10.0	10.0 JD	10.0 U	ug/L	B2
E200.8/NONE	WG	MW42-0314	N	Silver	1.0	0.14 J	0.14 J	ug/L	TR
E200.8/NONE	WG	MW42-0314	N	Vanadium	10.0	53.5 ED	53.5 J	ug/L	A
E200.8/NONE	WG	MW43-0314	N	Cadmium	1.0	0.38 J	0.38 J	ug/L	TR
E200.8/NONE	WG	MW43-0314	N	Chromium	4.0	24.7 D	24.7 J	ug/L	K1
E200.8/NONE	WG	MW43-0314	N	Silver	1.0	0.096 J	0.096 J	ug/L	TR
E200.8/NONE	WG	MW43-0314	N	Thallium	1.0	1.0 J	0.080 J	ug/L	TR
E200.8/NONE	WG	MW43-0314	N	Zinc	4.0	10.9 D	10.9 J	ug/L	K1
E200.8/NONE	WG	MW44-0314	N	Chromium	4.0	9.5 D	9.5 J	ug/L	K1
E200.8/NONE	WG	MW44-0314	N	Copper	4.0	4.0 JD	2.4 J	ug/L	TR
E200.8/NONE	WG	MW44-0314	N	Lead	1.0	0.37 J	0.37 J	ug/L	TR

AUTOMATED DATA REVIEW SUMMARY for MY9DP1

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	WG	MW44-0314	N	Nickel	2.0	7.2 D	7.2 J	ug/L	K1
E200.8/NONE	WG	MW44-0314	N	Silver	1.0	0.10 J	0.10 J	ug/L	TR
E200.8/NONE	WG	MW44-0314	N	Zinc	4.0	11.1 D	11.1 J	ug/L	K1
E200.8/NONE	WG	MW49-0314	N	Cadmium	1.0	0.12 J	0.12 J	ug/L	TR
E200.8/NONE	WG	MW49-0314	N	Lead	1.0	0.69 J	0.69 J	ug/L	TR
E200.8/NONE	WG	MW49-0314	N	Silver	1.0	0.14 J	0.14 J	ug/L	TR
E200.8/NONE	WG	MW49-0314	N	Zinc	4.0	10.8 D	10.8 J	ug/L	K1
E200.8/NONE	WG	MW56-0314	N	Chromium	4.0	4.9 D	4.9 J	ug/L	K1
E200.8/NONE	WG	MW56-0314	N	Copper	4.0	4.0 JD	2.4 J	ug/L	TR
E200.8/NONE	WG	MW56-0314	N	Lead	1.0	0.73 J	0.73 J	ug/L	TR
E200.8/NONE	WG	MW56-0314	N	Nickel	2.0	4.5 D	4.5 J	ug/L	K1
E200.8/NONE	WG	MW56-0314	N	Zinc	4.0	6.7 D	6.7 J	ug/L	K1
E200.8/NONE	WG	MW934-0314	FD	Chromium	2.0	5.0	5.0 J	ug/L	K1
E200.8/NONE	WG	MW934-0314	FD	Lead	1.0	0.62 J	0.62 J	ug/L	TR
E200.8/NONE	WG	MW934-0314	FD	Nickel	1.0	3.9	3.9 J	ug/L	K1
E200.8/NONE	WG	MW934-0314	FD	Selenium	5.0	5.0 J	1.6 J	ug/L	TR
E200.8/NONE	WG	MW934-0314	FD	Silver	1.0	0.073 J	0.073 J	ug/L	TR
E200.8/NONE	WG	MW934-0314	FD	Zinc	2.0	6.2	6.2 J	ug/L	K1
E200.8/NONE	WQ	SAIA-EL01-0314	EB	Aluminum	20.0	20.0 J	20.0 U	ug/L	B2/B5
E200.8/NONE	WQ	SAIA-EL01-0314	EB	Barium	10.0	0.20 J	0.20 J	ug/L	TR
E200.8/NONE	WQ	SAIA-EL01-0314	EB	Chromium	2.0	2.8	2.8 J	ug/L	K1
E200.8/NONE	WQ	SAIA-EL01-0314	EB	Cobalt	1.0	0.30 J	0.30 J	ug/L	TR
E200.8/NONE	WQ	SAIA-EL01-0314	EB	Lead	1.0	0.19 J	0.19 J	ug/L	TR
E200.8/NONE	WQ	SAIA-EL01-0314	EB	Silver	1.0	0.049 J	0.049 J	ug/L	TR
E200.8/NONE	WQ	SAIA-EL02-0314	EB	Aluminum	20.0	20.0 J	20.0 U	ug/L	B2/B5
E200.8/NONE	WQ	SAIA-EL02-0314	EB	Barium	10.0	0.27 J	0.27 J	ug/L	TR
E200.8/NONE	WQ	SAIA-EL02-0314	EB	Chromium	2.0	2.8	2.8 J	ug/L	K1

AUTOMATED DATA REVIEW SUMMARY for MY9DP1

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	WQ	SAIA-EL02-0314	EB	Lead	1.0	0.25 J	0.25 J	ug/L	TR
E200.8/NONE	WQ	SAIA-EL02-0314	EB	Manganese	1.0	0.96 J	0.96 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW1A-0314	N	Antimony	2.0	2.0 JN	2.0 U	ug/L	B2
E200.8/NONE	WG	SAIA-MW1A-0314	N	Chromium	4.0	20.5 D	20.5 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW1A-0314	N	Nickel	2.0	12.7 D	12.7 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW1A-0314	N	Silver	1.0	0.15 J	0.15 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW1A-0314	N	Zinc	4.0	14.6 D	14.6 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW1B-0314	N	Chromium	4.0	7.1 D	7.1 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW1B-0314	N	Copper	4.0	4.0 JD	2.0 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW1B-0314	N	Lead	1.0	0.57 J	0.57 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW1B-0314	N	Nickel	2.0	7.8 D	7.8 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW1B-0314	N	Zinc	4.0	6.1 D	6.1 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW1C-0314	N	Chromium	4.0	12.5 D	12.5 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW1C-0314	N	Copper	4.0	4.0 JD	2.3 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW1C-0314	N	Nickel	2.0	8.7 D	8.7 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW1C-0314	N	Selenium	10.0	10.0 JD	0.99 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW1C-0314	N	Silver	1.0	0.081 J	0.081 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW1C-0314	N	Thallium	1.0	1.0 J	0.082 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW1C-0314	N	Zinc	4.0	6.4 D	6.4 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW2A-0314	N	Chromium	4.0	5.6 D	5.6 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW2A-0314	N	Copper	4.0	4.0 JD	2.4 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW2A-0314	N	Nickel	2.0	4.7 D	4.7 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW2A-0314	N	Selenium	10.0	10.0 JD	0.60 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW2A-0314	N	Zinc	4.0	13.3 D	13.3 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW2B-0314	N	Antimony	2.0	2.0 JN	2.0 U	ug/L	B2
E200.8/NONE	WG	SAIA-MW2B-0314	N	Chromium	4.0	4.2 D	4.2 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW2B-0314	N	Nickel	2.0	4.5 D	4.5 J	ug/L	K1

AUTOMATED DATA REVIEW SUMMARY for MY9DP1

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	WG	SAIA-MW2B-0314	N	Zinc	4.0	9.4 D	9.4 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW2C-0314	N	Chromium	4.0	4.2 D	4.2 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW2C-0314	N	Copper	4.0	4.0 JD	2.0 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW2C-0314	N	Lead	1.0	0.38 J	0.38 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW2C-0314	N	Nickel	2.0	4.7 D	4.7 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW2C-0314	N	Selenium	10.0	10.0 JD	1.1 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW2C-0314	N	Silver	1.0	0.069 J	0.069 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW2C-0314	N	Zinc	4.0	7.4 D	7.4 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW7-0314	N	Aluminum	40.0	927 D	927 J	ug/L	D5
E200.8/NONE	WG	SAIA-MW7-0314	N	Antimony	2.0	2.0 JN	2.0 U	ug/L	B2
E200.8/NONE	WG	SAIA-MW7-0314	N	Barium	10.0	92.1	92.1 J	ug/L	D5
E200.8/NONE	WG	SAIA-MW7-0314	N	Cadmium	1.0	0.17 J	0.17 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW7-0314	N	Chromium	4.0	12.2 D	12.2 J	ug/L	D5/K1
E200.8/NONE	WG	SAIA-MW7-0314	N	Nickel	2.0	18.9 D	18.9 J	ug/L	D5/K1
E200.8/NONE	WG	SAIA-MW7-0314	N	Zinc	4.0	19.5 D	19.5 J	ug/L	D5/K1
E200.8/NONE	WG	SAIA-MW97-0314	FD	Aluminum	20.0	302	302 J	ug/L	D5
E200.8/NONE	WG	SAIA-MW97-0314	FD	Antimony	2.0	2.0 JN	2.0 U	ug/L	B2
E200.8/NONE	WG	SAIA-MW97-0314	FD	Barium	10.0	62.4	62.4 J	ug/L	D5
E200.8/NONE	WG	SAIA-MW97-0314	FD	Chromium	2.0	3.2	3.2 J	ug/L	D5/K1
E200.8/NONE	WG	SAIA-MW97-0314	FD	Lead	1.0	0.74 J	0.74 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW97-0314	FD	Nickel	1.0	6.7	6.7 J	ug/L	D5/K1
E200.8/NONE	WG	SAIA-MW97-0314	FD	Silver	1.0	0.060 J	0.060 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW97-0314	FD	Zinc	2.0	10.5	10.5 J	ug/L	D5/K1
Test Leach	**Matrix**	**FieldSample ID**	**Type**	**Analyte**	**RL**	**Lab Result**	**Qualified Result**	**Units**	**Reason**
SW7470A/NONE	WG	MW42-0314	N	Mercury	0.20	0.20 J	0.20 U	ug/L	B2

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	WG	MW34-0314	N	Calcium	5000	126000	126000	ug/L	
E200.7/NONE	WG	MW34-0314	N	Iron	100	1340	1340	ug/L	
E200.7/NONE	WG	MW34-0314	N	Magnesium	5000	40300	40300	ug/L	
E200.7/NONE	WG	MW34-0314	N	Sodium	5000	374000	374000	ug/L	
E200.7/NONE	WG	MW35-0314	N	Calcium	5000	580000	580000	ug/L	
E200.7/NONE	WG	MW35-0314	N	Iron	100	4340	4340	ug/L	
E200.7/NONE	WG	MW35-0314	N	Potassium	5000	7670 E	7670	ug/L	
E200.7/NONE	WG	MW35-0314	N	Magnesium	5000	214000	214000	ug/L	
E200.7/NONE	WG	MW35-0314	N	Sodium	50000	842000 D	842000	ug/L	
E200.7/NONE	WG	MW42-0314	N	Calcium	5000	210000	210000	ug/L	
E200.7/NONE	WG	MW42-0314	N	Iron	100	58100	58100	ug/L	
E200.7/NONE	WG	MW42-0314	N	Potassium	5000	11700 E	11700	ug/L	
E200.7/NONE	WG	MW42-0314	N	Magnesium	5000	75500	75500	ug/L	
E200.7/NONE	WG	MW42-0314	N	Sodium	5000	221000	221000	ug/L	
E200.7/NONE	WG	MW43-0314	N	Calcium	5000	457000	457000	ug/L	
E200.7/NONE	WG	MW43-0314	N	Iron	100	4780	4780	ug/L	
E200.7/NONE	WG	MW43-0314	N	Potassium	5000	5710 E	5710	ug/L	
E200.7/NONE	WG	MW43-0314	N	Magnesium	5000	167000	167000	ug/L	
E200.7/NONE	WG	MW43-0314	N	Sodium	5000	673000	673000	ug/L	
E200.7/NONE	WG	MW44-0314	N	Calcium	5000	493000	493000	ug/L	
E200.7/NONE	WG	MW44-0314	N	Iron	100	4860	4860	ug/L	
E200.7/NONE	WG	MW44-0314	N	Potassium	5000	7170 E	7170	ug/L	
E200.7/NONE	WG	MW44-0314	N	Magnesium	5000	204000	204000	ug/L	
E200.7/NONE	WG	MW44-0314	N	Sodium	50000	909000 D	909000	ug/L	
E200.7/NONE	WG	MW49-0314	N	Calcium	5000	433000	433000	ug/L	
E200.7/NONE	WG	MW49-0314	N	Iron	100	5640	5640	ug/L	
E200.7/NONE	WG	MW49-0314	N	Potassium	5000	9470 E	9470	ug/L	

AUTOMATED DATA REVIEW SUMMARY for MY9DP1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	WG	MW49-0314	N	Magnesium	5000	177000	177000	ug/L	
E200.7/NONE	WG	MW49-0314	N	Sodium	5000	754000	754000	ug/L	
E200.7/NONE	WG	MW56-0314	N	Calcium	5000	178000	178000	ug/L	
E200.7/NONE	WG	MW56-0314	N	Iron	100	1870	1870	ug/L	
E200.7/NONE	WG	MW56-0314	N	Magnesium	5000	43000	43000	ug/L	
E200.7/NONE	WG	MW56-0314	N	Sodium	5000	190000	190000	ug/L	
E200.7/NONE	WG	MW934-0314	FD	Calcium	5000	126000	126000	ug/L	
E200.7/NONE	WG	MW934-0314	FD	Iron	100	1250	1250	ug/L	
E200.7/NONE	WG	MW934-0314	FD	Magnesium	5000	40500	40500	ug/L	
E200.7/NONE	WG	MW934-0314	FD	Sodium	5000	373000	373000	ug/L	
E200.7/NONE	WQ	SAIA-EL01-0314	EB	Calcium	5000	271 J	271 J	ug/L	TR
E200.7/NONE	WQ	SAIA-EL02-0314	EB	Calcium	5000	388 J	388 J	ug/L	TR
E200.7/NONE	WQ	SAIA-EL02-0314	EB	Magnesium	5000	85.2 J	85.2 J	ug/L	TR
E200.7/NONE	WG	SAIA-MW1A-0314	N	Calcium	5000	105000	105000	ug/L	
E200.7/NONE	WG	SAIA-MW1A-0314	N	Iron	100	2700	2700	ug/L	
E200.7/NONE	WG	SAIA-MW1A-0314	N	Potassium	5000	7630 E	7630 J	ug/L	A
E200.7/NONE	WG	SAIA-MW1A-0314	N	Magnesium	5000	38600	38600	ug/L	
E200.7/NONE	WG	SAIA-MW1A-0314	N	Sodium	5000	163000	163000	ug/L	
E200.7/NONE	WG	SAIA-MW1B-0314	N	Calcium	5000	421000	421000	ug/L	
E200.7/NONE	WG	SAIA-MW1B-0314	N	Iron	100	3350	3350	ug/L	
E200.7/NONE	WG	SAIA-MW1B-0314	N	Magnesium	5000	147000	147000	ug/L	
E200.7/NONE	WG	SAIA-MW1B-0314	N	Sodium	5000	358000	358000	ug/L	
E200.7/NONE	WG	SAIA-MW1C-0314	N	Calcium	5000	467000	467000	ug/L	
E200.7/NONE	WG	SAIA-MW1C-0314	N	Iron	100	4970	4970	ug/L	
E200.7/NONE	WG	SAIA-MW1C-0314	N	Potassium	5000	7160 E	7160	ug/L	
E200.7/NONE	WG	SAIA-MW1C-0314	N	Magnesium	5000	142000	142000	ug/L	
E200.7/NONE	WG	SAIA-MW1C-0314	N	Sodium	50000	839000 D	839000	ug/L	

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.7/NONE	WG	SAIA-MW2A-0314	N	Calcium	5000	122000	122000	ug/L	
E200.7/NONE	WG	SAIA-MW2A-0314	N	Iron	100	883	883	ug/L	
E200.7/NONE	WG	SAIA-MW2A-0314	N	Magnesium	5000	35800	35800	ug/L	
E200.7/NONE	WG	SAIA-MW2A-0314	N	Sodium	5000	177000	177000	ug/L	
E200.7/NONE	WG	SAIA-MW2B-0314	N	Calcium	5000	398000	398000	ug/L	
E200.7/NONE	WG	SAIA-MW2B-0314	N	Iron	100	2880	2880	ug/L	
E200.7/NONE	WG	SAIA-MW2B-0314	N	Magnesium	5000	136000	136000	ug/L	
E200.7/NONE	WG	SAIA-MW2B-0314	N	Sodium	5000	285000	285000	ug/L	
E200.7/NONE	WG	SAIA-MW2C-0314	N	Calcium	5000	457000	457000	ug/L	
E200.7/NONE	WG	SAIA-MW2C-0314	N	Iron	100	3220	3220	ug/L	
E200.7/NONE	WG	SAIA-MW2C-0314	N	Potassium	5000	5770 E	5770	ug/L	
E200.7/NONE	WG	SAIA-MW2C-0314	N	Magnesium	5000	153000	153000	ug/L	
E200.7/NONE	WG	SAIA-MW2C-0314	N	Sodium	5000	666000	666000	ug/L	
E200.7/NONE	WG	SAIA-MW7-0314	N	Calcium	5000	714000	714000	ug/L	
E200.7/NONE	WG	SAIA-MW7-0314	N	Iron	100	1370	1370 J	ug/L	D5
E200.7/NONE	WG	SAIA-MW7-0314	N	Potassium	5000	5930 E	5930 J	ug/L	A
E200.7/NONE	WG	SAIA-MW7-0314	N	Magnesium	5000	166000	166000	ug/L	
E200.7/NONE	WG	SAIA-MW7-0314	N	Sodium	5000	359000	359000	ug/L	
E200.7/NONE	WG	SAIA-MW97-0314	FD	Calcium	5000	737000	737000	ug/L	
E200.7/NONE	WG	SAIA-MW97-0314	FD	Iron	100	419	419 J	ug/L	D5
E200.7/NONE	WG	SAIA-MW97-0314	FD	Potassium	5000	5850 E	5850 J	ug/L	A
E200.7/NONE	WG	SAIA-MW97-0314	FD	Magnesium	5000	171000	171000	ug/L	
E200.7/NONE	WG	SAIA-MW97-0314	FD	Sodium	5000	368000	368000	ug/L	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	WG	MW34-0314	N	Silver	1.0	0.060 J	0.060 J	ug/L	TR
E200.8/NONE	WG	MW34-0314	N	Arsenic	1.0	100	100	ug/L	

AUTOMATED DATA REVIEW SUMMARY for MY9DP1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	WG	MW34-0314	N	Barium	10.0	52.6	52.6	ug/L	
E200.8/NONE	WG	MW34-0314	N	Cobalt	1.0	11.3	11.3	ug/L	
E200.8/NONE	WG	MW34-0314	N	Chromium	2.0	7.5	7.5 J	ug/L	K1
E200.8/NONE	WG	MW34-0314	N	Copper	2.0	2.0 J	1.4 J	ug/L	TR
E200.8/NONE	WG	MW34-0314	N	Manganese	1.0	816	816	ug/L	
E200.8/NONE	WG	MW34-0314	N	Nickel	1.0	4.3	4.3 J	ug/L	K1
E200.8/NONE	WG	MW34-0314	N	Lead	1.0	0.64 J	0.64 J	ug/L	TR
E200.8/NONE	WG	MW34-0314	N	Selenium	5.0	5.0 J	2.3 J	ug/L	TR
E200.8/NONE	WG	MW34-0314	N	Zinc	2.0	5.4	5.4 J	ug/L	K1
E200.8/NONE	WG	MW35-0314	N	Silver	1.0	0.12 J	0.12 J	ug/L	TR
E200.8/NONE	WG	MW35-0314	N	Aluminum	20.0	79.8	79.8	ug/L	
E200.8/NONE	WG	MW35-0314	N	Arsenic	1.0	22.5	22.5	ug/L	
E200.8/NONE	WG	MW35-0314	N	Barium	10.0	28.9	28.9	ug/L	
E200.8/NONE	WG	MW35-0314	N	Cadmium	1.0	1.3	1.3	ug/L	
E200.8/NONE	WG	MW35-0314	N	Cobalt	1.0	48.7	48.7	ug/L	
E200.8/NONE	WG	MW35-0314	N	Chromium	2.0	5.2	5.2 J	ug/L	K1
E200.8/NONE	WG	MW35-0314	N	Copper	2.0	2.9	2.9	ug/L	
E200.8/NONE	WG	MW35-0314	N	Manganese	25.0	4340 D	4340	ug/L	
E200.8/NONE	WG	MW35-0314	N	Nickel	1.0	5.0	5.0 J	ug/L	K1
E200.8/NONE	WG	MW35-0314	N	Lead	1.0	1.3	1.3	ug/L	
E200.8/NONE	WG	MW35-0314	N	Selenium	5.0	5.0 J	1.7 J	ug/L	TR
E200.8/NONE	WG	MW35-0314	N	Zinc	2.0	17.2	17.2 J	ug/L	K1
E200.8/NONE	WG	MW42-0314	N	Silver	1.0	0.14 J	0.14 J	ug/L	TR
E200.8/NONE	WG	MW42-0314	N	Aluminum	40.0	31300 D	31300	ug/L	
E200.8/NONE	WG	MW42-0314	N	Arsenic	2.0	78.3 D	78.3	ug/L	
E200.8/NONE	WG	MW42-0314	N	Barium	10.0	457	457	ug/L	
E200.8/NONE	WG	MW42-0314	N	Beryllium	2.0	0.75 JD	0.75 J	ug/L	TR

AUTOMATED DATA REVIEW SUMMARY for MY9DP1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	WG	MW42-0314	N	Cadmium	1.0	1.3	1.3	ug/L	
E200.8/NONE	WG	MW42-0314	N	Cobalt	2.0	43.9 D	43.9	ug/L	
E200.8/NONE	WG	MW42-0314	N	Chromium	4.0	79.1 D	79.1	ug/L	
E200.8/NONE	WG	MW42-0314	N	Copper	4.0	57.5 D	57.5	ug/L	
E200.8/NONE	WG	MW42-0314	N	Manganese	2.0	2120 D	2120	ug/L	
E200.8/NONE	WG	MW42-0314	N	Nickel	2.0	73.4 D	73.4	ug/L	
E200.8/NONE	WG	MW42-0314	N	Lead	1.0	20.3	20.3	ug/L	
E200.8/NONE	WG	MW42-0314	N	Vanadium	10.0	53.5 ED	53.5 J	ug/L	A
E200.8/NONE	WG	MW42-0314	N	Zinc	4.0	157 D	157	ug/L	
E200.8/NONE	WG	MW43-0314	N	Silver	1.0	0.096 J	0.096 J	ug/L	TR
E200.8/NONE	WG	MW43-0314	N	Aluminum	40.0	1150 D	1150	ug/L	
E200.8/NONE	WG	MW43-0314	N	Arsenic	2.0	31.2 D	31.2	ug/L	
E200.8/NONE	WG	MW43-0314	N	Barium	10.0	46.2	46.2	ug/L	
E200.8/NONE	WG	MW43-0314	N	Cadmium	1.0	0.38 J	0.38 J	ug/L	TR
E200.8/NONE	WG	MW43-0314	N	Cobalt	2.0	40.1 D	40.1	ug/L	
E200.8/NONE	WG	MW43-0314	N	Chromium	4.0	24.7 D	24.7 J	ug/L	K1
E200.8/NONE	WG	MW43-0314	N	Copper	4.0	5.6 D	5.6	ug/L	
E200.8/NONE	WG	MW43-0314	N	Manganese	2.0	3830 D	3830	ug/L	
E200.8/NONE	WG	MW43-0314	N	Nickel	2.0	20.0 D	20.0	ug/L	
E200.8/NONE	WG	MW43-0314	N	Lead	1.0	1.3	1.3	ug/L	
E200.8/NONE	WG	MW43-0314	N	Thallium	1.0	1.0 J	0.080 J	ug/L	TR
E200.8/NONE	WG	MW43-0314	N	Zinc	4.0	10.9 D	10.9 J	ug/L	K1
E200.8/NONE	WG	MW44-0314	N	Silver	1.0	0.10 J	0.10 J	ug/L	TR
E200.8/NONE	WG	MW44-0314	N	Aluminum	40.0	136 D	136	ug/L	
E200.8/NONE	WG	MW44-0314	N	Arsenic	2.0	31.6 D	31.6	ug/L	
E200.8/NONE	WG	MW44-0314	N	Barium	10.0	23.8	23.8	ug/L	
E200.8/NONE	WG	MW44-0314	N	Cobalt	2.0	44.3 D	44.3	ug/L	

AUTOMATED DATA REVIEW SUMMARY for MY9DP1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	WG	MW44-0314	N	Chromium	4.0	9.5 D	9.5 J	ug/L	K1
E200.8/NONE	WG	MW44-0314	N	Copper	4.0	4.0 JD	2.4 J	ug/L	TR
E200.8/NONE	WG	MW44-0314	N	Manganese	25.0	4330 D	4330	ug/L	
E200.8/NONE	WG	MW44-0314	N	Nickel	2.0	7.2 D	7.2 J	ug/L	K1
E200.8/NONE	WG	MW44-0314	N	Lead	1.0	0.37 J	0.37 J	ug/L	TR
E200.8/NONE	WG	MW44-0314	N	Zinc	4.0	11.1 D	11.1 J	ug/L	K1
E200.8/NONE	WG	MW49-0314	N	Silver	1.0	0.14 J	0.14 J	ug/L	TR
E200.8/NONE	WG	MW49-0314	N	Aluminum	40.0	618 D	618	ug/L	
E200.8/NONE	WG	MW49-0314	N	Arsenic	2.0	66.5 D	66.5	ug/L	
E200.8/NONE	WG	MW49-0314	N	Barium	10.0	37.6	37.6	ug/L	
E200.8/NONE	WG	MW49-0314	N	Cadmium	1.0	0.12 J	0.12 J	ug/L	TR
E200.8/NONE	WG	MW49-0314	N	Cobalt	2.0	43.4 D	43.4	ug/L	
E200.8/NONE	WG	MW49-0314	N	Chromium	4.0	67.9 D	67.9	ug/L	
E200.8/NONE	WG	MW49-0314	N	Copper	4.0	8.2 D	8.2	ug/L	
E200.8/NONE	WG	MW49-0314	N	Manganese	25.0	3930 D	3930	ug/L	
E200.8/NONE	WG	MW49-0314	N	Nickel	2.0	145 D	145	ug/L	
E200.8/NONE	WG	MW49-0314	N	Lead	1.0	0.69 J	0.69 J	ug/L	TR
E200.8/NONE	WG	MW49-0314	N	Zinc	4.0	10.8 D	10.8 J	ug/L	K1
E200.8/NONE	WG	MW56-0314	N	Aluminum	40.0	407 D	407	ug/L	
E200.8/NONE	WG	MW56-0314	N	Arsenic	2.0	24.2 D	24.2	ug/L	
E200.8/NONE	WG	MW56-0314	N	Barium	10.0	80.5	80.5	ug/L	
E200.8/NONE	WG	MW56-0314	N	Cobalt	2.0	15.3 D	15.3	ug/L	
E200.8/NONE	WG	MW56-0314	N	Chromium	4.0	4.9 D	4.9 J	ug/L	K1
E200.8/NONE	WG	MW56-0314	N	Copper	4.0	4.0 JD	2.4 J	ug/L	TR
E200.8/NONE	WG	MW56-0314	N	Manganese	2.0	1350 D	1350	ug/L	
E200.8/NONE	WG	MW56-0314	N	Nickel	2.0	4.5 D	4.5 J	ug/L	K1
E200.8/NONE	WG	MW56-0314	N	Lead	1.0	0.73 J	0.73 J	ug/L	TR

AUTOMATED DATA REVIEW SUMMARY for MY9DP1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	WG	MW56-0314	N	Zinc	4.0	6.7 D	6.7 J	ug/L	K1
E200.8/NONE	WG	MW934-0314	FD	Silver	1.0	0.073 J	0.073 J	ug/L	TR
E200.8/NONE	WG	MW934-0314	FD	Arsenic	1.0	102	102	ug/L	
E200.8/NONE	WG	MW934-0314	FD	Barium	10.0	54.6	54.6	ug/L	
E200.8/NONE	WG	MW934-0314	FD	Cobalt	1.0	11.5	11.5	ug/L	
E200.8/NONE	WG	MW934-0314	FD	Chromium	2.0	5.0	5.0 J	ug/L	K1
E200.8/NONE	WG	MW934-0314	FD	Copper	2.0	2.7	2.7	ug/L	
E200.8/NONE	WG	MW934-0314	FD	Manganese	1.0	844	844	ug/L	
E200.8/NONE	WG	MW934-0314	FD	Nickel	1.0	3.9	3.9 J	ug/L	K1
E200.8/NONE	WG	MW934-0314	FD	Lead	1.0	0.62 J	0.62 J	ug/L	TR
E200.8/NONE	WG	MW934-0314	FD	Selenium	5.0	5.0 J	1.6 J	ug/L	TR
E200.8/NONE	WG	MW934-0314	FD	Zinc	2.0	6.2	6.2 J	ug/L	K1
E200.8/NONE	WQ	SAIA-EL01-0314	EB	Silver	1.0	0.049 J	0.049 J	ug/L	TR
E200.8/NONE	WQ	SAIA-EL01-0314	EB	Barium	10.0	0.20 J	0.20 J	ug/L	TR
E200.8/NONE	WQ	SAIA-EL01-0314	EB	Cobalt	1.0	0.30 J	0.30 J	ug/L	TR
E200.8/NONE	WQ	SAIA-EL01-0314	EB	Chromium	2.0	2.8	2.8 J	ug/L	K1
E200.8/NONE	WQ	SAIA-EL01-0314	EB	Manganese	1.0	4.0	4.0	ug/L	
E200.8/NONE	WQ	SAIA-EL01-0314	EB	Nickel	1.0	15.7	15.7	ug/L	
E200.8/NONE	WQ	SAIA-EL01-0314	EB	Lead	1.0	0.19 J	0.19 J	ug/L	TR
E200.8/NONE	WQ	SAIA-EL01-0314	EB	Zinc	2.0	3.1	3.1	ug/L	
E200.8/NONE	WQ	SAIA-EL02-0314	EB	Barium	10.0	0.27 J	0.27 J	ug/L	TR
E200.8/NONE	WQ	SAIA-EL02-0314	EB	Chromium	2.0	2.8	2.8 J	ug/L	K1
E200.8/NONE	WQ	SAIA-EL02-0314	EB	Manganese	1.0	0.96 J	0.96 J	ug/L	TR
E200.8/NONE	WQ	SAIA-EL02-0314	EB	Nickel	1.0	1.5	1.5	ug/L	
E200.8/NONE	WQ	SAIA-EL02-0314	EB	Lead	1.0	0.25 J	0.25 J	ug/L	TR
E200.8/NONE	WQ	SAIA-EL02-0314	EB	Zinc	2.0	4.1	4.1	ug/L	
E200.8/NONE	WG	SAIA-MW1A-0314	N	Silver	1.0	0.15 J	0.15 J	ug/L	TR

AUTOMATED DATA REVIEW SUMMARY for MY9DP1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	WG	SAIA-MW1A-0314	N	Aluminum	40.0	1330 D	1330	ug/L	
E200.8/NONE	WG	SAIA-MW1A-0314	N	Arsenic	2.0	16.1 D	16.1	ug/L	
E200.8/NONE	WG	SAIA-MW1A-0314	N	Barium	10.0	95.1	95.1	ug/L	
E200.8/NONE	WG	SAIA-MW1A-0314	N	Cobalt	2.0	10.7 D	10.7	ug/L	
E200.8/NONE	WG	SAIA-MW1A-0314	N	Chromium	4.0	20.5 D	20.5 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW1A-0314	N	Copper	4.0	5.4 D	5.4	ug/L	
E200.8/NONE	WG	SAIA-MW1A-0314	N	Manganese	2.0	480 D	480	ug/L	
E200.8/NONE	WG	SAIA-MW1A-0314	N	Nickel	2.0	12.7 D	12.7 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW1A-0314	N	Lead	1.0	1.6	1.6	ug/L	
E200.8/NONE	WG	SAIA-MW1A-0314	N	Zinc	4.0	14.6 D	14.6 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW1B-0314	N	Aluminum	40.0	366 D	366	ug/L	
E200.8/NONE	WG	SAIA-MW1B-0314	N	Arsenic	2.0	23.8 D	23.8	ug/L	
E200.8/NONE	WG	SAIA-MW1B-0314	N	Barium	10.0	67.4	67.4	ug/L	
E200.8/NONE	WG	SAIA-MW1B-0314	N	Cobalt	2.0	37.7 D	37.7	ug/L	
E200.8/NONE	WG	SAIA-MW1B-0314	N	Chromium	4.0	7.1 D	7.1 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW1B-0314	N	Copper	4.0	4.0 JD	2.0 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW1B-0314	N	Manganese	2.0	2510 D	2510	ug/L	
E200.8/NONE	WG	SAIA-MW1B-0314	N	Nickel	2.0	7.8 D	7.8 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW1B-0314	N	Lead	1.0	0.57 J	0.57 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW1B-0314	N	Zinc	4.0	6.1 D	6.1 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW1C-0314	N	Silver	1.0	0.081 J	0.081 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW1C-0314	N	Aluminum	40.0	176 D	176	ug/L	
E200.8/NONE	WG	SAIA-MW1C-0314	N	Arsenic	2.0	7.4 D	7.4	ug/L	
E200.8/NONE	WG	SAIA-MW1C-0314	N	Barium	10.0	37.0	37.0	ug/L	
E200.8/NONE	WG	SAIA-MW1C-0314	N	Cobalt	2.0	41.9 D	41.9	ug/L	
E200.8/NONE	WG	SAIA-MW1C-0314	N	Chromium	4.0	12.5 D	12.5 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW1C-0314	N	Copper	4.0	4.0 JD	2.3 J	ug/L	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	WG	SAIA-MW1C-0314	N	Manganese	2.0	3240 D	3240	ug/L	
E200.8/NONE	WG	SAIA-MW1C-0314	N	Nickel	2.0	8.7 D	8.7 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW1C-0314	N	Lead	1.0	1.0	1.0	ug/L	
E200.8/NONE	WG	SAIA-MW1C-0314	N	Selenium	10.0	10.0 JD	0.99 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW1C-0314	N	Thallium	1.0	1.0 J	0.082 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW1C-0314	N	Zinc	4.0	6.4 D	6.4 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW2A-0314	N	Aluminum	40.0	349 D	349	ug/L	
E200.8/NONE	WG	SAIA-MW2A-0314	N	Arsenic	2.0	29.6 D	29.6	ug/L	
E200.8/NONE	WG	SAIA-MW2A-0314	N	Barium	10.0	129	129	ug/L	
E200.8/NONE	WG	SAIA-MW2A-0314	N	Cobalt	2.0	11.3 D	11.3	ug/L	
E200.8/NONE	WG	SAIA-MW2A-0314	N	Chromium	4.0	5.6 D	5.6 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW2A-0314	N	Copper	4.0	4.0 JD	2.4 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW2A-0314	N	Manganese	2.0	674 D	674	ug/L	
E200.8/NONE	WG	SAIA-MW2A-0314	N	Nickel	2.0	4.7 D	4.7 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW2A-0314	N	Lead	1.0	1.3	1.3	ug/L	
E200.8/NONE	WG	SAIA-MW2A-0314	N	Selenium	10.0	10.0 JD	0.60 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW2A-0314	N	Zinc	4.0	13.3 D	13.3 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW2B-0314	N	Aluminum	40.0	88.2 D	88.2	ug/L	
E200.8/NONE	WG	SAIA-MW2B-0314	N	Arsenic	2.0	24.9 D	24.9	ug/L	
E200.8/NONE	WG	SAIA-MW2B-0314	N	Barium	10.0	44.5	44.5	ug/L	
E200.8/NONE	WG	SAIA-MW2B-0314	N	Cobalt	2.0	34.6 D	34.6	ug/L	
E200.8/NONE	WG	SAIA-MW2B-0314	N	Chromium	4.0	4.2 D	4.2 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW2B-0314	N	Copper	4.0	7.7 D	7.7	ug/L	
E200.8/NONE	WG	SAIA-MW2B-0314	N	Manganese	2.0	2290 D	2290	ug/L	
E200.8/NONE	WG	SAIA-MW2B-0314	N	Nickel	2.0	4.5 D	4.5 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW2B-0314	N	Lead	1.0	2.7	2.7	ug/L	
E200.8/NONE	WG	SAIA-MW2B-0314	N	Zinc	4.0	9.4 D	9.4 J	ug/L	K1

AUTOMATED DATA REVIEW SUMMARY for MY9DP1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	WG	SAIA-MW2C-0314	N	Silver	1.0	0.069 J	0.069 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW2C-0314	N	Aluminum	40.0	182 D	182	ug/L	
E200.8/NONE	WG	SAIA-MW2C-0314	N	Arsenic	2.0	21.8 D	21.8	ug/L	
E200.8/NONE	WG	SAIA-MW2C-0314	N	Barium	10.0	30.4	30.4	ug/L	
E200.8/NONE	WG	SAIA-MW2C-0314	N	Cobalt	2.0	43.1 D	43.1	ug/L	
E200.8/NONE	WG	SAIA-MW2C-0314	N	Chromium	4.0	4.2 D	4.2 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW2C-0314	N	Copper	4.0	4.0 JD	2.0 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW2C-0314	N	Manganese	2.0	3370 D	3370	ug/L	
E200.8/NONE	WG	SAIA-MW2C-0314	N	Nickel	2.0	4.7 D	4.7 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW2C-0314	N	Lead	1.0	0.38 J	0.38 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW2C-0314	N	Selenium	10.0	10.0 JD	1.1 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW2C-0314	N	Zinc	4.0	7.4 D	7.4 J	ug/L	K1
E200.8/NONE	WG	SAIA-MW7-0314	N	Aluminum	40.0	927 D	927 J	ug/L	D5
E200.8/NONE	WG	SAIA-MW7-0314	N	Arsenic	2.0	4.7 D	4.7	ug/L	
E200.8/NONE	WG	SAIA-MW7-0314	N	Barium	10.0	92.1	92.1 J	ug/L	D5
E200.8/NONE	WG	SAIA-MW7-0314	N	Cadmium	1.0	0.17 J	0.17 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW7-0314	N	Cobalt	2.0	63.8 D	63.8	ug/L	
E200.8/NONE	WG	SAIA-MW7-0314	N	Chromium	4.0	12.2 D	12.2 J	ug/L	D5/K1
E200.8/NONE	WG	SAIA-MW7-0314	N	Copper	4.0	4.9 D	4.9	ug/L	
E200.8/NONE	WG	SAIA-MW7-0314	N	Manganese	2.0	3550 D	3550	ug/L	
E200.8/NONE	WG	SAIA-MW7-0314	N	Nickel	2.0	18.9 D	18.9 J	ug/L	D5/K1
E200.8/NONE	WG	SAIA-MW7-0314	N	Lead	1.0	1.6	1.6	ug/L	
E200.8/NONE	WG	SAIA-MW7-0314	N	Zinc	4.0	19.5 D	19.5 J	ug/L	D5/K1
E200.8/NONE	WG	SAIA-MW97-0314	FD	Silver	1.0	0.060 J	0.060 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW97-0314	FD	Aluminum	20.0	302	302 J	ug/L	D5
E200.8/NONE	WG	SAIA-MW97-0314	FD	Arsenic	1.0	3.3	3.3	ug/L	
E200.8/NONE	WG	SAIA-MW97-0314	FD	Barium	10.0	62.4	62.4 J	ug/L	D5

AUTOMATED DATA REVIEW SUMMARY for MY9DP1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
E200.8/NONE	WG	SAIA-MW97-0314	FD	Cobalt	1.0	59.4	59.4	ug/L	
E200.8/NONE	WG	SAIA-MW97-0314	FD	Chromium	2.0	3.2	3.2 J	ug/L	D5/K1
E200.8/NONE	WG	SAIA-MW97-0314	FD	Copper	2.0	2.3	2.3	ug/L	
E200.8/NONE	WG	SAIA-MW97-0314	FD	Manganese	25.0	3530 D	3530	ug/L	
E200.8/NONE	WG	SAIA-MW97-0314	FD	Nickel	1.0	6.7	6.7 J	ug/L	D5/K1
E200.8/NONE	WG	SAIA-MW97-0314	FD	Lead	1.0	0.74 J	0.74 J	ug/L	TR
E200.8/NONE	WG	SAIA-MW97-0314	FD	Zinc	2.0	10.5	10.5 J	ug/L	D5/K1

AUTOMATED DATA REVIEW SUMMARY for MY9DP1

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for YA813

Facility: Southern Avenue Industrial Area

New Wells Groundwater Sampling, September 2016

Guidance Document:

Contract Laboratory: EUROFINS SPECTRUM ANALYTICAL, INC., NORTH KINGSTON, RI

Field Contractor:

Data Review Contractor: EPA-ESAT

SDG: YA813, Certified - 12/9/2016 by wtse

QC Level: Tier 3 (S4VEM)

Project Manager: Don Gruber - Gilbane

Data Reviewer: Lisa Booker - ESAT

Data Reviewer Title: Validator

Date of Review Report: November 30, 2016

Second Reviewer: Tom Beer - Gilbane

Completion Date of Second Reviewer: March 03, 2017

Samples Included in SDG YA813

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
BNASIM/NONE	3	1
CVOL/NONE	3	2

AUTOMATED DATA REVIEW SUMMARY for YA813

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by EUROFINS SPECTRUM ANALYTICAL, INC., NORTH KINGSTON, RI and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate
- Lab Replicate RPD
- LCS Recovery
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Material Blank
- MS Recovery
- MS RPD
- Negative Blank

AUTOMATED DATA REVIEW SUMMARY for YA813

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 4 results (1.52%) out of the 264 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

The ESAT contractor reviewed the CLP lab report and case narrative, EXES summary QC report, and COC as received.

No sample receipt or calibration issues noted.

No VOCs data qualifiers added. Estimated NDs (UJ) for all four 1,4-dioxane results qualified for their re-runs out of hold time (H2). Re-runs needed due to LCS spike added instead of DMC.

No data were rejected.

30-Nov-2016

Released by Lisa Booker - ESAT, Validator

03-Mar-2017

Released by Tom Beer - Gilbane

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	The analyte was found in an associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field duplicate precision
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for YA813

Batch Report

Test Method: BNASIM; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
S3J7724.D	2655	NA	LABQC	WQ	LABQC	24460LCS	S3J7704A.D	1/1	28-Sep-2016 11:18 AM	28-Sep-2016 11:18 AM	08-Oct-2016 11:38 PM	BS
	2655	NA	LABQC	WQ	LABQC	24459MB	S3J7704A.D	1/1	28-Sep-2016 11:18 AM	28-Sep-2016 11:18 AM	08-Oct-2016 11:27 PM	LB
	2655	NA	SAIA-MW11A	WG	SAIA-MW11A-0916	501152201	S3J7704A.D	1/1	22-Sep-2016 8:32 AM	28-Sep-2016 11:18 AM	08-Oct-2016 11:49 PM	N
	2655	NA	SAIA-MW11B	WG	SAIA-MW11B-0916	501152202	S3J7704A.D	1/1	22-Sep-2016 9:33 AM	28-Sep-2016 11:18 AM	09-Oct-2016 12:01 AM	N
	2655	NA	SAIA-MW11C	WG	SAIA-MW111C-0916	501152204	S3J7704A.D	1/1	22-Sep-2016 11:12 AM	28-Sep-2016 11:18 AM	09-Oct-2016 12:24 AM	FD
	2655	NA	SAIA-MW11C	WG	SAIA-MW11C-0916	501152203	S3J7704A.D	1/1	22-Sep-2016 10:30 AM	28-Sep-2016 11:18 AM	09-Oct-2016 12:12 AM	N
S3J7790.D	2815	NA	LABQC	WQ	LABQC	26275LCS	S3J7704A.D	1/1	11-Oct-2016 11:06 AM	11-Oct-2016 11:06 AM	12-Oct-2016 1:37 PM	BS
	2815	NA	LABQC	WQ	LABQC	26274MB	S3J7704A.D	1/1	11-Oct-2016 11:06 AM	11-Oct-2016 11:06 AM	12-Oct-2016 1:29 PM	LB
S3J7803.D	2655	NA	SAIA-MW11A	WG	SAIA-MW11A-0916	501152201	S3J7704A.D	1/1	22-Sep-2016 8:32 AM	28-Sep-2016 11:18 AM	12-Oct-2016 3:47 PM	N
	2655	NA	SAIA-MW11B	WG	SAIA-MW11B-0916	501152202	S3J7704A.D	1/1	22-Sep-2016 9:33 AM	28-Sep-2016 11:18 AM	12-Oct-2016 3:58 PM	N
	2655	NA	SAIA-MW11C	WG	SAIA-MW111C-0916	501152204	S3J7704A.D	1/1	22-Sep-2016 11:12 AM	28-Sep-2016 11:18 AM	12-Oct-2016 4:19 PM	FD
	2655	NA	SAIA-MW11C	WG	SAIA-MW11C-0916	501152203	S3J7704A.D	1/1	22-Sep-2016 10:30 AM	28-Sep-2016 11:18 AM	12-Oct-2016 4:08 PM	N

AUTOMATED DATA REVIEW SUMMARY for YA813

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
V5Q0015.D	V5Q0019.D	NA	LABQC	WQ	LABQC	24823MB	V5Q9698.D	1/1	02-Oct-2016 2:49 AM	02-Oct-2016 2:49 AM	02-Oct-2016 2:49 AM	LB
	V5Q0019.D	NA	LABQC	WQ	LABQC	24824SB	V5Q9698.D	1/1	02-Oct-2016 7:43 AM	02-Oct-2016 7:43 AM	02-Oct-2016 7:43 AM	LB
	V5Q9897.D	NA	SAIA-MW11C	WG	SAIA-MW111C-0916	501152204	V5Q9698.D	1/5	22-Sep-2016 11:12 AM	29-Sep-2016 7:49 PM	02-Oct-2016 3:16 AM	FD
	V5Q9897.D	NA	SAIA-MW11C	WG	SAIA-MW111C-0916	501152204	V5Q9698.D	1/5	22-Sep-2016 11:12 AM	29-Sep-2016 7:49 PM	02-Oct-2016 3:16 AM	LR
V5Q9881.D	V5Q9883.D	NA	LABQC	WQ	LABQC	24509MB	V5Q9698.D	1/1	29-Sep-2016 10:16 AM	29-Sep-2016 10:16 AM	29-Sep-2016 10:16 AM	LB
	V5Q9883.D	NA	SAIA-MW11A	WG	SAIA-MW11A-0916	501152201	V5Q9698.D	1/1	22-Sep-2016 8:32 AM	29-Sep-2016 2:02 PM	29-Sep-2016 2:02 PM	N
	V5Q9883.D	NA	SAIA-MW11B	WG	SAIA-MW11B-0916	501152202	V5Q9698.D	1/1	22-Sep-2016 9:33 AM	29-Sep-2016 2:29 PM	29-Sep-2016 2:29 PM	N
	V5Q9883.D	NA	SAIA-MW11C	WG	SAIA-MW11C-0916	501152203	V5Q9698.D	1/1	22-Sep-2016 10:30 AM	29-Sep-2016 2:56 PM	29-Sep-2016 2:56 PM	N
V5Q9895.D	V5Q9883.D	NA	SAIA-MW11B	WG	SAIA-MW11B-0916	501152202	V5Q9698.D	1/5	22-Sep-2016 9:33 AM	29-Sep-2016 2:29 PM	29-Sep-2016 6:56 PM	LR
	V5Q9883.D	NA	SAIA-MW11B	WG	SAIA-MW11B-0916	501152202	V5Q9698.D	1/5	22-Sep-2016 9:33 AM	29-Sep-2016 2:29 PM	29-Sep-2016 6:56 PM	N
	V5Q9883.D	NA	SAIA-MW11C	WG	SAIA-MW11C-0916	501152203	V5Q9698.D	1/5	22-Sep-2016 10:30 AM	29-Sep-2016 2:56 PM	29-Sep-2016 7:23 PM	LR
	V5Q9883.D	NA	SAIA-MW11C	WG	SAIA-MW11C-0916	501152203	V5Q9698.D	1/5	22-Sep-2016 10:30 AM	29-Sep-2016 2:56 PM	29-Sep-2016 7:23 PM	N
	V5Q9897.D	NA	FIELDQC	WQ	SAIA-RL03-0916	501152205	V5Q9698.D	1/1	22-Sep-2016 7:40 AM	29-Sep-2016 8:16 PM	29-Sep-2016 8:16 PM	TB
	V5Q9897.D	NA	LABQC	WQ	LABQC	24519MB	V5Q9698.D	1/1	29-Sep-2016 4:43 PM	29-Sep-2016 4:43 PM	29-Sep-2016 4:43 PM	LB
	V5Q9897.D	NA	SAIA-MW11C	WG	SAIA-MW111C-0916	501152204	V5Q9698.D	1/1	22-Sep-2016 11:12 AM	29-Sep-2016 7:49 PM	29-Sep-2016 7:49 PM	FD

AUTOMATED DATA REVIEW SUMMARY for YA813

Field Batch Report

Test Method: BNASIM		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	22091601		SAIA-MW11A	WG	SAIA-MW11A-0916	501152201	9/22/2016 8:32:00 AM	N
	22091601		SAIA-MW11B	WG	SAIA-MW11B-0916	501152202	9/22/2016 9:33:00 AM	N
	22091601		SAIA-MW11C	WG	SAIA-MW111C-0916	501152204	9/22/2016 11:12:00 AM	FD
	22091601		SAIA-MW11C	WG	SAIA-MW11C-0916	501152203	9/22/2016 10:30:00 AM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	22091601		FIELDQC	WQ	SAIA-RL03-0916	501152205	9/22/2016 7:40:00 AM	TB
	22091601		SAIA-MW11A	WG	SAIA-MW11A-0916	501152201	9/22/2016 8:32:00 AM	N
	22091601		SAIA-MW11B	WG	SAIA-MW11B-0916	501152202	9/22/2016 9:33:00 AM	LR
	22091601		SAIA-MW11B	WG	SAIA-MW11B-0916	501152202	9/22/2016 9:33:00 AM	N
	22091601		SAIA-MW11C	WG	SAIA-MW111C-0916	501152204	9/22/2016 11:12:00 AM	FD
	22091601		SAIA-MW11C	WG	SAIA-MW111C-0916	501152204	9/22/2016 11:12:00 AM	LR
	22091601		SAIA-MW11C	WG	SAIA-MW11C-0916	501152203	9/22/2016 10:30:00 AM	LR
	22091601		SAIA-MW11C	WG	SAIA-MW11C-0916	501152203	9/22/2016 10:30:00 AM	N

AUTOMATED DATA REVIEW SUMMARY for YA813

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
BNASIM / SW3510C	Blank	24459MB (LB)	1 / 1.00	1,4-Dioxane (p-Dioxane)	0.610	ug/l	U/None	< 0.013	< 0.25	B1		1	0.610
BNASIM / SW3510C	LCS Recovery	24460LCS (BS)	1 / 1.00	1,4-Dioxane (p-Dioxane)	220	percent	J/None	64 - 144	10 - 154	L			
BNASIM / SW3510C	LCS Recovery	26275LCS (BS)	1 / 1.00	1,4-Dioxane (p-Dioxane)	52.0	percent	J/UJ	64 - 144	10 - 154	L			
CVOL / METHOD	Blank	24824SB (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.290	ug/l	U/None	< 0.1	< 0.5	B1		1	0.290
CVOL / METHOD	Blank	24824SB (LB)	1 / 1.00	1,2-Dichlorobenzene	0.440	ug/l	U/None	< 0.076	< 0.5	B1		1	0.440
CVOL / METHOD	Blank	24824SB (LB)	1 / 1.00	1,4-Dichlorobenzene	0.340	ug/l	U/None	< 0.09	< 0.5	B1		1	0.340

AUTOMATED DATA REVIEW SUMMARY for YA813

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	SAIA-MW111C-0916	FD	1,4-Dioxane (p-Dioxane)	0.50	0.50 B	0.50 UJ	ug/L	H2
BNASIM/NONE	WG	SAIA-MW11A-0916	N	1,4-Dioxane (p-Dioxane)	0.50	0.50 B	0.50 UJ	ug/L	H2
BNASIM/NONE	WG	SAIA-MW11B-0916	N	1,4-Dioxane (p-Dioxane)	0.50	0.50 B	0.50 UJ	ug/L	H2
BNASIM/NONE	WG	SAIA-MW11C-0916	N	1,4-Dioxane (p-Dioxane)	0.50	0.50 B	0.50 UJ	ug/L	H2

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW111C-0916	FD	1,1-Dichloroethene	0.50	0.30 J	0.30 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW11C-0916	N	1,1-Dichloroethene	0.50	0.27 J	0.27 J	ug/L	TR

AUTOMATED DATA REVIEW SUMMARY for YA813

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW111C-0916	FD	1,1-Dichloroethene	0.50	0.30 J	0.30 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW111C-0916	FD	cis-1,2-Dichloroethylene	2.5	61.0 D	61.0	ug/L	
CVOL/NONE	WG	SAIA-MW111C-0916	FD	trans-1,2-Dichloroethene	0.50	6.4	6.4	ug/L	
CVOL/NONE	WG	SAIA-MW111C-0916	FD	Trichloroethene (TCE)	0.50	9.4	9.4	ug/L	
CVOL/NONE	WG	SAIA-MW11B-0916	N	Acetone	5.0	7.1	7.1	ug/L	
CVOL/NONE	WG	SAIA-MW11B-0916	N	cis-1,2-Dichloroethylene	2.5	40.0 D	40.0	ug/L	
CVOL/NONE	WG	SAIA-MW11B-0916	N	trans-1,2-Dichloroethene	0.50	3.7	3.7	ug/L	
CVOL/NONE	WG	SAIA-MW11B-0916	N	Trichloroethene (TCE)	0.50	15.0	15.0	ug/L	
CVOL/NONE	WG	SAIA-MW11C-0916	N	1,1-Dichloroethene	0.50	0.27 J	0.27 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW11C-0916	N	cis-1,2-Dichloroethylene	2.5	55.0 D	55.0	ug/L	
CVOL/NONE	WG	SAIA-MW11C-0916	N	trans-1,2-Dichloroethene	0.50	7.2	7.2	ug/L	
CVOL/NONE	WG	SAIA-MW11C-0916	N	Trichloroethene (TCE)	0.50	11.0	11.0	ug/L	

AUTOMATED DATA REVIEW SUMMARY for YA813

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for YA813

Facility: Southern Avenue Industrial Area

New Wells Groundwater, September 2016

Guidance Document:

Contract Laboratory: EUROFINS SPECTRUM ANALYTICAL, INC., NORTH KINGSTON, RI

Field Contractor:

Data Review Contractor: EPA-ESAT

SDG: YA813, Certified - 12/9/2016 by wtse

QC Level: Tier 3 (S3VEM)

Project Manager: Don Gruber - Gilbane

Data Reviewer: Lisa Booker - ESAT

Data Reviewer Title: Validator

Date of Review Report: November 30, 2016

Second Reviewer: Tom Beer - Gilbane

Completion Date of Second Reviewer: December 16, 2016

Samples Included in SDG YA813

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
BNASIM/NONE	3	1
CVOL/NONE	3	2

AUTOMATED DATA REVIEW SUMMARY for YA813

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by EUROFINS SPECTRUM ANALYTICAL, INC., NORTH KINGSTON, RI and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate
- Lab Replicate RPD
- LCS Recovery
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Material Blank
- MS Recovery
- MS RPD
- Negative Blank

AUTOMATED DATA REVIEW SUMMARY for YA813

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 4 results (1.52%) out of the 264 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

The ESAT contractor reviewed the CLP Lab report, COCs as received by the lab, EXES report output, QA/QC forms, per EPA CLP SOW SOM02.3

No sample receipt issues noted.

Qualifiers were added to all four 1,4-dioxane non-detect results (UJ) because the extract was re-run out of holding time (H2).

No other qualifiers were addeed, and no data were rejected.

Released by Lisa Booker - ESAT, Validator	30-Nov-2016
Released by Tom Beer - Gilbane	16-Dec-2016

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	The analyte was found in an associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field duplicate precision
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for YA813

Batch Report

Test Method: BNASIM; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
S3J7724.D	2655	NA	LABQC	WQ	LABQC	24460LCS	S3J7704A.D	1/1	28-Sep-2016 11:18 AM	28-Sep-2016 11:18 AM	08-Oct-2016 11:38 PM	BS
	2655	NA	LABQC	WQ	LABQC	24459MB	S3J7704A.D	1/1	28-Sep-2016 11:18 AM	28-Sep-2016 11:18 AM	08-Oct-2016 11:27 PM	LB
	2655	NA	SAIA-MW11A	WG	SAIA-MW11A-0916	501152201	S3J7704A.D	1/1	22-Sep-2016 8:32 AM	28-Sep-2016 11:18 AM	08-Oct-2016 11:49 PM	N
	2655	NA	SAIA-MW11B	WG	SAIA-MW11B-0916	501152202	S3J7704A.D	1/1	22-Sep-2016 9:33 AM	28-Sep-2016 11:18 AM	09-Oct-2016 12:01 AM	N
	2655	NA	SAIA-MW11C	WG	SAIA-MW111C-0916	501152204	S3J7704A.D	1/1	22-Sep-2016 11:12 AM	28-Sep-2016 11:18 AM	09-Oct-2016 12:24 AM	FD
	2655	NA	SAIA-MW11C	WG	SAIA-MW11C-0916	501152203	S3J7704A.D	1/1	22-Sep-2016 10:30 AM	28-Sep-2016 11:18 AM	09-Oct-2016 12:12 AM	N
S3J7790.D	2815	NA	LABQC	WQ	LABQC	26275LCS	S3J7704A.D	1/1	11-Oct-2016 11:06 AM	11-Oct-2016 11:06 AM	12-Oct-2016 1:37 PM	BS
	2815	NA	LABQC	WQ	LABQC	26274MB	S3J7704A.D	1/1	11-Oct-2016 11:06 AM	11-Oct-2016 11:06 AM	12-Oct-2016 1:29 PM	LB
S3J7803.D	2655	NA	SAIA-MW11A	WG	SAIA-MW11A-0916	501152201	S3J7704A.D	1/1	22-Sep-2016 8:32 AM	28-Sep-2016 11:18 AM	12-Oct-2016 3:47 PM	N
	2655	NA	SAIA-MW11B	WG	SAIA-MW11B-0916	501152202	S3J7704A.D	1/1	22-Sep-2016 9:33 AM	28-Sep-2016 11:18 AM	12-Oct-2016 3:58 PM	N
	2655	NA	SAIA-MW11C	WG	SAIA-MW111C-0916	501152204	S3J7704A.D	1/1	22-Sep-2016 11:12 AM	28-Sep-2016 11:18 AM	12-Oct-2016 4:19 PM	FD
	2655	NA	SAIA-MW11C	WG	SAIA-MW11C-0916	501152203	S3J7704A.D	1/1	22-Sep-2016 10:30 AM	28-Sep-2016 11:18 AM	12-Oct-2016 4:08 PM	N

AUTOMATED DATA REVIEW SUMMARY for YA813

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
V5Q0015.D	V5Q0019.D	NA	LABQC	WQ	LABQC	24823MB	V5Q9698.D	1/1	02-Oct-2016 2:49 AM	02-Oct-2016 2:49 AM	02-Oct-2016 2:49 AM	LB
	V5Q0019.D	NA	LABQC	WQ	LABQC	24824SB	V5Q9698.D	1/1	02-Oct-2016 7:43 AM	02-Oct-2016 7:43 AM	02-Oct-2016 7:43 AM	LB
	V5Q9897.D	NA	SAIA-MW11C	WG	SAIA-MW111C-0916	501152204	V5Q9698.D	1/5	22-Sep-2016 11:12 AM	29-Sep-2016 7:49 PM	02-Oct-2016 3:16 AM	FD
	V5Q9897.D	NA	SAIA-MW11C	WG	SAIA-MW111C-0916	501152204	V5Q9698.D	1/5	22-Sep-2016 11:12 AM	29-Sep-2016 7:49 PM	02-Oct-2016 3:16 AM	LR
V5Q9881.D	V5Q9883.D	NA	LABQC	WQ	LABQC	24509MB	V5Q9698.D	1/1	29-Sep-2016 10:16 AM	29-Sep-2016 10:16 AM	29-Sep-2016 10:16 AM	LB
	V5Q9883.D	NA	SAIA-MW11A	WG	SAIA-MW11A-0916	501152201	V5Q9698.D	1/1	22-Sep-2016 8:32 AM	29-Sep-2016 2:02 PM	29-Sep-2016 2:02 PM	N
	V5Q9883.D	NA	SAIA-MW11B	WG	SAIA-MW11B-0916	501152202	V5Q9698.D	1/1	22-Sep-2016 9:33 AM	29-Sep-2016 2:29 PM	29-Sep-2016 2:29 PM	N
	V5Q9883.D	NA	SAIA-MW11C	WG	SAIA-MW11C-0916	501152203	V5Q9698.D	1/1	22-Sep-2016 10:30 AM	29-Sep-2016 2:56 PM	29-Sep-2016 2:56 PM	N
V5Q9895.D	V5Q9883.D	NA	SAIA-MW11B	WG	SAIA-MW11B-0916	501152202	V5Q9698.D	1/5	22-Sep-2016 9:33 AM	29-Sep-2016 2:29 PM	29-Sep-2016 6:56 PM	LR
	V5Q9883.D	NA	SAIA-MW11B	WG	SAIA-MW11B-0916	501152202	V5Q9698.D	1/5	22-Sep-2016 9:33 AM	29-Sep-2016 2:29 PM	29-Sep-2016 6:56 PM	N
	V5Q9883.D	NA	SAIA-MW11C	WG	SAIA-MW11C-0916	501152203	V5Q9698.D	1/5	22-Sep-2016 10:30 AM	29-Sep-2016 2:56 PM	29-Sep-2016 7:23 PM	LR
	V5Q9883.D	NA	SAIA-MW11C	WG	SAIA-MW11C-0916	501152203	V5Q9698.D	1/5	22-Sep-2016 10:30 AM	29-Sep-2016 2:56 PM	29-Sep-2016 7:23 PM	N
	V5Q9897.D	NA	FIELDQC	WQ	SAIA-RL03-0916	501152205	V5Q9698.D	1/1	22-Sep-2016 7:40 AM	29-Sep-2016 8:16 PM	29-Sep-2016 8:16 PM	TB
	V5Q9897.D	NA	LABQC	WQ	LABQC	24519MB	V5Q9698.D	1/1	29-Sep-2016 4:43 PM	29-Sep-2016 4:43 PM	29-Sep-2016 4:43 PM	LB
	V5Q9897.D	NA	SAIA-MW11C	WG	SAIA-MW111C-0916	501152204	V5Q9698.D	1/1	22-Sep-2016 11:12 AM	29-Sep-2016 7:49 PM	29-Sep-2016 7:49 PM	FD

AUTOMATED DATA REVIEW SUMMARY for YA813

Field Batch Report

Test Method: BNASIM		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	22091601		SAIA-MW11A	WG	SAIA-MW11A-0916	501152201	9/22/2016 8:32:00 AM	N
	22091601		SAIA-MW11B	WG	SAIA-MW11B-0916	501152202	9/22/2016 9:33:00 AM	N
	22091601		SAIA-MW11C	WG	SAIA-MW111C-0916	501152204	9/22/2016 11:12:00 AM	FD
	22091601		SAIA-MW11C	WG	SAIA-MW11C-0916	501152203	9/22/2016 10:30:00 AM	N
Test Method: CVOL		**Leach Method: NONE**						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	22091601		FIELDQC	WQ	SAIA-RL03-0916	501152205	9/22/2016 7:40:00 AM	TB
	22091601		SAIA-MW11A	WG	SAIA-MW11A-0916	501152201	9/22/2016 8:32:00 AM	N
	22091601		SAIA-MW11B	WG	SAIA-MW11B-0916	501152202	9/22/2016 9:33:00 AM	LR
	22091601		SAIA-MW11B	WG	SAIA-MW11B-0916	501152202	9/22/2016 9:33:00 AM	N
	22091601		SAIA-MW11C	WG	SAIA-MW111C-0916	501152204	9/22/2016 11:12:00 AM	FD
	22091601		SAIA-MW11C	WG	SAIA-MW111C-0916	501152204	9/22/2016 11:12:00 AM	LR
	22091601		SAIA-MW11C	WG	SAIA-MW11C-0916	501152203	9/22/2016 10:30:00 AM	LR
	22091601		SAIA-MW11C	WG	SAIA-MW11C-0916	501152203	9/22/2016 10:30:00 AM	N

AUTOMATED DATA REVIEW SUMMARY for YA813

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
BNASIM / SW3510C	Blank	24459MB (LB)	1 / 1.00	1,4-Dioxane (p-Dioxane)	0.610	ug/L	U/None	< 0.013	< 0.25	B1		1	0.610
BNASIM / SW3510C	LCS Recovery	24460LCS (BS)	1 / 1.00	1,4-Dioxane (p-Dioxane)	220	Percent	J/None	64 - 144	10 - 154	L			
BNASIM / SW3510C	LCS Recovery	26275LCS (BS)	1 / 1.00	1,4-Dioxane (p-Dioxane)	52.0	Percent	J/UJ	64 - 144	10 - 154	L			
CVOL / METHOD	Blank	24824SB (LB)	1 / 1.00	1,2,4-Trichlorobenzene	0.290	ug/L	U/None	< 0.1	< 0.5	B1		1	0.290
CVOL / METHOD	Blank	24824SB (LB)	1 / 1.00	1,2-Dichlorobenzene	0.440	ug/L	U/None	< 0.076	< 0.5	B1		1	0.440
CVOL / METHOD	Blank	24824SB (LB)	1 / 1.00	1,4-Dichlorobenzene	0.340	ug/L	U/None	< 0.09	< 0.5	B1		1	0.340

AUTOMATED DATA REVIEW SUMMARY for YA813

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	SAIA-MW111C-0916	FD	1,4-Dioxane (p-Dioxane)	0.25	0.25 B	0.25 UJ	ug/L	H2
BNASIM/NONE	WG	SAIA-MW11A-0916	N	1,4-Dioxane (p-Dioxane)	0.25	0.25 B	0.25 UJ	ug/L	H2
BNASIM/NONE	WG	SAIA-MW11B-0916	N	1,4-Dioxane (p-Dioxane)	0.25	0.25 B	0.25 UJ	ug/L	H2
BNASIM/NONE	WG	SAIA-MW11C-0916	N	1,4-Dioxane (p-Dioxane)	0.25	0.25 B	0.25 UJ	ug/L	H2

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW111C-0916	FD	1,1-Dichloroethene	0.50	0.30 J	0.30 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW11C-0916	N	1,1-Dichloroethene	0.50	0.27 J	0.27 J	ug/L	TR

AUTOMATED DATA REVIEW SUMMARY for YA813

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW111C-0916	FD	1,1-Dichloroethene	0.50	0.30 J	0.30 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW111C-0916	FD	cis-1,2-Dichloroethylene	2.5	61.0 D	61.0	ug/L	
CVOL/NONE	WG	SAIA-MW111C-0916	FD	trans-1,2-Dichloroethene	0.50	6.4	6.4	ug/L	
CVOL/NONE	WG	SAIA-MW111C-0916	FD	Trichloroethene (TCE)	0.50	9.4	9.4	ug/L	
CVOL/NONE	WG	SAIA-MW11B-0916	N	Acetone	5.0	7.1	7.1	ug/L	
CVOL/NONE	WG	SAIA-MW11B-0916	N	cis-1,2-Dichloroethylene	2.5	40.0 D	40.0	ug/L	
CVOL/NONE	WG	SAIA-MW11B-0916	N	trans-1,2-Dichloroethene	0.50	3.7	3.7	ug/L	
CVOL/NONE	WG	SAIA-MW11B-0916	N	Trichloroethene (TCE)	0.50	15.0	15.0	ug/L	
CVOL/NONE	WG	SAIA-MW11C-0916	N	1,1-Dichloroethene	0.50	0.27 J	0.27 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW11C-0916	N	cis-1,2-Dichloroethylene	2.5	55.0 D	55.0	ug/L	
CVOL/NONE	WG	SAIA-MW11C-0916	N	trans-1,2-Dichloroethene	0.50	7.2	7.2	ug/L	
CVOL/NONE	WG	SAIA-MW11C-0916	N	Trichloroethene (TCE)	0.50	11.0	11.0	ug/L	

AUTOMATED DATA REVIEW SUMMARY for YA813

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for Y9M81

Facility: Southern Avenue Industrial Area

Groundwater Monitoring Event, August 2014

Guidance Document:

Contract Laboratory: COMPUCHEM LABS, INC., CARY, NC

Field Contractor:

Data Review Contractor: ESAT/ICF International

SDG: Y9M81, Certified - 9/23/2014 by wtse

QC Level: Tier 3 (S3VEM)

Project Manager: Don Gruber

Data Reviewer: Anna Pajarillo (ESAT)

Data Reviewer Title: Validator

Date of Review Report: October 28, 2014

Second Reviewer: Tom Beer, Gilbane

Completion Date of Second Reviewer: October 31, 2014

Samples Included in SDG Y9M81

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
CVOL/NONE	6	2
WSM0011/NONE	6	1

AUTOMATED DATA REVIEW SUMMARY for Y9M81

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by COMPUCHEM LABS, INC., CARY, NC and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Equipment Blank
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Field Blank
- Field Duplicate RPD
- Initial Calibration Verification
- Lab Replicate RPD
- LCS Recovery
- Material Blank
- Negative Blank

AUTOMATED DATA REVIEW SUMMARY for Y9M81

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 13 results (3.07%) out of the 423 results (sample and field QC samples) reported are qualified based on review and 3 results (0.71%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

ESAT contractor reviewed CompuChem lab report, COCs, case narrative, and EXES data review package.

No sample receipt anomalies were noted. Calibration issues are discussed below.

Data qualifiers were added for high surrogate recoveries (S+), minor blank contaminants (K1, B1, B5), and several calibration anomalies (C11).

Three results for bromomethane were rejected (R) for low RRFs in CCVs (C10).

28-Oct-2014

Released by Anna Pajarillo (ESAT), Validator

31-Oct-2014

Released by Tom Beer, Gilbane

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action
O	Interference check sample

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.
J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for Y9M81

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
4I03008-CC	4090321_20	NA	LABQC	WQ	LABQC	4090321-BLK1	4090201	1/1	03-Sep-2014 7:31 PM	03-Sep-2014 7:31 PM	03-Sep-2014 7:31 PM	LB
	4090321_20	NA	SAIA-MW5A	WG	SAIA-MW5A-0814	1408088-01	4090201	1/1	27-Aug-2014 10:44 AM	03-Sep-2014 7:31 PM	03-Sep-2014 9:38 PM	N
	4090321_20	NA	SAIA-MW5B	WG	SAIA-MW5B-0814	1408088-02	4090201	1/1	27-Aug-2014 9:55 AM	03-Sep-2014 7:31 PM	03-Sep-2014 10:09 PM	N
	4090321_20	NA	SAIA-MW6A	WG	SAIA-MW6A-0814	1408088-04	4090201	1/1	27-Aug-2014 2:30 PM	03-Sep-2014 7:31 PM	03-Sep-2014 8:03 PM	N
4I04014-CC	4090419_20	NA	FIELDQC	WQ	SAIA-EL01-0814	1408088-07	4090201	1/1	27-Aug-2014 7:30 AM	04-Sep-2014 5:03 PM	04-Sep-2014 6:43 PM	EB
	4090419_20	NA	FIELDQC	WQ	SAIA-RL03-0814	1408088-08	4090201	1/1	27-Aug-2014 2:00 PM	04-Sep-2014 5:03 PM	04-Sep-2014 7:17 PM	TB
	4090419_20	NA	LABQC	WQ	LABQC	4090419-BLK1	4090201	1/1	04-Sep-2014 5:03 PM	04-Sep-2014 5:03 PM	04-Sep-2014 5:03 PM	LB
	4090419_20	NA	SAIA-MW6B	WG	SAIA-MW6B-0814	1408088-05	4090201	1/1	27-Aug-2014 1:34 PM	04-Sep-2014 5:03 PM	04-Sep-2014 5:36 PM	N
	4090419_20	NA	SAIA-MW6C	WG	SAIA-MW6C-0814	1408088-06	4090201	1/1	27-Aug-2014 12:01 PM	04-Sep-2014 5:03 PM	04-Sep-2014 6:10 PM	N
4I05013-TU	4090509_20	NA	LABQC	WQ	LABQC	4090509-BLK1	4090805	1/1	05-Sep-2014 10:33 PM	05-Sep-2014 10:33 PM	05-Sep-2014 10:33 PM	LB
	4090509_20	NA	SAIA-MW5A	WG	SAIA-MW5A-0814	1408088-01RE1	4090805	1/83.3	27-Aug-2014 10:44 AM	05-Sep-2014 10:33 PM	05-Sep-2014 11:04 PM	N
	4090509_20	NA	SAIA-MW5B	WG	SAIA-MW5B-0814	1408088-02RE1	4090805	1/500	27-Aug-2014 9:55 AM	05-Sep-2014 10:33 PM	06-Sep-2014 12:23 AM	N
	4090509_20	NA	SAIA-MW5C	WG	SAIA-MW5C-0814	1408088-03RE1	4090805	1/31.3	27-Aug-2014 9:04 AM	05-Sep-2014 10:33 PM	05-Sep-2014 11:44 PM	N
	4090509_20	NA	SAIA-MW6A	WG	SAIA-MW6A-0814	4090509-MS1	4090805	1/1	27-Aug-2014 2:30 PM	05-Sep-2014 10:33 PM	06-Sep-2014 3:44 AM	MS
	4090509_20	NA	SAIA-MW6A	WG	SAIA-MW6A-0814	4090509-MSD1	4090805	1/1	27-Aug-2014 2:30 PM	05-Sep-2014 10:33 PM	06-Sep-2014 4:14 AM	SD
	4090509_20	NA	SAIA-MW6C	WG	SAIA-MW6C-0814	1408088-06RE1	4090805	1/2.5	27-Aug-2014 12:01 PM	05-Sep-2014 10:33 PM	06-Sep-2014 1:03 AM	N
4I09009-CC	4090919_20	NA	LABQC	WQ	LABQC	4090919-BLK1	4090903	1/1	09-Sep-2014 6:03 PM	09-Sep-2014 6:03 PM	09-Sep-2014 6:03 PM	LB
	4090919_20	NA	SAIA-MW5C	WG	SAIA-MW5C-0814	1408088-03	4090903	1/1	27-Aug-2014 9:04 AM	09-Sep-2014 6:03 PM	09-Sep-2014 9:59 PM	N
4I10007-CC	4091004_20	NA	LABQC	WQ	LABQC	4091004-BLK1	4090903	1/1	10-Sep-2014 3:52 PM	10-Sep-2014 3:52 PM	10-Sep-2014 3:52 PM	LB
	4091004_20	NA	LABQC	WQ	LABQC	1408088-09	4090903	1/1	10-Sep-2014 4:24 PM	10-Sep-2014 4:24 PM	10-Sep-2014 4:24 PM	LB

AUTOMATED DATA REVIEW SUMMARY for Y9M81

Batch Report

Test Method: WSM0011; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
4I04004-CC	4082827_20	NA	FIELDQC	WQ	SAIA-EL01-0814	1408088-07	4082801_4H	1/1	27-Aug-2014 7:30 AM	02-Sep-2014 1:55 PM	04-Sep-2014 1:37 PM	EB
	4082827_20	NA	LABQC	WQ	LABQC	4082827-BLK1	4082801_4H	1/1	02-Sep-2014 1:55 PM	02-Sep-2014 1:55 PM	04-Sep-2014 11:10 AM	LB
	4082827_20	NA	SAIA-MW5A	WG	SAIA-MW5A-0814	1408088-01	4082801_4H	1/1	27-Aug-2014 10:44 AM	02-Sep-2014 1:55 PM	04-Sep-2014 10:45 AM	N
	4082827_20	NA	SAIA-MW5B	WG	SAIA-MW5B-0814	1408088-02	4082801_4H	1/1	27-Aug-2014 9:55 AM	02-Sep-2014 1:55 PM	04-Sep-2014 11:35 AM	N
	4082827_20	NA	SAIA-MW5B	WG	SAIA-MW5B-0814	1408088-02RE1	4082801_4H	1/5	27-Aug-2014 9:55 AM	02-Sep-2014 1:55 PM	04-Sep-2014 3:17 PM	N
	4082827_20	NA	SAIA-MW5C	WG	SAIA-MW5C-0814	1408088-03	4082801_4H	1/1	27-Aug-2014 9:04 AM	02-Sep-2014 1:55 PM	04-Sep-2014 11:59 AM	N
	4082827_20	NA	SAIA-MW6A	WG	SAIA-MW6A-0814	1408088-04	4082801_4H	1/1	27-Aug-2014 2:30 PM	02-Sep-2014 1:55 PM	04-Sep-2014 12:24 PM	N
	4082827_20	NA	SAIA-MW6B	WG	SAIA-MW6B-0814	1408088-05	4082801_4H	1/1	27-Aug-2014 1:34 PM	02-Sep-2014 1:55 PM	04-Sep-2014 12:48 PM	N
	4082827_20	NA	SAIA-MW6C	WG	SAIA-MW6C-0814	1408088-06	4082801_4H	1/1	27-Aug-2014 12:01 PM	02-Sep-2014 1:55 PM	04-Sep-2014 1:13 PM	N

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
27081401			FIELDQC	WQ	SAIA-EL01-0814	1408088-07	8/27/2014 7:30:00 AM	EB
27081401			SAIA-MW5A	WG	SAIA-MW5A-0814	1408088-01	8/27/2014 10:44:00 AM	N
27081401			SAIA-MW5A	WG	SAIA-MW5A-0814	1408088-01RE1	8/27/2014 10:44:00 AM	N
27081401			SAIA-MW5B	WG	SAIA-MW5B-0814	1408088-02	8/27/2014 9:55:00 AM	N
27081401			SAIA-MW5B	WG	SAIA-MW5B-0814	1408088-02RE1	8/27/2014 9:55:00 AM	N
27081401			SAIA-MW5C	WG	SAIA-MW5C-0814	1408088-03	8/27/2014 9:04:00 AM	N
27081401			SAIA-MW5C	WG	SAIA-MW5C-0814	1408088-03RE1	8/27/2014 9:04:00 AM	N
27081401			SAIA-MW6A	WG	SAIA-MW6A-0814	1408088-04	8/27/2014 2:30:00 PM	N
27081401			SAIA-MW6A	WG	SAIA-MW6A-0814	4090509-MS1	8/27/2014 2:30:00 PM	MS
27081401			SAIA-MW6A	WG	SAIA-MW6A-0814	4090509-MSD1	8/27/2014 2:30:00 PM	SD
27081401			SAIA-MW6B	WG	SAIA-MW6B-0814	1408088-05	8/27/2014 1:34:00 PM	N
27081401			SAIA-MW6C	WG	SAIA-MW6C-0814	1408088-06	8/27/2014 12:01:00 PM	N
27081401			SAIA-MW6C	WG	SAIA-MW6C-0814	1408088-06RE1	8/27/2014 12:01:00 PM	N

Test Method: WSM0011		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
27081401			FIELDQC	WQ	SAIA-EL01-0814	1408088-07	8/27/2014 7:30:00 AM	EB
27081401			SAIA-MW5A	WG	SAIA-MW5A-0814	1408088-01	8/27/2014 10:44:00 AM	N
27081401			SAIA-MW5B	WG	SAIA-MW5B-0814	1408088-02	8/27/2014 9:55:00 AM	N
27081401			SAIA-MW5B	WG	SAIA-MW5B-0814	1408088-02RE1	8/27/2014 9:55:00 AM	N
27081401			SAIA-MW5C	WG	SAIA-MW5C-0814	1408088-03	8/27/2014 9:04:00 AM	N
27081401			SAIA-MW6A	WG	SAIA-MW6A-0814	1408088-04	8/27/2014 2:30:00 PM	N
27081401			SAIA-MW6B	WG	SAIA-MW6B-0814	1408088-05	8/27/2014 1:34:00 PM	N
27081401			SAIA-MW6C	WG	SAIA-MW6C-0814	1408088-06	8/27/2014 12:01:00 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9M81

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	27081401		FIELDQC	WQ	SAIA-RL03-0814	1408088-08	8/27/2014 2:00:00 PM	TB
	27081401		SAIA-MW5A	WG	SAIA-MW5A-0814	1408088-01	8/27/2014 10:44:00 AM	N
	27081401		SAIA-MW5A	WG	SAIA-MW5A-0814	1408088-01RE1	8/27/2014 10:44:00 AM	N
	27081401		SAIA-MW5B	WG	SAIA-MW5B-0814	1408088-02	8/27/2014 9:55:00 AM	N
	27081401		SAIA-MW5B	WG	SAIA-MW5B-0814	1408088-02RE1	8/27/2014 9:55:00 AM	N
	27081401		SAIA-MW5C	WG	SAIA-MW5C-0814	1408088-03	8/27/2014 9:04:00 AM	N
	27081401		SAIA-MW5C	WG	SAIA-MW5C-0814	1408088-03RE1	8/27/2014 9:04:00 AM	N
	27081401		SAIA-MW6A	WG	SAIA-MW6A-0814	1408088-04	8/27/2014 2:30:00 PM	N
	27081401		SAIA-MW6A	WG	SAIA-MW6A-0814	4090509-MS1	8/27/2014 2:30:00 PM	MS
	27081401		SAIA-MW6A	WG	SAIA-MW6A-0814	4090509-MSD1	8/27/2014 2:30:00 PM	SD
	27081401		SAIA-MW6B	WG	SAIA-MW6B-0814	1408088-05	8/27/2014 1:34:00 PM	N
	27081401		SAIA-MW6C	WG	SAIA-MW6C-0814	1408088-06	8/27/2014 12:01:00 PM	N
	27081401		SAIA-MW6C	WG	SAIA-MW6C-0814	1408088-06RE1	8/27/2014 12:01:00 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9M81

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
CVOL / METHOD	Blank	1408088-09 (LB)	1 / 1.00	Chloroform	0.110	ug/L	U/None	< 0.04	< 0.5	B1			
CVOL / METHOD	Blank	1408088-09 (LB)	1 / 1.00	Methylene Chloride	0.320	ug/L	U/None	< 0.21	< 0.5	B1			
CVOL / METHOD	Blank	1408088-09 (LB)	1 / 1.00	Toluene	0.0560	ug/L	U/None	< 0.05	< 0.5	B1			
CVOL / METHOD	Blank	4090419-BLK1 (LB)	1 / 1.00	cis-1,2-Dichloroethylene	0.180	ug/L	U/None	< 0.09	< 0.5	B1			
CVOL / METHOD	Blank	4090419-BLK1 (LB)	1 / 1.00	Ethylbenzene	0.0500	ug/L	U/None	< 0.03	< 0.5	B1			
CVOL / METHOD	Blank	4090419-BLK1 (LB)	1 / 1.00	m,p-Xylene	0.190	ug/L	U/None	< 0.03	< 0.5	B1			
CVOL / METHOD	Blank	4090419-BLK1 (LB)	1 / 1.00	Methylene Chloride	0.440	ug/L	U/None	< 0.21	< 0.5	B1			
CVOL / METHOD	Blank	4090419-BLK1 (LB)	1 / 1.00	o-Xylene	0.0380	ug/L	U/None	< 0.03	< 0.5	B1			
CVOL / METHOD	Blank	4090419-BLK1 (LB)	1 / 1.00	Toluene	0.140	ug/L	U/None	< 0.05	< 0.5	B1			
CVOL / METHOD	Blank	4090509-BLK1 (LB)	1 / 1.00	Toluene	0.0500	ug/L	U/None	< 0.05	< 0.5	B1			
CVOL / METHOD	Blank	4090919-BLK1 (LB)	1 / 1.00	Toluene	0.0720	ug/L	U/None	< 0.05	< 0.5	B1			
CVOL / METHOD	Blank	4091004-BLK1 (LB)	1 / 1.00	Toluene	0.0780	ug/L	U/None	< 0.05	< 0.5	B1			
CVOL / METHOD	Equipment Blank	SAIA-EL01-0814 (EB)	1 / 1.00	2-Butanone (MEK)	3.80	ug/L	U/None	< 1	< 5	K1			
CVOL / METHOD	Equipment Blank	SAIA-EL01-0814 (EB)	1 / 1.00	Acetone	20.0	ug/L	U/None	< 2.7	< 5	K1	Blank is over 3X RL		
CVOL / METHOD	MS RPD	4090509-MSD1 (SD)	1 / 1.00	Ethylbenzene	200	RPD	J/UJ	< 30	< 60	D2		RPD	
CVOL / METHOD	MS RPD	4090509-MSD1 (SD)	1 / 1.00	m,p-Xylene	37.2	RPD	J/UJ	< 30	< 60	D2		RPD	

AUTOMATED DATA REVIEW SUMMARY for Y9M81

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WQ	SAIA-EL01-0814	EB	2-Butanone (MEK)	5.0	3.8 J	3.8 J	ug/L	TR
CVOL/NONE	WQ	SAIA-EL01-0814	EB	Bromomethane	0.50	0.50 U	0.50 UJ	ug/L	C11
CVOL/NONE	WQ	SAIA-EL01-0814	EB	Toluene	0.50	0.50 JB	0.50 U	ug/L	B1/B5
CVOL/NONE	WG	SAIA-MW5A-0814	N	1,1-Dichloroethane	0.50	0.42 J	0.42 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW5A-0814	N	Bromomethane	0.50	0.50 U	0.50 R	ug/L	C10
CVOL/NONE	WG	SAIA-MW5A-0814	N	Methylcyclohexane	0.50	0.090 J	0.090 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW5A-0814	N	Styrene	0.50	0.041 J	0.041 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW5A-0814	N	trans-1,2-Dichloroethene	42.0	24.0 JD	24.0 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW5B-0814	N	Benzene	0.50	0.36 J	0.36 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW5B-0814	N	Bromomethane	0.50	0.50 U	0.50 R	ug/L	C10
CVOL/NONE	WG	SAIA-MW5B-0814	N	Cyclohexane	0.50	0.16 J	0.16 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW5B-0814	N	Methylcyclohexane	0.50	0.22 J	0.22 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW5B-0814	N	Styrene	0.50	0.055 J	0.055 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW5B-0814	N	trans-1,2-Dichloroethene	250	120 JD	120 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW5B-0814	N	Trichloroethene (TCE)	250	99.0 JD	99.0 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW5C-0814	N	1,1-Dichloroethane	0.50	0.64	0.64 J	ug/L	S
CVOL/NONE	WG	SAIA-MW5C-0814	N	1,1-Dichloroethene	0.50	0.80	0.80 J	ug/L	S
CVOL/NONE	WG	SAIA-MW5C-0814	N	1,2-Dichloropropane	0.50	0.26 J	0.26 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW5C-0814	N	Benzene	0.50	0.18 J	0.18 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW5C-0814	N	Cyclohexane	0.50	0.15 J	0.15 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW5C-0814	N	Toluene	0.50	0.50 JB	0.50 U	ug/L	B1/B5
CVOL/NONE	WG	SAIA-MW6A-0814	N	Bromomethane	0.50	0.50 U	0.50 UJ	ug/L	C11
CVOL/NONE	WG	SAIA-MW6A-0814	N	Styrene	0.50	0.034 J	0.034 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW6A-0814	N	tert-Butyl Methyl Ether (MTBE)	0.50	0.19 J	0.19 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW6B-0814	N	Bromomethane	0.50	0.50 U	0.50 UJ	ug/L	C11
CVOL/NONE	WG	SAIA-MW6B-0814	N	Styrene	0.50	0.048 J	0.048 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW6C-0814	N	Acetone	5.0	4.1 J	5.0 U	ug/L	K1

AUTOMATED DATA REVIEW SUMMARY for Y9M81

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW6C-0814	N	Bromomethane	0.50	0.50 U	0.50 R	ug/L	C10
CVOL/NONE	WG	SAIA-MW6C-0814	N	Carbon Disulfide	0.50	0.24 J	0.24 J	ug/L	TR
CVOL/NONE	WQ	SAIA-RL03-0814	TB	Bromomethane	0.50	0.50 U	0.50 UJ	ug/L	C11
CVOL/NONE	WQ	SAIA-RL03-0814	TB	Methylene Chloride	0.50	0.50 JB	0.50 U	ug/L	B1/B5

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
WSM0011/NONE	WG	SAIA-MW6B-0814	N	1,4-Dioxane (p-Dioxane)	0.45	0.26 J	0.26 J	ug/L	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WQ	SAIA-EL01-0814	EB	Acetone	5.0	20.0	20.0	ug/L	
CVOL/NONE	WQ	SAIA-EL01-0814	EB	2-Butanone (MEK)	5.0	3.8 J	3.8 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW5A-0814	N	Toluene	0.50	0.77	0.77	ug/L	
CVOL/NONE	WG	SAIA-MW5A-0814	N	Methylcyclohexane	0.50	0.090 J	0.090 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW5A-0814	N	1,1-Dichloroethane	0.50	0.42 J	0.42 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW5A-0814	N	1,1-Dichloroethene	0.50	0.89	0.89	ug/L	
CVOL/NONE	WG	SAIA-MW5A-0814	N	cis-1,2-Dichloroethylene	42.0	520 D	520	ug/L	
CVOL/NONE	WG	SAIA-MW5A-0814	N	trans-1,2-Dichloroethene	42.0	24.0 JD	24.0 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW5A-0814	N	Styrene	0.50	0.041 J	0.041 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW5A-0814	N	Trichloroethene (TCE)	0.50	1.9	1.9	ug/L	
CVOL/NONE	WG	SAIA-MW5A-0814	N	Vinyl Chloride	0.50	0.72	0.72	ug/L	
CVOL/NONE	WG	SAIA-MW5B-0814	N	Benzene	0.50	0.36 J	0.36 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW5B-0814	N	Toluene	0.50	1.2	1.2	ug/L	
CVOL/NONE	WG	SAIA-MW5B-0814	N	Carbon Disulfide	0.50	0.96	0.96	ug/L	
CVOL/NONE	WG	SAIA-MW5B-0814	N	Methylcyclohexane	0.50	0.22 J	0.22 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW5B-0814	N	Cyclohexane	0.50	0.16 J	0.16 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW5B-0814	N	1,1-Dichloroethane	0.50	9.5	9.5	ug/L	
CVOL/NONE	WG	SAIA-MW5B-0814	N	1,2-Dichloroethane	0.50	0.52	0.52	ug/L	
CVOL/NONE	WG	SAIA-MW5B-0814	N	1,1-Dichloroethene	0.50	5.5	5.5	ug/L	
CVOL/NONE	WG	SAIA-MW5B-0814	N	cis-1,2-Dichloroethylene	250	3600 D	3600	ug/L	
CVOL/NONE	WG	SAIA-MW5B-0814	N	trans-1,2-Dichloroethene	250	120 JD	120 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW5B-0814	N	Styrene	0.50	0.055 J	0.055 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW5B-0814	N	1,1,2-Trichloroethane	0.50	0.84	0.84	ug/L	
CVOL/NONE	WG	SAIA-MW5B-0814	N	Trichloroethene (TCE)	250	99.0 JD	99.0 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW5B-0814	N	Vinyl Chloride	0.50	4.5	4.5	ug/L	
CVOL/NONE	WG	SAIA-MW5C-0814	N	Benzene	0.50	0.18 J	0.18 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW5C-0814	N	Cyclohexane	0.50	0.15 J	0.15 J	ug/L	TR

AUTOMATED DATA REVIEW SUMMARY for Y9M81

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW5C-0814	N	1,1-Dichloroethane	0.50	0.64	0.64 J	ug/L	S
CVOL/NONE	WG	SAIA-MW5C-0814	N	1,2-Dichloroethane	0.50	1.9	1.9	ug/L	
CVOL/NONE	WG	SAIA-MW5C-0814	N	1,1-Dichloroethene	0.50	0.80	0.80 J	ug/L	S
CVOL/NONE	WG	SAIA-MW5C-0814	N	cis-1,2-Dichloroethylene	16.0	320 D	320	ug/L	
CVOL/NONE	WG	SAIA-MW5C-0814	N	trans-1,2-Dichloroethene	16.0	25.0 D	25.0	ug/L	
CVOL/NONE	WG	SAIA-MW5C-0814	N	1,2-Dichloropropane	0.50	0.26 J	0.26 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW5C-0814	N	Trichloroethene (TCE)	0.50	4.8	4.8	ug/L	
CVOL/NONE	WG	SAIA-MW6A-0814	N	Toluene	0.50	0.68	0.68	ug/L	
CVOL/NONE	WG	SAIA-MW6A-0814	N	Styrene	0.50	0.034 J	0.034 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW6A-0814	N	tert-Butyl Methyl Ether (MTBE)	0.50	0.19 J	0.19 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW6B-0814	N	Toluene	0.50	0.99 B	0.99	ug/L	
CVOL/NONE	WG	SAIA-MW6B-0814	N	cis-1,2-Dichloroethylene	0.50	14.0 B	14.0	ug/L	
CVOL/NONE	WG	SAIA-MW6B-0814	N	trans-1,2-Dichloroethene	0.50	5.1	5.1	ug/L	
CVOL/NONE	WG	SAIA-MW6B-0814	N	Styrene	0.50	0.048 J	0.048 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW6B-0814	N	Trichloroethene (TCE)	0.50	3.6	3.6	ug/L	
CVOL/NONE	WG	SAIA-MW6C-0814	N	Carbon Disulfide	0.50	0.24 J	0.24 J	ug/L	TR
CVOL/NONE	WG	SAIA-MW6C-0814	N	cis-1,2-Dichloroethylene	1.3	21.0 D	21.0	ug/L	
CVOL/NONE	WG	SAIA-MW6C-0814	N	trans-1,2-Dichloroethene	0.50	2.8	2.8	ug/L	
CVOL/NONE	WG	SAIA-MW6C-0814	N	Trichloroethene (TCE)	0.50	2.4	2.4	ug/L	

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
WSM0011/NONE	WG	SAIA-MW5A-0814	N	1,4-Dioxane (p-Dioxane)	0.45	2.3	2.3	ug/L	
WSM0011/NONE	WG	SAIA-MW5B-0814	N	1,4-Dioxane (p-Dioxane)	2.3	23.0 D	23.0	ug/L	
WSM0011/NONE	WG	SAIA-MW5C-0814	N	1,4-Dioxane (p-Dioxane)	0.45	3.2	3.2	ug/L	
WSM0011/NONE	WG	SAIA-MW6A-0814	N	1,4-Dioxane (p-Dioxane)	0.46	0.53	0.53	ug/L	
WSM0011/NONE	WG	SAIA-MW6B-0814	N	1,4-Dioxane (p-Dioxane)	0.45	0.26 J	0.26 J	ug/L	TR

AUTOMATED DATA REVIEW SUMMARY for Y9M81

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
WSM0011/NONE	WG	SAIA-MW6C-0814	N	1,4-Dioxane (p-Dioxane)	0.45	0.52	0.52	ug/L	

AUTOMATED DATA REVIEW SUMMARY for Y9M81

Rejected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-MW5A-0814	N	Bromomethane	0.50	0.50 U	R	ug/L	C10
CVOL/NONE	WG	SAIA-MW5B-0814	N	Bromomethane	0.50	0.50 U	R	ug/L	C10
CVOL/NONE	WG	SAIA-MW6C-0814	N	Bromomethane	0.50	0.50 U	R	ug/L	C10

AUTOMATED DATA REVIEW SUMMARY for Y9M81

AUTOMATED DATA REVIEW SUMMARY for Y9XT5

Facility: Southern Avenue Industrial Area

CPT Groundwater Sampling, July 2015

Guidance Document:

Contract Laboratory: KAP TECHNOLOGIES INC., THE WOODLANDS, TX

Field Contractor:

Data Review Contractor: ESAT/ICF International

SDG: Y9XT5, Certified - 8/26/2015 by wtse

QC Level: S3VEM

Project Manager: Don Gruber

Data Reviewer: Estrellita Manuel

Data Reviewer Title: Validator

Date of Review Report: September 30, 2015

Second Reviewer: Tom Beer - Gilbane

Completion Date of Second Reviewer: March 07, 2016

Samples Included in SDG Y9XT5

Analytical Method/ Leach Method	Normal Water Samples	Field QC Water Samples
BNASIM/NONE	14	2
CVOL/NONE	15	5

AUTOMATED DATA REVIEW SUMMARY for Y9XT5

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by KAP TECHNOLOGIES INC., THE WOODLANDS, TX and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- LCS Recovery
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- Negative Blank

AUTOMATED DATA REVIEW SUMMARY for Y9XT5

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 7 results (0.66%) out of the 1056 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

ESAT validator checked the CLP lab case narrative, the EXES review report, and laboratory data report, including COCs as received.

No sample receipt anomalies requred data qualification. Qualifiers were added to some isopropylbenzene data for CCV anomalies.

Data qualifiers were also added for minor acetone and methylene chloride detects in method (B1) and trip (K3) blanks.

The TCE result in sample SAIA-CPT19-60 was changed from ND to 1.2 ug/L, for false negative identification. No data were rejected.

30-Sep-2015

Released by Estrellita Manuel, Validator

07-Mar-2016

Released by Tom Beer - Gilbane

Reason and Comment Code Definitions

Comments

Code	Definition
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons

Code	Definition
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for Y9XT5

Batch Report

Test Method: BNASIM; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
C21918	C21920	NA	LABQC	WQ	LABQC	SBLK62	C21789	1/1	28-Jul-2015 2:55 PM	28-Jul-2015 2:55 PM	11-Aug-2015 12:45 PM	LB
	C21920	NA	SAIA-CPT14	WG	SAIA-CPT14-130	S-1123.05	C21789	1/1	23-Jul-2015 2:05 PM	28-Jul-2015 2:55 PM	11-Aug-2015 2:52 PM	N
	C21920	NA	SAIA-CPT14	WG	SAIA-CPT14-60	S-1123.01	C21789	1/1	23-Jul-2015 11:45 AM	28-Jul-2015 2:55 PM	11-Aug-2015 1:59 PM	N
	C21920	NA	SAIA-CPT14	WG	SAIA-CPT14-75	S-1123.03	C21789	1/1	23-Jul-2015 12:15 PM	28-Jul-2015 2:55 PM	11-Aug-2015 2:26 PM	N
	C21920	NA	SAIA-CPT14	WG	SAIA-CPT14-76	S-1123.02	C21789	1/1	23-Jul-2015 12:20 PM	28-Jul-2015 2:55 PM	11-Aug-2015 2:13 PM	FD
	C21920	NA	SAIA-CPT14	WG	SAIA-CPT14-90	S-1123.04	C21789	1/1	23-Jul-2015 1:15 PM	28-Jul-2015 2:55 PM	11-Aug-2015 2:39 PM	N
	C21920	NA	SAIA-CPT19	WG	SAIA-CPT19-105	S-1123.09	C21789	1/1	24-Jul-2015 12:40 PM	28-Jul-2015 2:55 PM	11-Aug-2015 3:44 PM	N
	C21920	NA	SAIA-CPT19	WG	SAIA-CPT19-130	S-1123.10	C21789	1/1	24-Jul-2015 1:25 PM	28-Jul-2015 2:55 PM	11-Aug-2015 3:57 PM	N
	C21920	NA	SAIA-CPT19	WG	SAIA-CPT19-45	S-1127.04	C21789	1/1	27-Jul-2015 7:50 AM	28-Jul-2015 2:55 PM	11-Aug-2015 5:56 PM	N
	C21920	NA	SAIA-CPT19	WG	SAIA-CPT19-75	S-1123.07	C21789	1/1	24-Jul-2015 10:25 AM	28-Jul-2015 2:55 PM	11-Aug-2015 3:18 PM	N
	C21920	NA	SAIA-CPT19	WG	SAIA-CPT19-90	S-1123.08	C21789	1/1	24-Jul-2015 11:50 AM	28-Jul-2015 2:55 PM	11-Aug-2015 3:31 PM	N
	C21920	NA	SAIA-CPT20	WG	SAIA-CPT20-105	S-1127.05	C21789	1/1	27-Jul-2015 12:45 PM	28-Jul-2015 2:55 PM	11-Aug-2015 6:10 PM	N
	C21920	NA	SAIA-CPT20	WG	SAIA-CPT20-60	S-1127.01	C21789	1/1	27-Jul-2015 10:45 AM	28-Jul-2015 2:55 PM	11-Aug-2015 5:13 PM	N
	C21920	NA	SAIA-CPT20	WG	SAIA-CPT20-75	S-1127.02	C21789	1/1	27-Jul-2015 11:40 AM	28-Jul-2015 2:55 PM	11-Aug-2015 5:27 PM	N
	C21920	NA	SAIA-CPT20	WG	SAIA-CPT20-76	S-1127.03	C21789	1/1	27-Jul-2015 11:45 AM	28-Jul-2015 2:55 PM	11-Aug-2015 5:41 PM	FD
	C21921	NA	LABQC	WQ	LABQC	SLCS62	C21789	1/1	28-Jul-2015 2:55 PM	28-Jul-2015 2:55 PM	11-Aug-2015 1:34 PM	BS
C21939	C21920	NA	SAIA-CPT19	WG	SAIA-CPT19-60	S-1123.06	C21789	1/1	24-Jul-2015 9:50 AM	28-Jul-2015 2:55 PM	12-Aug-2015 3:12 PM	N
	C21941	NA	LABQC	WQ	LABQC	SBLK66	C21789	1/1	01-Aug-2015 1:05 PM	01-Aug-2015 1:05 PM	12-Aug-2015 10:44 AM	LB
	C21941	NA	SAIA-CPT15	WG	SAIA-CPT15-60	S-1136.01	C21789	1/1	28-Jul-2015 9:25 AM	01-Aug-2015 1:05 PM	12-Aug-2015 1:41 PM	N
	C21942	NA	LABQC	WQ	LABQC	SLCS66	C21789	1/1	01-Aug-2015 1:05 PM	01-Aug-2015 1:05 PM	12-Aug-2015 10:57 AM	BS

AUTOMATED DATA REVIEW SUMMARY for Y9XT5

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
G32582	G32586	NA	LABQC	WQ	LABQC	VBLK7P	G32568	1/1	01-Aug-2015 11:36 AM	01-Aug-2015 11:36 AM	01-Aug-2015 11:36 AM	LB
	G32586	NA	SAIA-CPT14	WG	SAIA-CPT14-130	S-1123.05	G32568	1/10	23-Jul-2015 2:05 PM	01-Aug-2015 4:32 PM	01-Aug-2015 4:32 PM	N
	G32586	NA	SAIA-CPT14	WG	SAIA-CPT14-60	S-1123.01	G32568	1/1	23-Jul-2015 11:45 AM	01-Aug-2015 12:09 PM	01-Aug-2015 12:09 PM	N
	G32586	NA	SAIA-CPT14	WG	SAIA-CPT14-75	S-1123.03	G32568	1/1	23-Jul-2015 12:15 PM	01-Aug-2015 2:37 PM	01-Aug-2015 2:37 PM	N
	G32586	NA	SAIA-CPT14	WG	SAIA-CPT14-76	S-1123.02	G32568	1/1	23-Jul-2015 12:20 PM	01-Aug-2015 12:39 PM	01-Aug-2015 12:39 PM	FD
	G32586	NA	SAIA-CPT14	WG	SAIA-CPT14-90	S-1123.04	G32568	1/5	23-Jul-2015 1:15 PM	01-Aug-2015 3:35 PM	01-Aug-2015 3:35 PM	N
	G32586	NA	SAIA-CPT19	WG	SAIA-CPT19-60	S-1123.06	G32568	1/1	24-Jul-2015 9:50 AM	01-Aug-2015 5:56 PM	01-Aug-2015 5:56 PM	N
	G32586	NA	SAIA-CPT19	WG	SAIA-CPT19-75	S-1123.07	G32568	1/1	24-Jul-2015 10:25 AM	01-Aug-2015 6:24 PM	01-Aug-2015 6:24 PM	N
	G32586	NA	SAIA-CPT19	WG	SAIA-CPT19-90	S-1123.08	G32568	1/1	24-Jul-2015 11:50 AM	01-Aug-2015 7:52 PM	01-Aug-2015 7:52 PM	N
G32603	G32605	NA	FIELDQC	WQ	SAIA-RL01-0715	S-1123.11	G32568	1/1	23-Jul-2015 11:20 AM	02-Aug-2015 12:12 PM	02-Aug-2015 12:12 PM	TB
	G32605	NA	FIELDQC	WQ	SAIA-RL02-0715	S-1123.12	G32568	1/1	24-Jul-2015 8:00 AM	02-Aug-2015 12:40 PM	02-Aug-2015 12:40 PM	TB
	G32605	NA	LABQC	WQ	LABQC	VBLK7R	G32568	1/1	02-Aug-2015 11:36 AM	02-Aug-2015 11:36 AM	02-Aug-2015 11:36 AM	LB
	G32605	NA	SAIA-CPT14	WG	SAIA-CPT14-130	S-1123.05	G32568	1/50	23-Jul-2015 2:05 PM	02-Aug-2015 7:15 PM	02-Aug-2015 7:15 PM	N
	G32605	NA	SAIA-CPT14	WG	SAIA-CPT14-75	S-1123.03	G32568	1/10	23-Jul-2015 12:15 PM	02-Aug-2015 6:17 PM	02-Aug-2015 6:17 PM	N
	G32605	NA	SAIA-CPT14	WG	SAIA-CPT14-76	S-1123.02	G32568	1/10	23-Jul-2015 12:20 PM	02-Aug-2015 5:47 PM	02-Aug-2015 5:47 PM	FD
	G32605	NA	SAIA-CPT14	WG	SAIA-CPT14-90	S-1123.04	G32568	1/50	23-Jul-2015 1:15 PM	02-Aug-2015 6:46 PM	02-Aug-2015 6:46 PM	N
	G32605	NA	SAIA-CPT19	WG	SAIA-CPT19-105	S-1123.09	G32568	1/1	24-Jul-2015 12:40 PM	02-Aug-2015 3:05 PM	02-Aug-2015 3:05 PM	N
	G32605	NA	SAIA-CPT19	WG	SAIA-CPT19-105	S-1123.09	G32568	1/10	24-Jul-2015 12:40 PM	02-Aug-2015 8:40 PM	02-Aug-2015 8:40 PM	N
	G32605	NA	SAIA-CPT19	WG	SAIA-CPT19-130	S-1123.10	G32568	1/50	24-Jul-2015 1:25 PM	02-Aug-2015 9:09 PM	02-Aug-2015 9:09 PM	N
	G32605	NA	SAIA-CPT19	WG	SAIA-CPT19-75	S-1123.07MS	G32568	1/1	24-Jul-2015 10:25 AM	02-Aug-2015 1:09 PM	02-Aug-2015 1:09 PM	MS
	G32605	NA	SAIA-CPT19	WG	SAIA-CPT19-75	S-1123.07	G32568	1/10	24-Jul-2015 10:25 AM	02-Aug-2015 7:44 PM	02-Aug-2015 7:44 PM	N
	G32605	NA	SAIA-CPT19	WG	SAIA-CPT19-75	S-1123.07MSD	G32568	1/1	24-Jul-2015 10:25 AM	02-Aug-2015 2:06 PM	02-Aug-2015 2:06 PM	SD

AUTOMATED DATA REVIEW SUMMARY for Y9XT5

Batch Report

Test Method: CVOL; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
G32603	G32605	NA	SAIA-CPT19	WG	SAIA-CPT19-90	S-1123.08	G32568	1/10	24-Jul-2015 11:50 AM	02-Aug-2015 8:12 PM	02-Aug-2015 8:12 PM	N
G32626	G32628	NA	LABQC	WQ	LABQC	VBLK7S	G32568	1/1	03-Aug-2015 10:36 AM	03-Aug-2015 10:36 AM	03-Aug-2015 10:36 AM	LB
	G32628	NA	SAIA-CPT19	WG	SAIA-CPT19-130	S-1123.10	G32568	1/5	24-Jul-2015 1:25 PM	03-Aug-2015 1:02 PM	03-Aug-2015 1:02 PM	N
	G32628	NA	SAIA-CPT19	WG	SAIA-CPT19-45	S-1127.04	G32568	1/1	27-Jul-2015 7:50 AM	03-Aug-2015 2:08 PM	03-Aug-2015 2:08 PM	N
	G32628	NA	SAIA-CPT20	WG	SAIA-CPT20-105	S-1127.05	G32568	1/1	27-Jul-2015 12:45 PM	03-Aug-2015 3:05 PM	03-Aug-2015 3:05 PM	N
	G32628	NA	SAIA-CPT20	WG	SAIA-CPT20-130	S-1127.06	G32568	1/1	27-Jul-2015 1:45 PM	03-Aug-2015 6:05 PM	03-Aug-2015 6:05 PM	N
	G32628	NA	SAIA-CPT20	WG	SAIA-CPT20-60	S-1127.01	G32568	1/1	27-Jul-2015 10:45 AM	03-Aug-2015 2:36 PM	03-Aug-2015 2:36 PM	N
	G32628	NA	SAIA-CPT20	WG	SAIA-CPT20-75	S-1127.02	G32568	1/1	27-Jul-2015 11:40 AM	03-Aug-2015 5:08 PM	03-Aug-2015 5:08 PM	N
	G32628	NA	SAIA-CPT20	WG	SAIA-CPT20-76	S-1127.03	G32568	1/1	27-Jul-2015 11:45 AM	03-Aug-2015 4:33 PM	03-Aug-2015 4:33 PM	FD
G32650	G32652	NA	LABQC	WQ	LABQC	VBLK7U	G32568	1/1	04-Aug-2015 3:32 PM	04-Aug-2015 3:32 PM	04-Aug-2015 3:32 PM	LB
	G32652	NA	SAIA-CPT15	WG	SAIA-CPT15-60	S-1136.01	G32568	1/1	28-Jul-2015 9:25 AM	04-Aug-2015 4:06 PM	04-Aug-2015 4:06 PM	N
G32672	G32674	NA	FIELDQC	WQ	SAIA-RL03-0715	S-1127.07	G32568	1/1	27-Jul-2015 7:20 AM	05-Aug-2015 2:52 PM	05-Aug-2015 2:52 PM	TB
	G32674	NA	LABQC	WQ	LABQC	VBLK7X	G32568	1/1	05-Aug-2015 11:52 AM	05-Aug-2015 11:52 AM	05-Aug-2015 11:52 AM	LB
	G32674	NA	SAIA-CPT20	WG	SAIA-CPT20-130	S-1127.06	G32568	1/5	27-Jul-2015 1:45 PM	05-Aug-2015 2:24 PM	05-Aug-2015 2:24 PM	N
G32783	G32785	NA	LABQC	WQ	LABQC	VBLK8M	G32727	1/1	13-Aug-2015 12:49 PM	13-Aug-2015 12:49 PM	13-Aug-2015 12:49 PM	LB
	G32785	NA	LABQC	WQ	LABQC	S-1123.13	G32727	1/1	13-Aug-2015 1:52 PM	13-Aug-2015 1:52 PM	13-Aug-2015 1:52 PM	LB

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	27071501		FIELDQC	WQ	SAIA-RL03-0715	S-1127.07	7/27/2015 7:20:00 AM	TB
	27071501		SAIA-CPT19	WG	SAIA-CPT19-45	S-1127.04	7/27/2015 7:50:00 AM	N
	27071501		SAIA-CPT20	WG	SAIA-CPT20-105	S-1127.05	7/27/2015 12:45:00 PM	N
	27071501		SAIA-CPT20	WG	SAIA-CPT20-130	S-1127.06	7/27/2015 1:45:00 PM	N
	27071501		SAIA-CPT20	WG	SAIA-CPT20-60	S-1127.01	7/27/2015 10:45:00 AM	N
	27071501		SAIA-CPT20	WG	SAIA-CPT20-75	S-1127.02	7/27/2015 11:40:00 AM	N
	27071501		SAIA-CPT20	WG	SAIA-CPT20-76	S-1127.03	7/27/2015 11:45:00 AM	FD

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	24071501		FIELDQC	WQ	SAIA-RL02-0715	S-1123.12	7/24/2015 8:00:00 AM	TB
	24071501		SAIA-CPT19	WG	SAIA-CPT19-105	S-1123.09	7/24/2015 12:40:00 PM	N
	24071501		SAIA-CPT19	WG	SAIA-CPT19-130	S-1123.10	7/24/2015 1:25:00 PM	N
	24071501		SAIA-CPT19	WG	SAIA-CPT19-60	S-1123.06	7/24/2015 9:50:00 AM	N
	24071501		SAIA-CPT19	WG	SAIA-CPT19-75	S-1123.07	7/24/2015 10:25:00 AM	N
	24071501		SAIA-CPT19	WG	SAIA-CPT19-75	S-1123.07MS	7/24/2015 10:25:00 AM	MS
	24071501		SAIA-CPT19	WG	SAIA-CPT19-75	S-1123.07MSD	7/24/2015 10:25:00 AM	SD
	24071501		SAIA-CPT19	WG	SAIA-CPT19-90	S-1123.08	7/24/2015 11:50:00 AM	N

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	23071501		FIELDQC	WQ	SAIA-RL01-0715	S-1123.11	7/23/2015 11:20:00 AM	TB
	23071501		SAIA-CPT14	WG	SAIA-CPT14-130	S-1123.05	7/23/2015 2:05:00 PM	N
	23071501		SAIA-CPT14	WG	SAIA-CPT14-60	S-1123.01	7/23/2015 11:45:00 AM	N
	23071501		SAIA-CPT14	WG	SAIA-CPT14-75	S-1123.03	7/23/2015 12:15:00 PM	N
	23071501		SAIA-CPT14	WG	SAIA-CPT14-76	S-1123.02	7/23/2015 12:20:00 PM	FD

AUTOMATED DATA REVIEW SUMMARY for Y9XT5

Field Batch Report

Test Method: CVOL		Leach Method: NONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
	23071501		SAIA-CPT14	WG	SAIA-CPT14-90	S-1123.04	7/23/2015 1:15:00 PM	N

AUTOMATED DATA REVIEW SUMMARY for Y9XT5

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
BNASIM / SW3510C	Field Duplicate RPD	S-1123.02 (N)	1 / 1.00	1,4-Dioxane (p-Dioxane)	200	RPD	None/None	< 25	< 50	D5		RPD	
CVOL / METHOD	Blank	VBLK7S (LB)	1 / 1.00	Methylene Chloride	0.260	ug/L	U/None	< 0.1	< 0.5	B1		2	0.520
CVOL / METHOD	Field Duplicate RPD	S-1123.02 (N)	1 / 1.00	Methylene Chloride	200	RPD	J/None	< 50	< 100	D5		RPD	
CVOL / METHOD	Trip Blank	SAIA-RL03-0715 (TB)	1 / 1.00	Acetone	11.0	ug/L	U/None	< 3.1	< 5	K3		2	22.0
CVOL / METHOD	Trip Blank	SAIA-RL03-0715 (TB)	1 / 1.00	Methylene Chloride	0.370	ug/L	U/None	< 0.1	< 0.5	K3		2	0.740

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	SAIA-CPT14-130	N	1,4-Dioxane (p-Dioxane)	0.50	0.27 J	0.27 J	ug/L	TR
BNASIM/NONE	WG	SAIA-CPT14-76	FD	1,4-Dioxane (p-Dioxane)	0.50	0.37 J	0.37 J	ug/L	TR
BNASIM/NONE	WG	SAIA-CPT20-75	N	1,4-Dioxane (p-Dioxane)	0.50	0.35 J	0.35 J	ug/L	TR
BNASIM/NONE	WG	SAIA-CPT20-76	FD	1,4-Dioxane (p-Dioxane)	0.50	0.42 J	0.42 J	ug/L	TR
Test Leach	**Matrix**	**FieldSample ID**	**Type**	**Analyte**	**RL**	**Lab Result**	**Qualified Result**	**Units**	**Reason**
CVOL/NONE	WG	SAIA-CPT14-60	N	Methylene Chloride	0.50	0.30 J	0.30 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT14-76	FD	Methylene Chloride	0.50	0.26 J	0.26 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT15-60	N	Isopropylbenzene (Cumene)	0.50	0.50 U	0.50 UJ	ug/L	C11
CVOL/NONE	WG	SAIA-CPT19-130	N	Methylene Chloride	3.2	3.2 B	3.2 U	ug/L	B1
CVOL/NONE	WG	SAIA-CPT19-45	N	Methylene Chloride	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-CPT19-90	N	1,2-Dichloroethane	0.50	0.26 J	0.26 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT20-105	N	Acetone	15.0	15.0	15.0 U	ug/L	K3
CVOL/NONE	WG	SAIA-CPT20-105	N	Methylene Chloride	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WG	SAIA-CPT20-130	N	1,2-Dichloroethane	0.50	0.35 J	0.35 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT20-130	N	Acetone	7.5	7.5	7.5 U	ug/L	K3
CVOL/NONE	WG	SAIA-CPT20-130	N	Trichloroethene (TCE)	0.50	0.42 J	0.42 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT20-60	N	Methylene Chloride	0.50	0.50 JB	0.50 U	ug/L	B1
CVOL/NONE	WQ	SAIA-RL03-0715	TB	Methylene Chloride	0.50	0.37 J	0.37 J	ug/L	TR

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
BNASIM/NONE	WG	SAIA-CPT14-130	N	1,4-Dioxane (p-Dioxane)	0.50	0.27 J	0.27 J	ug/L	TR
BNASIM/NONE	WG	SAIA-CPT14-76	FD	1,4-Dioxane (p-Dioxane)	0.50	0.37 J	0.37 J	ug/L	TR
BNASIM/NONE	WG	SAIA-CPT19-130	N	1,4-Dioxane (p-Dioxane)	0.50	0.87	0.87	ug/L	
BNASIM/NONE	WG	SAIA-CPT19-45	N	1,4-Dioxane (p-Dioxane)	0.50	1.6	1.6	ug/L	
BNASIM/NONE	WG	SAIA-CPT20-60	N	1,4-Dioxane (p-Dioxane)	0.50	0.62	0.62	ug/L	
BNASIM/NONE	WG	SAIA-CPT20-75	N	1,4-Dioxane (p-Dioxane)	0.50	0.35 J	0.35 J	ug/L	TR
BNASIM/NONE	WG	SAIA-CPT20-76	FD	1,4-Dioxane (p-Dioxane)	0.50	0.42 J	0.42 J	ug/L	TR

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-CPT14-130	N	cis-1,2-Dichloroethylene	5.0	770 D	770	ug/L	
CVOL/NONE	WG	SAIA-CPT14-130	N	trans-1,2-Dichloroethene	5.0	33.0	33.0	ug/L	
CVOL/NONE	WG	SAIA-CPT14-60	N	Methylene Chloride	0.50	0.30 J	0.30 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT14-75	N	cis-1,2-Dichloroethylene	0.50	130 D	130	ug/L	
CVOL/NONE	WG	SAIA-CPT14-75	N	trans-1,2-Dichloroethene	0.50	7.1	7.1	ug/L	
CVOL/NONE	WG	SAIA-CPT14-75	N	Trichloroethene (TCE)	0.50	2.7	2.7	ug/L	
CVOL/NONE	WG	SAIA-CPT14-76	FD	cis-1,2-Dichloroethylene	0.50	140 D	140	ug/L	
CVOL/NONE	WG	SAIA-CPT14-76	FD	trans-1,2-Dichloroethene	0.50	8.4	8.4	ug/L	
CVOL/NONE	WG	SAIA-CPT14-76	FD	Methylene Chloride	0.50	0.26 J	0.26 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT14-76	FD	Trichloroethene (TCE)	0.50	3.1	3.1	ug/L	
CVOL/NONE	WG	SAIA-CPT14-90	N	cis-1,2-Dichloroethylene	2.5	440 D	440	ug/L	
CVOL/NONE	WG	SAIA-CPT14-90	N	trans-1,2-Dichloroethene	2.5	36.0	36.0	ug/L	
CVOL/NONE	WG	SAIA-CPT19-105	N	cis-1,2-Dichloroethylene	0.50	46.0 D	46.0	ug/L	
CVOL/NONE	WG	SAIA-CPT19-105	N	trans-1,2-Dichloroethene	0.50	3.6	3.6	ug/L	
CVOL/NONE	WG	SAIA-CPT19-105	N	Trichloroethene (TCE)	0.50	33.0 D	33.0	ug/L	
CVOL/NONE	WG	SAIA-CPT19-130	N	cis-1,2-Dichloroethylene	2.5	530 D	530	ug/L	
CVOL/NONE	WG	SAIA-CPT19-130	N	trans-1,2-Dichloroethene	2.5	26.0	26.0	ug/L	
CVOL/NONE	WG	SAIA-CPT19-130	N	Trichloroethene (TCE)	2.5	8.0	8.0	ug/L	

AUTOMATED DATA REVIEW SUMMARY for Y9XT5

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WG	SAIA-CPT19-60	N	cis-1,2-Dichloroethylene	0.50	20.0	20.0	ug/L	
CVOL/NONE	WG	SAIA-CPT19-60	N	trans-1,2-Dichloroethene	0.50	6.7	6.7	ug/L	
CVOL/NONE	WG	SAIA-CPT19-60	N	Trichloroethene (TCE)	0.50	0.50 U	1.2	ug/L	
CVOL/NONE	WG	SAIA-CPT19-75	N	cis-1,2-Dichloroethylene	0.50	46.0 D	46.0	ug/L	
CVOL/NONE	WG	SAIA-CPT19-75	N	trans-1,2-Dichloroethene	0.50	11.0	11.0	ug/L	
CVOL/NONE	WG	SAIA-CPT19-75	N	Trichloroethene (TCE)	0.50	0.52	0.52	ug/L	
CVOL/NONE	WG	SAIA-CPT19-90	N	1,2-Dichloroethane	0.50	0.26 J	0.26 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT19-90	N	cis-1,2-Dichloroethylene	0.50	44.0 D	44.0	ug/L	
CVOL/NONE	WG	SAIA-CPT19-90	N	trans-1,2-Dichloroethene	0.50	13.0	13.0	ug/L	
CVOL/NONE	WG	SAIA-CPT19-90	N	Trichloroethene (TCE)	0.50	1.1	1.1	ug/L	
CVOL/NONE	WG	SAIA-CPT20-105	N	cis-1,2-Dichloroethylene	0.50	7.5	7.5	ug/L	
CVOL/NONE	WG	SAIA-CPT20-105	N	trans-1,2-Dichloroethene	0.50	1.2	1.2	ug/L	
CVOL/NONE	WG	SAIA-CPT20-105	N	Trichloroethene (TCE)	0.50	0.55	0.55	ug/L	
CVOL/NONE	WG	SAIA-CPT20-130	N	1,2-Dichloroethane	0.50	0.35 J	0.35 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT20-130	N	cis-1,2-Dichloroethylene	0.50	45.0 D	45.0	ug/L	
CVOL/NONE	WG	SAIA-CPT20-130	N	trans-1,2-Dichloroethene	0.50	7.6	7.6	ug/L	
CVOL/NONE	WG	SAIA-CPT20-130	N	Trichloroethene (TCE)	0.50	0.42 J	0.42 J	ug/L	TR
CVOL/NONE	WG	SAIA-CPT20-60	N	cis-1,2-Dichloroethylene	0.50	9.5	9.5	ug/L	
CVOL/NONE	WG	SAIA-CPT20-60	N	trans-1,2-Dichloroethene	0.50	2.0	2.0	ug/L	
CVOL/NONE	WG	SAIA-CPT20-60	N	Trichloroethene (TCE)	0.50	1.5	1.5	ug/L	
CVOL/NONE	WG	SAIA-CPT20-75	N	cis-1,2-Dichloroethylene	0.50	20.0	20.0	ug/L	
CVOL/NONE	WG	SAIA-CPT20-75	N	trans-1,2-Dichloroethene	0.50	3.5	3.5	ug/L	
CVOL/NONE	WG	SAIA-CPT20-75	N	Trichloroethene (TCE)	0.50	2.0	2.0	ug/L	
CVOL/NONE	WG	SAIA-CPT20-76	FD	cis-1,2-Dichloroethylene	0.50	18.0	18.0	ug/L	
CVOL/NONE	WG	SAIA-CPT20-76	FD	trans-1,2-Dichloroethene	0.50	3.6	3.6	ug/L	
CVOL/NONE	WG	SAIA-CPT20-76	FD	Trichloroethene (TCE)	0.50	2.0	2.0	ug/L	
CVOL/NONE	WQ	SAIA-RL03-0715	TB	Acetone	5.0	11.0	11.0	ug/L	

AUTOMATED DATA REVIEW SUMMARY for Y9XT5

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
CVOL/NONE	WQ	SAIA-RL03-0715	TB	Methylene Chloride	0.50	0.37 J	0.37 J	ug/L	TR

AUTOMATED DATA REVIEW SUMMARY for Y9XT5

Rejected Results

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for 16029B

Facility: Southern Avenue Industrial Area

Guidance Document: Sampling and Analysis Plan (SAP), Vapor Intrusion Evaluation, Southern Avenue Industrial Area Superfund Site, South Gate, LA County CA 2015

Contract Laboratory: U.S. EPA, Region 9 Lab, Richmond, CA

Field Contractor:

Data Review Contractor:

SDG: 16029B, Certified - 2/26/2016 by wtse

QC Level: Tier 3

Project Manager: Don Gruber

Data Reviewer: Peggy Cota

Data Reviewer Title: Project Chemist

Date of Review Report: April 18, 2016

Second Reviewer: Tom Beer

Completion Date of Second Reviewer:

Samples Included in SDG 16029B

Analytical Method/ Leach Method	Normal Air Samples	Field QC Air Samples
TO17/nONE	13	3

AUTOMATED DATA REVIEW SUMMARY for 16029B

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by ; analyses were performed by U.S. EPA, Region 9 Lab, Richmond, CA and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Ambient Blank
- Blank
- Blank - Negative
- Field Duplicate
- LCS Recovery
- Prep Hold Time
- Surrogate
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- MS Recovery
- MS RPD
- Negative Blank
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for 16029B

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 130 results (47.79%) out of the 272 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Validated uptake rates were not available for VOCs 1,1,2-trichloroethane, 1,1-dichloroethane, 1,1-dichloroethene, 1,3,5-trimethylbenzene, cis-1,2-dichloroethylene, and trans-1,2-dichloroethylene. The rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. The associated results in all samples have been qualified as “J” or “UJ” for an estimated value or reporting limit and assigned the reason code ("X2").

The reporting limit laboratory control standards (LCS) for benzene recovered greater than the upper control limit of 140% at 176%. The associated sample results were all reported at levels greater than the reporting limit except for the ambient blank, sample 5407-OA01-0116, which was reported as non-detect. The result for benzene in the ambient blank has been qualified as “UJ-” for an estimated reporting limit with a low bias for reporting limit LCS (reason code “L”). No qualifiers are required for the positive results in the other samples.

The method detection limit (MDL) for naphthalene did not meet the Regional Screening Level (RSL) for Residential Indoor Air of 0.083 ug/m3 at 0.21 ug/m3; and the MDL for 1,1,2-trichloroethane did not meet the RSL for Residential Indoor Air of 0.021 ug/m3 at 0.07 ug/m3. The MDLs for both compounds did meet the RSLs for Industrial Indoor Air of 0.36 ug/m3 and 0.088 ug/m3, respectively, and the Reporting Limits for 7 Day Exposure listed in the QAPP of 0.3968 ug/m3 and 0.1503 ug/m3, respectively.

Due to system limitations, the trace results for three of the compounds, which were positive results slightly above the method detection limit, were reported as non-detect at the reporting limit in the database. The affected results are 1,1,1-trichloroethane in sample 5227-OA02-0116 (1601047-14), trichloroethene in sample 5230-IA02-0116 (1601047-12) and 1,2,4-trimethylbenzene in sample 5407-OA01-0116 (1601047-16). The correct results have been updated in the database.

Peggy Cota pcota@gilbaneco.com
2016.04.18 13:25:10 -07'00'

Released by Peggy Cota, Project Chemist

18-Apr-2016

AUTOMATED DATA REVIEW SUMMARY for 16029B

Digitally signed by Tom Beer
DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US
Date: 2016.04.18 13:56:47 -07'00'

April 18, 2016

Released by Tom Beer

Reason and Comment Code Definitions

Comments	
Code	**Definition**
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons	
Code	**Definition**
A	Serial dilution
A1	Ambient Blank
B1	The analyte was found in an associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field duplicate precision
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

AUTOMATED DATA REVIEW SUMMARY for 16029B

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for 16029B

Batch Report

Test Method: TO17; Leach Method: nONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
S16B005	B16B013	NA	5211-CS01	AI	5211-CS01-0116	1601047-06	1601013	1/1	27-Jan-2016 9:50 AM	01-Feb-2016 10:01 AM	01-Feb-2016 5:37 PM	N
	B16B013	NA	5211-OA01	AA	5211-OA01-0116	1601047-09	1601013	1/1	27-Jan-2016 9:30 AM	01-Feb-2016 10:01 AM	01-Feb-2016 6:49 PM	N
	B16B013	NA	5215-IA01	AI	5215-IA01-0116	1601047-03	1601013	1/1	27-Jan-2016 10:35 AM	01-Feb-2016 10:01 AM	01-Feb-2016 4:25 PM	N
	B16B013	NA	5226-IA04	AI	5226-IA04-0116	1601047-01	1601013	1/1	27-Jan-2016 11:34 AM	01-Feb-2016 10:01 AM	01-Feb-2016 3:37 PM	N
	B16B013	NA	5227-IA02	AI	5227-IA02-0116	1601047-13	1601013	1/1	28-Jan-2016 10:04 AM	01-Feb-2016 10:01 AM	01-Feb-2016 8:25 PM	N
	B16B013	NA	5227-IA02	AI	5406-IA01-0116	1601047-15	1601013	1/1	28-Jan-2016 10:01 AM	01-Feb-2016 10:01 AM	01-Feb-2016 9:14 PM	FD
	B16B013	NA	5227-OA02	AA	5227-OA02-0116	1601047-14	1601013	1/1	28-Jan-2016 10:11 AM	01-Feb-2016 10:01 AM	01-Feb-2016 8:49 PM	N
	B16B013	NA	5230-IA02	AI	5230-IA02-0116	1601047-12	1601013	1/1	28-Jan-2016 9:30 AM	01-Feb-2016 10:01 AM	01-Feb-2016 8:01 PM	N
	B16B013	NA	5234-CS01	AI	5234-CS01-0116	1601047-08	1601013	1/1	27-Jan-2016 1:20 PM	01-Feb-2016 10:01 AM	01-Feb-2016 6:25 PM	N
	B16B013	NA	5234-IA01	AI	5234-IA01-0116	1601047-07	1601013	1/1	27-Jan-2016 1:15 PM	01-Feb-2016 10:01 AM	01-Feb-2016 6:01 PM	N
	B16B013	NA	FIELDQC	AQ	5407-OA01-0116	1601047-16	1601013	1/1	28-Jan-2016 11:33 AM	01-Feb-2016 10:01 AM	01-Feb-2016 9:38 PM	AB
	B16B013	NA	LABQC	AQ	LABQC	B16B013-BSD1	1601013	1/1	01-Feb-2016 10:01 AM	01-Feb-2016 10:01 AM	01-Feb-2016 3:12 PM	BD
	B16B013	NA	LABQC	AQ	LABQC	B16B013-BS1	1601013	1/1	01-Feb-2016 10:01 AM	01-Feb-2016 10:01 AM	01-Feb-2016 2:47 PM	BS
	B16B013	NA	LABQC	AQ	LABQC	B16B013-BLK1	1601013	1/1	01-Feb-2016 10:01 AM	01-Feb-2016 10:01 AM	01-Feb-2016 2:22 PM	LB
S16B039	B16B013	NA	5211-IA01	AI	5211-IA01-0116	1601047-05RE1	1601013	1/1	27-Jan-2016 9:18 AM	01-Feb-2016 10:01 AM	08-Feb-2016 4:09 PM	N
	B16B013	NA	5215-CS01	AI	5215-CS01-0116	1601047-04RE1	1601013	1/1	27-Jan-2016 10:45 AM	01-Feb-2016 10:01 AM	08-Feb-2016 3:45 PM	N
	B16B013	NA	5226-IA01	AI	5226-IA01-0116	1601047-02RE1	1601013	1/1	27-Jan-2016 10:04 AM	01-Feb-2016 10:01 AM	08-Feb-2016 2:57 PM	N
	B16B013	NA	5226-IA02	AI	5226-IA02-0116	1601047-11RE1	1601013	1/1	28-Jan-2016 9:04 AM	01-Feb-2016 10:01 AM	08-Feb-2016 5:23 PM	N
S16B043	B16B013	NA	5227-OA02	AA	5405-OA01-0116	1601047-10RE2	1601013	1/1	27-Jan-2016 4:01 PM	01-Feb-2016 10:01 AM	09-Feb-2016 12:37 PM	FD

AUTOMATED DATA REVIEW SUMMARY for 16029B

Field Batch Report

Test Method: TO17		Leach Method: nONE						
EBLOT	**TBLOT**	**ABLOT**	**LOCID**	**Matrix**	**FLDSAMPID**	**LABSAMPID**	**LOGDATE**	**SACODE**
		28011601	5211-CS01	AI	5211-CS01-0116	1601047-06	1/27/2016 9:50:00 AM	N
		28011601	5211-IA01	AI	5211-IA01-0116	1601047-05RE1	1/27/2016 9:18:00 AM	N
		28011601	5211-OA01	AA	5211-OA01-0116	1601047-09	1/27/2016 9:30:00 AM	N
		28011601	5215-CS01	AI	5215-CS01-0116	1601047-04RE1	1/27/2016 10:45:00 AM	N
		28011601	5215-IA01	AI	5215-IA01-0116	1601047-03	1/27/2016 10:35:00 AM	N
		28011601	5226-IA01	AI	5226-IA01-0116	1601047-02RE1	1/27/2016 10:04:00 AM	N
		28011601	5226-IA02	AI	5226-IA02-0116	1601047-11RE1	1/28/2016 9:04:00 AM	N
		28011601	5226-IA04	AI	5226-IA04-0116	1601047-01	1/27/2016 11:34:00 AM	N
		28011601	5227-IA02	AI	5227-IA02-0116	1601047-13	1/28/2016 10:04:00 AM	N
		28011601	5227-IA02	AI	5406-IA01-0116	1601047-15	1/28/2016 10:01:00 AM	FD
		28011601	5227-OA02	AA	5227-OA02-0116	1601047-14	1/28/2016 10:11:00 AM	N
		28011601	5227-OA02	AA	5405-OA01-0116	1601047-10RE2	1/27/2016 4:01:00 PM	FD
		28011601	5230-IA02	AI	5230-IA02-0116	1601047-12	1/28/2016 9:30:00 AM	N
		28011601	5234-CS01	AI	5234-CS01-0116	1601047-08	1/27/2016 1:20:00 PM	N
		28011601	5234-IA01	AI	5234-IA01-0116	1601047-07	1/27/2016 1:15:00 PM	N
		28011601	FIELDQC	AQ	5407-OA01-0116	1601047-16	1/28/2016 11:33:00 AM	AB

AUTOMATED DATA REVIEW SUMMARY for 16029B

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
TO17 / METHOD	Ambient Blank	5407-OA01-0116 (AB)	1 / 1.00	Toluene	0.380	UG/M3	U/None	< 0.07	< 0.13	A1		1	0.380
TO17 / METHOD	LCS Recovery	B16B013-BS1 (BS)	1 / 1.00	1,1-Dichloroethene	63.2	Percent	J/UJ	70 - 130	20 - 140	L			
TO17 / METHOD	LCS Recovery	B16B013-BSD1 (BD)	1 / 1.00	1,1-Dichloroethene	61.5	Percent	J/UJ	70 - 130	20 - 140	L			
TO17 / METHOD	LCS Recovery	B16B013-BSD1 (BD)	1 / 1.00	trans-1,2-Dichloroethene	69.6	Percent	J/UJ	70 - 130	20 - 140	L			
TO17 / METHOD	Surrogate	5211-CS01-0116 (N)	1 / 1.00	Toluene-d8	53.0	Percent	J/UJ	70 - 130	10 - 140	S			
TO17 / METHOD	Surrogate	5215-IA01-0116 (N)	1 / 1.00	Toluene-d8	59.0	Percent	J/UJ	70 - 130	10 - 140	S			
TO17 / METHOD	Surrogate	5226-IA04-0116 (N)	1 / 1.00	Toluene-d8	54.0	Percent	J/UJ	70 - 130	10 - 140	S			

AUTOMATED DATA REVIEW SUMMARY for 16029B

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO17/nONE	AI	5211-CS01-0116	N	1,1,1-Trichloroethane	0.16	0.16 U,J	0.16 UJ	UG/M3	S
TO17/nONE	AI	5211-CS01-0116	N	1,1,2-Trichloroethane	0.15	0.15 U,J	0.15 UJ	UG/M3	S/X2
TO17/nONE	AI	5211-CS01-0116	N	1,1-Dichloroethane	0.15	0.15 U,J	0.15 UJ	UG/M3	S/X2
TO17/nONE	AI	5211-CS01-0116	N	1,1-Dichloroethene	0.15	0.15 U,J,Q2	0.15 UJ	UG/M3	L/S/X2
TO17/nONE	AI	5211-CS01-0116	N	1,2,4-Trimethylbenzene	0.20	0.93 J	0.93 J	UG/M3	S
TO17/nONE	AI	5211-CS01-0116	N	1,2-Dichloroethane	0.13	0.13 U,J	0.13 UJ	UG/M3	S
TO17/nONE	AI	5211-CS01-0116	N	1,3,5-Trimethylbenzene	0.15	0.19 J	0.19 J	UG/M3	S/X2
TO17/nONE	AI	5211-CS01-0116	N	Benzene	0.51	0.89 J,Q3	0.89 J	UG/M3	S
TO17/nONE	AI	5211-CS01-0116	N	cis-1,2-Dichloroethylene	0.15	0.15 U,J	0.15 UJ	UG/M3	S/X2
TO17/nONE	AI	5211-CS01-0116	N	Ethylbenzene	0.15	0.59 J	0.59 J	UG/M3	S
TO17/nONE	AI	5211-CS01-0116	N	m,p-Xylene	0.29	2.0 J	2.0 J	UG/M3	S
TO17/nONE	AI	5211-CS01-0116	N	Naphthalene	0.41	0.41 U,J,Q2	0.41 UJ	UG/M3	S
TO17/nONE	AI	5211-CS01-0116	N	o-Xylene	0.16	0.71 J	0.71 J	UG/M3	S
TO17/nONE	AI	5211-CS01-0116	N	Tetrachloroethene (PCE)	0.17	0.14 J,C1	0.14 J	UG/M3	S/TR
TO17/nONE	AI	5211-CS01-0116	N	Toluene	0.14	2.9 J	2.9 J	UG/M3	S
TO17/nONE	AI	5211-CS01-0116	N	trans-1,2-Dichloroethene	0.15	0.15 U,J	0.15 UJ	UG/M3	L/S/X2
TO17/nONE	AI	5211-CS01-0116	N	Trichloroethene (TCE)	0.15	0.15 U,J	0.15 UJ	UG/M3	S
TO17/nONE	AI	5211-IA01-0116	N	1,1,2-Trichloroethane	0.15	0.15 U	0.15 UJ	UG/M3	X2
TO17/nONE	AI	5211-IA01-0116	N	1,1-Dichloroethane	0.15	0.15 U	0.15 UJ	UG/M3	X2
TO17/nONE	AI	5211-IA01-0116	N	1,1-Dichloroethene	0.15	0.15 U,C3,J	0.15 UJ	UG/M3	L/X2
TO17/nONE	AI	5211-IA01-0116	N	1,2-Dichloroethane	0.13	0.080 J,C1	0.080 J	UG/M3	TR
TO17/nONE	AI	5211-IA01-0116	N	1,3,5-Trimethylbenzene	0.15	0.27 =	0.27 J	UG/M3	X2
TO17/nONE	AI	5211-IA01-0116	N	cis-1,2-Dichloroethylene	0.15	0.15 U	0.15 UJ	UG/M3	X2
TO17/nONE	AI	5211-IA01-0116	N	trans-1,2-Dichloroethene	0.15	0.15 U	0.15 UJ	UG/M3	L/X2
TO17/nONE	AI	5211-IA01-0116	N	Trichloroethene (TCE)	0.15	0.090 J,C1	0.090 J	UG/M3	TR
TO17/nONE	AA	5211-OA01-0116	N	1,1,2-Trichloroethane	0.15	0.15 U	0.15 UJ	UG/M3	X2
TO17/nONE	AA	5211-OA01-0116	N	1,1-Dichloroethane	0.15	0.15 U	0.15 UJ	UG/M3	X2

AUTOMATED DATA REVIEW SUMMARY for 16029B

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO17/nONE	AA	5211-OA01-0116	N	1,1-Dichloroethene	0.15	0.15 U,C3,J	0.15 UJ	UG/M3	L/X2
TO17/nONE	AA	5211-OA01-0116	N	1,2-Dichloroethane	0.13	0.070 J,C1	0.070 J	UG/M3	TR
TO17/nONE	AA	5211-OA01-0116	N	1,3,5-Trimethylbenzene	0.15	0.35 =	0.35 J	UG/M3	X2
TO17/nONE	AA	5211-OA01-0116	N	cis-1,2-Dichloroethylene	0.15	0.15 U	0.15 UJ	UG/M3	X2
TO17/nONE	AA	5211-OA01-0116	N	trans-1,2-Dichloroethene	0.15	0.15 U	0.15 UJ	UG/M3	L/X2
TO17/nONE	AI	5215-CS01-0116	N	1,1,2-Trichloroethane	0.14	0.14 U	0.14 UJ	UG/M3	X2
TO17/nONE	AI	5215-CS01-0116	N	1,1-Dichloroethane	0.14	0.14 U	0.14 UJ	UG/M3	X2
TO17/nONE	AI	5215-CS01-0116	N	1,1-Dichloroethene	0.14	0.14 U,C3,J	0.14 UJ	UG/M3	L/X2
TO17/nONE	AI	5215-CS01-0116	N	1,3,5-Trimethylbenzene	0.14	0.27 =	0.27 J	UG/M3	X2
TO17/nONE	AI	5215-CS01-0116	N	cis-1,2-Dichloroethylene	0.14	0.14 U	0.14 UJ	UG/M3	X2
TO17/nONE	AI	5215-CS01-0116	N	trans-1,2-Dichloroethene	0.14	0.14 U	0.14 UJ	UG/M3	L/X2
TO17/nONE	AI	5215-IA01-0116	N	1,1,1-Trichloroethane	0.16	0.16 U,J	0.16 UJ	UG/M3	S
TO17/nONE	AI	5215-IA01-0116	N	1,1,2-Trichloroethane	0.14	0.14 U,J	0.14 UJ	UG/M3	S/X2
TO17/nONE	AI	5215-IA01-0116	N	1,1-Dichloroethane	0.14	0.14 U,J	0.14 UJ	UG/M3	S/X2
TO17/nONE	AI	5215-IA01-0116	N	1,1-Dichloroethene	0.14	0.14 U,Q2,J	0.14 UJ	UG/M3	L/S/X2
TO17/nONE	AI	5215-IA01-0116	N	1,2,4-Trimethylbenzene	0.20	1.1 J	1.1 J	UG/M3	S
TO17/nONE	AI	5215-IA01-0116	N	1,2-Dichloroethane	0.13	0.070 J,C1	0.070 J	UG/M3	S/TR
TO17/nONE	AI	5215-IA01-0116	N	1,3,5-Trimethylbenzene	0.14	0.22 J	0.22 J	UG/M3	S/X2
TO17/nONE	AI	5215-IA01-0116	N	Benzene	0.50	1.5 J,Q3	1.5 J	UG/M3	S
TO17/nONE	AI	5215-IA01-0116	N	cis-1,2-Dichloroethylene	0.14	0.14 U,J	0.14 UJ	UG/M3	S/X2
TO17/nONE	AI	5215-IA01-0116	N	Ethylbenzene	0.15	0.67 Q7,J	0.67 J	UG/M3	S
TO17/nONE	AI	5215-IA01-0116	N	m,p-Xylene	0.29	2.2 J	2.2 J	UG/M3	S
TO17/nONE	AI	5215-IA01-0116	N	Naphthalene	0.40	0.40 U,J,Q2	0.40 UJ	UG/M3	S
TO17/nONE	AI	5215-IA01-0116	N	o-Xylene	0.15	0.79 J	0.79 J	UG/M3	S
TO17/nONE	AI	5215-IA01-0116	N	Tetrachloroethene (PCE)	0.17	0.18 J	0.18 J	UG/M3	S
TO17/nONE	AI	5215-IA01-0116	N	Toluene	0.14	3.8 J	3.8 J	UG/M3	S
TO17/nONE	AI	5215-IA01-0116	N	trans-1,2-Dichloroethene	0.14	0.14 U,J	0.14 UJ	UG/M3	L/S/X2

AUTOMATED DATA REVIEW SUMMARY for 16029B

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO17/nONE	AI	5215-IA01-0116	N	Trichloroethene (TCE)	0.15	0.15 U,J	0.15 UJ	UG/M3	S
TO17/nONE	AI	5226-IA01-0116	N	1,1,2-Trichloroethane	0.14	0.14 U	0.14 UJ	UG/M3	X2
TO17/nONE	AI	5226-IA01-0116	N	1,1-Dichloroethane	0.14	0.14 U	0.14 UJ	UG/M3	X2
TO17/nONE	AI	5226-IA01-0116	N	1,1-Dichloroethene	0.14	0.14 U,C3,J	0.14 UJ	UG/M3	L/X2
TO17/nONE	AI	5226-IA01-0116	N	1,2-Dichloroethane	0.13	0.090 J,C1	0.090 J	UG/M3	TR
TO17/nONE	AI	5226-IA01-0116	N	1,3,5-Trimethylbenzene	0.14	0.34 =	0.34 J	UG/M3	X2
TO17/nONE	AI	5226-IA01-0116	N	cis-1,2-Dichloroethylene	0.14	0.14 U	0.14 UJ	UG/M3	X2
TO17/nONE	AI	5226-IA01-0116	N	trans-1,2-Dichloroethene	0.14	0.14 U	0.14 UJ	UG/M3	L/X2
TO17/nONE	AI	5226-IA02-0116	N	1,1,2-Trichloroethane	0.15	0.15 U	0.15 UJ	UG/M3	X2
TO17/nONE	AI	5226-IA02-0116	N	1,1-Dichloroethane	0.15	0.15 U	0.15 UJ	UG/M3	X2
TO17/nONE	AI	5226-IA02-0116	N	1,1-Dichloroethene	0.15	0.15 U,C3,J	0.15 UJ	UG/M3	L/X2
TO17/nONE	AI	5226-IA02-0116	N	1,2-Dichloroethane	0.13	0.080 J,C1	0.080 J	UG/M3	TR
TO17/nONE	AI	5226-IA02-0116	N	1,3,5-Trimethylbenzene	0.15	1.9 =	1.9 J	UG/M3	X2
TO17/nONE	AI	5226-IA02-0116	N	cis-1,2-Dichloroethylene	0.15	0.15 U	0.15 UJ	UG/M3	X2
TO17/nONE	AI	5226-IA02-0116	N	Naphthalene	0.41	0.24 J,C1	0.24 J	UG/M3	TR
TO17/nONE	AI	5226-IA02-0116	N	trans-1,2-Dichloroethene	0.15	0.15 U	0.15 UJ	UG/M3	L/X2
TO17/nONE	AI	5226-IA02-0116	N	Trichloroethene (TCE)	0.15	0.080 J,C1	0.080 J	UG/M3	TR
TO17/nONE	AI	5226-IA04-0116	N	1,1,1-Trichloroethane	0.16	0.16 U,J	0.16 UJ	UG/M3	S
TO17/nONE	AI	5226-IA04-0116	N	1,1,2-Trichloroethane	0.14	0.14 U,J	0.14 UJ	UG/M3	S/X2
TO17/nONE	AI	5226-IA04-0116	N	1,1-Dichloroethane	0.14	0.14 U,J	0.14 UJ	UG/M3	S/X2
TO17/nONE	AI	5226-IA04-0116	N	1,1-Dichloroethene	0.14	0.14 U,C3,J	0.14 UJ	UG/M3	L/S/X2
TO17/nONE	AI	5226-IA04-0116	N	1,2,4-Trimethylbenzene	0.20	1.3 J	1.3 J	UG/M3	S
TO17/nONE	AI	5226-IA04-0116	N	1,2-Dichloroethane	0.13	0.43 J	0.43 J	UG/M3	S
TO17/nONE	AI	5226-IA04-0116	N	1,3,5-Trimethylbenzene	0.14	0.25 J	0.25 J	UG/M3	S/X2
TO17/nONE	AI	5226-IA04-0116	N	Benzene	0.49	2.7 J,Q3	2.7 J	UG/M3	S
TO17/nONE	AI	5226-IA04-0116	N	cis-1,2-Dichloroethylene	0.14	0.14 U,J	0.14 UJ	UG/M3	S/X2
TO17/nONE	AI	5226-IA04-0116	N	Ethylbenzene	0.15	0.66 J	0.66 J	UG/M3	S

AUTOMATED DATA REVIEW SUMMARY for 16029B

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO17/nONE	AI	5226-IA04-0116	N	m,p-Xylene	0.28	2.1 J	2.1 J	UG/M3	S
TO17/nONE	AI	5226-IA04-0116	N	Naphthalene	0.40	0.40 U,J,Q2	0.40 UJ	UG/M3	S
TO17/nONE	AI	5226-IA04-0116	N	o-Xylene	0.15	0.74 J	0.74 J	UG/M3	S
TO17/nONE	AI	5226-IA04-0116	N	Tetrachloroethene (PCE)	0.17	0.25 J	0.25 J	UG/M3	S
TO17/nONE	AI	5226-IA04-0116	N	Toluene	0.13	4.2 J	4.2 J	UG/M3	S
TO17/nONE	AI	5226-IA04-0116	N	trans-1,2-Dichloroethene	0.14	0.14 U,J	0.14 UJ	UG/M3	L/S/X2
TO17/nONE	AI	5226-IA04-0116	N	Trichloroethene (TCE)	0.14	0.14 U,J	0.14 UJ	UG/M3	S
TO17/nONE	AI	5227-IA02-0116	N	1,1,2-Trichloroethane	0.14	0.14 U	0.14 UJ	UG/M3	X2
TO17/nONE	AI	5227-IA02-0116	N	1,1-Dichloroethane	0.14	0.14 U	0.14 UJ	UG/M3	X2
TO17/nONE	AI	5227-IA02-0116	N	1,1-Dichloroethene	0.14	0.14 U,C3,J	0.14 UJ	UG/M3	L/X2
TO17/nONE	AI	5227-IA02-0116	N	1,3,5-Trimethylbenzene	0.14	0.41 =	0.41 J	UG/M3	X2
TO17/nONE	AI	5227-IA02-0116	N	cis-1,2-Dichloroethylene	0.14	0.14 U	0.14 UJ	UG/M3	X2
TO17/nONE	AI	5227-IA02-0116	N	trans-1,2-Dichloroethene	0.14	0.14 U	0.14 UJ	UG/M3	L/X2
TO17/nONE	AA	5227-OA02-0116	N	1,1,1-Trichloroethane	0.16	0.16 U,C1,J	0.080 J	UG/M3	TR
TO17/nONE	AA	5227-OA02-0116	N	1,1,2-Trichloroethane	0.14	0.14 U	0.14 UJ	UG/M3	X2
TO17/nONE	AA	5227-OA02-0116	N	1,1-Dichloroethane	0.14	0.14 U	0.14 UJ	UG/M3	X2
TO17/nONE	AA	5227-OA02-0116	N	1,1-Dichloroethene	0.14	0.14 U,C3,J	0.14 UJ	UG/M3	L/X2
TO17/nONE	AA	5227-OA02-0116	N	1,2-Dichloroethane	0.13	0.070 J,C1	0.070 J	UG/M3	TR
TO17/nONE	AA	5227-OA02-0116	N	1,3,5-Trimethylbenzene	0.14	0.28 =	0.28 J	UG/M3	X2
TO17/nONE	AA	5227-OA02-0116	N	cis-1,2-Dichloroethylene	0.14	0.14 U	0.14 UJ	UG/M3	X2
TO17/nONE	AA	5227-OA02-0116	N	trans-1,2-Dichloroethene	0.14	0.14 U	0.14 UJ	UG/M3	L/X2
TO17/nONE	AI	5230-IA02-0116	N	1,1,1-Trichloroethane	0.16	0.080 J,C1	0.080 J	UG/M3	TR
TO17/nONE	AI	5230-IA02-0116	N	1,1,2-Trichloroethane	0.15	0.15 U	0.15 UJ	UG/M3	X2
TO17/nONE	AI	5230-IA02-0116	N	1,1-Dichloroethane	0.15	0.15 U	0.15 UJ	UG/M3	X2
TO17/nONE	AI	5230-IA02-0116	N	1,1-Dichloroethene	0.15	0.15 U,Q2,J	0.15 UJ	UG/M3	L/X2
TO17/nONE	AI	5230-IA02-0116	N	1,3,5-Trimethylbenzene	0.15	0.33 =	0.33 J	UG/M3	X2
TO17/nONE	AI	5230-IA02-0116	N	cis-1,2-Dichloroethylene	0.15	0.15 U	0.15 UJ	UG/M3	X2

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO17/nONE	AI	5230-IA02-0116	N	trans-1,2-Dichloroethene	0.15	0.15 U	0.15 UJ	UG/M3	L/X2
TO17/nONE	AI	5230-IA02-0116	N	Trichloroethene (TCE)	0.15	0.15 U,C1,J	0.070 J	UG/M3	TR
TO17/nONE	AI	5234-CS01-0116	N	1,1,2-Trichloroethane	0.15	0.15 U	0.15 UJ	UG/M3	X2
TO17/nONE	AI	5234-CS01-0116	N	1,1-Dichloroethane	0.15	0.15 U	0.15 UJ	UG/M3	X2
TO17/nONE	AI	5234-CS01-0116	N	1,1-Dichloroethene	0.15	0.15 U,Q2,J	0.15 UJ	UG/M3	L/X2
TO17/nONE	AI	5234-CS01-0116	N	1,3,5-Trimethylbenzene	0.15	0.26 =	0.26 J	UG/M3	X2
TO17/nONE	AI	5234-CS01-0116	N	cis-1,2-Dichloroethylene	0.15	0.15 U	0.15 UJ	UG/M3	X2
TO17/nONE	AI	5234-CS01-0116	N	trans-1,2-Dichloroethene	0.15	0.15 U	0.15 UJ	UG/M3	L/X2
TO17/nONE	AI	5234-IA01-0116	N	1,1,2-Trichloroethane	0.14	0.14 U	0.14 UJ	UG/M3	X2
TO17/nONE	AI	5234-IA01-0116	N	1,1-Dichloroethane	0.14	0.14 U	0.14 UJ	UG/M3	X2
TO17/nONE	AI	5234-IA01-0116	N	1,1-Dichloroethene	0.14	0.14 U,C3,J	0.14 UJ	UG/M3	L/X2
TO17/nONE	AI	5234-IA01-0116	N	1,3,5-Trimethylbenzene	0.14	0.26 =	0.26 J	UG/M3	X2
TO17/nONE	AI	5234-IA01-0116	N	cis-1,2-Dichloroethylene	0.14	0.14 U	0.14 UJ	UG/M3	X2
TO17/nONE	AI	5234-IA01-0116	N	trans-1,2-Dichloroethene	0.14	0.14 U	0.14 UJ	UG/M3	L/X2
TO17/nONE	AA	5405-OA01-0116	FD	1,1,2-Trichloroethane	0.14	0.14 U	0.14 UJ	UG/M3	X2
TO17/nONE	AA	5405-OA01-0116	FD	1,1-Dichloroethane	0.14	0.14 U	0.14 UJ	UG/M3	X2
TO17/nONE	AA	5405-OA01-0116	FD	1,1-Dichloroethene	0.14	0.14 U,C3,J	0.14 UJ	UG/M3	L/X2
TO17/nONE	AA	5405-OA01-0116	FD	1,3,5-Trimethylbenzene	0.14	0.33 =	0.33 J	UG/M3	X2
TO17/nONE	AA	5405-OA01-0116	FD	cis-1,2-Dichloroethylene	0.14	0.14 U	0.14 UJ	UG/M3	X2
TO17/nONE	AA	5405-OA01-0116	FD	trans-1,2-Dichloroethene	0.14	0.14 U	0.14 UJ	UG/M3	L/X2
TO17/nONE	AI	5406-IA01-0116	FD	1,1,2-Trichloroethane	0.14	0.14 U	0.14 UJ	UG/M3	X2
TO17/nONE	AI	5406-IA01-0116	FD	1,1-Dichloroethane	0.14	0.14 U	0.14 UJ	UG/M3	X2
TO17/nONE	AI	5406-IA01-0116	FD	1,1-Dichloroethene	0.14	0.14 U,C3,J	0.14 UJ	UG/M3	L/X2
TO17/nONE	AI	5406-IA01-0116	FD	1,3,5-Trimethylbenzene	0.14	0.41 =	0.41 J	UG/M3	X2
TO17/nONE	AI	5406-IA01-0116	FD	cis-1,2-Dichloroethylene	0.14	0.14 U	0.14 UJ	UG/M3	X2
TO17/nONE	AI	5406-IA01-0116	FD	trans-1,2-Dichloroethene	0.14	0.14 U	0.14 UJ	UG/M3	L/X2
TO17/nONE	AQ	5407-OA01-0116	AB	1,1,2-Trichloroethane	0.14	0.14 U	0.14 UJ	UG/M3	X2

AUTOMATED DATA REVIEW SUMMARY for 16029B

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO17/nONE	AQ	5407-OA01-0116	AB	1,1-Dichloroethane	0.14	0.14 U	0.14 UJ	UG/M3	X2
TO17/nONE	AQ	5407-OA01-0116	AB	1,1-Dichloroethene	0.14	0.14 U,C3,J	0.14 UJ	UG/M3	L/X2
TO17/nONE	AQ	5407-OA01-0116	AB	1,2,4-Trimethylbenzene	0.20	0.20 U,C1,J	0.10 J	UG/M3	TR
TO17/nONE	AQ	5407-OA01-0116	AB	1,3,5-Trimethylbenzene	0.14	0.14 U	0.14 UJ	UG/M3	X2
TO17/nONE	AQ	5407-OA01-0116	AB	Benzene	0.50	0.50 U,J,Q3	0.50 UJ	UG/M3	L
TO17/nONE	AQ	5407-OA01-0116	AB	cis-1,2-Dichloroethylene	0.14	0.14 U	0.14 UJ	UG/M3	X2
TO17/nONE	AQ	5407-OA01-0116	AB	trans-1,2-Dichloroethene	0.14	0.14 U	0.14 UJ	UG/M3	L/X2

AUTOMATED DATA REVIEW SUMMARY for 16029B

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO17/nONE	AI	5211-CS01-0116	N	Benzene	0.51	0.89 J,Q3	0.89 J	UG/M3	S
TO17/nONE	AI	5211-CS01-0116	N	Toluene	0.14	2.9 J	2.9 J	UG/M3	S
TO17/nONE	AI	5211-CS01-0116	N	Ethylbenzene	0.15	0.59 J	0.59 J	UG/M3	S
TO17/nONE	AI	5211-CS01-0116	N	Tetrachloroethene (PCE)	0.17	0.14 J,C1	0.14 J	UG/M3	S/TR
TO17/nONE	AI	5211-CS01-0116	N	1,2,4-Trimethylbenzene	0.20	0.93 J	0.93 J	UG/M3	S
TO17/nONE	AI	5211-CS01-0116	N	1,3,5-Trimethylbenzene	0.15	0.19 J	0.19 J	UG/M3	S/X2
TO17/nONE	AI	5211-CS01-0116	N	m,p-Xylene	0.29	2.0 J	2.0 J	UG/M3	S
TO17/nONE	AI	5211-CS01-0116	N	o-Xylene	0.16	0.71 J	0.71 J	UG/M3	S
TO17/nONE	AI	5211-IA01-0116	N	Benzene	0.51	1.2 J,Q3	1.2	UG/M3	
TO17/nONE	AI	5211-IA01-0116	N	Toluene	0.14	4.3 =	4.3	UG/M3	
TO17/nONE	AI	5211-IA01-0116	N	1,2-Dichloroethane	0.13	0.080 J,C1	0.080 J	UG/M3	TR
TO17/nONE	AI	5211-IA01-0116	N	Ethylbenzene	0.15	0.98 =	0.98	UG/M3	
TO17/nONE	AI	5211-IA01-0116	N	Tetrachloroethene (PCE)	0.17	1.3 =	1.3	UG/M3	
TO17/nONE	AI	5211-IA01-0116	N	Trichloroethene (TCE)	0.15	0.090 J,C1	0.090 J	UG/M3	TR
TO17/nONE	AI	5211-IA01-0116	N	1,2,4-Trimethylbenzene	0.21	1.4 =	1.4	UG/M3	
TO17/nONE	AI	5211-IA01-0116	N	1,3,5-Trimethylbenzene	0.15	0.27 =	0.27 J	UG/M3	X2
TO17/nONE	AI	5211-IA01-0116	N	m,p-Xylene	0.29	3.3 =	3.3	UG/M3	
TO17/nONE	AI	5211-IA01-0116	N	o-Xylene	0.16	1.1 =	1.1	UG/M3	
TO17/nONE	AA	5211-OA01-0116	N	Benzene	0.52	1.6 J,Q3	1.6	UG/M3	
TO17/nONE	AA	5211-OA01-0116	N	Toluene	0.14	5.3 =	5.3	UG/M3	
TO17/nONE	AA	5211-OA01-0116	N	1,2-Dichloroethane	0.13	0.070 J,C1	0.070 J	UG/M3	TR
TO17/nONE	AA	5211-OA01-0116	N	Ethylbenzene	0.15	1.1 =	1.1	UG/M3	
TO17/nONE	AA	5211-OA01-0116	N	Tetrachloroethene (PCE)	0.18	0.24 =	0.24	UG/M3	
TO17/nONE	AA	5211-OA01-0116	N	1,2,4-Trimethylbenzene	0.21	1.6 =	1.6	UG/M3	
TO17/nONE	AA	5211-OA01-0116	N	1,3,5-Trimethylbenzene	0.15	0.35 =	0.35 J	UG/M3	X2
TO17/nONE	AA	5211-OA01-0116	N	m,p-Xylene	0.30	3.7 =	3.7	UG/M3	
TO17/nONE	AA	5211-OA01-0116	N	o-Xylene	0.16	1.3 =	1.3	UG/M3	

AUTOMATED DATA REVIEW SUMMARY for 16029B

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO17/nONE	AI	5215-CS01-0116	N	Benzene	0.51	1.2 J,Q3	1.2	UG/M3	
TO17/nONE	AI	5215-CS01-0116	N	Toluene	0.14	4.2 =	4.2	UG/M3	
TO17/nONE	AI	5215-CS01-0116	N	Ethylbenzene	0.15	0.82 =	0.82	UG/M3	
TO17/nONE	AI	5215-CS01-0116	N	Tetrachloroethene (PCE)	0.17	0.20 =	0.20	UG/M3	
TO17/nONE	AI	5215-CS01-0116	N	1,2,4-Trimethylbenzene	0.20	1.4 =	1.4	UG/M3	
TO17/nONE	AI	5215-CS01-0116	N	1,3,5-Trimethylbenzene	0.14	0.27 =	0.27 J	UG/M3	X2
TO17/nONE	AI	5215-CS01-0116	N	m,p-Xylene	0.29	2.7 =	2.7	UG/M3	
TO17/nONE	AI	5215-CS01-0116	N	o-Xylene	0.16	0.97 =	0.97	UG/M3	
TO17/nONE	AI	5215-IA01-0116	N	Benzene	0.50	1.5 J,Q3	1.5 J	UG/M3	S
TO17/nONE	AI	5215-IA01-0116	N	Toluene	0.14	3.8 J	3.8 J	UG/M3	S
TO17/nONE	AI	5215-IA01-0116	N	1,2-Dichloroethane	0.13	0.070 J,C1	0.070 J	UG/M3	S/TR
TO17/nONE	AI	5215-IA01-0116	N	Ethylbenzene	0.15	0.67 Q7,J	0.67 J	UG/M3	S
TO17/nONE	AI	5215-IA01-0116	N	Tetrachloroethene (PCE)	0.17	0.18 J	0.18 J	UG/M3	S
TO17/nONE	AI	5215-IA01-0116	N	1,2,4-Trimethylbenzene	0.20	1.1 J	1.1 J	UG/M3	S
TO17/nONE	AI	5215-IA01-0116	N	1,3,5-Trimethylbenzene	0.14	0.22 J	0.22 J	UG/M3	S/X2
TO17/nONE	AI	5215-IA01-0116	N	m,p-Xylene	0.29	2.2 J	2.2 J	UG/M3	S
TO17/nONE	AI	5215-IA01-0116	N	o-Xylene	0.15	0.79 J	0.79 J	UG/M3	S
TO17/nONE	AI	5226-IA01-0116	N	Benzene	0.51	1.8 J,Q3	1.8	UG/M3	
TO17/nONE	AI	5226-IA01-0116	N	Toluene	0.14	4.7 =	4.7	UG/M3	
TO17/nONE	AI	5226-IA01-0116	N	1,2-Dichloroethane	0.13	0.090 J,C1	0.090 J	UG/M3	TR
TO17/nONE	AI	5226-IA01-0116	N	Ethylbenzene	0.15	0.84 =	0.84	UG/M3	
TO17/nONE	AI	5226-IA01-0116	N	Tetrachloroethene (PCE)	0.17	0.18 =	0.18	UG/M3	
TO17/nONE	AI	5226-IA01-0116	N	1,2,4-Trimethylbenzene	0.20	1.8 =	1.8	UG/M3	
TO17/nONE	AI	5226-IA01-0116	N	1,3,5-Trimethylbenzene	0.14	0.34 =	0.34 J	UG/M3	X2
TO17/nONE	AI	5226-IA01-0116	N	m,p-Xylene	0.29	2.7 =	2.7	UG/M3	
TO17/nONE	AI	5226-IA01-0116	N	o-Xylene	0.16	0.98 =	0.98	UG/M3	
TO17/nONE	AI	5226-IA02-0116	N	Benzene	0.51	1.3 J,Q3	1.3	UG/M3	

AUTOMATED DATA REVIEW SUMMARY for 16029B

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO17/nONE	AI	5226-IA02-0116	N	Toluene	0.14	5.9 =	5.9	UG/M3	
TO17/nONE	AI	5226-IA02-0116	N	1,2-Dichloroethane	0.13	0.080 J,C1	0.080 J	UG/M3	TR
TO17/nONE	AI	5226-IA02-0116	N	Ethylbenzene	0.15	2.4 =	2.4	UG/M3	
TO17/nONE	AI	5226-IA02-0116	N	Naphthalene	0.41	0.24 J,C1	0.24 J	UG/M3	TR
TO17/nONE	AI	5226-IA02-0116	N	Tetrachloroethene (PCE)	0.17	0.31 =	0.31	UG/M3	
TO17/nONE	AI	5226-IA02-0116	N	Trichloroethene (TCE)	0.15	0.080 J,C1	0.080 J	UG/M3	TR
TO17/nONE	AI	5226-IA02-0116	N	1,2,4-Trimethylbenzene	0.21	13.0 =	13.0	UG/M3	
TO17/nONE	AI	5226-IA02-0116	N	1,3,5-Trimethylbenzene	0.15	1.9 =	1.9 J	UG/M3	X2
TO17/nONE	AI	5226-IA02-0116	N	m,p-Xylene	0.29	4.9 =	4.9	UG/M3	
TO17/nONE	AI	5226-IA02-0116	N	o-Xylene	0.16	2.1 =	2.1	UG/M3	
TO17/nONE	AI	5226-IA04-0116	N	Benzene	0.49	2.7 J,Q3	2.7 J	UG/M3	S
TO17/nONE	AI	5226-IA04-0116	N	Toluene	0.13	4.2 J	4.2 J	UG/M3	S
TO17/nONE	AI	5226-IA04-0116	N	1,2-Dichloroethane	0.13	0.43 J	0.43 J	UG/M3	S
TO17/nONE	AI	5226-IA04-0116	N	Ethylbenzene	0.15	0.66 J	0.66 J	UG/M3	S
TO17/nONE	AI	5226-IA04-0116	N	Tetrachloroethene (PCE)	0.17	0.25 J	0.25 J	UG/M3	S
TO17/nONE	AI	5226-IA04-0116	N	1,2,4-Trimethylbenzene	0.20	1.3 J	1.3 J	UG/M3	S
TO17/nONE	AI	5226-IA04-0116	N	1,3,5-Trimethylbenzene	0.14	0.25 J	0.25 J	UG/M3	S/X2
TO17/nONE	AI	5226-IA04-0116	N	m,p-Xylene	0.28	2.1 J	2.1 J	UG/M3	S
TO17/nONE	AI	5226-IA04-0116	N	o-Xylene	0.15	0.74 J	0.74 J	UG/M3	S
TO17/nONE	AI	5227-IA02-0116	N	Benzene	0.50	1.6 J,Q3	1.6	UG/M3	
TO17/nONE	AI	5227-IA02-0116	N	Toluene	0.13	5.9 =	5.9	UG/M3	
TO17/nONE	AI	5227-IA02-0116	N	1,2-Dichloroethane	0.13	0.16 =	0.16	UG/M3	
TO17/nONE	AI	5227-IA02-0116	N	Ethylbenzene	0.15	1.1 =	1.1	UG/M3	
TO17/nONE	AI	5227-IA02-0116	N	Tetrachloroethene (PCE)	0.17	0.29 =	0.29	UG/M3	
TO17/nONE	AI	5227-IA02-0116	N	1,2,4-Trimethylbenzene	0.20	1.9 =	1.9	UG/M3	
TO17/nONE	AI	5227-IA02-0116	N	1,3,5-Trimethylbenzene	0.14	0.41 =	0.41 J	UG/M3	X2
TO17/nONE	AI	5227-IA02-0116	N	m,p-Xylene	0.28	3.6 =	3.6	UG/M3	

AUTOMATED DATA REVIEW SUMMARY for 16029B

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO17/nONE	AI	5227-IA02-0116	N	o-Xylene	0.15	1.3 =	1.3	UG/M3	
TO17/nONE	AA	5227-OA02-0116	N	Benzene	0.50	1.6 J,Q3	1.6	UG/M3	
TO17/nONE	AA	5227-OA02-0116	N	Toluene	0.13	5.0 =	5.0	UG/M3	
TO17/nONE	AA	5227-OA02-0116	N	1,2-Dichloroethane	0.13	0.070 J,C1	0.070 J	UG/M3	TR
TO17/nONE	AA	5227-OA02-0116	N	Ethylbenzene	0.15	0.87 =	0.87	UG/M3	
TO17/nONE	AA	5227-OA02-0116	N	Tetrachloroethene (PCE)	0.17	0.23 =	0.23	UG/M3	
TO17/nONE	AA	5227-OA02-0116	N	1,1,1-Trichloroethane	0.16	0.16 U,C1,J	0.080 J	UG/M3	TR
TO17/nONE	AA	5227-OA02-0116	N	1,2,4-Trimethylbenzene	0.20	1.3 =	1.3	UG/M3	
TO17/nONE	AA	5227-OA02-0116	N	1,3,5-Trimethylbenzene	0.14	0.28 =	0.28 J	UG/M3	X2
TO17/nONE	AA	5227-OA02-0116	N	m,p-Xylene	0.28	2.9 =	2.9	UG/M3	
TO17/nONE	AA	5227-OA02-0116	N	o-Xylene	0.15	1.0 =	1.0	UG/M3	
TO17/nONE	AI	5230-IA02-0116	N	Benzene	0.51	1.7 J,Q3	1.7	UG/M3	
TO17/nONE	AI	5230-IA02-0116	N	Toluene	0.14	5.5 =	5.5	UG/M3	
TO17/nONE	AI	5230-IA02-0116	N	1,2-Dichloroethane	0.13	0.36 =	0.36	UG/M3	
TO17/nONE	AI	5230-IA02-0116	N	Ethylbenzene	0.15	1.3 =	1.3	UG/M3	
TO17/nONE	AI	5230-IA02-0116	N	Tetrachloroethene (PCE)	0.17	0.25 =	0.25	UG/M3	
TO17/nONE	AI	5230-IA02-0116	N	1,1,1-Trichloroethane	0.16	0.080 J,C1	0.080 J	UG/M3	TR
TO17/nONE	AI	5230-IA02-0116	N	Trichloroethene (TCE)	0.15	0.15 U,C1,J	0.070 J	UG/M3	TR
TO17/nONE	AI	5230-IA02-0116	N	1,2,4-Trimethylbenzene	0.20	1.7 =	1.7	UG/M3	
TO17/nONE	AI	5230-IA02-0116	N	1,3,5-Trimethylbenzene	0.15	0.33 =	0.33 J	UG/M3	X2
TO17/nONE	AI	5230-IA02-0116	N	m,p-Xylene	0.29	4.2 =	4.2	UG/M3	
TO17/nONE	AI	5230-IA02-0116	N	o-Xylene	0.16	1.3 =	1.3	UG/M3	
TO17/nONE	AI	5234-CS01-0116	N	Benzene	0.51	1.3 J,Q3	1.3	UG/M3	
TO17/nONE	AI	5234-CS01-0116	N	Toluene	0.14	4.4 =	4.4	UG/M3	
TO17/nONE	AI	5234-CS01-0116	N	Ethylbenzene	0.15	0.79 =	0.79	UG/M3	
TO17/nONE	AI	5234-CS01-0116	N	Tetrachloroethene (PCE)	0.17	0.21 =	0.21	UG/M3	
TO17/nONE	AI	5234-CS01-0116	N	1,2,4-Trimethylbenzene	0.20	1.2 =	1.2	UG/M3	

AUTOMATED DATA REVIEW SUMMARY for 16029B

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO17/nONE	AI	5234-CS01-0116	N	1,3,5-Trimethylbenzene	0.15	0.26 =	0.26 J	UG/M3	X2
TO17/nONE	AI	5234-CS01-0116	N	m,p-Xylene	0.29	2.6 =	2.6	UG/M3	
TO17/nONE	AI	5234-CS01-0116	N	o-Xylene	0.16	0.95 =	0.95	UG/M3	
TO17/nONE	AI	5234-IA01-0116	N	Benzene	0.50	1.5 J,Q3	1.5	UG/M3	
TO17/nONE	AI	5234-IA01-0116	N	Toluene	0.14	4.5 =	4.5	UG/M3	
TO17/nONE	AI	5234-IA01-0116	N	Ethylbenzene	0.15	0.80 =	0.80	UG/M3	
TO17/nONE	AI	5234-IA01-0116	N	Tetrachloroethene (PCE)	0.17	0.21 =	0.21	UG/M3	
TO17/nONE	AI	5234-IA01-0116	N	1,2,4-Trimethylbenzene	0.20	1.2 =	1.2	UG/M3	
TO17/nONE	AI	5234-IA01-0116	N	1,3,5-Trimethylbenzene	0.14	0.26 =	0.26 J	UG/M3	X2
TO17/nONE	AI	5234-IA01-0116	N	m,p-Xylene	0.29	2.6 =	2.6	UG/M3	
TO17/nONE	AI	5234-IA01-0116	N	o-Xylene	0.15	0.94 =	0.94	UG/M3	
TO17/nONE	AA	5405-OA01-0116	FD	Benzene	0.50	1.2 J,Q3	1.2	UG/M3	
TO17/nONE	AA	5405-OA01-0116	FD	Toluene	0.14	4.4 =	4.4	UG/M3	
TO17/nONE	AA	5405-OA01-0116	FD	Ethylbenzene	0.15	0.97 =	0.97	UG/M3	
TO17/nONE	AA	5405-OA01-0116	FD	Tetrachloroethene (PCE)	0.17	0.21 =	0.21	UG/M3	
TO17/nONE	AA	5405-OA01-0116	FD	1,2,4-Trimethylbenzene	0.20	1.6 =	1.6	UG/M3	
TO17/nONE	AA	5405-OA01-0116	FD	1,3,5-Trimethylbenzene	0.14	0.33 =	0.33 J	UG/M3	X2
TO17/nONE	AA	5405-OA01-0116	FD	m,p-Xylene	0.29	3.3 =	3.3	UG/M3	
TO17/nONE	AA	5405-OA01-0116	FD	o-Xylene	0.15	1.2 =	1.2	UG/M3	
TO17/nONE	AI	5406-IA01-0116	FD	Benzene	0.50	1.6 J,Q3	1.6	UG/M3	
TO17/nONE	AI	5406-IA01-0116	FD	Toluene	0.13	5.7 =	5.7	UG/M3	
TO17/nONE	AI	5406-IA01-0116	FD	1,2-Dichloroethane	0.13	0.17 =	0.17	UG/M3	
TO17/nONE	AI	5406-IA01-0116	FD	Ethylbenzene	0.15	1.1 =	1.1	UG/M3	
TO17/nONE	AI	5406-IA01-0116	FD	Tetrachloroethene (PCE)	0.17	0.28 =	0.28	UG/M3	
TO17/nONE	AI	5406-IA01-0116	FD	1,2,4-Trimethylbenzene	0.20	1.9 =	1.9	UG/M3	
TO17/nONE	AI	5406-IA01-0116	FD	1,3,5-Trimethylbenzene	0.14	0.41 =	0.41 J	UG/M3	X2
TO17/nONE	AI	5406-IA01-0116	FD	m,p-Xylene	0.28	3.6 =	3.6	UG/M3	

AUTOMATED DATA REVIEW SUMMARY for 16029B

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO17/nONE	AI	5406-IA01-0116	FD	o-Xylene	0.15	1.3 =	1.3	UG/M3	
TO17/nONE	AQ	5407-OA01-0116	AB	Toluene	0.13	0.38 =	0.38	UG/M3	
TO17/nONE	AQ	5407-OA01-0116	AB	1,2,4-Trimethylbenzene	0.20	0.20 U,C1,J	0.10 J	UG/M3	TR

AUTOMATED DATA REVIEW SUMMARY for 16029B

Rejected Results

--No Records Found--

Qualified Results Table

Lab Sample ID	Sample ID	Sample Collection Date	Type	Method	Parameter	Original Value	Qualifier	New Value	Bias	MDL	RL	Units	Reason
1601047-06	5211-CS01-0116	1/27/2016	AI-N	TO17	Benzene	0.89	J	0.89 J	-	0.26	0.51	UG/M3	S
1601047-06	5211-CS01-0116	1/27/2016	AI-N	TO17	Toluene	2.9	J	2.9 J	-	0.070	0.14	UG/M3	S
1601047-06	5211-CS01-0116	1/27/2016	AI-N	TO17	1,1-Dichloroethane	ND	UJ	ND UJ	-	0.070	0.15	UG/M3	S/X2
1601047-06	5211-CS01-0116	1/27/2016	AI-N	TO17	1,2-Dichloroethane	ND	UJ	ND UJ	-	0.070	0.13	UG/M3	S
1601047-06	5211-CS01-0116	1/27/2016	AI-N	TO17	1,1-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.15	UG/M3	L/S/X2
1601047-06	5211-CS01-0116	1/27/2016	AI-N	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ	-	0.070	0.15	UG/M3	S/X2
1601047-06	5211-CS01-0116	1/27/2016	AI-N	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.15	UG/M3	L/S/X2
1601047-06	5211-CS01-0116	1/27/2016	AI-N	TO17	Ethylbenzene	0.59	J	0.59 J	-	0.080	0.15	UG/M3	S
1601047-06	5211-CS01-0116	1/27/2016	AI-N	TO17	Naphthalene	ND	UJ	ND UJ	-	0.20	0.41	UG/M3	S
1601047-06	5211-CS01-0116	1/27/2016	AI-N	TO17	Tetrachloroethene (PCE)	0.14	J	0.14 J	-	0.090	0.17	UG/M3	S/TR
1601047-06	5211-CS01-0116	1/27/2016	AI-N	TO17	1,1,1-Trichloroethane	ND	UJ	ND UJ	-	0.080	0.16	UG/M3	S
1601047-06	5211-CS01-0116	1/27/2016	AI-N	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ	-	0.070	0.15	UG/M3	S/X2
1601047-06	5211-CS01-0116	1/27/2016	AI-N	TO17	Trichloroethene (TCE)	ND	UJ	ND UJ	-	0.070	0.15	UG/M3	S
1601047-06	5211-CS01-0116	1/27/2016	AI-N	TO17	1,2,4-Trimethylbenzene	0.93	J	0.93 J	-	0.10	0.20	UG/M3	S
1601047-06	5211-CS01-0116	1/27/2016	AI-N	TO17	1,3,5-Trimethylbenzene	0.19	J	0.19 J	-	0.070	0.15	UG/M3	S/X2
1601047-06	5211-CS01-0116	1/27/2016	AI-N	TO17	m,p-Xylene	2.0	J	2.0 J	-	0.15	0.29	UG/M3	S
1601047-06	5211-CS01-0116	1/27/2016	AI-N	TO17	o-Xylene	0.71	J	0.71 J	-	0.080	0.16	UG/M3	S
1601047-05RE1	5211-IA01-0116	1/27/2016	AI-N	TO17	1,1-Dichloroethane	ND	UJ	ND UJ		0.070	0.15	UG/M3	X2
1601047-05RE1	5211-IA01-0116	1/27/2016	AI-N	TO17	1,2-Dichloroethane	0.080	J	0.080 J		0.070	0.13	UG/M3	TR
1601047-05RE1	5211-IA01-0116	1/27/2016	AI-N	TO17	1,1-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.15	UG/M3	L/X2
1601047-05RE1	5211-IA01-0116	1/27/2016	AI-N	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ		0.070	0.15	UG/M3	X2
1601047-05RE1	5211-IA01-0116	1/27/2016	AI-N	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.15	UG/M3	L/X2
1601047-05RE1	5211-IA01-0116	1/27/2016	AI-N	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ		0.070	0.15	UG/M3	X2
1601047-05RE1	5211-IA01-0116	1/27/2016	AI-N	TO17	Trichloroethene (TCE)	0.090	J	0.090 J		0.070	0.15	UG/M3	TR
1601047-05RE1	5211-IA01-0116	1/27/2016	AI-N	TO17	1,3,5-Trimethylbenzene	0.27	J	0.27 J		0.070	0.15	UG/M3	X2
1601047-09	5211-OA01-0116	1/27/2016	AA-N	TO17	1,1-Dichloroethane	ND	UJ	ND UJ		0.070	0.15	UG/M3	X2
1601047-09	5211-OA01-0116	1/27/2016	AA-N	TO17	1,2-Dichloroethane	0.070	J	0.070 J		0.070	0.13	UG/M3	TR
1601047-09	5211-OA01-0116	1/27/2016	AA-N	TO17	1,1-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.15	UG/M3	L/X2
1601047-09	5211-OA01-0116	1/27/2016	AA-N	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ		0.070	0.15	UG/M3	X2
1601047-09	5211-OA01-0116	1/27/2016	AA-N	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.15	UG/M3	L/X2

Qualified Results Table

Lab Sample ID	Sample ID	Sample Collection Date	Type	Method	Parameter	Original Value	Qualifier	New Value	Bias	MDL	RL	Units	Reason
1601047-09	5211-OA01-0116	1/27/2016	AA-N	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ		0.070	0.15	UG/M3	X2
1601047-09	5211-OA01-0116	1/27/2016	AA-N	TO17	1,3,5-Trimethylbenzene	0.35	J	0.35 J		0.070	0.15	UG/M3	X2
1601047-04RE1	5215-CS01-0116	1/27/2016	AI-N	TO17	1,1-Dichloroethane	ND	UJ	ND UJ		0.070	0.14	UG/M3	X2
1601047-04RE1	5215-CS01-0116	1/27/2016	AI-N	TO17	1,1-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.14	UG/M3	L/X2
1601047-04RE1	5215-CS01-0116	1/27/2016	AI-N	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ		0.070	0.14	UG/M3	X2
1601047-04RE1	5215-CS01-0116	1/27/2016	AI-N	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.14	UG/M3	L/X2
1601047-04RE1	5215-CS01-0116	1/27/2016	AI-N	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ		0.070	0.14	UG/M3	X2
1601047-04RE1	5215-CS01-0116	1/27/2016	AI-N	TO17	1,3,5-Trimethylbenzene	0.27	J	0.27 J		0.070	0.14	UG/M3	X2
1601047-03	5215-IA01-0116	1/27/2016	AI-N	TO17	Benzene	1.5	J	1.5 J	-	0.25	0.50	UG/M3	S
1601047-03	5215-IA01-0116	1/27/2016	AI-N	TO17	Toluene	3.8	J	3.8 J	-	0.070	0.14	UG/M3	S
1601047-03	5215-IA01-0116	1/27/2016	AI-N	TO17	1,1-Dichloroethane	ND	UJ	ND UJ	-	0.070	0.14	UG/M3	S/X2
1601047-03	5215-IA01-0116	1/27/2016	AI-N	TO17	1,2-Dichloroethane	0.070	J	0.070 J	-	0.070	0.13	UG/M3	S/TR
1601047-03	5215-IA01-0116	1/27/2016	AI-N	TO17	1,1-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.14	UG/M3	L/S/X2
1601047-03	5215-IA01-0116	1/27/2016	AI-N	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ	-	0.070	0.14	UG/M3	S/X2
1601047-03	5215-IA01-0116	1/27/2016	AI-N	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.14	UG/M3	L/S/X2
1601047-03	5215-IA01-0116	1/27/2016	AI-N	TO17	Ethylbenzene	0.67	J	0.67 J	-	0.070	0.15	UG/M3	S
1601047-03	5215-IA01-0116	1/27/2016	AI-N	TO17	Naphthalene	ND	UJ	ND UJ	-	0.20	0.40	UG/M3	S
1601047-03	5215-IA01-0116	1/27/2016	AI-N	TO17	Tetrachloroethene (PCE)	0.18	J	0.18 J	-	0.090	0.17	UG/M3	S
1601047-03	5215-IA01-0116	1/27/2016	AI-N	TO17	1,1,1-Trichloroethane	ND	UJ	ND UJ	-	0.080	0.16	UG/M3	S
1601047-03	5215-IA01-0116	1/27/2016	AI-N	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ	-	0.070	0.14	UG/M3	S/X2
1601047-03	5215-IA01-0116	1/27/2016	AI-N	TO17	Trichloroethene (TCE)	ND	UJ	ND UJ	-	0.070	0.15	UG/M3	S
1601047-03	5215-IA01-0116	1/27/2016	AI-N	TO17	1,2,4-Trimethylbenzene	1.1	J	1.1 J	-	0.10	0.20	UG/M3	S
1601047-03	5215-IA01-0116	1/27/2016	AI-N	TO17	1,3,5-Trimethylbenzene	0.22	J	0.22 J	-	0.070	0.14	UG/M3	S/X2
1601047-03	5215-IA01-0116	1/27/2016	AI-N	TO17	m,p-Xylene	2.2	J	2.2 J	-	0.14	0.29	UG/M3	S
1601047-03	5215-IA01-0116	1/27/2016	AI-N	TO17	o-Xylene	0.79	J	0.79 J	-	0.080	0.15	UG/M3	S
1601047-02RE1	5226-IA01-0116	1/27/2016	AI-N	TO17	1,1-Dichloroethane	ND	UJ	ND UJ		0.070	0.14	UG/M3	X2
1601047-02RE1	5226-IA01-0116	1/27/2016	AI-N	TO17	1,2-Dichloroethane	0.090	J	0.090 J		0.070	0.13	UG/M3	TR
1601047-02RE1	5226-IA01-0116	1/27/2016	AI-N	TO17	1,1-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.14	UG/M3	L/X2
1601047-02RE1	5226-IA01-0116	1/27/2016	AI-N	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ		0.070	0.14	UG/M3	X2
1601047-02RE1	5226-IA01-0116	1/27/2016	AI-N	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.14	UG/M3	L/X2

Qualified Results Table

Lab Sample ID	Sample ID	Sample Collection Date	Type	Method	Parameter	Original Value	Qualifier	New Value	Bias	MDL	RL	Units	Reason
1601047-02RE1	5226-IA01-0116	1/27/2016	AI-N	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ		0.070	0.14	UG/M3	X2
1601047-02RE1	5226-IA01-0116	1/27/2016	AI-N	TO17	1,3,5-Trimethylbenzene	0.34	J	0.34 J		0.070	0.14	UG/M3	X2
1601047-11RE1	5226-IA02-0116	1/28/2016	AI-N	TO17	1,1-Dichloroethane	ND	UJ	ND UJ		0.070	0.15	UG/M3	X2
1601047-11RE1	5226-IA02-0116	1/28/2016	AI-N	TO17	1,2-Dichloroethane	0.080	J	0.080 J		0.070	0.13	UG/M3	TR
1601047-11RE1	5226-IA02-0116	1/28/2016	AI-N	TO17	1,1-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.15	UG/M3	L/X2
1601047-11RE1	5226-IA02-0116	1/28/2016	AI-N	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ		0.070	0.15	UG/M3	X2
1601047-11RE1	5226-IA02-0116	1/28/2016	AI-N	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.15	UG/M3	L/X2
1601047-11RE1	5226-IA02-0116	1/28/2016	AI-N	TO17	Naphthalene	0.24	J	0.24 J		0.21	0.41	UG/M3	TR
1601047-11RE1	5226-IA02-0116	1/28/2016	AI-N	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ		0.070	0.15	UG/M3	X2
1601047-11RE1	5226-IA02-0116	1/28/2016	AI-N	TO17	Trichloroethene (TCE)	0.080	J	0.080 J		0.070	0.15	UG/M3	TR
1601047-11RE1	5226-IA02-0116	1/28/2016	AI-N	TO17	1,3,5-Trimethylbenzene	1.9	J	1.9 J		0.070	0.15	UG/M3	X2
1601047-01	5226-IA04-0116	1/27/2016	AI-N	TO17	Benzene	2.7	J	2.7 J	-	0.25	0.49	UG/M3	S
1601047-01	5226-IA04-0116	1/27/2016	AI-N	TO17	Toluene	4.2	J	4.2 J	-	0.070	0.13	UG/M3	S
1601047-01	5226-IA04-0116	1/27/2016	AI-N	TO17	1,1-Dichloroethane	ND	UJ	ND UJ	-	0.070	0.14	UG/M3	S/X2
1601047-01	5226-IA04-0116	1/27/2016	AI-N	TO17	1,2-Dichloroethane	0.43	J	0.43 J	-	0.060	0.13	UG/M3	S
1601047-01	5226-IA04-0116	1/27/2016	AI-N	TO17	1,1-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.14	UG/M3	L/S/X2
1601047-01	5226-IA04-0116	1/27/2016	AI-N	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ	-	0.070	0.14	UG/M3	S/X2
1601047-01	5226-IA04-0116	1/27/2016	AI-N	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.14	UG/M3	L/S/X2
1601047-01	5226-IA04-0116	1/27/2016	AI-N	TO17	Ethylbenzene	0.66	J	0.66 J	-	0.070	0.15	UG/M3	S
1601047-01	5226-IA04-0116	1/27/2016	AI-N	TO17	Naphthalene	ND	UJ	ND UJ	-	0.20	0.40	UG/M3	S
1601047-01	5226-IA04-0116	1/27/2016	AI-N	TO17	Tetrachloroethene (PCE)	0.25	J	0.25 J	-	0.080	0.17	UG/M3	S
1601047-01	5226-IA04-0116	1/27/2016	AI-N	TO17	1,1,1-Trichloroethane	ND	UJ	ND UJ	-	0.080	0.16	UG/M3	S
1601047-01	5226-IA04-0116	1/27/2016	AI-N	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ	-	0.070	0.14	UG/M3	S/X2
1601047-01	5226-IA04-0116	1/27/2016	AI-N	TO17	Trichloroethene (TCE)	ND	UJ	ND UJ	-	0.070	0.14	UG/M3	S
1601047-01	5226-IA04-0116	1/27/2016	AI-N	TO17	1,2,4-Trimethylbenzene	1.3	J	1.3 J	-	0.10	0.20	UG/M3	S
1601047-01	5226-IA04-0116	1/27/2016	AI-N	TO17	1,3,5-Trimethylbenzene	0.25	J	0.25 J	-	0.070	0.14	UG/M3	S/X2
1601047-01	5226-IA04-0116	1/27/2016	AI-N	TO17	m,p-Xylene	2.1	J	2.1 J	-	0.14	0.28	UG/M3	S
1601047-01	5226-IA04-0116	1/27/2016	AI-N	TO17	o-Xylene	0.74	J	0.74 J	-	0.080	0.15	UG/M3	S
1601047-13	5227-IA02-0116	1/28/2016	AI-N	TO17	1,1-Dichloroethane	ND	UJ	ND UJ		0.070	0.14	UG/M3	X2
1601047-13	5227-IA02-0116	1/28/2016	AI-N	TO17	1,1-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.14	UG/M3	L/X2

Qualified Results Table

Lab Sample ID	Sample ID	Sample Collection Date	Type	Method	Parameter	Original Value	Qualifier	New Value	Bias	MDL	RL	Units	Reason
1601047-13	5227-IA02-0116	1/28/2016	AI-N	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ		0.070	0.14	UG/M3	X2
1601047-13	5227-IA02-0116	1/28/2016	AI-N	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.14	UG/M3	L/X2
1601047-13	5227-IA02-0116	1/28/2016	AI-N	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ		0.070	0.14	UG/M3	X2
1601047-13	5227-IA02-0116	1/28/2016	AI-N	TO17	1,3,5-Trimethylbenzene	0.41	J	0.41 J		0.070	0.14	UG/M3	X2
1601047-14	5227-OA02-0116	1/28/2016	AA-N	TO17	1,1-Dichloroethane	ND	UJ	ND UJ		0.070	0.14	UG/M3	X2
1601047-14	5227-OA02-0116	1/28/2016	AA-N	TO17	1,2-Dichloroethane	0.070	J	0.070 J		0.060	0.13	UG/M3	TR
1601047-14	5227-OA02-0116	1/28/2016	AA-N	TO17	1,1-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.14	UG/M3	L/X2
1601047-14	5227-OA02-0116	1/28/2016	AA-N	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ		0.070	0.14	UG/M3	X2
1601047-14	5227-OA02-0116	1/28/2016	AA-N	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.14	UG/M3	L/X2
1601047-14	5227-OA02-0116	1/28/2016	AA-N	TO17	1,1,1-Trichloroethane	ND	J	0.080 J		0.080	0.16	UG/M3	TR
1601047-14	5227-OA02-0116	1/28/2016	AA-N	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ		0.070	0.14	UG/M3	X2
1601047-14	5227-OA02-0116	1/28/2016	AA-N	TO17	1,3,5-Trimethylbenzene	0.28	J	0.28 J		0.070	0.14	UG/M3	X2
1601047-12	5230-IA02-0116	1/28/2016	AI-N	TO17	1,1-Dichloroethane	ND	UJ	ND UJ		0.070	0.15	UG/M3	X2
1601047-12	5230-IA02-0116	1/28/2016	AI-N	TO17	1,1-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.15	UG/M3	L/X2
1601047-12	5230-IA02-0116	1/28/2016	AI-N	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ		0.070	0.15	UG/M3	X2
1601047-12	5230-IA02-0116	1/28/2016	AI-N	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.15	UG/M3	L/X2
1601047-12	5230-IA02-0116	1/28/2016	AI-N	TO17	1,1,1-Trichloroethane	0.080	J	0.080 J		0.080	0.16	UG/M3	TR
1601047-12	5230-IA02-0116	1/28/2016	AI-N	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ		0.070	0.15	UG/M3	X2
1601047-12	5230-IA02-0116	1/28/2016	AI-N	TO17	Trichloroethene (TCE)	ND	J	0.070 J		0.070	0.15	UG/M3	TR
1601047-12	5230-IA02-0116	1/28/2016	AI-N	TO17	1,3,5-Trimethylbenzene	0.33	J	0.33 J		0.070	0.15	UG/M3	X2
1601047-08	5234-CS01-0116	1/27/2016	AI-N	TO17	1,1-Dichloroethane	ND	UJ	ND UJ		0.070	0.15	UG/M3	X2
1601047-08	5234-CS01-0116	1/27/2016	AI-N	TO17	1,1-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.15	UG/M3	L/X2
1601047-08	5234-CS01-0116	1/27/2016	AI-N	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ		0.070	0.15	UG/M3	X2
1601047-08	5234-CS01-0116	1/27/2016	AI-N	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.15	UG/M3	L/X2
1601047-08	5234-CS01-0116	1/27/2016	AI-N	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ		0.070	0.15	UG/M3	X2
1601047-08	5234-CS01-0116	1/27/2016	AI-N	TO17	1,3,5-Trimethylbenzene	0.26	J	0.26 J		0.070	0.15	UG/M3	X2
1601047-07	5234-IA01-0116	1/27/2016	AI-N	TO17	1,1-Dichloroethane	ND	UJ	ND UJ		0.070	0.14	UG/M3	X2
1601047-07	5234-IA01-0116	1/27/2016	AI-N	TO17	1,1-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.14	UG/M3	L/X2
1601047-07	5234-IA01-0116	1/27/2016	AI-N	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ		0.070	0.14	UG/M3	X2
1601047-07	5234-IA01-0116	1/27/2016	AI-N	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.14	UG/M3	L/X2

Qualified Results Table

Lab Sample ID	Sample ID	Sample Collection Date	Type	Method	Parameter	Original Value	Qualifier	New Value	Bias	MDL	RL	Units	Reason
1601047-07	5234-IA01-0116	1/27/2016	AI-N	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ		0.070	0.14	UG/M3	X2
1601047-07	5234-IA01-0116	1/27/2016	AI-N	TO17	1,3,5-Trimethylbenzene	0.26	J	0.26 J		0.070	0.14	UG/M3	X2
1601047-10RE2	5405-OA01-0116	1/27/2016	AA-FD	TO17	1,1-Dichloroethane	ND	UJ	ND UJ		0.070	0.14	UG/M3	X2
1601047-10RE2	5405-OA01-0116	1/27/2016	AA-FD	TO17	1,1-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.14	UG/M3	L/X2
1601047-10RE2	5405-OA01-0116	1/27/2016	AA-FD	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ		0.070	0.14	UG/M3	X2
1601047-10RE2	5405-OA01-0116	1/27/2016	AA-FD	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.14	UG/M3	L/X2
1601047-10RE2	5405-OA01-0116	1/27/2016	AA-FD	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ		0.070	0.14	UG/M3	X2
1601047-10RE2	5405-OA01-0116	1/27/2016	AA-FD	TO17	1,3,5-Trimethylbenzene	0.33	J	0.33 J		0.070	0.14	UG/M3	X2
1601047-15	5406-IA01-0116	1/28/2016	AI-FD	TO17	1,1-Dichloroethane	ND	UJ	ND UJ		0.070	0.14	UG/M3	X2
1601047-15	5406-IA01-0116	1/28/2016	AI-FD	TO17	1,1-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.14	UG/M3	L/X2
1601047-15	5406-IA01-0116	1/28/2016	AI-FD	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ		0.070	0.14	UG/M3	X2
1601047-15	5406-IA01-0116	1/28/2016	AI-FD	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ	-	0.070	0.14	UG/M3	L/X2
1601047-15	5406-IA01-0116	1/28/2016	AI-FD	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ		0.070	0.14	UG/M3	X2
1601047-15	5406-IA01-0116	1/28/2016	AI-FD	TO17	1,3,5-Trimethylbenzene	0.41	J	0.41 J		0.070	0.14	UG/M3	X2

Matrix / Sample Type

Matrix	Matrix Description	Sample Code	Sample Code Description
AA	AMBIENT AIR	FD	Field Duplicate
AA	AMBIENT AIR	N	Normal Environmental Sample
AI	INDOOR AIR	FD	Field Duplicate
AI	INDOOR AIR	N	Normal Environmental Sample

Data Qualifier Definitions

Flag	Description
J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

Reason and Comment Code Definitions

Code	Description
L	Percent recovery of laboratory control sample recovery was outside established limits
S	Surrogate recovery out of criteria (upper or lower limit)
TR	Trace Level Detect
X2	Qualified due to professional judgment, see data validation narrative.

Field Duplicate Report By SDG
Southern Avenue Industrial Area
SAIA SAP
Field Duplicates for SDG: 16029B

Location	Analysis
5211-OA01	TO17

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	1,1,1-Trichloroethane	ND	ND	0.170	NA	35	NA	OK
5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	1,1,2-Trichloroethane	ND	ND	0.150	NA	35	NA	OK
5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	1,1-Dichloroethane	ND	ND	0.150	NA	35	NA	OK
5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	1,1-Dichloroethene	ND	ND	0.150	NA	35	NA	OK
5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	1,2,4-Trimethylbenzene	1.60	1.60	0.210	0.00	35	OK	NA
5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	1,2-Dichloroethane	0.0700	ND	0.130	NA	35	NA	OK
5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	1,3,5-Trimethylbenzene	0.350	0.330	0.150	5.88	35	NA	OK
5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	Benzene	1.60	1.20	0.520	28.6	35	NA	OK
5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	cis-1,2-Dichloroethylene	ND	ND	0.150	NA	35	NA	OK
5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	Ethylbenzene	1.10	0.970	0.150	12.6	35	OK	NA
5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	m,p-Xylene	3.70	3.30	0.300	11.4	35	OK	NA
5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	Naphthalene	ND	ND	0.420	NA	35	NA	OK
5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	o-Xylene	1.30	1.20	0.160	8.00	35	OK	NA
5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	Tetrachloroethene (PCE)	0.240	0.210	0.180	13.3	35	NA	OK
5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	Toluene	5.30	4.40	0.140	18.6	35	OK	NA
5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	trans-1,2-Dichloroethene	ND	ND	0.150	NA	35	NA	OK
5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	Trichloroethene (TCE)	ND	ND	0.150	NA	35	NA	OK

Location	Analysis
5227-IA02	TO17

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	1,1,1-Trichloroethane	ND	ND	0.160	NA	35	NA	OK
5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	1,1,2-Trichloroethane	ND	ND	0.140	NA	35	NA	OK

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference

RL Check = If either the primary sample or field duplicate result is less than 5 times the RL then the criteria used to determine if the field duplicate is outside QC limits is +/- RL for Water and +/- 2 times RL for Soil

Field Duplicate Report By SDG
Southern Avenue Industrial Area
SAIA SAP
Field Duplicates for SDG: 16029B

Location	Analysis
5227-IA02	TO17

Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Criteria	RPD Check	RL Check
5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	1,1-Dichloroethane	ND	ND	0.140	NA	35	NA	OK
5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	1,1-Dichloroethene	ND	ND	0.140	NA	35	NA	OK
5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	1,2,4-Trimethylbenzene	1.90	1.90	0.200	0.00	35	OK	NA
5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	1,2-Dichloroethane	0.160	0.170	0.130	6.06	35	NA	OK
5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	1,3,5-Trimethylbenzene	0.410	0.410	0.140	0.00	35	NA	OK
5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	Benzene	1.60	1.60	0.500	0.00	35	NA	OK
5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	cis-1,2-Dichloroethylene	ND	ND	0.140	NA	35	NA	OK
5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	Ethylbenzene	1.10	1.10	0.150	0.00	35	OK	NA
5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	m,p-Xylene	3.60	3.60	0.280	0.00	35	OK	NA
5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	Naphthalene	ND	ND	0.400	NA	35	NA	OK
5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	o-Xylene	1.30	1.30	0.150	0.00	35	OK	NA
5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	Tetrachloroethene (PCE)	0.290	0.280	0.170	3.51	35	NA	OK
5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	Toluene	5.90	5.70	0.130	3.45	35	OK	NA
5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	trans-1,2-Dichloroethene	ND	ND	0.140	NA	35	NA	OK
5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	Trichloroethene (TCE)	ND	ND	0.140	NA	35	NA	OK

FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference

RL Check = If either the primary sample or field duplicate result is less than 5 times the RL then the criteria used to determine if the field duplicate is outside QC limits is +/- RL for Water and +/- 2 times RL for Soil

AUTOMATED DATA REVIEW SUMMARY for 1504309R2

Facility: Southern Avenue Industrial Area

Guidance Document: **Sampling and Analysis Plan (SAP), Vapor Intrusion Evaluation, Southern Avenue Industrial Area Superfund Site, South Gate, LA County CA 2015**

Contract Laboratory: Air Toxics, Ltd., Folsom, CA

Field Contractor:

Data Review Contractor:

SDG: 1504309R2, Certified - 7/22/2015 by kvagadori

QC Level: Tier 3

Project Manager: Don Gruber

Data Reviewer: Peggy Cota

Data Reviewer Title: Project Chemist

Date of Review Report: July 22, 2015

Second Reviewer: Tom Beer

Completion Date of Second Reviewer:

Samples Included in SDG 1504309R2

Analytical Method/ Leach Method	Normal Air Samples	Field QC Air Samples
TO17/NONE	8	1

AUTOMATED DATA REVIEW SUMMARY for 1504309R2

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the SAP to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane ; analyses were performed by Air Toxics, Ltd., Folsom, CA and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- Field Duplicate RPD
- LCS Recovery
- Prep Hold Time
- Surrogate
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- MS Recovery
- MS RPD
- Negative Blank
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for 1504309R2

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 63 results (38.89%) out of the 162 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Validated uptake rates were not available for VOCs 1,1,2-trichloroethane, 1,1-dichloroethane, 1,1-dichloroethene, 1,3,5-trimethylbenzene, cis-1,2-dichloroethylene, trans-1,2-dichloroethylene and vinyl chloride. The rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. The associated results in all samples have been qualified as “J” or “UJ” for an estimated value or reporting limit. See QC Manual Outlier Report in this ADR.

For Radiello samples collected over a seven-day period, the average temperature at the collection site should be documented and used to calculate the final VOC concentrations. For the samples associated with this SDG only the initial temperature of 89.8˚F was documented. While collection temperatures have an effect on the final concentration, it was determined that the results would not significantly change if the average temperature was used to calculate the concentrations. No qualifiers were applied to the results.

The method detection limit (MDL) for naphthalene did not meet the "Regional Screening Level for Residential Indoor Air” of 0.083 ug/m3 at 0.17 ug/m3 from Table 3 of the QAPP. The MDL did meet the “Reporting Limit of 7 Day Exposure (ug/m3)" of 0.3968 ug/m3 from Table 3 of the QAPP.

Peggy Cota pcota@gilbaneco.com 2015.08.04 16:14:29 -07'00' — 22-Jul-2015

Released by Peggy Cota, Project Chemist

Tom Beer Digitally signed by Tom Beer DN: cn=Tom Beer, o, ou, email=tbeer@gilbaneco.com, c=US Date: 2015.08.04 14:22:07 -07'00' — 4-Aug-2015

Released by Tom Beer

AUTOMATED DATA REVIEW SUMMARY for 1504309R2

AUTOMATED DATA REVIEW SUMMARY for 1504309R2

Reason and Comment Code Definitions

Comments	
Code	**Definition**
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons	
Code	**Definition**
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

AUTOMATED DATA REVIEW SUMMARY for 1504309R2

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for 1504309R2

Batch Report

Test Method: TO17; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
C042302	C042302	NA	5211-CS01	AI	5211-CS01-0415	1504309R2-06A	C041509	1/1	17-Apr-2015 9:17 AM	23-Apr-2015 2:38 PM	23-Apr-2015 2:38 PM	N
	C042302	NA	5211-IA01	AI	5211-IA01-0415	1504309R2-05A	C041509	1/1	17-Apr-2015 9:11 AM	23-Apr-2015 2:13 PM	23-Apr-2015 2:13 PM	N
	C042302	NA	5215-CS01	AI	5215-CS01-0415	1504309R2-09A	C041509	1/1	17-Apr-2015 12:55 PM	23-Apr-2015 3:52 PM	23-Apr-2015 3:52 PM	N
	C042302	NA	5227-IA02	AI	5227-IA02-0415	1504309R2-01A	C041509	1/1	16-Apr-2015 1:02 PM	23-Apr-2015 12:35 PM	23-Apr-2015 12:35 PM	N
	C042302	NA	5230-IA01	AI	5230-IA01-0415	1504309R2-02A	C041509	1/1	16-Apr-2015 2:00 PM	23-Apr-2015 1:00 PM	23-Apr-2015 1:00 PM	N
	C042302	NA	5230-OA01	AI	5230-FB01-0415	1504309R2-04A	C041509	1/1	16-Apr-2015 2:10 PM	23-Apr-2015 1:49 PM	23-Apr-2015 1:49 PM	FD
	C042302	NA	5230-OA01	AI	5230-OA01-0415	1504309R2-03A	C041509	1/1	16-Apr-2015 2:05 PM	23-Apr-2015 1:24 PM	23-Apr-2015 1:24 PM	N
	C042302	NA	5234-CS01	AI	5234-CS01-0415	1504309R2-08A	C041509	1/1	17-Apr-2015 10:12 AM	23-Apr-2015 3:27 PM	23-Apr-2015 3:27 PM	N
	C042302	NA	5234-IA01	AI	5234-IA01-0415	1504309R2-07A	C041509	1/1	17-Apr-2015 10:10 AM	23-Apr-2015 3:02 PM	23-Apr-2015 3:02 PM	N
	C042302	NA	LABQC	AQ	LABQC	1504309R2-11AA	C041509	1/1	23-Apr-2015 10:21 AM	23-Apr-2015 10:21 AM	23-Apr-2015 10:21 AM	BD
	C042302	NA	LABQC	AQ	LABQC	1504309R2-11A	C041509	1/1	23-Apr-2015 9:57 AM	23-Apr-2015 9:57 AM	23-Apr-2015 9:57 AM	BS
	C042302	NA	LABQC	AQ	LABQC	1504309R2-10A	C041509	1/1	23-Apr-2015 10:57 AM	23-Apr-2015 10:57 AM	23-Apr-2015 10:57 AM	LB

AUTOMATED DATA REVIEW SUMMARY for 1504309R2

Field Batch Report

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for 1504309R2

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
TO17 / METHOD	Blank	1504309R2-10A (LB)	1 / 1.00	Naphthalene	0.200	UG/M3	U/None	< 0.17	< 0.38	B1		1	0.200

AUTOMATED DATA REVIEW SUMMARY for 1504309R2

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO17/NONE	AI	5211-CS01-0415	N	1,1,2-Trichloroethane	0.14	0.14 UC	0.14 UJ	UG/M3	X2
TO17/NONE	AI	5211-CS01-0415	N	1,1-Dichloroethane	0.15	0.15 UC	0.15 UJ	UG/M3	X2
TO17/NONE	AI	5211-CS01-0415	N	1,1-Dichloroethene	0.50	0.50 UC	0.50 UJ	UG/M3	X2
TO17/NONE	AI	5211-CS01-0415	N	1,2-Dichloroethane	0.12	0.054 J	0.054 J	UG/M3	TR
TO17/NONE	AI	5211-CS01-0415	N	1,3,5-Trimethylbenzene	0.18	0.13 CJ	0.13 J	UG/M3	TR/X2
TO17/NONE	AI	5211-CS01-0415	N	cis-1,2-Dichloroethylene	0.15	0.15 UC	0.15 UJ	UG/M3	X2
TO17/NONE	AI	5211-CS01-0415	N	Tetrachloroethene (PCE)	0.16	0.11 J	0.11 J	UG/M3	TR
TO17/NONE	AI	5211-CS01-0415	N	trans-1,2-Dichloroethene	0.32	0.32 UC	0.32 UJ	UG/M3	X2
TO17/NONE	AI	5211-CS01-0415	N	Vinyl Chloride	0.42	0.42 UC	0.42 UJ	UG/M3	X2
TO17/NONE	AI	5211-IA01-0415	N	1,1,2-Trichloroethane	0.14	0.14 UC	0.14 UJ	UG/M3	X2
TO17/NONE	AI	5211-IA01-0415	N	1,1-Dichloroethane	0.15	0.15 UC	0.15 UJ	UG/M3	X2
TO17/NONE	AI	5211-IA01-0415	N	1,1-Dichloroethene	0.50	0.50 UC	0.50 UJ	UG/M3	X2
TO17/NONE	AI	5211-IA01-0415	N	1,3,5-Trimethylbenzene	0.18	0.11 CJ	0.11 J	UG/M3	TR/X2
TO17/NONE	AI	5211-IA01-0415	N	cis-1,2-Dichloroethylene	0.15	0.15 UC	0.15 UJ	UG/M3	X2
TO17/NONE	AI	5211-IA01-0415	N	trans-1,2-Dichloroethene	0.32	0.32 UC	0.32 UJ	UG/M3	X2
TO17/NONE	AI	5211-IA01-0415	N	Trichloroethene (TCE)	0.14	0.054 J	0.054 J	UG/M3	TR
TO17/NONE	AI	5211-IA01-0415	N	Vinyl Chloride	0.42	0.42 UC	0.42 UJ	UG/M3	X2
TO17/NONE	AI	5215-CS01-0415	N	1,1,2-Trichloroethane	0.14	0.14 UC	0.14 UJ	UG/M3	X2
TO17/NONE	AI	5215-CS01-0415	N	1,1-Dichloroethane	0.15	0.15 UC	0.15 UJ	UG/M3	X2
TO17/NONE	AI	5215-CS01-0415	N	1,1-Dichloroethene	0.50	0.50 UC	0.50 UJ	UG/M3	X2
TO17/NONE	AI	5215-CS01-0415	N	1,2-Dichloroethane	0.12	0.051 J	0.051 J	UG/M3	TR
TO17/NONE	AI	5215-CS01-0415	N	1,3,5-Trimethylbenzene	0.18	0.099 CJ	0.099 J	UG/M3	TR/X2
TO17/NONE	AI	5215-CS01-0415	N	cis-1,2-Dichloroethylene	0.15	0.15 UC	0.15 UJ	UG/M3	X2
TO17/NONE	AI	5215-CS01-0415	N	Tetrachloroethene (PCE)	0.16	0.089 J	0.089 J	UG/M3	TR
TO17/NONE	AI	5215-CS01-0415	N	trans-1,2-Dichloroethene	0.32	0.32 UC	0.32 UJ	UG/M3	X2
TO17/NONE	AI	5215-CS01-0415	N	Vinyl Chloride	0.42	0.42 UC	0.42 UJ	UG/M3	X2
TO17/NONE	AI	5227-IA02-0415	N	1,1,2-Trichloroethane	0.14	0.14 UC	0.14 UJ	UG/M3	X2

AUTOMATED DATA REVIEW SUMMARY for 1504309R2

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO17/NONE	AI	5227-IA02-0415	N	1,1-Dichloroethane	0.15	0.15 UC	0.15 UJ	UG/M3	X2
TO17/NONE	AI	5227-IA02-0415	N	1,1-Dichloroethene	0.50	0.50 UC	0.50 UJ	UG/M3	X2
TO17/NONE	AI	5227-IA02-0415	N	1,2-Dichloroethane	0.12	0.11 J	0.11 J	UG/M3	TR
TO17/NONE	AI	5227-IA02-0415	N	1,3,5-Trimethylbenzene	0.18	0.11 CJ	0.11 J	UG/M3	TR/X2
TO17/NONE	AI	5227-IA02-0415	N	cis-1,2-Dichloroethylene	0.15	0.15 UC	0.15 UJ	UG/M3	X2
TO17/NONE	AI	5227-IA02-0415	N	Tetrachloroethene (PCE)	0.16	0.12 J	0.12 J	UG/M3	TR
TO17/NONE	AI	5227-IA02-0415	N	trans-1,2-Dichloroethene	0.32	0.32 UC	0.32 UJ	UG/M3	X2
TO17/NONE	AI	5227-IA02-0415	N	Vinyl Chloride	0.43	0.43 UC	0.43 UJ	UG/M3	X2
TO17/NONE	AI	5230-FB01-0415	FD	1,1,2-Trichloroethane	0.14	0.14 UC	0.14 UJ	UG/M3	X2
TO17/NONE	AI	5230-FB01-0415	FD	1,1-Dichloroethane	0.15	0.15 UC	0.15 UJ	UG/M3	X2
TO17/NONE	AI	5230-FB01-0415	FD	1,1-Dichloroethene	0.50	0.50 UC	0.50 UJ	UG/M3	X2
TO17/NONE	AI	5230-FB01-0415	FD	1,2-Dichloroethane	0.12	0.053 J	0.053 J	UG/M3	TR
TO17/NONE	AI	5230-FB01-0415	FD	1,3,5-Trimethylbenzene	0.18	0.11 CJ	0.11 J	UG/M3	TR/X2
TO17/NONE	AI	5230-FB01-0415	FD	cis-1,2-Dichloroethylene	0.15	0.15 UC	0.15 UJ	UG/M3	X2
TO17/NONE	AI	5230-FB01-0415	FD	Tetrachloroethene (PCE)	0.16	0.086 J	0.086 J	UG/M3	TR
TO17/NONE	AI	5230-FB01-0415	FD	trans-1,2-Dichloroethene	0.32	0.32 UC	0.32 UJ	UG/M3	X2
TO17/NONE	AI	5230-FB01-0415	FD	Vinyl Chloride	0.43	0.43 UC	0.43 UJ	UG/M3	X2
TO17/NONE	AI	5230-IA01-0415	N	1,1,2-Trichloroethane	0.14	0.14 UC	0.14 UJ	UG/M3	X2
TO17/NONE	AI	5230-IA01-0415	N	1,1-Dichloroethane	0.15	0.15 UC	0.15 UJ	UG/M3	X2
TO17/NONE	AI	5230-IA01-0415	N	1,1-Dichloroethene	0.50	0.50 UC	0.50 UJ	UG/M3	X2
TO17/NONE	AI	5230-IA01-0415	N	1,2-Dichloroethane	0.12	0.090 J	0.090 J	UG/M3	TR
TO17/NONE	AI	5230-IA01-0415	N	1,3,5-Trimethylbenzene	0.18	0.14 CJ	0.14 J	UG/M3	TR/X2
TO17/NONE	AI	5230-IA01-0415	N	cis-1,2-Dichloroethylene	0.15	0.15 UC	0.15 UJ	UG/M3	X2
TO17/NONE	AI	5230-IA01-0415	N	Tetrachloroethene (PCE)	0.16	0.14 J	0.14 J	UG/M3	TR
TO17/NONE	AI	5230-IA01-0415	N	trans-1,2-Dichloroethene	0.32	0.32 UC	0.32 UJ	UG/M3	X2
TO17/NONE	AI	5230-IA01-0415	N	Trichloroethene (TCE)	0.14	0.052 J	0.052 J	UG/M3	TR
TO17/NONE	AI	5230-IA01-0415	N	Vinyl Chloride	0.43	0.43 UC	0.43 UJ	UG/M3	X2

AUTOMATED DATA REVIEW SUMMARY for 1504309R2

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO17/NONE	AI	5230-OA01-0415	N	1,1,2-Trichloroethane	0.14	0.14 UC	0.14 UJ	UG/M3	X2
TO17/NONE	AI	5230-OA01-0415	N	1,1-Dichloroethane	0.15	0.15 UC	0.15 UJ	UG/M3	X2
TO17/NONE	AI	5230-OA01-0415	N	1,1-Dichloroethene	0.50	0.50 UC	0.50 UJ	UG/M3	X2
TO17/NONE	AI	5230-OA01-0415	N	1,2-Dichloroethane	0.12	0.059 J	0.059 J	UG/M3	TR
TO17/NONE	AI	5230-OA01-0415	N	1,3,5-Trimethylbenzene	0.18	0.11 CJ	0.11 J	UG/M3	TR/X2
TO17/NONE	AI	5230-OA01-0415	N	cis-1,2-Dichloroethylene	0.15	0.15 UC	0.15 UJ	UG/M3	X2
TO17/NONE	AI	5230-OA01-0415	N	Tetrachloroethene (PCE)	0.16	0.086 J	0.086 J	UG/M3	TR
TO17/NONE	AI	5230-OA01-0415	N	trans-1,2-Dichloroethene	0.32	0.32 UC	0.32 UJ	UG/M3	X2
TO17/NONE	AI	5230-OA01-0415	N	Vinyl Chloride	0.43	0.43 UC	0.43 UJ	UG/M3	X2
TO17/NONE	AI	5234-CS01-0415	N	1,1,2-Trichloroethane	0.14	0.14 UC	0.14 UJ	UG/M3	X2
TO17/NONE	AI	5234-CS01-0415	N	1,1-Dichloroethane	0.15	0.15 UC	0.15 UJ	UG/M3	X2
TO17/NONE	AI	5234-CS01-0415	N	1,1-Dichloroethene	0.50	0.50 UC	0.50 UJ	UG/M3	X2
TO17/NONE	AI	5234-CS01-0415	N	1,2-Dichloroethane	0.12	0.051 J	0.051 J	UG/M3	TR
TO17/NONE	AI	5234-CS01-0415	N	1,3,5-Trimethylbenzene	0.18	0.11 CJ	0.11 J	UG/M3	TR/X2
TO17/NONE	AI	5234-CS01-0415	N	cis-1,2-Dichloroethylene	0.15	0.15 UC	0.15 UJ	UG/M3	X2
TO17/NONE	AI	5234-CS01-0415	N	Tetrachloroethene (PCE)	0.16	0.11 J	0.11 J	UG/M3	TR
TO17/NONE	AI	5234-CS01-0415	N	trans-1,2-Dichloroethene	0.32	0.32 UC	0.32 UJ	UG/M3	X2
TO17/NONE	AI	5234-CS01-0415	N	Trichloroethene (TCE)	0.14	0.050 J	0.050 J	UG/M3	TR
TO17/NONE	AI	5234-CS01-0415	N	Vinyl Chloride	0.43	0.43 UC	0.43 UJ	UG/M3	X2
TO17/NONE	AI	5234-IA01-0415	N	1,1,2-Trichloroethane	0.14	0.14 UC	0.14 UJ	UG/M3	X2
TO17/NONE	AI	5234-IA01-0415	N	1,1-Dichloroethane	0.15	0.15 UC	0.15 UJ	UG/M3	X2
TO17/NONE	AI	5234-IA01-0415	N	1,1-Dichloroethene	0.50	0.50 UC	0.50 UJ	UG/M3	X2
TO17/NONE	AI	5234-IA01-0415	N	1,2-Dichloroethane	0.12	0.077 J	0.077 J	UG/M3	TR
TO17/NONE	AI	5234-IA01-0415	N	1,3,5-Trimethylbenzene	0.18	0.10 CJ	0.10 J	UG/M3	TR/X2
TO17/NONE	AI	5234-IA01-0415	N	cis-1,2-Dichloroethylene	0.15	0.15 UC	0.15 UJ	UG/M3	X2
TO17/NONE	AI	5234-IA01-0415	N	Tetrachloroethene (PCE)	0.16	0.094 J	0.094 J	UG/M3	TR
TO17/NONE	AI	5234-IA01-0415	N	trans-1,2-Dichloroethene	0.32	0.32 UC	0.32 UJ	UG/M3	X2

AUTOMATED DATA REVIEW SUMMARY for 1504309R2

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO17/NONE	AI	5234-IA01-0415	N	Trichloroethene (TCE)	0.14	0.050 J	0.050 J	UG/M3	TR
TO17/NONE	AI	5234-IA01-0415	N	Vinyl Chloride	0.43	0.43 UC	0.43 UJ	UG/M3	X2

AUTOMATED DATA REVIEW SUMMARY for 1504309R2

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO17/NONE	AI	5211-CS01-0415	N	Benzene	0.48	0.86	0.86	UG/M3	
TO17/NONE	AI	5211-CS01-0415	N	Toluene	0.13	2.0	2.0	UG/M3	
TO17/NONE	AI	5211-CS01-0415	N	1,2-Dichloroethane	0.12	0.054 J	0.054 J	UG/M3	TR
TO17/NONE	AI	5211-CS01-0415	N	Ethylbenzene	0.14	0.34	0.34	UG/M3	
TO17/NONE	AI	5211-CS01-0415	N	Tetrachloroethene (PCE)	0.16	0.11 J	0.11 J	UG/M3	TR
TO17/NONE	AI	5211-CS01-0415	N	1,2,4-Trimethylbenzene	0.19	0.47	0.47	UG/M3	
TO17/NONE	AI	5211-CS01-0415	N	1,3,5-Trimethylbenzene	0.18	0.13 CJ	0.13 J	UG/M3	TR/X2
TO17/NONE	AI	5211-CS01-0415	N	m,p-Xylene	0.14	1.1	1.1	UG/M3	
TO17/NONE	AI	5211-CS01-0415	N	o-Xylene	0.15	0.37	0.37	UG/M3	
TO17/NONE	AI	5211-IA01-0415	N	Benzene	0.48	0.63	0.63	UG/M3	
TO17/NONE	AI	5211-IA01-0415	N	Toluene	0.13	3.3	3.3	UG/M3	
TO17/NONE	AI	5211-IA01-0415	N	1,2-Dichloroethane	0.12	0.19	0.19	UG/M3	
TO17/NONE	AI	5211-IA01-0415	N	Ethylbenzene	0.14	0.34	0.34	UG/M3	
TO17/NONE	AI	5211-IA01-0415	N	Tetrachloroethene (PCE)	0.16	1.4	1.4	UG/M3	
TO17/NONE	AI	5211-IA01-0415	N	Trichloroethene (TCE)	0.14	0.054 J	0.054 J	UG/M3	TR
TO17/NONE	AI	5211-IA01-0415	N	1,2,4-Trimethylbenzene	0.19	0.40	0.40	UG/M3	
TO17/NONE	AI	5211-IA01-0415	N	1,3,5-Trimethylbenzene	0.18	0.11 CJ	0.11 J	UG/M3	TR/X2
TO17/NONE	AI	5211-IA01-0415	N	m,p-Xylene	0.14	1.0	1.0	UG/M3	
TO17/NONE	AI	5211-IA01-0415	N	o-Xylene	0.15	0.35	0.35	UG/M3	
TO17/NONE	AI	5215-CS01-0415	N	Benzene	0.48	0.71	0.71	UG/M3	
TO17/NONE	AI	5215-CS01-0415	N	Toluene	0.13	1.8	1.8	UG/M3	
TO17/NONE	AI	5215-CS01-0415	N	1,2-Dichloroethane	0.12	0.051 J	0.051 J	UG/M3	TR
TO17/NONE	AI	5215-CS01-0415	N	Ethylbenzene	0.14	0.30	0.30	UG/M3	
TO17/NONE	AI	5215-CS01-0415	N	Tetrachloroethene (PCE)	0.16	0.089 J	0.089 J	UG/M3	TR
TO17/NONE	AI	5215-CS01-0415	N	1,2,4-Trimethylbenzene	0.19	0.36	0.36	UG/M3	
TO17/NONE	AI	5215-CS01-0415	N	1,3,5-Trimethylbenzene	0.18	0.099 CJ	0.099 J	UG/M3	TR/X2
TO17/NONE	AI	5215-CS01-0415	N	m,p-Xylene	0.14	0.96	0.96	UG/M3	

AUTOMATED DATA REVIEW SUMMARY for 1504309R2

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO17/NONE	AI	5215-CS01-0415	N	o-Xylene	0.15	0.32	0.32	UG/M3	
TO17/NONE	AI	5227-IA02-0415	N	Benzene	0.48	0.61	0.61	UG/M3	
TO17/NONE	AI	5227-IA02-0415	N	Toluene	0.13	1.8	1.8	UG/M3	
TO17/NONE	AI	5227-IA02-0415	N	1,2-Dichloroethane	0.12	0.11 J	0.11 J	UG/M3	TR
TO17/NONE	AI	5227-IA02-0415	N	Ethylbenzene	0.14	0.44	0.44	UG/M3	
TO17/NONE	AI	5227-IA02-0415	N	Tetrachloroethene (PCE)	0.16	0.12 J	0.12 J	UG/M3	TR
TO17/NONE	AI	5227-IA02-0415	N	1,2,4-Trimethylbenzene	0.19	0.40	0.40	UG/M3	
TO17/NONE	AI	5227-IA02-0415	N	1,3,5-Trimethylbenzene	0.18	0.11 CJ	0.11 J	UG/M3	TR/X2
TO17/NONE	AI	5227-IA02-0415	N	m,p-Xylene	0.14	1.0	1.0	UG/M3	
TO17/NONE	AI	5227-IA02-0415	N	o-Xylene	0.15	0.36	0.36	UG/M3	
TO17/NONE	AI	5230-FB01-0415	FD	Benzene	0.48	0.75	0.75	UG/M3	
TO17/NONE	AI	5230-FB01-0415	FD	Toluene	0.13	1.8	1.8	UG/M3	
TO17/NONE	AI	5230-FB01-0415	FD	1,2-Dichloroethane	0.12	0.053 J	0.053 J	UG/M3	TR
TO17/NONE	AI	5230-FB01-0415	FD	Ethylbenzene	0.14	0.30	0.30	UG/M3	
TO17/NONE	AI	5230-FB01-0415	FD	Tetrachloroethene (PCE)	0.16	0.086 J	0.086 J	UG/M3	TR
TO17/NONE	AI	5230-FB01-0415	FD	1,2,4-Trimethylbenzene	0.19	0.41	0.41	UG/M3	
TO17/NONE	AI	5230-FB01-0415	FD	1,3,5-Trimethylbenzene	0.18	0.11 CJ	0.11 J	UG/M3	TR/X2
TO17/NONE	AI	5230-FB01-0415	FD	m,p-Xylene	0.14	0.99	0.99	UG/M3	
TO17/NONE	AI	5230-FB01-0415	FD	o-Xylene	0.15	0.33	0.33	UG/M3	
TO17/NONE	AI	5230-IA01-0415	N	Benzene	0.48	0.76	0.76	UG/M3	
TO17/NONE	AI	5230-IA01-0415	N	Toluene	0.13	2.6	2.6	UG/M3	
TO17/NONE	AI	5230-IA01-0415	N	1,2-Dichloroethane	0.12	0.090 J	0.090 J	UG/M3	TR
TO17/NONE	AI	5230-IA01-0415	N	Ethylbenzene	0.14	0.67	0.67	UG/M3	
TO17/NONE	AI	5230-IA01-0415	N	Tetrachloroethene (PCE)	0.16	0.14 J	0.14 J	UG/M3	TR
TO17/NONE	AI	5230-IA01-0415	N	Trichloroethene (TCE)	0.14	0.052 J	0.052 J	UG/M3	TR
TO17/NONE	AI	5230-IA01-0415	N	1,2,4-Trimethylbenzene	0.19	0.51	0.51	UG/M3	
TO17/NONE	AI	5230-IA01-0415	N	1,3,5-Trimethylbenzene	0.18	0.14 CJ	0.14 J	UG/M3	TR/X2

AUTOMATED DATA REVIEW SUMMARY for 1504309R2

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO17/NONE	AI	5230-IA01-0415	N	m,p-Xylene	0.14	2.2	2.2	UG/M3	
TO17/NONE	AI	5230-IA01-0415	N	o-Xylene	0.15	0.60	0.60	UG/M3	
TO17/NONE	AI	5230-OA01-0415	N	Benzene	0.48	0.66	0.66	UG/M3	
TO17/NONE	AI	5230-OA01-0415	N	Toluene	0.13	1.7	1.7	UG/M3	
TO17/NONE	AI	5230-OA01-0415	N	1,2-Dichloroethane	0.12	0.059 J	0.059 J	UG/M3	TR
TO17/NONE	AI	5230-OA01-0415	N	Ethylbenzene	0.14	0.29	0.29	UG/M3	
TO17/NONE	AI	5230-OA01-0415	N	Tetrachloroethene (PCE)	0.16	0.086 J	0.086 J	UG/M3	TR
TO17/NONE	AI	5230-OA01-0415	N	1,2,4-Trimethylbenzene	0.19	0.39	0.39	UG/M3	
TO17/NONE	AI	5230-OA01-0415	N	1,3,5-Trimethylbenzene	0.18	0.11 CJ	0.11 J	UG/M3	TR/X2
TO17/NONE	AI	5230-OA01-0415	N	m,p-Xylene	0.14	0.96	0.96	UG/M3	
TO17/NONE	AI	5230-OA01-0415	N	o-Xylene	0.15	0.32	0.32	UG/M3	
TO17/NONE	AI	5234-CS01-0415	N	Benzene	0.48	0.69	0.69	UG/M3	
TO17/NONE	AI	5234-CS01-0415	N	Toluene	0.13	1.7	1.7	UG/M3	
TO17/NONE	AI	5234-CS01-0415	N	1,2-Dichloroethane	0.12	0.051 J	0.051 J	UG/M3	TR
TO17/NONE	AI	5234-CS01-0415	N	Ethylbenzene	0.14	0.29	0.29	UG/M3	
TO17/NONE	AI	5234-CS01-0415	N	Tetrachloroethene (PCE)	0.16	0.11 J	0.11 J	UG/M3	TR
TO17/NONE	AI	5234-CS01-0415	N	Trichloroethene (TCE)	0.14	0.050 J	0.050 J	UG/M3	TR
TO17/NONE	AI	5234-CS01-0415	N	1,2,4-Trimethylbenzene	0.19	0.38	0.38	UG/M3	
TO17/NONE	AI	5234-CS01-0415	N	1,3,5-Trimethylbenzene	0.18	0.11 CJ	0.11 J	UG/M3	TR/X2
TO17/NONE	AI	5234-CS01-0415	N	m,p-Xylene	0.14	0.96	0.96	UG/M3	
TO17/NONE	AI	5234-CS01-0415	N	o-Xylene	0.15	0.33	0.33	UG/M3	
TO17/NONE	AI	5234-IA01-0415	N	Benzene	0.48	0.75	0.75	UG/M3	
TO17/NONE	AI	5234-IA01-0415	N	Toluene	0.13	2.0	2.0	UG/M3	
TO17/NONE	AI	5234-IA01-0415	N	1,2-Dichloroethane	0.12	0.077 J	0.077 J	UG/M3	TR
TO17/NONE	AI	5234-IA01-0415	N	Ethylbenzene	0.14	0.30	0.30	UG/M3	
TO17/NONE	AI	5234-IA01-0415	N	Tetrachloroethene (PCE)	0.16	0.094 J	0.094 J	UG/M3	TR
TO17/NONE	AI	5234-IA01-0415	N	Trichloroethene (TCE)	0.14	0.050 J	0.050 J	UG/M3	TR

AUTOMATED DATA REVIEW SUMMARY for 1504309R2

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO17/NONE	AI	5234-IA01-0415	N	1,2,4-Trimethylbenzene	0.19	0.41	0.41	UG/M3	
TO17/NONE	AI	5234-IA01-0415	N	1,3,5-Trimethylbenzene	0.18	0.10 CJ	0.10 J	UG/M3	TR/X2
TO17/NONE	AI	5234-IA01-0415	N	m,p-Xylene	0.14	1.0	1.0	UG/M3	
TO17/NONE	AI	5234-IA01-0415	N	o-Xylene	0.15	0.36	0.36	UG/M3	

AUTOMATED DATA REVIEW SUMMARY for 1504309R2

Rejected Results

--No Records Found--

QC Manual Outlier Review Report

Test	QC Element	Sample	Batch#	Analyte(s)	Result (Units)	Qualifier	Criteria	Reason	Comment
TO-17	uptake rate	All field samples	C042302	1,1,2-Trichloroethane	nonvalidated uptake rate	J / UJ	validated uptake rate	X2	see Narrative Comments
TO-17	uptake rate	All field samples	C042302	1,1-Dichloroethane	nonvalidated uptake rate	J / UJ	validated uptake rate	X2	see Narrative Comments
TO-17	uptake rate	All field samples	C042302	1,1-Dichloroethene	nonvalidated uptake rate	J / UJ	validated uptake rate	X2	see Narrative Comments
TO-17	uptake rate	All field samples	C042302	1,3,5-Trimethylbenzene	nonvalidated uptake rate	J / UJ	validated uptake rate	X2	see Narrative Comments
TO-17	uptake rate	All field samples	C042302	cis-1,2-Dichloroethylene	nonvalidated uptake rate	J / UJ	validated uptake rate	X2	see Narrative Comments
TO-17	uptake rate	All field samples	C042302	trans-1,2-Dichloroethene	nonvalidated uptake rate	J / UJ	validated uptake rate	X2	see Narrative Comments
TO-17	uptake rate	All field samples	C042302	Vinyl Chloride	nonvalidated uptake rate	J / UJ	validated uptake rate	X2	see Narrative Comments

Qualified Results Table

Lab Sample ID	Sample ID	Sample Collection Date	Type	Method	Parameter	Original Value	Qualifier	New Value	Bias	MDL	RL	Units	Reason
1504309R2-06A	5211-CS01-0415	4/17/2015	AI-N	TO17	1,1-Dichloroethane	ND	UJ	ND UJ		0.066	0.15	UG/M3	X2
1504309R2-06A	5211-CS01-0415	4/17/2015	AI-N	TO17	1,2-Dichloroethane	0.054	J	0.054 J		0.029	0.12	UG/M3	TR
1504309R2-06A	5211-CS01-0415	4/17/2015	AI-N	TO17	1,1-Dichloroethene	ND	UJ	ND UJ		0.068	0.50	UG/M3	X2
1504309R2-06A	5211-CS01-0415	4/17/2015	AI-N	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ		0.065	0.15	UG/M3	X2
1504309R2-06A	5211-CS01-0415	4/17/2015	AI-N	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ		0.16	0.32	UG/M3	X2
1504309R2-06A	5211-CS01-0415	4/17/2015	AI-N	TO17	Tetrachloroethene (PCE)	0.11	J	0.11 J		0.032	0.16	UG/M3	TR
1504309R2-06A	5211-CS01-0415	4/17/2015	AI-N	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ		0.036	0.14	UG/M3	X2
1504309R2-06A	5211-CS01-0415	4/17/2015	AI-N	TO17	1,3,5-Trimethylbenzene	0.13	J	0.13 J		0.046	0.18	UG/M3	TR/X2
1504309R2-06A	5211-CS01-0415	4/17/2015	AI-N	TO17	Vinyl Chloride	ND	UJ	ND UJ		0.096	0.42	UG/M3	X2
1504309R2-05A	5211-IA01-0415	4/17/2015	AI-N	TO17	1,1-Dichloroethane	ND	UJ	ND UJ		0.066	0.15	UG/M3	X2
1504309R2-05A	5211-IA01-0415	4/17/2015	AI-N	TO17	1,1-Dichloroethene	ND	UJ	ND UJ		0.068	0.50	UG/M3	X2
1504309R2-05A	5211-IA01-0415	4/17/2015	AI-N	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ		0.065	0.15	UG/M3	X2
1504309R2-05A	5211-IA01-0415	4/17/2015	AI-N	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ		0.16	0.32	UG/M3	X2
1504309R2-05A	5211-IA01-0415	4/17/2015	AI-N	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ		0.036	0.14	UG/M3	X2
1504309R2-05A	5211-IA01-0415	4/17/2015	AI-N	TO17	Trichloroethene (TCE)	0.054	J	0.054 J		0.038	0.14	UG/M3	TR
1504309R2-05A	5211-IA01-0415	4/17/2015	AI-N	TO17	1,3,5-Trimethylbenzene	0.11	J	0.11 J		0.046	0.18	UG/M3	TR/X2
1504309R2-05A	5211-IA01-0415	4/17/2015	AI-N	TO17	Vinyl Chloride	ND	UJ	ND UJ		0.096	0.42	UG/M3	X2
1504309R2-09A	5215-CS01-0415	4/17/2015	AI-N	TO17	1,1-Dichloroethane	ND	UJ	ND UJ		0.066	0.15	UG/M3	X2
1504309R2-09A	5215-CS01-0415	4/17/2015	AI-N	TO17	1,2-Dichloroethane	0.051	J	0.051 J		0.028	0.12	UG/M3	TR
1504309R2-09A	5215-CS01-0415	4/17/2015	AI-N	TO17	1,1-Dichloroethene	ND	UJ	ND UJ		0.068	0.50	UG/M3	X2
1504309R2-09A	5215-CS01-0415	4/17/2015	AI-N	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ		0.065	0.15	UG/M3	X2
1504309R2-09A	5215-CS01-0415	4/17/2015	AI-N	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ		0.16	0.32	UG/M3	X2
1504309R2-09A	5215-CS01-0415	4/17/2015	AI-N	TO17	Tetrachloroethene (PCE)	0.089	J	0.089 J		0.032	0.16	UG/M3	TR
1504309R2-09A	5215-CS01-0415	4/17/2015	AI-N	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ		0.036	0.14	UG/M3	X2
1504309R2-09A	5215-CS01-0415	4/17/2015	AI-N	TO17	1,3,5-Trimethylbenzene	0.099	J	0.099 J		0.045	0.18	UG/M3	TR/X2
1504309R2-09A	5215-CS01-0415	4/17/2015	AI-N	TO17	Vinyl Chloride	ND	UJ	ND UJ		0.095	0.42	UG/M3	X2
1504309R2-01A	5227-IA02-0415	4/16/2015	AI-N	TO17	1,1-Dichloroethane	ND	UJ	ND UJ		0.066	0.15	UG/M3	X2
1504309R2-01A	5227-IA02-0415	4/16/2015	AI-N	TO17	1,2-Dichloroethane	0.11	J	0.11 J		0.029	0.12	UG/M3	TR
1504309R2-01A	5227-IA02-0415	4/16/2015	AI-N	TO17	1,1-Dichloroethene	ND	UJ	ND UJ		0.068	0.50	UG/M3	X2
1504309R2-01A	5227-IA02-0415	4/16/2015	AI-N	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ		0.066	0.15	UG/M3	X2
1504309R2-01A	5227-IA02-0415	4/16/2015	AI-N	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ		0.16	0.32	UG/M3	X2
1504309R2-01A	5227-IA02-0415	4/16/2015	AI-N	TO17	Tetrachloroethene (PCE)	0.12	J	0.12 J		0.032	0.16	UG/M3	TR
1504309R2-01A	5227-IA02-0415	4/16/2015	AI-N	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ		0.036	0.14	UG/M3	X2
1504309R2-01A	5227-IA02-0415	4/16/2015	AI-N	TO17	1,3,5-Trimethylbenzene	0.11	J	0.11 J		0.046	0.18	UG/M3	TR/X2
1504309R2-01A	5227-IA02-0415	4/16/2015	AI-N	TO17	Vinyl Chloride	ND	UJ	ND UJ		0.096	0.43	UG/M3	X2
1504309R2-04A	5230-FB01-0415	4/16/2015	AI-FD	TO17	1,1-Dichloroethane	ND	UJ	ND UJ		0.066	0.15	UG/M3	X2

Qualified Results Table

Lab Sample ID	Sample ID	Sample Collection Date	Type	Method	Parameter	Original Value	Qualifier	New Value	Bias	MDL	RL	Units	Reason
1504309R2-04A	5230-FB01-0415	4/16/2015	AI-FD	TO17	1,2-Dichloroethane	0.053	J	0.053 J		0.029	0.12	UG/M3	TR
1504309R2-04A	5230-FB01-0415	4/16/2015	AI-FD	TO17	1,1-Dichloroethene	ND	UJ	ND UJ		0.068	0.50	UG/M3	X2
1504309R2-04A	5230-FB01-0415	4/16/2015	AI-FD	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ		0.066	0.15	UG/M3	X2
1504309R2-04A	5230-FB01-0415	4/16/2015	AI-FD	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ		0.16	0.32	UG/M3	X2
1504309R2-04A	5230-FB01-0415	4/16/2015	AI-FD	TO17	Tetrachloroethene (PCE)	0.086	J	0.086 J		0.032	0.16	UG/M3	TR
1504309R2-04A	5230-FB01-0415	4/16/2015	AI-FD	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ		0.036	0.14	UG/M3	X2
1504309R2-04A	5230-FB01-0415	4/16/2015	AI-FD	TO17	1,3,5-Trimethylbenzene	0.11	J	0.11 J		0.046	0.18	UG/M3	TR/X2
1504309R2-04A	5230-FB01-0415	4/16/2015	AI-FD	TO17	Vinyl Chloride	ND	UJ	ND UJ		0.096	0.43	UG/M3	X2
1504309R2-02A	5230-IA01-0415	4/16/2015	AI-N	TO17	1,1-Dichloroethane	ND	UJ	ND UJ		0.066	0.15	UG/M3	X2
1504309R2-02A	5230-IA01-0415	4/16/2015	AI-N	TO17	1,2-Dichloroethane	0.090	J	0.090 J		0.029	0.12	UG/M3	TR
1504309R2-02A	5230-IA01-0415	4/16/2015	AI-N	TO17	1,1-Dichloroethene	ND	UJ	ND UJ		0.068	0.50	UG/M3	X2
1504309R2-02A	5230-IA01-0415	4/16/2015	AI-N	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ		0.065	0.15	UG/M3	X2
1504309R2-02A	5230-IA01-0415	4/16/2015	AI-N	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ		0.16	0.32	UG/M3	X2
1504309R2-02A	5230-IA01-0415	4/16/2015	AI-N	TO17	Tetrachloroethene (PCE)	0.14	J	0.14 J		0.032	0.16	UG/M3	TR
1504309R2-02A	5230-IA01-0415	4/16/2015	AI-N	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ		0.036	0.14	UG/M3	X2
1504309R2-02A	5230-IA01-0415	4/16/2015	AI-N	TO17	Trichloroethene (TCE)	0.052	J	0.052 J		0.038	0.14	UG/M3	TR
1504309R2-02A	5230-IA01-0415	4/16/2015	AI-N	TO17	1,3,5-Trimethylbenzene	0.14	J	0.14 J		0.046	0.18	UG/M3	TR/X2
1504309R2-02A	5230-IA01-0415	4/16/2015	AI-N	TO17	Vinyl Chloride	ND	UJ	ND UJ		0.096	0.43	UG/M3	X2
1504309R2-03A	5230-OA01-0415	4/16/2015	AI-N	TO17	1,1-Dichloroethane	ND	UJ	ND UJ		0.066	0.15	UG/M3	X2
1504309R2-03A	5230-OA01-0415	4/16/2015	AI-N	TO17	1,2-Dichloroethane	0.059	J	0.059 J		0.029	0.12	UG/M3	TR
1504309R2-03A	5230-OA01-0415	4/16/2015	AI-N	TO17	1,1-Dichloroethene	ND	UJ	ND UJ		0.068	0.50	UG/M3	X2
1504309R2-03A	5230-OA01-0415	4/16/2015	AI-N	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ		0.066	0.15	UG/M3	X2
1504309R2-03A	5230-OA01-0415	4/16/2015	AI-N	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ		0.16	0.32	UG/M3	X2
1504309R2-03A	5230-OA01-0415	4/16/2015	AI-N	TO17	Tetrachloroethene (PCE)	0.086	J	0.086 J		0.032	0.16	UG/M3	TR
1504309R2-03A	5230-OA01-0415	4/16/2015	AI-N	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ		0.036	0.14	UG/M3	X2
1504309R2-03A	5230-OA01-0415	4/16/2015	AI-N	TO17	1,3,5-Trimethylbenzene	0.11	J	0.11 J		0.046	0.18	UG/M3	TR/X2
1504309R2-03A	5230-OA01-0415	4/16/2015	AI-N	TO17	Vinyl Chloride	ND	UJ	ND UJ		0.096	0.43	UG/M3	X2
1504309R2-08A	5234-CS01-0415	4/17/2015	AI-N	TO17	1,1-Dichloroethane	ND	UJ	ND UJ		0.066	0.15	UG/M3	X2
1504309R2-08A	5234-CS01-0415	4/17/2015	AI-N	TO17	1,2-Dichloroethane	0.051	J	0.051 J		0.029	0.12	UG/M3	TR
1504309R2-08A	5234-CS01-0415	4/17/2015	AI-N	TO17	1,1-Dichloroethene	ND	UJ	ND UJ		0.068	0.50	UG/M3	X2
1504309R2-08A	5234-CS01-0415	4/17/2015	AI-N	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ		0.065	0.15	UG/M3	X2
1504309R2-08A	5234-CS01-0415	4/17/2015	AI-N	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ		0.16	0.32	UG/M3	X2
1504309R2-08A	5234-CS01-0415	4/17/2015	AI-N	TO17	Tetrachloroethene (PCE)	0.11	J	0.11 J		0.032	0.16	UG/M3	TR
1504309R2-08A	5234-CS01-0415	4/17/2015	AI-N	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ		0.036	0.14	UG/M3	X2
1504309R2-08A	5234-CS01-0415	4/17/2015	AI-N	TO17	Trichloroethene (TCE)	0.050	J	0.050 J		0.038	0.14	UG/M3	TR
1504309R2-08A	5234-CS01-0415	4/17/2015	AI-N	TO17	1,3,5-Trimethylbenzene	0.11	J	0.11 J		0.046	0.18	UG/M3	TR/X2

Qualified Results Table

Lab Sample ID	Sample ID	Sample Collection Date	Type	Method	Parameter	Original Value	Qualifier	New Value	Bias	MDL	RL	Units	Reason
1504309R2-08A	5234-CS01-0415	4/17/2015	AI-N	TO17	Vinyl Chloride	ND	UJ	ND UJ		0.096	0.43	UG/M3	X2
1504309R2-07A	5234-IA01-0415	4/17/2015	AI-N	TO17	1,1-Dichloroethane	ND	UJ	ND UJ		0.066	0.15	UG/M3	X2
1504309R2-07A	5234-IA01-0415	4/17/2015	AI-N	TO17	1,2-Dichloroethane	0.077	J	0.077 J		0.029	0.12	UG/M3	TR
1504309R2-07A	5234-IA01-0415	4/17/2015	AI-N	TO17	1,1-Dichloroethene	ND	UJ	ND UJ		0.068	0.50	UG/M3	X2
1504309R2-07A	5234-IA01-0415	4/17/2015	AI-N	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ		0.065	0.15	UG/M3	X2
1504309R2-07A	5234-IA01-0415	4/17/2015	AI-N	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ		0.16	0.32	UG/M3	X2
1504309R2-07A	5234-IA01-0415	4/17/2015	AI-N	TO17	Tetrachloroethene (PCE)	0.094	J	0.094 J		0.032	0.16	UG/M3	TR
1504309R2-07A	5234-IA01-0415	4/17/2015	AI-N	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ		0.036	0.14	UG/M3	X2
1504309R2-07A	5234-IA01-0415	4/17/2015	AI-N	TO17	Trichloroethene (TCE)	0.050	J	0.050 J		0.038	0.14	UG/M3	TR
1504309R2-07A	5234-IA01-0415	4/17/2015	AI-N	TO17	1,3,5-Trimethylbenzene	0.10	J	0.10 J		0.046	0.18	UG/M3	TR/X2
1504309R2-07A	5234-IA01-0415	4/17/2015	AI-N	TO17	Vinyl Chloride	ND	UJ	ND UJ		0.096	0.43	UG/M3	X2

Matrix / Sample Type

Matrix	Matrix Description	Sample Code	Sample Code Description
AI	INDOOR AIR	FD	Field Duplicate
AI	INDOOR AIR	N	Normal Environmental Sample

Data Qualifier Definitions

Flag	Description
J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

Reason and Comment Code Definitions

Code	Description
TR	Trace Level Detect
X2	Qualified due to professional judgment (unvalidated uptake rate). See Narrative Comments in ADR.

AUTOMATED DATA REVIEW SUMMARY for 1504459R1

Facility: Southern Avenue Industrial Area

Guidance Document: **Sampling and Analysis Plan (SAP), Vapor Intrusion Evaluation, Southern Avenue Industrial Area Superfund Site, South Gate, LA County CA 2015**

Contract Laboratory: Air Toxics, Ltd., Folsom, CA

Field Contractor:

Data Review Contractor:

SDG: 1504459R1, Certified - 7/16/2015 by kvagadori

QC Level: Tier 3

Project Manager: Don Gruber

Data Reviewer: Peggy Cota

Data Reviewer Title: Project Chemist

Date of Review Report: July 22, 2015

Second Reviewer: Tom Beer

Completion Date of Second Reviewer:

Samples Included in SDG 1504459R1

Analytical Method/ Leach Method	Normal Air Samples	Field QC Air Samples
TO17/NONE	5	0

AUTOMATED DATA REVIEW SUMMARY for 1504459R1

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the SAP to the extent possible. Where definitive guidance is not provided, data has been evaluated in a conservative manner using professional judgment. In cases where two qualifiers are listed as an action, such as 'J/UJ', the first qualifier applies to positive results, and the second to non-detect results.

Samples were collected by Gilbane; analyses were performed by Air Toxics, Ltd., Folsom, CA and were reported under sample delivery group (SDG) . Results have been evaluated electronically using electronic data deliverables (EDDs) provided by the laboratory. The laboratory data summary forms (hard copy) have been reviewed during this effort and compared to the automated review output. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative.

The following quality control elements were supported by the electronic deliverable and were evaluated during this review effort:

- Blank
- Blank - Negative
- LCS Recovery
- Prep Hold Time
- Surrogate
- Test Hold Time

The following quality control elements were either not applicable to the deliverable, or were not supported by the electronic deliverable, and were therefore not included in the automated data review. Those elements required for the project were reviewed manually, as narrated in the Comment section below.

- Ambient Blank
- Calibration Blank
- Calibration Blank - Negative
- Continuing Calibration Verification
- Equipment Blank
- Field Blank
- Field Duplicate RPD
- Initial Calibration Verification
- Lab Replicate RPD
- Material Blank
- MS Recovery
- MS RPD
- Negative Blank
- Trip Blank

AUTOMATED DATA REVIEW SUMMARY for 1504459R1

A minimum of ten percent of sample and QC results were manually evaluated for compliance with project specific requirements and consistency with hard copy results. The following summaries were generated during the evaluation of this data set and are included in this report as applicable.

Batch – The analytical batch report is reviewed for completeness and compliance with project specific requirements. Incomplete or non-compliant run sequences are identified and their impact on data quality are discussed in the narrative.

QC Outlier – Results exceeding the evaluation criteria are reviewed for compliance with project requirements and a minimum of ten percent of the non-compliant QC values reported electronically are verified for consistency with hard-copy values.

Qualified Results – Qualified results are evaluated for compliance with project requirements and ten percent of qualified results are verified for consistency with the QC Outliers.

Rejected Results – All rejected results are evaluated for compliance with project requirements. The reason for rejection of the data is verified against hard copy data.

Field Duplicates – Field duplicate comparison results are evaluated for compliance with project requirements and ten percent of values reported are verified for consistency with the hard-copy data.

Data Submission Warnings – Warnings encountered during the data submission process are evaluated and their affect on data quality is discussed in the narrative below.

Analytical deficiencies, project non-compliance issues and inconsistencies with hard copy results observed during ADR evaluation process and their impact on data quality are summarized in the narrative below.

A total of 40 results (44.44%) out of the 90 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected. The qualified results are detailed in the following tables and discussed in the narrative below, where appropriate.

Narrative Comments

Validated uptake rates were not available for VOCs 1,1,2-trichloroethane, 1,1-dichloroethane, 1,1-dichloroethene, 1,3,5-trimethylbenzene, cis-1,2-dichloroethylene, trans-1,2-dichloroethylene and vinyl chloride. The rates were estimated using the chemical's diffusion coefficient in air and the geometric constant of the sampler. The associated results in all samples have been qualified as “J” or “UJ” for an estimated value or reporting limit. See QC Manual Outlier Report in this ADR.

For Radiello samples collected over a seven-day period, the average temperature at the collection site should be documented and used to calculate the final VOC concentrations. For the samples associated with this SDG no temperatures were documented and the default temperature of 77˚F was used in the calculations. While collection temperatures have an effect on the final concentration, it was determined that the results would not significantly change if the average temperature was used to calculate the concentrations. No qualifiers were applied to the results.

The samples were received at the laboratory at a temperature of 8.2˚C.which is greater than the QAPP criteria of less than 6˚C. Since blue ice was present in the cooler and the Radiello Manual (Sigma-Aldrich, 2006 page D4) indicates that exposed VOC cartridges kept in a cool place maintain their contents unaltered for at least 6 months, no qualifiers were applied.

See next page for additional comment.

22-Jul-2015

Released by Peggy Cota, Project Chemist

AUTOMATED DATA REVIEW SUMMARY for 1504459R1

Released by Tom Beer

4-August, 2015

Addition to Narrative Comments

The method detection limit (MDL) for naphthalene did not meet the "Regional Screening Level for Residential Indoor Air" of 0.083 ug/m3 at 0.17 ug/m3 from Table 3 of the QAPP. The MDL did meet the "Reporting Limit of 7 Day Exposure (ug/m3)" of 0.3968 ug/m3 from Table 3 of the QAPP.

Reason and Comment Code Definitions

Comments	
Code	**Definition**
C1	
C2	
C2S	
C3	
C4	
C5	
C6	
C7	
C8	
C9	

Reasons	
Code	**Definition**
A	Serial dilution
A1	Ambient Blank
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
B2	Calibration Blank
B3	Calibration Blank - Negative
B4	Negative Blank
B5	The analyte was found in an associated blank as well as in the sample.
C10	Continuing Calibration Verification RRF
C11	Continuing Calibration Verification percent recovery, percent difference, or percent drift
C12	Low Level Continuing Calibration Verification was outside control limits
D1	Lab Replicate RPD
D2	MS RPD exceeded established criteria.
D4	No precision available

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
D5	Field Duplicate RPD
D6	RPD of laboratory control sample exceeded criteria
D7	Field Duplicate not usable
E	Exceeds LinearCalibration Range
F	Hydrocarbon pattern does not match standard
G	Initial Calibration RRF
G1	Initial Calibration RSD
G2	Initial Calibration Verification percent recovery, percent difference, or percent drift
G3	r2 values < 0.990 in the ICAL
G4	Ion abundance ratios are outside criteria - estimated maximum possible concentration (EMPC) reported
G5	Initial Calibration out for metals/inorganics
H1	Test Hold Time
H2	Prep Hold Time
I	Internal standard
J	CRA/CRI Recovery
K	An analyte (non-common laboratory artifact) was detected in the sample at a concentration less than 5X the concentration detected in the associated method blank.
K1	Detected in the associated equipment rinsate blank.
K2	Detected in the associated field (i.e., ambient) blank.
K3	Detected in the associated trip blank.
K4	Detected in the associated storage blank
K5	Detected in the associated source blank
L	Percent recovery of laboratory control sample recovery was outside established limits
L1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank. (Negative)
M	Matrix spike recovery was outside established criteria.
M1	Minimum matrix spike frequency was not attained
N	Blank - No Action

Reason and Comment Code Definitions

Reasons	
Code	**Definition**
O	Interference check sample
P	Sample preservation/collection requirement not met.
P1	Column or detector RPD
P2	Improper preparation/extraction
Q1	Material Blank
S	Surrogate recovery out of criteria (upper or lower limit)
S1	Sample less than 50% solids
T	Receipt Temperature
T2	RSD of lab triplicate out
TI	Tentatively Identified Compound
TR	Trace Level Detect
V	Sample Receipt Condition
W	Column breakdown (pesticides)
X	Raised reporting limit
X1	Unresolved Isomers; no peak separation
X2	Qualified due to professional judgment, see data validation narrative.
Y	Analyte not confirmed on second column
Y1	False Positive
Y2	Sum of species greater than total result
Z	Data rejected due to radiological anomolies
Z1	Data rejected, more valid data available

Flag Code and Definitions

Flag	Definition
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
R	The data are rejected due to deficiencies in meeting QC criteria and may not be used for decision making.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

AUTOMATED DATA REVIEW SUMMARY for 1504459R1

Batch Report

Test Method: TO17; Leach Method: NONE

Analytical Batch	Prep Batch	Leach Batch	Location	Matrix	Field Sample ID	Lab Sample ID	Calibration Ref	Run#/ Dil'n	Collection Date/Time	Extract Date/Time	Analysis Date/Time	Sample Type
10042701	10042701	NA	5215-IA01	AI	5215-IA01-0415	1504459R1-05A	10042709	1/1	24-Apr-2015 12:35 PM	27-Apr-2015 7:24 PM	27-Apr-2015 7:24 PM	N
	10042701	NA	5226-IA01	AI	5226-IA01-0415	1504459R1-01A	10042709	1/1	23-Apr-2015 11:03 AM	27-Apr-2015 5:49 PM	27-Apr-2015 5:49 PM	N
	10042701	NA	5226-IA02	AI	5226-IA02-0415	1504459R1-02A	10042709	1/1	23-Apr-2015 10:30 AM	27-Apr-2015 6:12 PM	27-Apr-2015 6:12 PM	N
	10042701	NA	5226-IA04	AI	5226-IA04-0415	1504459R1-04A	10042709	1/1	24-Apr-2015 12:15 PM	27-Apr-2015 7:00 PM	27-Apr-2015 7:00 PM	N
	10042701	NA	5227-OA01	AI	5227-OA01-0415	1504459R1-03A	10042709	1/1	24-Apr-2015 12:50 PM	27-Apr-2015 6:36 PM	27-Apr-2015 6:36 PM	N
	10042701	NA	LABQC	AQ	LABQC	1504459R1-07AA	10042709	1/1	27-Apr-2015 4:37 PM	27-Apr-2015 4:37 PM	27-Apr-2015 4:37 PM	BD
	10042701	NA	LABQC	AQ	LABQC	1504459R1-07A	10042709	1/1	27-Apr-2015 4:13 PM	27-Apr-2015 4:13 PM	27-Apr-2015 4:13 PM	BS
	10042701	NA	LABQC	AQ	LABQC	1504459R1-06A	10042709	1/1	27-Apr-2015 5:01 PM	27-Apr-2015 5:01 PM	27-Apr-2015 5:01 PM	LB

AUTOMATED DATA REVIEW SUMMARY for 1504459R1

Field Batch Report

--No Records Found--

AUTOMATED DATA REVIEW SUMMARY for 1504459R1

QC Outlier Report

Test/Prep	QC Element	Sample ID	Run# / Dil'n	Analyte	Result	Units	Qualifier	Warning Limits	Control Limits	Reason	Comment	Rule	Action Level
TO17 / METHOD	Blank	1504459R1-06A (LB)	1 / 1.00	Naphthalene	0.0150	UG/M3	U/None	< 0.0077	< 0.4	B1		1	0.0150
TO17 / METHOD	Blank	1504459R1-06A (LB)	1 / 1.00	Toluene	0.0230	UG/M3	U/None	< 0.017	< 0.13	B1		1	0.0230
TO17 / METHOD	LCS Recovery	1504459R1-07A (BS)	1 / 1.00	1,1-Dichloroethene	68.0	Percent	J/UJ	70 - 130	20 - 140	L			
TO17 / METHOD	LCS Recovery	1504459R1-07A (BS)	1 / 1.00	Vinyl Chloride	51.0	Percent	J/UJ	70 - 130	20 - 140	L	QAPP limits are 50-140% - no flags		
TO17 / METHOD	LCS Recovery	1504459R1-07AA (BD)	1 / 1.00	Vinyl Chloride	62.0	Percent	J/UJ	70 - 130	20 - 140	L	QAPP limits are 50-140% - no flags		

AUTOMATED DATA REVIEW SUMMARY for 1504459R1

Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO17/NONE	AI	5215-IA01-0415	N	1,1,2-Trichloroethane	0.15	0.15 UC	0.15 UJ	UG/M3	X2
TO17/NONE	AI	5215-IA01-0415	N	1,1-Dichloroethane	0.16	0.16 UC	0.16 UJ	UG/M3	X2
TO17/NONE	AI	5215-IA01-0415	N	1,1-Dichloroethene	0.52	0.52 UC	0.52 UJ	UG/M3	L/X2
TO17/NONE	AI	5215-IA01-0415	N	1,2-Dichloroethane	0.13	0.043 J	0.043 J	UG/M3	TR
TO17/NONE	AI	5215-IA01-0415	N	1,3,5-Trimethylbenzene	0.19	0.094 CJ	0.094 J	UG/M3	TR/X2
TO17/NONE	AI	5215-IA01-0415	N	cis-1,2-Dichloroethylene	0.16	0.16 UC	0.16 UJ	UG/M3	X2
TO17/NONE	AI	5215-IA01-0415	N	Naphthalene	0.40	0.033 J	0.40 U	UG/M3	B1
TO17/NONE	AI	5215-IA01-0415	N	Tetrachloroethene (PCE)	0.17	0.078 J	0.078 J	UG/M3	TR
TO17/NONE	AI	5215-IA01-0415	N	trans-1,2-Dichloroethene	0.33	0.33 UC	0.33 UJ	UG/M3	X2
TO17/NONE	AI	5215-IA01-0415	N	Trichloroethene (TCE)	0.14	0.018 J	0.018 J	UG/M3	TR
TO17/NONE	AI	5215-IA01-0415	N	Vinyl Chloride	0.44	0.44 UC	0.44 UJ	UG/M3	X2
TO17/NONE	AI	5226-IA01-0415	N	1,1,2-Trichloroethane	0.15	0.15 UC	0.15 UJ	UG/M3	X2
TO17/NONE	AI	5226-IA01-0415	N	1,1-Dichloroethane	0.16	0.16 UC	0.16 UJ	UG/M3	X2
TO17/NONE	AI	5226-IA01-0415	N	1,1-Dichloroethene	0.53	0.53 UC	0.53 UJ	UG/M3	L/X2
TO17/NONE	AI	5226-IA01-0415	N	1,2-Dichloroethane	0.13	0.099 J	0.099 J	UG/M3	TR
TO17/NONE	AI	5226-IA01-0415	N	1,3,5-Trimethylbenzene	0.19	0.16 CJ	0.16 J	UG/M3	TR/X2
TO17/NONE	AI	5226-IA01-0415	N	cis-1,2-Dichloroethylene	0.16	0.16 UC	0.16 UJ	UG/M3	X2
TO17/NONE	AI	5226-IA01-0415	N	Naphthalene	0.40	0.034 J	0.40 U	UG/M3	B1
TO17/NONE	AI	5226-IA01-0415	N	Tetrachloroethene (PCE)	0.17	0.084 J	0.084 J	UG/M3	TR
TO17/NONE	AI	5226-IA01-0415	N	trans-1,2-Dichloroethene	0.33	0.33 UC	0.33 UJ	UG/M3	X2
TO17/NONE	AI	5226-IA01-0415	N	Trichloroethene (TCE)	0.14	0.059 J	0.059 J	UG/M3	TR
TO17/NONE	AI	5226-IA01-0415	N	Vinyl Chloride	0.44	0.44 UC	0.44 UJ	UG/M3	X2
TO17/NONE	AI	5226-IA02-0415	N	1,1,2-Trichloroethane	0.15	0.15 UC	0.15 UJ	UG/M3	X2
TO17/NONE	AI	5226-IA02-0415	N	1,1-Dichloroethane	0.16	0.16 UC	0.16 UJ	UG/M3	X2
TO17/NONE	AI	5226-IA02-0415	N	1,1-Dichloroethene	0.52	0.52 UC	0.52 UJ	UG/M3	L/X2
TO17/NONE	AI	5226-IA02-0415	N	1,2-Dichloroethane	0.13	0.068 J	0.068 J	UG/M3	TR
TO17/NONE	AI	5226-IA02-0415	N	1,3,5-Trimethylbenzene	0.19	0.18 CJ	0.18 J	UG/M3	TR/X2

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Qualified Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO17/NONE	AI	5226-IA02-0415	N	cis-1,2-Dichloroethylene	0.16	0.16 UC	0.16 UJ	UG/M3	X2
TO17/NONE	AI	5226-IA02-0415	N	Naphthalene	0.40	0.055 J	0.40 U	UG/M3	B1
TO17/NONE	AI	5226-IA02-0415	N	Tetrachloroethene (PCE)	0.17	0.14 J	0.14 J	UG/M3	TR
TO17/NONE	AI	5226-IA02-0415	N	trans-1,2-Dichloroethene	0.33	0.33 UC	0.33 UJ	UG/M3	X2
TO17/NONE	AI	5226-IA02-0415	N	Trichloroethene (TCE)	0.14	0.070 J	0.070 J	UG/M3	TR
TO17/NONE	AI	5226-IA02-0415	N	Vinyl Chloride	0.44	0.44 UC	0.44 UJ	UG/M3	X2
TO17/NONE	AI	5226-IA04-0415	N	1,1,2-Trichloroethane	0.15	0.15 UC	0.15 UJ	UG/M3	X2
TO17/NONE	AI	5226-IA04-0415	N	1,1-Dichloroethane	0.16	0.16 UC	0.16 UJ	UG/M3	X2
TO17/NONE	AI	5226-IA04-0415	N	1,1-Dichloroethene	0.52	0.52 UC	0.52 UJ	UG/M3	L/X2
TO17/NONE	AI	5226-IA04-0415	N	1,3,5-Trimethylbenzene	0.19	0.13 CJ	0.13 J	UG/M3	TR/X2
TO17/NONE	AI	5226-IA04-0415	N	cis-1,2-Dichloroethylene	0.16	0.16 UC	0.16 UJ	UG/M3	X2
TO17/NONE	AI	5226-IA04-0415	N	Naphthalene	0.40	0.059 J	0.40 U	UG/M3	B1
TO17/NONE	AI	5226-IA04-0415	N	Tetrachloroethene (PCE)	0.17	0.093 J	0.093 J	UG/M3	TR
TO17/NONE	AI	5226-IA04-0415	N	trans-1,2-Dichloroethene	0.33	0.33 UC	0.33 UJ	UG/M3	X2
TO17/NONE	AI	5226-IA04-0415	N	Trichloroethene (TCE)	0.14	0.060 J	0.060 J	UG/M3	TR
TO17/NONE	AI	5226-IA04-0415	N	Vinyl Chloride	0.44	0.44 UC	0.44 UJ	UG/M3	X2
TO17/NONE	AI	5227-OA01-0415	N	1,1,2-Trichloroethane	0.15	0.15 UC	0.15 UJ	UG/M3	X2
TO17/NONE	AI	5227-OA01-0415	N	1,1-Dichloroethane	0.16	0.16 UC	0.16 UJ	UG/M3	X2
TO17/NONE	AI	5227-OA01-0415	N	1,1-Dichloroethene	0.54	0.54 UC	0.54 UJ	UG/M3	L/X2
TO17/NONE	AI	5227-OA01-0415	N	1,3,5-Trimethylbenzene	0.19	0.094 CJ	0.094 J	UG/M3	TR/X2
TO17/NONE	AI	5227-OA01-0415	N	Benzene	0.51	0.48 J	0.48 J	UG/M3	TR
TO17/NONE	AI	5227-OA01-0415	N	cis-1,2-Dichloroethylene	0.16	0.16 UC	0.16 UJ	UG/M3	X2
TO17/NONE	AI	5227-OA01-0415	N	Naphthalene	0.41	0.031 J	0.41 U	UG/M3	B1
TO17/NONE	AI	5227-OA01-0415	N	Tetrachloroethene (PCE)	0.17	0.080 J	0.080 J	UG/M3	TR
TO17/NONE	AI	5227-OA01-0415	N	trans-1,2-Dichloroethene	0.34	0.34 UC	0.34 UJ	UG/M3	X2
TO17/NONE	AI	5227-OA01-0415	N	Vinyl Chloride	0.45	0.45 UC	0.45 UJ	UG/M3	X2

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Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO17/NONE	AI	5215-IA01-0415	N	Benzene	0.50	0.55	0.55	UG/M3	
TO17/NONE	AI	5215-IA01-0415	N	Toluene	0.13	1.3	1.3	UG/M3	
TO17/NONE	AI	5215-IA01-0415	N	1,2-Dichloroethane	0.13	0.043 J	0.043 J	UG/M3	TR
TO17/NONE	AI	5215-IA01-0415	N	Ethylbenzene	0.15	0.21	0.21	UG/M3	
TO17/NONE	AI	5215-IA01-0415	N	Tetrachloroethene (PCE)	0.17	0.078 J	0.078 J	UG/M3	TR
TO17/NONE	AI	5215-IA01-0415	N	Trichloroethene (TCE)	0.14	0.018 J	0.018 J	UG/M3	TR
TO17/NONE	AI	5215-IA01-0415	N	1,2,4-Trimethylbenzene	0.20	0.37	0.37	UG/M3	
TO17/NONE	AI	5215-IA01-0415	N	1,3,5-Trimethylbenzene	0.19	0.094 CJ	0.094 J	UG/M3	TR/X2
TO17/NONE	AI	5215-IA01-0415	N	m,p-Xylene	0.14	0.65	0.65	UG/M3	
TO17/NONE	AI	5215-IA01-0415	N	o-Xylene	0.15	0.23	0.23	UG/M3	
TO17/NONE	AI	5226-IA01-0415	N	Benzene	0.50	0.66	0.66	UG/M3	
TO17/NONE	AI	5226-IA01-0415	N	Toluene	0.14	3.6	3.6	UG/M3	
TO17/NONE	AI	5226-IA01-0415	N	1,2-Dichloroethane	0.13	0.099 J	0.099 J	UG/M3	TR
TO17/NONE	AI	5226-IA01-0415	N	Ethylbenzene	0.15	0.31	0.31	UG/M3	
TO17/NONE	AI	5226-IA01-0415	N	Tetrachloroethene (PCE)	0.17	0.084 J	0.084 J	UG/M3	TR
TO17/NONE	AI	5226-IA01-0415	N	Trichloroethene (TCE)	0.14	0.059 J	0.059 J	UG/M3	TR
TO17/NONE	AI	5226-IA01-0415	N	1,2,4-Trimethylbenzene	0.20	0.54	0.54	UG/M3	
TO17/NONE	AI	5226-IA01-0415	N	1,3,5-Trimethylbenzene	0.19	0.16 CJ	0.16 J	UG/M3	TR/X2
TO17/NONE	AI	5226-IA01-0415	N	m,p-Xylene	0.14	0.92	0.92	UG/M3	
TO17/NONE	AI	5226-IA01-0415	N	o-Xylene	0.15	0.34	0.34	UG/M3	
TO17/NONE	AI	5226-IA02-0415	N	Benzene	0.49	0.78	0.78	UG/M3	
TO17/NONE	AI	5226-IA02-0415	N	Toluene	0.13	2.1	2.1	UG/M3	
TO17/NONE	AI	5226-IA02-0415	N	1,2-Dichloroethane	0.13	0.068 J	0.068 J	UG/M3	TR
TO17/NONE	AI	5226-IA02-0415	N	Ethylbenzene	0.14	0.37	0.37	UG/M3	
TO17/NONE	AI	5226-IA02-0415	N	Tetrachloroethene (PCE)	0.17	0.14 J	0.14 J	UG/M3	TR
TO17/NONE	AI	5226-IA02-0415	N	Trichloroethene (TCE)	0.14	0.070 J	0.070 J	UG/M3	TR
TO17/NONE	AI	5226-IA02-0415	N	1,2,4-Trimethylbenzene	0.20	0.68	0.68	UG/M3	

AUTOMATED DATA REVIEW SUMMARY for 1504459R1

Detected Results

Test Leach	Matrix	FieldSample ID	Type	Analyte	RL	Lab Result	Qualified Result	Units	Reason
TO17/NONE	AI	5226-IA02-0415	N	1,3,5-Trimethylbenzene	0.19	0.18 CJ	0.18 J	UG/M3	TR/X2
TO17/NONE	AI	5226-IA02-0415	N	m,p-Xylene	0.14	1.0	1.0	UG/M3	
TO17/NONE	AI	5226-IA02-0415	N	o-Xylene	0.15	0.41	0.41	UG/M3	
TO17/NONE	AI	5226-IA04-0415	N	Benzene	0.50	0.88	0.88	UG/M3	
TO17/NONE	AI	5226-IA04-0415	N	Toluene	0.13	2.5	2.5	UG/M3	
TO17/NONE	AI	5226-IA04-0415	N	1,2-Dichloroethane	0.13	0.27	0.27	UG/M3	
TO17/NONE	AI	5226-IA04-0415	N	Ethylbenzene	0.15	0.42	0.42	UG/M3	
TO17/NONE	AI	5226-IA04-0415	N	Tetrachloroethene (PCE)	0.17	0.093 J	0.093 J	UG/M3	TR
TO17/NONE	AI	5226-IA04-0415	N	Trichloroethene (TCE)	0.14	0.060 J	0.060 J	UG/M3	TR
TO17/NONE	AI	5226-IA04-0415	N	1,2,4-Trimethylbenzene	0.20	0.50	0.50	UG/M3	
TO17/NONE	AI	5226-IA04-0415	N	1,3,5-Trimethylbenzene	0.19	0.13 CJ	0.13 J	UG/M3	TR/X2
TO17/NONE	AI	5226-IA04-0415	N	m,p-Xylene	0.14	1.2	1.2	UG/M3	
TO17/NONE	AI	5226-IA04-0415	N	o-Xylene	0.15	0.43	0.43	UG/M3	
TO17/NONE	AI	5227-OA01-0415	N	Benzene	0.51	0.48 J	0.48 J	UG/M3	TR
TO17/NONE	AI	5227-OA01-0415	N	Toluene	0.14	1.3	1.3	UG/M3	
TO17/NONE	AI	5227-OA01-0415	N	Ethylbenzene	0.15	0.22	0.22	UG/M3	
TO17/NONE	AI	5227-OA01-0415	N	Tetrachloroethene (PCE)	0.17	0.080 J	0.080 J	UG/M3	TR
TO17/NONE	AI	5227-OA01-0415	N	1,2,4-Trimethylbenzene	0.20	0.32	0.32	UG/M3	
TO17/NONE	AI	5227-OA01-0415	N	1,3,5-Trimethylbenzene	0.19	0.094 CJ	0.094 J	UG/M3	TR/X2
TO17/NONE	AI	5227-OA01-0415	N	m,p-Xylene	0.14	0.68	0.68	UG/M3	
TO17/NONE	AI	5227-OA01-0415	N	o-Xylene	0.16	0.25	0.25	UG/M3	

AUTOMATED DATA REVIEW SUMMARY for 1504459R1

Rejected Results

--No Records Found--

QC Manual Outlier Report

Test	QC Element	Sample	Batch#	Analyte(s)	Result (Units)	Qualifier	Criteria	Reason	Comment
TO-17	uptake rate	All field samples	10042701	1,1,2-Trichloroethane	nonvalidated uptake rate	J / UJ	validated uptake rate	X2	see Narrative Comments
TO-17	uptake rate	All field samples	10042701	1,1-Dichloroethane	nonvalidated uptake rate	J / UJ	validated uptake rate	X2	see Narrative Comments
TO-17	uptake rate	All field samples	10042701	1,1-Dichloroethene	nonvalidated uptake rate	J / UJ	validated uptake rate	X2	see Narrative Comments
TO-17	uptake rate	All field samples	10042701	1,3,5-Trimethylbenzene	nonvalidated uptake rate	J / UJ	validated uptake rate	X2	see Narrative Comments
TO-17	uptake rate	All field samples	10042701	cis-1,2-Dichloroethylene	nonvalidated uptake rate	J / UJ	validated uptake rate	X2	see Narrative Comments
TO-17	uptake rate	All field samples	10042701	trans-1,2-Dichloroethene	nonvalidated uptake rate	J / UJ	validated uptake rate	X2	see Narrative Comments
TO-17	uptake rate	All field samples	10042701	Vinyl Chloride	nonvalidated uptake rate	J / UJ	validated uptake rate	X2	see Narrative Comments

Qualified Results Table

Lab Sample ID	Sample ID	Sample Collection Date	Type	Method	Parameter	Original Value	Qualifier	New Value	Bias	MDL	RL	Units	Reason
1504459R1-05A	5215-IA01-0415	4/24/2015	AI-N	TO17	1,1-Dichloroethane	ND	UJ	ND UJ		0.039	0.16	UG/M3	X2
1504459R1-05A	5215-IA01-0415	4/24/2015	AI-N	TO17	1,2-Dichloroethane	0.043	J	0.043 J		0.042	0.13	UG/M3	TR
1504459R1-05A	5215-IA01-0415	4/24/2015	AI-N	TO17	1,1-Dichloroethene	ND	UJ	ND UJ	-	0.024	0.52	UG/M3	L/X2
1504459R1-05A	5215-IA01-0415	4/24/2015	AI-N	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ		0.055	0.16	UG/M3	X2
1504459R1-05A	5215-IA01-0415	4/24/2015	AI-N	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ		0.064	0.33	UG/M3	X2
1504459R1-05A	5215-IA01-0415	4/24/2015	AI-N	TO17	Naphthalene	0.033	U	ND U	+	0.0077	0.40	UG/M3	B1
1504459R1-05A	5215-IA01-0415	4/24/2015	AI-N	TO17	Tetrachloroethene (PCE)	0.078	J	0.078 J		0.024	0.17	UG/M3	TR
1504459R1-05A	5215-IA01-0415	4/24/2015	AI-N	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ		0.022	0.15	UG/M3	X2
1504459R1-05A	5215-IA01-0415	4/24/2015	AI-N	TO17	Trichloroethene (TCE)	0.018	J	0.018 J		0.018	0.14	UG/M3	TR
1504459R1-05A	5215-IA01-0415	4/24/2015	AI-N	TO17	1,3,5-Trimethylbenzene	0.094	J	0.094 J		0.019	0.19	UG/M3	TR/X2
1504459R1-05A	5215-IA01-0415	4/24/2015	AI-N	TO17	Vinyl Chloride	ND	UJ	ND UJ		0.025	0.44	UG/M3	X2
1504459R1-01A	5226-IA01-0415	4/23/2015	AI-N	TO17	1,1-Dichloroethane	ND	UJ	ND UJ		0.039	0.16	UG/M3	X2
1504459R1-01A	5226-IA01-0415	4/23/2015	AI-N	TO17	1,2-Dichloroethane	0.099	J	0.099 J		0.042	0.13	UG/M3	TR
1504459R1-01A	5226-IA01-0415	4/23/2015	AI-N	TO17	1,1-Dichloroethene	ND	UJ	ND UJ	-	0.024	0.53	UG/M3	L/X2
1504459R1-01A	5226-IA01-0415	4/23/2015	AI-N	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ		0.056	0.16	UG/M3	X2
1504459R1-01A	5226-IA01-0415	4/23/2015	AI-N	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ		0.065	0.33	UG/M3	X2
1504459R1-01A	5226-IA01-0415	4/23/2015	AI-N	TO17	Naphthalene	0.034	U	ND U	+	0.0078	0.40	UG/M3	B1
1504459R1-01A	5226-IA01-0415	4/23/2015	AI-N	TO17	Tetrachloroethene (PCE)	0.084	J	0.084 J		0.024	0.17	UG/M3	TR
1504459R1-01A	5226-IA01-0415	4/23/2015	AI-N	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ		0.022	0.15	UG/M3	X2
1504459R1-01A	5226-IA01-0415	4/23/2015	AI-N	TO17	Trichloroethene (TCE)	0.059	J	0.059 J		0.018	0.14	UG/M3	TR
1504459R1-01A	5226-IA01-0415	4/23/2015	AI-N	TO17	1,3,5-Trimethylbenzene	0.16	J	0.16 J		0.019	0.19	UG/M3	TR/X2
1504459R1-01A	5226-IA01-0415	4/23/2015	AI-N	TO17	Vinyl Chloride	ND	UJ	ND UJ		0.025	0.44	UG/M3	X2
1504459R1-02A	5226-IA02-0415	4/23/2015	AI-N	TO17	1,1-Dichloroethane	ND	UJ	ND UJ		0.039	0.16	UG/M3	X2
1504459R1-02A	5226-IA02-0415	4/23/2015	AI-N	TO17	1,2-Dichloroethane	0.068	J	0.068 J		0.042	0.13	UG/M3	TR
1504459R1-02A	5226-IA02-0415	4/23/2015	AI-N	TO17	1,1-Dichloroethene	ND	UJ	ND UJ	-	0.024	0.52	UG/M3	L/X2
1504459R1-02A	5226-IA02-0415	4/23/2015	AI-N	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ		0.055	0.16	UG/M3	X2
1504459R1-02A	5226-IA02-0415	4/23/2015	AI-N	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ		0.064	0.33	UG/M3	X2
1504459R1-02A	5226-IA02-0415	4/23/2015	AI-N	TO17	Naphthalene	0.055	U	ND U	+	0.0077	0.40	UG/M3	B1
1504459R1-02A	5226-IA02-0415	4/23/2015	AI-N	TO17	Tetrachloroethene (PCE)	0.14	J	0.14 J		0.024	0.17	UG/M3	TR
1504459R1-02A	5226-IA02-0415	4/23/2015	AI-N	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ		0.022	0.15	UG/M3	X2
1504459R1-02A	5226-IA02-0415	4/23/2015	AI-N	TO17	Trichloroethene (TCE)	0.070	J	0.070 J		0.018	0.14	UG/M3	TR
1504459R1-02A	5226-IA02-0415	4/23/2015	AI-N	TO17	1,3,5-Trimethylbenzene	0.18	J	0.18 J		0.018	0.19	UG/M3	TR/X2
1504459R1-02A	5226-IA02-0415	4/23/2015	AI-N	TO17	Vinyl Chloride	ND	UJ	ND UJ		0.025	0.44	UG/M3	X2
1504459R1-04A	5226-IA04-0415	4/24/2015	AI-N	TO17	1,1-Dichloroethane	ND	UJ	ND UJ		0.039	0.16	UG/M3	X2
1504459R1-04A	5226-IA04-0415	4/24/2015	AI-N	TO17	1,1-Dichloroethene	ND	UJ	ND UJ	-	0.024	0.52	UG/M3	L/X2
1504459R1-04A	5226-IA04-0415	4/24/2015	AI-N	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ		0.055	0.16	UG/M3	X2
1504459R1-04A	5226-IA04-0415	4/24/2015	AI-N	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ		0.064	0.33	UG/M3	X2

Qualified Results Table

Lab Sample ID	Sample ID	Sample Collection Date	Type	Method	Parameter	Original Value	Qualifier	New Value	Bias	MDL	RL	Units	Reason
1504459R1-04A	5226-IA04-0415	4/24/2015	AI-N	TO17	Naphthalene	0.059	U	ND U	+	0.0077	0.40	UG/M3	B1
1504459R1-04A	5226-IA04-0415	4/24/2015	AI-N	TO17	Tetrachloroethene (PCE)	0.093	J	0.093 J		0.024	0.17	UG/M3	TR
1504459R1-04A	5226-IA04-0415	4/24/2015	AI-N	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ		0.022	0.15	UG/M3	X2
1504459R1-04A	5226-IA04-0415	4/24/2015	AI-N	TO17	Trichloroethene (TCE)	0.060	J	0.060 J		0.018	0.14	UG/M3	TR
1504459R1-04A	5226-IA04-0415	4/24/2015	AI-N	TO17	1,3,5-Trimethylbenzene	0.13	J	0.13 J		0.019	0.19	UG/M3	TR/X2
1504459R1-04A	5226-IA04-0415	4/24/2015	AI-N	TO17	Vinyl Chloride	ND	UJ	ND UJ		0.025	0.44	UG/M3	X2
1504459R1-03A	5227-OA01-0415	4/24/2015	AI-N	TO17	Benzene	0.48	J	0.48 J		0.066	0.51	UG/M3	TR
1504459R1-03A	5227-OA01-0415	4/24/2015	AI-N	TO17	1,1-Dichloroethane	ND	UJ	ND UJ		0.040	0.16	UG/M3	X2
1504459R1-03A	5227-OA01-0415	4/24/2015	AI-N	TO17	1,1-Dichloroethene	ND	UJ	ND UJ	-	0.024	0.54	UG/M3	L/X2
1504459R1-03A	5227-OA01-0415	4/24/2015	AI-N	TO17	cis-1,2-Dichloroethylene	ND	UJ	ND UJ		0.057	0.16	UG/M3	X2
1504459R1-03A	5227-OA01-0415	4/24/2015	AI-N	TO17	trans-1,2-Dichloroethene	ND	UJ	ND UJ		0.066	0.34	UG/M3	X2
1504459R1-03A	5227-OA01-0415	4/24/2015	AI-N	TO17	Naphthalene	0.031	U	ND U	+	0.0080	0.41	UG/M3	B1
1504459R1-03A	5227-OA01-0415	4/24/2015	AI-N	TO17	Tetrachloroethene (PCE)	0.080	J	0.080 J		0.025	0.17	UG/M3	TR
1504459R1-03A	5227-OA01-0415	4/24/2015	AI-N	TO17	1,1,2-Trichloroethane	ND	UJ	ND UJ		0.022	0.15	UG/M3	X2
1504459R1-03A	5227-OA01-0415	4/24/2015	AI-N	TO17	1,3,5-Trimethylbenzene	0.094	J	0.094 J		0.019	0.19	UG/M3	TR/X2
1504459R1-03A	5227-OA01-0415	4/24/2015	AI-N	TO17	Vinyl Chloride	ND	UJ	ND UJ		0.026	0.45	UG/M3	X2

Matrix / Sample Type

Matrix	Matrix Description	Sample Code	Sample Code Description
AI	INDOOR AIR	N	Normal Environmental Sample

Data Qualifier Definitions

Flag	Description
J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

Reason and Comment Code Definitions

Code	Description
B1	A common laboratory artifact was detected in the sample at a concentration less than 10X the concentration detected in the associated method blank.
L	Percent recovery of laboratory control sample recovery was outside established limits
T2	RSD of lab triplicate out
X2	Qualified due to professional judgment (unvalidated uptake rate). See Narrative Comments in ADR.

Gilbane Company Data Validation Report
Laboratory SDG GIL042114-A1
Soil Gas Sampling at Southern Avenue Industrial Area Superfund Site
South Gate Los Angeles County, California
Collected April/May 2014

1.0 DESCRIPTION OF DATA VALIDATION

The analytical data presented in the laboratory Sample Delivery Groups (SDG) GIL042114-A1, reported on May 20, 2014, were reviewed by Gilbane Company (Gilbane) project chemist as a Tier 1B or Tier 3 data validation. The SDGs contained data for volatile organic compounds (VOCs) by EPA Method TO-15 for soil gas samples collected with syringes. The analytical laboratory was H&P Mobile Geochemistry, Inc. (H&P) of Carlsbad, California. Table 1 below provides cross reference of the samples analyzed.

Table 1

Analytical Summary and Cross Reference for Syringe Soil Gas Samples TO-15
H&P SDG GIL042114-A1

Gilbane Sample ID	H&P Laboratory Number	Collection Date
SAIA-SB/SG-23-5, 1PV, P433cc	E404066-01	04/21/2014
SAIA-SB/SG-23-5, 3PV, P1299cc	E404066-02	04/21/2014
SAIA-SB/SG-23-5, 10PV, P4330cc	E404066-03	04/21/2014
SAIA-SB/SG-23-15, 1PV, P481cc	E404066-04	04/21/2014
SAIA-SB/SG-23-15, 3PV, P1444cc	E404066-05	04/21/2014
SAIA-SB/SG-23-15, 10PV, P4814cc	E404066-06	04/21/2014
SAIA-SB/SG-23-25, 1PV, P530cc	E404066-07	04/21/2014
SAIA-SB/SG-23-35, 1PV, P578cc	E404066-08	04/21/2014
SAIA-SB/SG-23-25, 3PV, P1589cc	E404066-09	04/21/2014
SAIA-SB/SG-23-35, 3PV, P1734cc	E404066-10	04/21/2014
SAIA-SB/SG-23-25, 10PV, P5298cc	E404066-11	04/21/2014
SAIA-SB/SG-23-35, 10PV, P5782cc	E404066-12	04/21/2014
SAIA-SB/SG-39-5, P816cc	E404070-01	04/22/2014
SAIA-SB/SG-39-15, P913cc	E404070-02	04/22/2014
SAIA-SB/SG-39-25, P530cc	E404070-03	04/22/2014
SAIA-SB/SG-39-35, P578cc	E404070-04	04/22/2014
SAIA-SB/SG-38-5, P816cc	E404070-05	04/22/2014
SAIA-SB/SG-38-15, P913cc	E404070-06	04/22/2014
SAIA-SB/SG-38-15 Rep, P963cc	E404070-07	04/22/2014
SAIA-SB/SG-38-25, P530cc	E404070-08	04/22/2014

Gilbane Sample ID	H&P Laboratory Number	Collection Date
SAIA-SB/SG-38-35, P578cc	E404070-09	04/22/2014
SAIA-SB/SG-37-5, P816cc	E404070-10	04/22/2014
SAIA-SB/SG-37-15, P913cc	E404070-11	04/22/2014
SAIA-SB/SG-36-5, P816cc	E404074-01	04/23/2014
SAIA-SB/SG-36-15, P913cc	E404074-02	04/23/2014
SAIA-SB/SG-36-25, P530cc	E404074-03	04/23/2014
SAIA-SB/SG-36-35, P578cc	E404074-04	04/23/2014
SAIA-SB/SG-24-5, P816cc	E404074-05	04/23/2014
SAIA-SB/SG-24-15, P913cc	E404074-06	04/23/2014
SAIA-SB/SG-24-25, P530cc	E404074-07	04/23/2014
SAIA-SB/SG-24-35, P578cc	E404074-08	04/23/2014
SAIA-SB/SG-26-5, P816cc	E404074-09	04/23/2014
SAIA-SB/SG-26-5 Rep, P866cc	E404074-10	04/23/2014
SAIA-SB/SG-26-15, P913cc	E404074-11	04/23/2014
SAIA-SB/SG-26-25, P530cc	E404080-01	04/24/2014
SAIA-SB/SG-29-5, P816cc	E404080-02	04/24/2014
SAIA-SB/SG-29-15, P913cc	E404080-03	04/24/2014
SAIA-SB/SG-29-25, P530cc	E404080-04	04/24/2014
SAIA-SB/SG-29-35, P578cc	E404080-05	04/24/2014
SAIA-SB/SG-28-5, P816cc	E404080-06	04/24/2014
SAIA-SB/SG-28-15, P913cc	E404080-07	04/24/2014
SAIA-SB/SG-28-15 Rep, P963cc	E404080-08	04/24/2014
SAIA-SB/SG-28-35, P578cc	E404080-09	04/24/2014
SAIA-SB/SG-31-5, P816cc	E404080-10	04/24/2014
SAIA-SB/SG-31-15, P913cc	E404080-11	04/24/2014
SAIA-SB/SG-31-25, P530cc	E404080-12	04/24/2014
SAIA-SB/SG-31-35, P578cc	E404080-13	04/24/2014
SAIA-SB/SG-30-5, P816cc	E404080-14	04/24/2014
SAIA-SB/SG-30-15, P913cc	E404080-15	04/24/2014
SAIA-SB/SG-30-25, P530cc	E404085-01	04/25/2014
SAIA-SB/SG-30-35, P578cc	E404085-02	04/25/2014
SAIA-SB/SG-32-5, P816cc	E404085-03	04/25/2014
SAIA-SB/SG-32-15, P913cc	E404085-04	04/25/2014
SAIA-SB/SG-32-25, P530cc	E404085-05	04/25/2014
SAIA-SB/SG-32-35, P578cc	E404085-06	04/25/2014
SAIA-SB/SG-33-5, P816cc	E404085-07	04/25/2014
SAIA-SB/SG-33-5 Rep, P866cc	E404085-08	04/25/2014
SAIA-SB/SG-33-15, P913cc	E404085-09	04/25/2014
SAIA-SB/SG-33-25, P530cc	E404085-10	04/25/2014

Gilbane Sample ID	H&P Laboratory Number	Collection Date
SAIA-SB/SG-33-35, P578cc	E404085-11	04/25/2014
SAIA-SB/SG-34-5, P816cc	E404085-12	04/25/2014
SAIA-SB/SG-34-15, P913cc	E404085-13	04/25/2014
SAIA-SB/SG-34-25, P530cc	E404085-14	04/25/2014
SAIA-SB/SG-34-35, P578cc	E404085-15	04/25/2014
SAIA-SB/SG-35-5, P816cc	E404090-01	04/28/2014
SAIA-SB/SG-35-15, P913cc	E404090-02	04/28/2014
SAIA-SB/SG-35-25, P530cc	E404090-03	04/28/2014
SAIA-SB/SG-35-35, P578cc	E404090-04	04/28/2014
SAIA-SB/SG-25-5, P816cc	E404090-05	04/28/2014
SAIA-SB/SG-25-15, P913cc	E404090-06	04/28/2014
SAIA-SB/SG-25-15 Rep, P963cc	E404090-07	04/28/2014
SAIA-SB/SG-25-35, P578cc	E404090-08	04/28/2014
SAIA-SB/SG-25-25, P530cc	E404090-09	04/28/2014
SAIA-SB/SG-27-5, P816cc	E404090-10	04/28/2014
SAIA-SB/SG-27-15, P913cc	E404090-11	04/28/2014
SAIA-SB/SG-27-25, P530cc	E404090-12	04/28/2014
SAIA-SB/SG-27-35, P578cc	E404095-01	04/29/2014
SAIA-SB/SG-19-5, P816cc	E404095-02	04/29/2014
SAIA-SB/SG-19-25, P530cc	E404095-03	04/29/2014
SAIA-SB/SG-19-15, P913cc	E404095-04	04/29/2014
SAIA-SB/SG-19-35, P578cc	E404095-05	04/29/2014
SAIA-SB/SG-22-5, P816cc	E404095-06	04/29/2014
SAIA-SB/SG-22-5 Rep, P866cc	E404095-07	04/29/2014
SAIA-SB/SG-22-15, P913cc	E404095-08	04/29/2014
SAIA-SB/SG-22-25, P530cc	E404095-09	04/29/2014
SAIA-SB/SG-22-35, P578cc	E404099-01	04/30/2014
SAIA-SB/SG-22-35 Rep, P628cc	E404099-02	04/30/2014
SAIA-SB/SG-21-5, P816cc	E404099-03	04/30/2014
SAIA-SB/SG-21-15, P913cc	E404099-04	04/30/2014
SAIA-SB/SG-21-25, P530cc	E404099-05	04/30/2014
SAIA-SB/SG-21-35, P578cc	E404099-06	04/30/2014
SAIA-SB/SG-20-5, P816cc	E404099-07	04/30/2014
SAIA-SB/SG-20-15, P913cc	E404099-08	04/30/2014
SAIA-SB/SG-20-25, P530cc	E404099-09	04/30/2014
SAIA-SB/SG-20-35, P578cc	E405001-01	05/01/2014
SAIA-SB/SG-40-5, P816cc	E405001-02	05/01/2014
SAIA-SB/SG-40-15, P913cc	E405001-03	05/01/2014
SAIA-SB/SG-40-25, P530cc	E405001-04	05/01/2014

Gilbane Sample ID	H&P Laboratory Number	Collection Date
SAIA-SB/SG-40-35, P578cc	E405001-05	05/01/2014
SAIA-SB/SG-40-35 Rep, P628cc	E405001-06	05/01/2014
SAIA-SB/SG-41-5, P816cc	E405001-07	05/01/2014
SAIA-SB/SG-41-15, P913cc	E405001-08	05/01/2014
SAIA-SB/SG-41-25, P530cc	E405001-09	05/01/2014
SAIA-SB/SG-41-35, P578cc	E405001-10	05/01/2014
SAIA-SB/SG-43-5, P816cc	E405001-11	05/01/2014
SAIA-SB/SG-43-15, P913cc	E405007-01	05/02/2014
SAIA-SB/SG-43-25, P530cc	E405007-02	05/02/2014
SAIA-SB/SG-43-35, P578cc	E405007-03	05/02/2014
SAIA-SB/SG-43-35 Rep, P628cc	E405007-04	05/02/2014
SAIA-SB/SG-42-5, P816cc	E405007-05	05/02/2014
SAIA-SB/SG-42-15, P913cc	E405007-06	05/02/2014
SAIA-SB/SG-42-25, P530cc	E405007-07	05/02/2014
SAIA-SB/SG-42-35, P578cc	E405007-08	05/02/2014

The data underwent an EPA Tier 1B data validation for which the laboratory provided a Level II data deliverable. Level II data deliverable contains the sample results and chain-of-custody forms along with basic quality control (QC) summaries including surrogate recoveries, method blank results, and precision and accuracy data summaries for each analytical or preparation batch. The report also includes a case narrative describing any analytical problems and the potential impact on data quality. The samples collected on April 23, 2014 underwent a Tier 3 data validation for which the laboratory provided a Level IV data deliverable. Tier 3 data validation included all the items from the Tier 1B verification plus review of the data for the instrument calibrations, sample quantitation, compound identification and internal standard recoveries.

The following data and (QC) summaries were reviewed as indicated for each validation level against criteria listed in the *Sampling and Analysis Plan (SAP), Remedial Investigation/Feasibility Study, Southern Avenue Industrial Area Superfund Site, South Gate, Los Angeles County, California* (ITSI Gilbane October 2012) and EPA Method TO-15.

Tier 1B and 3

- Chain of Custody (COC);
- Case Narrative;
- Technical holding time;

- Method blanks;
- Laboratory control sample (LCS);
- Field duplicates;
- Surrogates;
- Internal standards;
- Leak check compound.
- Initial calibration summaries;
- Initial calibration verification (ICV);
- Continuing calibration verification (CCV);

Tier 3

- Instrument tunes;
- Quantitation Reports;
- Chromatograms;
- Compound spectra;
- Calculation verifications.

2.0 LABORATORY REPORT

The laboratory case narrative was reviewed for any QC anomalies and the sample results were reviewed for any qualifiers applied by the laboratory. Anomalies that required data qualification are discussed in the sections below. A summary of the qualified data is provided in the Qualified Results Table as Appendix A of this report.

3.0 SAMPLE INTEGRITY

The Chains-of-Custody (COC) for the April/May 2014 soil gas sampling event were available for review. The results of the leak check, which was performed on each sample syringe, were reviewed. There were no anomalies that required qualification of the data, however, the following observations were made.

- SDG E404074: The time the samples were released to the laboratory was not documented on the COC. Since the time is documented for each sample on the COC, no action is required.

- Corrections to several of the COCs were made by writing over or obliterating the original data. Sample corrections should be done with a single line strike out and the initials of the sampler. No data qualifiers are required.

- The laboratory determined that due to a miscalculation in the pump run times, the purge volumes were incorrectly calculated. The shallower probes (5 and 15 feet) were being purged at two purge volumes instead of three volumes. Since the laboratory indicated that the purge volume tests showed minor variation in the concentrations between the one purge volume and the three purge volume, it was concluded that the two purge volume was acceptable. The sample log sheets were amended to reflect the proper purge volumes used. A copy of the laboratory communication is provided in Appendix C. The amended log sheets are attached to the laboratory report.

4.0 HOLDING TIME

The samples were prepared for analysis within the recommended preparation holding time of 30 minutes after collection.

5.0 INSTRUMENT TUNE

The daily instrument tunes were reviewed against method criteria. The tune results were within criteria.

6.0 INITIAL AND CONTINUING CALIBRATION

The initial calibration, ICV and CCV summaries were reviewed for all samples. The raw data was reviewed and calculation verifications were performed on a portion of the initial calibration, ICV and CCV results for the Tier 3 validation. There were no calibration anomalies that required qualification of the data except as noted below.

- SDG E404066, E0404070, E404095 : The CCV percent differences for naphthalene associated with the samples from SDGs E404066, E404070 and E404095 were out of the criteria of less than 30 percent at 49.3, 48.9 and 48.6 percent, respectively. The associated sample results have been qualified as "UJ-" for an estimated reporting limit with a low bias.

- SDG E404074: The CCV percent differences for naphthalene and 1,2,4-trichlorobenzene associated with the samples from SDG E404074 were out of the criteria of less than 30 percent at 54.9 and 35.4 percent, respectively. The associated sample results have been qualified as "UJ-" or "J-" for an estimated reporting limit or value with a low bias.

- SDG E404080: The CCV percent differences for naphthalene and 1,2,4-trichlorobenzene associated with the samples from SDG E404080 were out of the criteria of less than 30 percent at 56.8 and 34.4 percent, respectively. The associated sample results have been qualified as "UJ-" for an estimated reporting limit with a low bias.

- SDG E404090: The CCV percent differences for naphthalene, cis-1,2-dichloroethene, tetrachloroethene and toluene associated with the samples from SDG E404090 were out of the criteria of less than 30 percent at 34.5, 38.8, 55.6 and 39.1 percent, respectively. The associated sample result for naphthalene has been qualified as "UJ-" for an estimated reporting limit with a low bias. The associated positive results for cis-1,2-dichloroethene, tetrachloroethene and toluene have been qualified as "J+" for an estimated value with a high bias. No qualifiers are required for the non-detect results for cis-1,2-dichloroethene, tetrachloroethene and toluene.

- SDG404099: The CCV percent differences for naphthalene and 1,2,4-trichlorobenzene associated with the samples from SDG 404099 were out of the criteria of less than 30 percent at 54.7 and 31.3 percent, respectively. The associated sample results have been qualified as "UJ-" for an estimated reporting limit with a low bias.

7.0 BLANK EVALUATION

A method blank was reported for each analysis to assess laboratory contamination. There were no compounds detected in the method blank.

8.0 LCS

A single LCS was reported for each analysis. QC results were reviewed using the SAP control limit of 60 to 150 percent for accuracy. There were no anomalies except as noted below.

- SDG E404099: The percent recovery for cis-1,2-dichloroethene in the LCS associated with the samples from SDG E404099 was out of the criteria of 60 to 150 percent at159 percent. The associated positive results have been qualified as "J+" for an estimated value with a high bias. No qualifiers are required for the non-detect results.

9.0 MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD)

A project MS/MSD pair was not collected. Instead, the LCS was used to measure accuracy and the field duplicate was used to measure precision. The LCS and field duplicate are discussed in Sections 8.0 and 12.0, respectively.

10.0 SURROGATES AND INTERNAL STANDARDS

Surrogate spike were reviewed against the laboratory established control limits and internal standard recoveries were reviewed against the method criteria. All surrogate and internal standard recoveries were within control limits except as noted below.

- SDG E405001: The recoveries for the internal standards 1,4-difluorobenzene and chlorobenzene-d5 were out of the criteria of 60 to 140% at 206% and 210% in sample SAIA-SB/SG-40-35 Rep, P628cc (E405001-06). The associated result for trichloroethene has been qualified as "J+" for an estimated value with a high bias. No qualifiers are required for the non-detect results associated with the above internal standards.

11.0 COMPOUND QUANTITATION AND IDENTIFICATION

The laboratory reporting limits and quantitative results were reviewed. The laboratory reporting limits for a one times analysis were reviewed against the California State Office of *Environmental Health Hazard Assessment (OEHHA), September 2010, Table 3 – Soil Gas Screening Numbers for Volatile Chemicals Below Buildings Constructed Without Engineered Fill Below Sub-Slab Gravel*. All applicable compounds met the California residential and industrial limits. The results for 1,4-dioxane were reviewed against EPA Regional Screening Levels (RSLs) for indoor air used as a basis (EPA, May 2014). The laboratory reporting limit for 1,4-dioxane was slightly greater than the residential, non-carcinogen RSL of 31 micrograms per cubic meter (ug/m^3) at 36 ug/m^3. The laboratory did meet the non-carcinogen, industrial RSL of 130 ug/m^3 for 1,4-dioxane.

Review of the sample quantitation reports, chromatograms and ion spectra from the sample analyses were reviewed. In addition, a portion of the reported field and QC sample results were verified by manually calculating the results from the raw data. There were no quantitation anomalies that required qualification of the data, except as noted below.

- SDG E404074: The instrument raw results (before the dilution factor applied) for 1,1-dichloroethene, trans-1,2-dichloroethene, 1,1-dichloroethane and vinyl chloride associated with sample SAIA-SB/SG-24-35, P578cc (E404074-08) were greater than the highest standard of the multi-level calibration curve. The results have been qualified as "J" for an estimated value.

- SDG E404070: The non-detect result for trans-1,2-dichloroethene was elevated in sample SAIA-SB/SG-38-35, P578cc (E404070-09) due to high levels of target analytes. No qualifiers are required, however, the end users of the data should be aware that the elevated limit may mask low levels of the compound in the sample.

- SDG E404074: Isopropylbenzene was reported in sample SAIA-SB/SG-24-35, P578cc **(**E404074-08) at 28 ug/cm^3, however, it was not included on the quantitation report in the raw data. The laboratory was contacted and indicated that the compound was not present in the sample and should not have been reported. The laboratory issued an amended report with the result for isopropylbenzene reported as non-detect at the reporting limit. Communication with the laboratory is provided in Attachment C.

12.0 FIELD DUPLICATE AND SPLIT SAMPLES

Field duplicate sets were collected and analyzed to measure field and laboratory precision. The method replicate requirement of one per day was met except for SDG E404066. No qualifiers were applied due to absence of field duplicate collection and analysis. The results for the field duplicate and parent sample were in agreement for all field duplicate pairs. The results of the field duplicate pairs are summarized in Appendix A of this DVR. Quality Assurance (QA) samples or split samples were also collected for selected samples. The samples were sent to USEPA Region 9 Laboratory of Richmond, California for analysis. The comparison of the split sample results to the primary sample results are discussed in the data validation report for EPA Region 9 SDG 14125A.

13.0 RECOMMENDATIONS

Gilbane recommends that the laboratory not edit the quantitation reports to ensure that the instrument data matches the reported results. This reduces review errors and provides complete documentation of the quantitative results and complies with Good Automated Laboratory Practices.

14.0 OVERALL ASSESSMENT FOR SAIA SOIL GAS SAMPLING FOR APRIL AND MAY 2014

There were no rejected results for this sampling event. Based on the available information, the data as qualified are considered useable for their intended purposes.

Appendix A – Qualified Results Table
Appendix B – Field Duplicate Table
Appendix C – Communication with Laboratory

ATTACHMENT C

EPA TIER 3 VALIDATION REPORTS

ICF International
Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300; Fax: (510) 412-2304.

MEMORANDUM

TO: Karen Jurist, Remedial Project Manager
Site Cleanup Section 3, SFD-7-3
USEPA Region 9

THROUGH: Joe Eidelberg, Chemist
Quality Assurance (QA) Program, MTS-3
USEPA Region 9

FROM: Kathy O'Brien, Project Manager
Environmental Services Assistance Team (ESAT) Region 9
ICF International

ESAT Contract No.: EP-W-13-029
Technical Direction Form No.: 10106100

DATE: September 30, 2015

SUBJECT: Review of Analytical Data, **Tier 3**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Southern Avenue Industrial Area
Site Account No.:	09 WS QB 00
Case No.:	45436
SDG No.:	Y9XT5
Laboratory:	KAP Technologies, Inc. (KAP)
Analysis:	CLP Trace Volatiles, MA No. 2446.0
Samples:	20 Groundwater Samples
Collection Date:	July 23, 24, 27, and 28, 2015
Reviewer:	Estrellita Manuel, ESAT

EXES Data Manager has been updated; the dynamic deliverables were regenerated and are available on the SMO Portal.

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Raymond Flores, CLP PO USEPA Region 6
Steve Remaley, CLP PO USEPA Region 9

CLP PO: [X] FYI [ ] Action

SAMPLING ISSUES: [X] Yes [ ] No

Data Validation Report - **Tier 3**

Case No.: 45436
SDG No.: Y9XT5
Site: Southern Avenue Industrial Area
Laboratory: KAP Technologies, Inc. (KAP)
Analysis: CLP Trace Volatiles, MA No. 2446.0
Reviewer: Estrellita Manuel, ESAT
Date: September 30, 2015

I. SDG SUMMARY

For Sample Information and Laboratory Quality Control (QC), refer to EXES National Functional Guidelines (NFG) data validation reports *Analytical Sample Listing* and *Organic Analytic Sequence*.

Field QC

Field Blanks (FB):	None.
Trip Blanks (FB):	Y9Y05, Y9Y06, Y9Y07, and Y9Y08 (in SDG Y9XW3).
Equipment Blanks (EB):	Y9Y00 (in SDG Y9XW3).
Background Samples (BG):	None.
Field Duplicates (D1):	Y9XT6 and Y9XT7.
Field Duplicates (D2):	Y9XZ5 and Y9XZ6.

Tables

1A:	Analytical Results with Qualifications
1B:	Data Qualifier Definitions for Organic Data Review

CLP PO Action

None.

Sampling Issues

Samples Y9XT6 and Y9XW0 were received at the laboratory with one broken vial. There was enough sample volume in the other two vials for analysis.

Additional Comments

The trichloroethene present in sample Y9XY8 was incorrectly reported as nondetected (i.e., a false negative). The laboratory submitted revised data (Form I, quantitation report, and chromatogram) and mass spectra upon request, on 09/25/15 (see Table 1A for concentration). The revised result has been entered into the EXES Data Manager.

Samples Y9XT8, Y9XZ2, and Y9XW0 were analyzed at 5-, 5-, and 10-fold dilutions, respectively, due to high concentrations of analytes. The quantitation limits for these samples in Table 1A have been raised to account for the dilution.

All standards and spiking solutions were analyzed before the expiration date.

The recovery for DMC chloroethane-d5 exceeds QC limit in sample Y9XZ9 (134%), indicating potential high bias in detected results; qualification is not necessary because the associated target analytes are not detected.

Other than laboratory artifacts (retention time 2.6-3.0, 10.6, and 11.4 minutes), tentatively identified compounds (TIC) were found in samples Y9XW2, Y9XY7, Y9XZ4, Y9XZ8, and Y9XZ9 (see attached Form 1B).

The laboratory performed manual peak integration on chromatograms for some calibrations and samples. Manual integrations were reviewed and found to be in compliance with CLP Statement of Work (SOW) requirements.

This report was prepared in accordance with the following documents:

- *Addition of 1,2,3-Trichloropropane*, Modified Analysis 2446.0, June 2, 2015;
- *USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.2, August 2014;
- *USEPA National Functional Guidelines for Superfund Organic Methods Data Review*, August 2014.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.2, August 2014.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Data Completeness	Yes	
2	Holding Time/Preservation	Yes	
3	GC/MS Tune/GC Performance	Yes	
4	Initial Calibration	Yes	
5	Continuing Calibration Verification (CCV)	No	B
6	Laboratory Blanks	Yes	C
7	Equipment/Trip Blanks	Yes	C
8	Deuterated Monitoring Compounds (DMCs)	Yes	
9	Matrix Spike/Matrix Spike Duplicates (MS/MSDs)	Yes	
10	Internal Standards	Yes	
11	Compound Identification	Yes	
12	Compound Quantitation and Reported CRQLs	Yes	A, D
13	System Performance	Yes	
14	Field Duplicate Sample Analysis	Yes	

III. VALIDITY AND COMMENTS

A. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J" in Table 1A. The results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

B. Results for the following analytes are qualified as estimated due to large percent differences (%Ds) in associated CCVs and are flagged "UJ" in Table 1A.

- Isopropylbenzene in sample Y9XW2 and trip blank Y9Y07 and method blanks VBLK7U and VBLK7X.
- 1,2-Dibromoethane in trip blank Y9Y07 and method blank VBLK7X.

The following values exceed the ±25.0% validation criterion.

Analyte	Calibration Date and Time	%D
Isopropylbenzene	08/05/15 00:53	+25.4
Isopropylbenzene	08/05/15 16:19	+25.6
1,2-Dibromoethane	08/05/15 16:19	+30.6

C. The following results are qualified as nondetected due to method blank and trip blank contamination and are flagged "U" in Table 1A.

- Acetone in samples Y9XZ8 and Y9XZ9.
- Methylene chloride in samples Y9XY7, Y9XZ2, Y9XZ4, and Y9XZ8.

Methylene chloride is found in method blank VBLK7S and trip blank Y9Y07; acetone is found in trip blank Y9Y07 (See Table 1A for concentrations). The result for methylene chloride in Y9XZ2 and results for acetone in Y9XZ8 and Y9XZ9 are reported in Table 1A as nondetected at the reported concentrations.

Results for methylene chloride in samples Y9XT5 (0.30 µg/L) and Y9XT6 (0.26 µg/L) are not qualified because it is not found in the associated method blank and trip blank. Methylene chloride in these samples may be a laboratory artifact since it is found in method blank VBLK7S and trip blank Y9Y07 (see Table 1A for concentrations).

D. The samples listed in the table below required further dilution to obtain results within the calibration range for the indicated analytes. Results for these analytes are reported in Table 1A from the higher diluted analyses.

Sample	Dilution	Analyte
Y9XT6	10	cis-1,2-Dichloroethene
Y9XT7	10	cis-1,2-Dichloroethene
Y9XT8	50	cis-1,2-Dichloroethene
Y9XW0	50	cis-1,2-Dichloroethene
Y9XY9	10	cis-1,2-Dichloroethene
Y9XZ0	10	cis-1,2-Dichloroethene
Y9XZ1	10	cis-1,2-Dichloroethene and trichloroethene
Y9XZ2	50	cis-1,2-Dichloroethene
Y9XZ9	5.0	cis-1,2-Dichloroethene.

Sample Location Type Matrix/Level % Solids/Lipids Units	Y9XT5 SAIA-CPT14-60 Field_Sample Water/Trace ug/L			Y9XT6 (D1) SAIA-CPT14-76 Field_Sample Water/Trace ug/L			Y9XT7 (D1) SAIA-CPT14-75 Field_Sample Water/Trace ug/L			Y9XT8 SAIA-CPT14-90 Field_Sample Water/Trace ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	0.50	U		0.50	U		0.50	U		2.5	U	
Chloromethane	0.50	U		0.50	U		0.50	U		2.5	U	
Vinyl chloride	0.50	U		0.50	U		0.50	U		2.5	U	
Bromomethane	0.50	U		0.50	U		0.50	U		2.5	U	
Chloroethane	0.50	U		0.50	U		0.50	U		2.5	U	
Trichlorofluoromethane	0.50	U		0.50	U		0.50	U		2.5	U	
1,1-Dichloroethene	0.50	U		0.50	U		0.50	U		2.5	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U		0.50	U		0.50	U		2.5	U	
Acetone	5.0	U		5.0	U		5.0	U		25	U	
Carbon disulfide	0.50	U		0.50	U		0.50	U		2.5	U	
Methyl acetate	0.50	U		0.50	U		0.50	U		2.5	U	
Methylene chloride	0.30	J	A	0.26	J	A	0.50	U		2.5	U	
trans-1,2-Dichloroethene	0.50	U		8.4			7.1			36		
Methyl tert-butyl ether	0.50	U		0.50	U		0.50	U		2.5	U	
1,1-Dichloroethane	0.50	U		0.50	U		0.50	U		2.5	U	
cis-1,2-Dichloroethene	0.50	U		140		D	130		D	440		D
2-Butanone	5.0	U		5.0	U		5.0	U		25	U	
Bromochloromethane	0.50	U		0.50	U		0.50	U		2.5	U	
Chloroform	0.50	U		0.50	U		0.50	U		2.5	U	
1,1,1-Trichloroethane	0.50	U		0.50	U		0.50	U		2.5	U	
Cyclohexane	0.50	U		0.50	U		0.50	U		2.5	U	
Carbon tetrachloride	0.50	U		0.50	U		0.50	U		2.5	U	
Benzene	0.50	U		0.50	U		0.50	U		2.5	U	
1,2-Dichloroethane	0.50	U		0.50	U		0.50	U		2.5	U	
Trichloroethene	0.50	U		3.1			2.7			2.5	U	
Methylcyclohexane	0.50	U		0.50	U		0.50	U		2.5	U	
1,2-Dichloropropane	0.50	U		0.50	U		0.50	U		2.5	U	
Bromodichloromethane	0.50	U		0.50	U		0.50	U		2.5	U	
cis-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U		2.5	U	
4-Methyl-2-pentanone	5.0	U		5.0	U		5.0	U		25	U	
Toluene	0.50	U		0.50	U		0.50	U		2.5	U	
trans-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U		2.5	U	
1,1,2-Trichloroethane	0.50	U		0.50	U		0.50	U		2.5	U	

Sample Location Type Matrix/Level % Solids/Lipids Units	Y9XT5 SAIA-CPT14-60 Field_Sample Water/Trace ug/L			Y9XT6 (D1) SAIA-CPT14-76 Field_Sample Water/Trace ug/L			Y9XT7 (D1) SAIA-CPT14-75 Field_Sample Water/Trace ug/L			Y9XT8 SAIA-CPT14-90 Field_Sample Water/Trace ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Tetrachloroethene	0.50	U		0.50	U		0.50	U		2.5	U	
2-Hexanone	5.0	U		5.0	U		5.0	U		25	U	
Dibromochloromethane	0.50	U		0.50	U		0.50	U		2.5	U	
1,2-Dibromoethane	0.50	U		0.50	U		0.50	U		2.5	U	
Chlorobenzene	0.50	U		0.50	U		0.50	U		2.5	U	
Ethylbenzene	0.50	U		0.50	U		0.50	U		2.5	U	
o-Xylene	0.50	U		0.50	U		0.50	U		2.5	U	
m,p-Xylene	0.50	U		0.50	U		0.50	U		2.5	U	
Styrene	0.50	U		0.50	U		0.50	U		2.5	U	
Bromoform	0.50	U		0.50	U		0.50	U		2.5	U	
Isopropylbenzene	0.50	U		0.50	U		0.50	U		2.5	U	
1,1,2,2-Tetrachloroethane	0.50	U		0.50	U		0.50	U		2.5	U	
1,3-Dichlorobenzene	0.50	U		0.50	U		0.50	U		2.5	U	
1,4-Dichlorobenzene	0.50	U		0.50	U		0.50	U		2.5	U	
1,2-Dichlorobenzene	0.50	U		0.50	U		0.50	U		2.5	U	
1,2-Dibromo-3-chloropropane	0.50	U		0.50	U		0.50	U		2.5	U	
1,2,4-Trichlorobenzene	0.50	U		0.50	U		0.50	U		2.5	U	
1,2,3-Trichlorobenzene	0.50	U		0.50	U		0.50	U		2.5	U	
1,2,3-Trichloropropane	0.50	U		0.50	U		0.50	U		2.5	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample.

Sample Location Type Matrix/Level % Solids/Lipids Units	Y9XW0 SAIA-CPT14-130 Field_Sample Water/Trace ug/L			Y9XW2 SAIA-CPT15-60 Field_Sample Water/Trace ug/L			Y9XY7 SAIA-CPT19-45 Field_Sample Water/Trace ug/L			Y9XY8 SAIA-CPT19-60 Field_Sample Water/Trace ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	5.0	U		0.50	U		0.50	U		0.50	U	
Chloromethane	5.0	U		0.50	U		0.50	U		0.50	U	
Vinyl chloride	5.0	U		0.50	U		0.50	U		0.50	U	
Bromomethane	5.0	U		0.50	U		0.50	U		0.50	U	
Chloroethane	5.0	U		0.50	U		0.50	U		0.50	U	
Trichlorofluoromethane	5.0	U		0.50	U		0.50	U		0.50	U	
1,1-Dichloroethene	5.0	U		0.50	U		0.50	U		0.50	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U		0.50	U		0.50	U		0.50	U	
Acetone	50	U		5.0	U		5.0	U		5.0	U	
Carbon disulfide	5.0	U		0.50	U		0.50	U		0.50	U	
Methyl acetate	5.0	U		0.50	U		0.50	U		0.50	U	
Methylene chloride	5.0	U		0.50	U		0.50	U	C	0.50	U	
trans-1,2-Dichloroethene	33			0.50	U		0.50	U		6.7		
Methyl tert-butyl ether	5.0	U		0.50	U		0.50	U		0.50	U	
1,1-Dichloroethane	5.0	U		0.50	U		0.50	U		0.50	U	
cis-1,2-Dichloroethene	770		D	0.50	U		0.50	U		20		
2-Butanone	50	U		5.0	U		5.0	U		5.0	U	
Bromochloromethane	5.0	U		0.50	U		0.50	U		0.50	U	
Chloroform	5.0	U		0.50	U		0.50	U		0.50	U	
1,1,1-Trichloroethane	5.0	U		0.50	U		0.50	U		0.50	U	
Cyclohexane	5.0	U		0.50	U		0.50	U		0.50	U	
Carbon tetrachloride	5.0	U		0.50	U		0.50	U		0.50	U	
Benzene	5.0	U		0.50	U		0.50	U		0.50	U	
1,2-Dichloroethane	5.0	U		0.50	U		0.50	U		0.50	U	
Trichloroethene	5.0	U		0.50	U		0.50	U		1.2		
Methylcyclohexane	5.0	U		0.50	U		0.50	U		0.50	U	
1,2-DichloropropanD	5.0	U		0.50	U		0.50	U		0.50	U	
Bromodichloromethane	5.0	U		0.50	U		0.50	U		0.50	U	
cis-1,3-Dichloropropene	5.0	U		0.50	U		0.50	U		0.50	U	
4-Methyl-2-pentanone	50	U		5.0	U		5.0	U		5.0	U	
Toluene	5.0	U		0.50	U		0.50	U		0.50	U	
trans-1,3-Dichloropropene	5.0	U		0.50	U		0.50	U		0.50	U	
1,1,2-Trichloroethane	5.0	U		0.50	U		0.50	U		0.50	U	

Sample Location Type Matrix/Level % Solids/Lipids Units	Y9XW0 SAIA-CPT14-130 Field_Sample Water/Trace ug/L			Y9XW2 SAIA-CPT15-60 Field_Sample Water/Trace ug/L			Y9XY7 SAIA-CPT19-45 Field_Sample Water/Trace ug/L			Y9XY8 SAIA-CPT19-60 Field_Sample Water/Trace ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Tetrachloroethene	5.0	U		0.50	U		0.50	U		0.50	U	
2-Hexanone	50	U		5.0	U		5.0	U		5.0	U	
Dibromochloromethane	5.0	U		0.50	U		0.50	U		0.50	U	
1,2-Dibromoethane	5.0	U		0.50	U		0.50	U		0.50	U	
Chlorobenzene	5.0	U		0.50	U		0.50	U		0.50	U	
Ethylbenzene	5.0	U		0.50	U		0.50	U		0.50	U	
o-Xylene	5.0	U		0.50	U		0.50	U		0.50	U	
m,p-Xylene	5.0	U		0.50	U		0.50	U		0.50	U	
Styrene	5.0	U		0.50	U		0.50	U		0.50	U	
Bromoform	5.0	U		0.50	U		0.50	U		0.50	U	
Isopropylbenzene	5.0	U		0.50	UJ	B	0.50	U		0.50	U	
1,1,2,2-Tetrachloroethane	5.0	U		0.50	U		0.50	U		0.50	U	
1,3-Dichlorobenzene	5.0	U		0.50	U		0.50	U		0.50	U	
1,4-Dichlorobenzene	5.0	U		0.50	U		0.50	U		0.50	U	
1,2-Dichlorobenzene	5.0	U		0.50	U		0.50	U		0.50	U	
1,2-Dibromo-3-chloropropane	5.0	U		0.50	U		0.50	U		0.50	U	
1,2,4-Trichlorobenzene	5.0	U		0.50	U		0.50	U		0.50	U	
1,2,3-Trichlorobenzene	5.0	U		0.50	U		0.50	U		0.50	U	
1,2,3-Trichloropropane	5.0	U		0.50	U		0.50	U		0.50	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample.

Sample Location Type Matrix/Level % Solids/Lipids Units	Y9XY9 SAIA-CPT19-75 Field_Sample Water/Trace ug/L			Y9XZ0 SAIA-CPT19-90 Field_Sample Water/Trace ug/L			Y9XZ1 SAIA-CPT19-105 Field_Sample Water/Trace ug/L			Y9XZ2 SAIA-CPT19-130 Field_Sample Water/Trace ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	0.50	U		0.50	U		0.50	U		2.5	U	
Chloromethane	0.50	U		0.50	U		0.50	U		2.5	U	
Vinyl chloride	0.50	U		0.50	U		0.50	U		2.5	U	
Bromomethane	0.50	U		0.50	U		0.50	U		2.5	U	
Chloroethane	0.50	U		0.50	U		0.50	U		2.5	U	
Trichlorofluoromethane	0.50	U		0.50	U		0.50	U		2.5	U	
1,1-Dichloroethene	0.50	U		0.50	U		0.50	U		2.5	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U		0.50	U		0.50	U		2.5	U	
Acetone	5.0	U		5.0	U		5.0	U		25	U	
Carbon disulfide	0.50	U		0.50	U		0.50	U		2.5	U	
Methyl acetate	0.50	U		0.50	U		0.50	U		2.5	U	
Methylene chloride	0.50	U		0.50	U		0.50	U		3.2	U	C
trans-1,2-Dichloroethene	11			13			3.6			26		
Methyl tert-butyl ether	0.50	U		0.50	U		0.50	U		2.5	U	
1,1-Dichloroethane	0.50	U		0.50	U		0.50	U		2.5	U	
cis-1,2-Dichloroethene	46		D	44		D	46		D	530		D
2-Butanone	5.0	U		5.0	U		5.0	U		25	U	
Bromochloromethane	0.50	U		0.50	U		0.50	U		2.5	U	
Chloroform	0.50	U		0.50	U		0.50	U		2.5	U	
1,1,1-Trichloroethane	0.50	U		0.50	U		0.50	U		2.5	U	
Cyclohexane	0.50	U		0.50	U		0.50	U		2.5	U	
Carbon tetrachloride	0.50	U		0.50	U		0.50	U		2.5	U	
Benzene	0.50	U		0.50	U		0.50	U		2.5	U	
1,2-Dichloroethane	0.50	U		0.26	J	A	0.50	U		2.5	U	
Trichloroethene	0.52			1.1			33		D	8.0		
Methylcyclohexane	0.50	U		0.50	U		0.50	U		2.5	U	
1,2-DichloropropanD	0.50	U		0.50	U		0.50	U		2.5	U	
Bromodichloromethane	0.50	U		0.50	U		0.50	U		2.5	U	
cis-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U		2.5	U	
4-Methyl-2-pentanone	5.0	U		5.0	U		5.0	U		25	U	
Toluene	0.50	U		0.50	U		0.50	U		2.5	U	
trans-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U		2.5	U	
1,1,2-Trichloroethane	0.50	U		0.50	U		0.50	U		2.5	U	

Sample Location Type Matrix/Level % Solids/Lipids Units	Y9XY9 SAIA-CPT19-75 Field_Sample Water/Trace ug/L			Y9XZ0 SAIA-CPT19-90 Field_Sample Water/Trace ug/L			Y9XZ1 SAIA-CPT19-105 Field_Sample Water/Trace ug/L			Y9XZ2 SAIA-CPT19-130 Field_Sample Water/Trace ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Tetrachloroethene	0.50	U		0.50	U		0.50	U		2.5	U	
2-Hexanone	5.0	U		5.0	U		5.0	U		25	U	
Dibromochloromethane	0.50	U		0.50	U		0.50	U		2.5	U	
1,2-Dibromoethane	0.50	U		0.50	U		0.50	U		2.5	U	
Chlorobenzene	0.50	U		0.50	U		0.50	U		2.5	U	
Ethylbenzene	0.50	U		0.50	U		0.50	U		2.5	U	
o-Xylene	0.50	U		0.50	U		0.50	U		2.5	U	
m,p-Xylene	0.50	U		0.50	U		0.50	U		2.5	U	
Styrene	0.50	U		0.50	U		0.50	U		2.5	U	
Bromoform	0.50	U		0.50	U		0.50	U		2.5	U	
Isopropylbenzene	0.50	U		0.50	U		0.50	U		2.5	U	
1,1,2,2-Tetrachloroethane	0.50	U		0.50	U		0.50	U		2.5	U	
1,3-Dichlorobenzene	0.50	U		0.50	U		0.50	U		2.5	U	
1,4-Dichlorobenzene	0.50	U		0.50	U		0.50	U		2.5	U	
1,2-Dichlorobenzene	0.50	U		0.50	U		0.50	U		2.5	U	
1,2-Dibromo-3-chloropropane	0.50	U		0.50	U		0.50	U		2.5	U	
1,2,4-Trichlorobenzene	0.50	U		0.50	U		0.50	U		2.5	U	
1,2,3-Trichlorobenzene	0.50	U		0.50	U		0.50	U		2.5	U	
1,2,3-Trichloropropane	0.50	U		0.50	U		0.50	U		2.5	U	

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Sample Location Type Matrix/Level % Solids/Lipids Units	Y9XZ4 SAIA-CPT20-60 Field_Sample Water/Trace ug/L			Y9XZ5 (D2) SAIA-CPT20-75 Field_Sample Water/Trace ug/L			Y9XZ6 (D2) SAIA-CPT20-76 Field_Sample Water/Trace ug/L			Y9XZ8 SAIA-CPT20-105 Field_Sample Water/Trace ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
Vinyl chloride	0.50	U		0.50	U		0.50	U		0.50	U	
Bromomethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Trichlorofluoromethane	0.50	U		0.50	U		0.50	U		0.50	U	
1,1-Dichloroethene	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Acetone	5.0	U		5.0	U		5.0	U		15	U	C
Carbon disulfide	0.50	U		0.50	U		0.50	U		0.50	U	
Methyl acetate	0.50	U		0.50	U		0.50	U		0.50	U	
Methylene chloride	0.50	U	C	0.50	U		0.50	U		0.50	U	C
trans-1,2-Dichloroethene	2.0			3.5			3.6			1.2		
Methyl tert-butyl ether	0.50	U		0.50	U		0.50	U		0.50	U	
1,1-Dichloroethane	0.50	U		0.50	U		0.25	J	A	0.50	U	
cis-1,2-Dichloroethene	9.5			20			18			7.5		
2-Butanone	5.0	U		5.0	U		5.0	U		5.0	U	
Bromochloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chloroform	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,1-Trichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Cyclohexane	0.50	U		0.50	U		0.50	U		0.50	U	
Carbon tetrachloride	0.50	U		0.50	U		0.50	U		0.50	U	
Benzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Trichloroethene	1.5			2.0			2.0			0.55		
Methylcyclohexane	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-DichloropropanD	0.50	U		0.50	U		0.50	U		0.50	U	
Bromodichloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
cis-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U		0.50	U	
4-Methyl-2-pentanone	5.0	U		5.0	U		5.0	U		5.0	U	
Toluene	0.50	U		0.50	U		0.50	U		0.50	U	
trans-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,2-Trichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	

Sample Location Type Matrix/Level % Solids/Lipids Units	Y9XZ4 SAIA-CPT20-60 Field_Sample Water/Trace ug/L			Y9XZ5 (D2) SAIA-CPT20-75 Field_Sample Water/Trace ug/L			Y9XZ6 (D2) SAIA-CPT20-76 Field_Sample Water/Trace ug/L			Y9XZ8 SAIA-CPT20-105 Field_Sample Water/Trace ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Tetrachloroethene	0.50	U		0.50	U		0.50	U		0.50	U	
2-Hexanone	5.0	U		5.0	U		5.0	U		5.0	U	
Dibromochloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dibromoethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
Ethylbenzene	0.50	U		0.50	U		0.50	U		0.50	U	
o-Xylene	0.50	U		0.50	U		0.50	U		0.50	U	
m,p-Xylene	0.50	U		0.50	U		0.50	U		0.50	U	
Styrene	0.50	U		0.50	U		0.50	U		0.50	U	
Bromoform	0.50	U		0.50	U		0.50	U		0.50	U	
Isopropylbenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,2,2-Tetrachloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
1,3-Dichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,4-Dichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dibromo-3-chloropropane	0.50	U		0.50	U		0.50	U		0.50	U	
1,2,4-Trichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2,3-Trichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2,3-Trichloropropane	0.50	U		0.50	U		0.50	U		0.50	U	

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Sample Location Type Matrix/Level % Solids/Lipids Units	Y9XZ9 SAIA-CPT20-130 Field_Sample Water/Trace ug/L			Y9Y05 (TB) SAIA-RL01-0715 Field_Sample Water/Trace ug/L			Y9Y06 (TB) SAIA-RL02-0715 Field_Sample Water/Trace ug/L			Y9Y07 (TB) SAIA-RL03-0715 Field_Sample Water/Trace ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
Vinyl chloride	0.50	U		0.50	U		0.50	U		0.50	U	
Bromomethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Trichlorofluoromethane	0.50	U		0.50	U		0.50	U		0.50	U	
1,1-Dichloroethene	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Acetone	7.5	U	C	5.0	U		5.0	U		11		
Carbon disulfide	0.50	U		0.50	U		0.50	U		0.50	U	
Methyl acetate	0.50	U		0.50	U		0.50	U		0.50	U	
Methylene chloride	0.50	U		0.50	U		0.50	U		0.37	J	A
trans-1,2-Dichloroethene	7.6			0.50	U		0.50	U		0.50	U	
Methyl tert-butyl ether	0.50	U		0.50	U		0.50	U		0.50	U	
1,1-Dichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
cis-1,2-Dichloroethene	45		D	0.50	U		0.50	U		0.50	U	
2-Butanone	5.0	U		5.0	U		5.0	U		5.0	U	
Bromochloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chloroform	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,1-Trichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Cyclohexane	0.50	U		0.50	U		0.50	U		0.50	U	
Carbon tetrachloride	0.50	U		0.50	U		0.50	U		0.50	U	
Benzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dichloroethane	0.35	J	A	0.50	U		0.50	U		0.50	U	
Trichloroethene	0.42	J	A	0.50	U		0.50	U		0.50	U	
Methylcyclohexane	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-DichloropropanD	0.50	U		0.50	U		0.50	U		0.50	U	
Bromodichloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
cis-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U		0.50	U	
4-Methyl-2-pentanone	5.0	U		5.0	U		5.0	U		5.0	U	
Toluene	0.50	U		0.50	U		0.50	U		0.50	U	
trans-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,2-Trichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	

Sample Location Type Matrix/Level % Solids/Lipids Units	Y9XZ9 SAIA-CPT20-130 Field_Sample Water/Trace ug/L			Y9Y05 (TB) SAIA-RL01-0715 Field_Sample Water/Trace ug/L			Y9Y06 (TB) SAIA-RL02-0715 Field_Sample Water/Trace ug/L			Y9Y07 (TB) SAIA-RL03-0715 Field_Sample Water/Trace ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
1,1,2-Trichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Tetrachloroethene	5.0	U		5.0	U		5.0	U		5.0	U	
2-Hexanone	0.50	U		0.50	U		0.50	U		0.50	U	
Dibromochloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dibromoethane	0.50	U		0.50	U		0.50	U		0.50	UJ	B
Chlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
Ethylbenzene	0.50	U		0.50	U		0.50	U		0.50	U	
o-Xylene	0.50	U		0.50	U		0.50	U		0.50	U	
m,p-Xylene	0.50	U		0.50	U		0.50	U		0.50	U	
Styrene	0.50	U		0.50	U		0.50	U		0.50	U	
Bromoform	0.50	U		0.50	U		0.50	U		0.50	U	
Isopropylbenzene	0.50	U		0.50	U		0.50	U		0.50	UJ	B
1,1,2,2-Tetrachloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
1,3-Dichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,4-Dichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dibromo-3-chloropropane	0.50	U		0.50	U		0.50	U		0.50	U	
1,2,4-Trichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2,3-Trichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2,3-Trichloropropane	0.50	U		0.50	U		0.50	U		0.50	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample.

Sample Location Type Matrix/Level % Solids/Lipids Units	VBLK7P Method_Blank Water/Trace ug/L			VBLK7R Method_Blank Water/Trace ug/L			VBLK7S Method_Blank Water/Trace ug/L			VBLK7U Method_Blank Water/Trace ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
Vinyl chloride	0.50	U		0.50	U		0.50	U		0.50	U	
Bromomethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Trichlorofluoromethane	0.50	U		0.50	U		0.50	U		0.50	U	
1,1-Dichloroethene	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Acetone	5.0	U		5.0	U		5.0	U		5.0	U	
Carbon disulfide	0.50	U		0.50	U		0.50	U		0.50	U	
Methyl acetate	0.50	U		0.50	U		0.50	U		0.50	U	
Methylene chloride	0.50	U		0.50	U		0.26	J	A	0.50	U	
trans-1,2-Dichloroethene	0.50	U		0.50	U		0.50	U		0.50	U	
Methyl tert-butyl ether	0.50	U		0.50	U		0.50	U		0.50	U	
1,1-Dichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
cis-1,2-Dichloroethene	0.50	U		0.50	U		0.50	U		0.50	U	
2-Butanone	5.0	U		5.0	U		5.0	U		5.0	U	
Bromochloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chloroform	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,1-Trichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Cyclohexane	0.50	U		0.50	U		0.50	U		0.50	U	
Carbon tetrachloride	0.50	U		0.50	U		0.50	U		0.50	U	
Benzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Trichloroethene	0.50	U		0.50	U		0.50	U		0.50	U	
Methylcyclohexane	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-DichloropropanD	0.50	U		0.50	U		0.50	U		0.50	U	
Bromodichloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
cis-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U		0.50	U	
4-Methyl-2-pentanone	5.0	U		5.0	U		5.0	U		5.0	U	
Toluene	0.50	U		0.50	U		0.50	U		0.50	U	
trans-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,2-Trichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	

Sample Location Type Matrix/Level % Solids/Lipids Units	VBLK7P Method_Blank Water/Trace ug/L			VBLK7R Method_Blank Water/Trace ug/L			VBLK7S Method_Blank Water/Trace ug/L			VBLK7U Method_Blank Water/Trace ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Tetrachloroethene	0.50	U		0.50	U		0.50	U		0.50	U	
2-Hexanone	5.0	U		5.0	U		5.0	U		5.0	U	
Dibromochloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dibromoethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
Ethylbenzene	0.50	U		0.50	U		0.50	U		0.50	U	
o-Xylene	0.50	U		0.50	U		0.50	U		0.50	U	
m,p-Xylene	0.50	U		0.50	U		0.50	U		0.50	U	
Styrene	0.50	U		0.50	U		0.50	U		0.50	U	
Bromoform	0.50	U		0.50	U		0.50	U		0.50	U	
Isopropylbenzene	0.50	U		0.50	U		0.50	U		0.50	UJ	B
1,1,2,2-Tetrachloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
1,3-Dichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,4-Dichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dibromo-3-chloropropane	0.50	U		0.50	U		0.50	U		0.50	U	
1,2,4-Trichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2,3-Trichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2,3-Trichloropropane	0.50	U		0.50	U		0.50	U		0.50	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample.

Sample Location Type Matrix/Level % Solids/Lipids Units	VBLK7X Method_Blank Water/Trace ug/L			VBLK8M Method_Blank Water/Trace ug/L			VHBLK01 Storage_Blank Water/Trace ug/L					
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	0.50	U		0.50	U		0.50	U				
Chloromethane	0.50	U		0.50	U		0.50	U				
Vinyl chloride	0.50	U		0.50	U		0.50	U				
Bromomethane	0.50	U		0.50	U		0.50	U				
Chloroethane	0.50	U		0.50	U		0.50	U				
Trichlorofluoromethane	0.50	U		0.50	U		0.50	U				
1,1-Dichloroethene	0.50	U		0.50	U		0.50	U				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U		0.50	U		0.50	U				
Acetone	5.0	U		5.0	U		5.0	U				
Carbon disulfide	0.50	U		0.50	U		0.50	U				
Methyl acetate	0.50	U		0.50	U		0.50	U				
Methylene chloride	0.50	U		0.50	U		0.50	U				
trans-1,2-Dichloroethene	0.50	U		0.50	U		0.50	U				
Methyl tert-butyl ether	0.50	U		0.50	U		0.50	U				
1,1-Dichloroethane	0.50	U		0.50	U		0.50	U				
cis-1,2-Dichloroethene	0.50	U		0.50	U		0.50	U				
2-Butanone	5.0	U		5.0	U		5.0	U				
Bromochloromethane	0.50	U		0.50	U		0.50	U				
Chloroform	0.50	U		0.50	U		0.50	U				
1,1,1-Trichloroethane	0.50	U		0.50	U		0.50	U				
Cyclohexane	0.50	U		0.50	U		0.50	U				
Carbon tetrachloride	0.50	U		0.50	U		0.50	U				
Benzene	0.50	U		0.50	U		0.50	U				
1,2-Dichloroethane	0.50	U		0.50	U		0.50	U				
Trichloroethene	0.50	U		0.50	U		0.50	U				
Methylcyclohexane	0.50	U		0.50	U		0.50	U				
1,2-DichloropropanD	0.50	U		0.50	U		0.50	U				
Bromodichloromethane	0.50	U		0.50	U		0.50	U				
cis-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U				
4-Methyl-2-pentanone	5.0	U		5.0	U		5.0	U				
Toluene	0.50	U		0.50	U		0.50	U				
trans-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U				
1,1,2-Trichloroethane	0.50	U		0.50	U		0.50	U				

Sample Location Type Matrix/Level % Solids/Lipids Units	VBLK7X Method_Blank Water/Trace ug/L			VBLK8M Method_Blank Water/Trace ug/L			VHBLK01 Storage_Blank Water/Trace ug/L					
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Tetrachloroethene	0.50	U		0.50	U		0.50	U				
2-Hexanone	5.0	U		5.0	U		5.0	U				
Dibromochloromethane	0.50	U		0.50	U		0.50	U				
1,2-Dibromoethane	0.50	UJ	B	0.50	U		0.50	U				
Chlorobenzene	0.50	U		0.50	U		0.50	U				
Ethylbenzene	0.50	U		0.50	U		0.50	U				
o-Xylene	0.50	U		0.50	U		0.50	U				
m,p-Xylene	0.50	U		0.50	U		0.50	U				
Styrene	0.50	U		0.50	U		0.50	U				
Bromoform	0.50	U		0.50	U		0.50	U				
Isopropylbenzene	0.50	UJ	B	0.50	U		0.50	U				
1,1,2,2-Tetrachloroethane	0.50	U		0.50	U		0.50	U				
1,3-Dichlorobenzene	0.50	U		0.50	U		0.50	U				
1,4-Dichlorobenzene	0.50	U		0.50	U		0.50	U				
1,2-Dichlorobenzene	0.50	U		0.50	U		0.50	U				
1,2-Dibromo-3-chloropropane	0.50	U		0.50	U		0.50	U				
1,2,4-Trichlorobenzene	0.50	U		0.50	U		0.50	U				
1,2,3-Trichlorobenzene	0.25	J	A	0.50	U		0.50	U				
1,2,3-Trichloropropane	0.50	U		0.50	U		0.50	U				

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank; BG - Background Sample.

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," June 2008.

U The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

FORM 1B-OR
ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9XW2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW14031

Lab Code: KAP Case No.: 45436 MA No.: 2446.0 SDG No.: Y9XT5

Analytical Method: Trace VOA Level: TRACE

Matrix: WATER Lab Sample ID: S-1136.01

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: G32653

% Solids: _____ Date Received: 07/29/2015

GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____

Extract Concentrated: (Y/N) N Date Analyzed: 08/04/2015

Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)

Heated Purge: (Y/N) N Extraction Type: _____

Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)

Cleanup Types: _____ pH: 2.0 Dilution Factor: 1.0

Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01		Unknown-01	2.21	1.6	J
02		~~Unknown-02~~ C_5H_{10} Hydrocarbon	2.94	1.9	JN
03	~~000463-71-8~~	~~cis-1,3-dichloropropene-d4~~	~~10.55~~	~~6.5~~	~~NJ~~ B
04		~~Unknown-03~~	~~11.43~~	~~0.94~~	~~J~~ B
05		~~Unknown-04~~	~~19.91~~	~~0.67~~	~~J~~
06					
07		SL, 9/29/15			
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

FORM 1B-OR
ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9XY7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW14031

Lab Code: KAP Case No.: 45436 MA No.: 2446.0 SDG No.: Y9XT5

Analytical Method: Trace VOA Level: TRACE

Matrix: WATER Lab Sample ID: S-1127.04

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: G32635

% Solids: _____ Date Received: 07/28/2015

GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____

Extract Concentrated: (Y/N) N Date Analyzed: 08/03/2015

Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)

Heated Purge: (Y/N) N Extraction Type: _____

Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)

Cleanup Types: _____ pH: 2.0 Dilution Factor: 1.0

Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01		Unknown-01	2.22	0.97	J
02		~~Unknown-02~~	~~2.85~~	~~1.9~~	~~J B~~
03		~~Unknown-03~~	~~2.91~~	~~4.0~~	~~J B~~
04	~~004885-02-3~~	~~cis-1,3-dichloropropene-d4~~	~~10.55~~	~~7.9~~	~~NJ B~~
05		~~Unknown-04~~	~~11.41~~	~~0.62~~	~~J B~~
06					
07		SL, 9/29/15			
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

FORM 1B-OR
ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9XZ4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW14031

Lab Code: KAP Case No.: 45436 MA No.: 2446.0 SDG No.: Y9XT5

Analytical Method: Trace VOA Level: TRACE

Matrix: WATER Lab Sample ID: S-1127.01

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: G32636

% Solids: _____ Date Received: 07/28/2015

GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____

Extract Concentrated: (Y/N) N Date Analyzed: 08/03/2015

Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)

Heated Purge: (Y/N) N Extraction Type: _____

Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)

Cleanup Types: _____ pH: 2.0 Dilution Factor: 1.0

Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01		Unknown-01	2.22	0.50	J
02		~~Unknown-02~~	~~2.93~~	~~5.0~~	~~J B~~
03	~~000542-88-1~~	~~cis-1,3-dichloropropene-d4~~	~~10.55~~	~~5.3~~	~~NJ B~~
04		~~Unknown-03~~	~~11.44~~	~~0.80~~	~~J B~~
05		~~Unknown-04~~	~~19.01~~	~~0.42~~	~~J~~
06					
07		SL 9/29/15			
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

FORM 1B-OR
ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9XZ8

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW14031

Lab Code: KAP Case No.: 45436 MA No.: 2446.0 SDG No.: Y9XT5

Analytical Method: Trace VOA Level: TRACE

Matrix: WATER Lab Sample ID: S-1127.05

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: G32637

% Solids: _____ Date Received: 07/28/2015

GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____

Extract Concentrated: (Y/N) N Date Analyzed: 08/03/2015

Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)

Heated Purge: (Y/N) N Extraction Type: _____

Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)

Cleanup Types: _____ pH: 2.0 Dilution Factor: 1.0

Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01		Unknown-01	2.22	0.56	J
02		~~Unknown-02~~	~~2.62~~	~~0.64~~	~~J B~~
03		~~Unknown-03~~	~~2.93~~	~~6.7~~	~~J B~~
04		~~Unknown-04~~	~~3.02~~	~~0.36~~	~~J B~~
05		~~Unknown-05~~	~~4.93~~	~~0.41~~	~~J~~
06	~~000463-71-0~~	~~cis-1,3-dichloropropene-d4~~	~~10.55~~	~~7.4~~	~~NJ B~~
07		~~Unknown-06~~	~~11.43~~	~~0.75~~	~~J B~~
08		~~Unknown-07~~	~~14.86~~	~~0.71~~	~~J~~
09		Unknown-08	16.24	1.3	J
10		Unknown-09	17.35	0.83	J
11					
12		SL 9/29/15			
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

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FORM 1B-OR
ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9XZ9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW14031

Lab Code: KAP Case No.: 45436 MA No.: 2446.0 SDG No.: Y9XT5

Analytical Method: Trace VOA Level: TRACE

Matrix: WATER Lab Sample ID: S-1127.06

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: G32643

% Solids: _____ Date Received: 07/28/2015

GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____

Extract Concentrated: (Y/N) N Date Analyzed: 08/03/2015

Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)

Heated Purge: (Y/N) N Extraction Type: _____

Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)

Cleanup Types: _____ pH: 2.0 Dilution Factor: 1.0

Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01		Unknown-01	2.21	0.37	J
02		Unknown-02 Ethia Hydrocarbon	2.72	2.5	J
03		~~Unknown-03~~	~~2.87~~	~~2.0~~	~~J~~ NJ
04		~~Unknown-04~~	~~2.93~~	~~4.4~~	~~J~~
05		Unknown-05	4.22	0.99	J
06		~~Unknown-06~~	~~4.92~~	~~0.35~~	~~J~~
07	~~000542-88-1~~	~~cis 1,3-dichloropropene-d4~~	~~10.56~~	~~6.6~~	~~NJ~~
08		~~Unknown-07~~	~~11.42~~	~~0.80~~	~~J~~
09					
10		SE, 9/29/15.			
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

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ICF International
Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300; Fax: (510) 412-2304.

MEMORANDUM

TO: Karen Jurist, Remedial Project Manager
Site Cleanup Section 3, SFD-7-3
USEPA Region 9

THROUGH: Joe Eidelberg, Chemist
Quality Assurance (QA) Program, MTS-3
USEPA Region 9

FROM: Kathy O'Brien, Project Manager
Environmental Services Assistance Team (ESAT) Region 9
ICF International

ESAT Contract No.: EP-W-13-029
Technical Direction Form No.: 10106100

DATE: September 30, 2015

SUBJECT: Review of Analytical Data, **Tier 3**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Southern Avenue Industrial Area
Site Account No.:	09 WS QB 00
Case No.:	45436
SDG No.:	Y9XT5
Laboratory:	KAP Technologies, Inc. (KAP)
Analysis:	CLP 1,4-Dioxane by Semivolatile Selected Ion Monitoring
Samples:	16 Groundwater Samples
Collection Date:	July 23, 24, 27, and 28, 2015
Reviewer:	Santiago Lee, ESAT

EXES Data Manager has been updated; the dynamic deliverables will be regenerated upon the completion of the review for trace volatiles analysis.

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Raymond Flores, CLP PO USEPA Region 6
Steve Remaley, CLP PO USEPA Region 9

CLP PO: [X] FYI [ ] Action

SAMPLING ISSUES: [ ] Yes [X] No

Data Validation Report - **Tier 3**

Case No.: 45436
SDG No.: Y9XT5
Site: Southern Avenue Industrial Area
Laboratory: KAP Technologies, Inc. (KAP)
Analysis: CLP 1,4-Dioxane by Semivolatile Selected Ion Monitoring (MA No. 2445.0)
Reviewer: Santiago Lee, ESAT
Date: September 30, 2015

I. SDG SUMMARY

For Sample Information and Laboratory Quality Control (QC), refer to EXES National Functional Guidelines (NFG) data validation reports *Analytical Sample Listing* and *Organic Analytic Sequence*.

Field QC

Field Blanks (FB):	None.
Equipment Blanks (EB):	Y9Y00 (in SDG Y9XW3).
Background Samples (BG):	None.
Field Duplicates (D1):	Y9XT6 and Y9XT7.
Field Duplicates (D2):	Y9XZ5 and Y9XZ6.

Tables

1A:	Analytical Results with Qualifications
1B:	Data Qualifier Definitions for Organic Data Review

CLP PO Action

None.

Sampling Issues

None.

Additional Comments

All standards and spiking solutions were analyzed before the expiration date.

The laboratory performed manual peak integration on chromatograms for some calibrations and samples. Manual integrations were reviewed and found to be in compliance with CLP Statement of Work (SOW) requirements.

This report was prepared in accordance with the following documents:
- *1,4,-Dioxane Analysis with Lower CRQL,* Modified Analysis 2445.0, June 2, 2015;
- *USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration,* SOM02.2, August 2014;
- *USEPA National Functional Guidelines for Superfund Organic Methods Data Review*, August 2014.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration,* SOM02.2, August 2014.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Data Completeness	Yes	
2	Holding Time/Preservation	Yes	
3	GC/MS Tune/GC Performance	N/A	
4	Initial Calibration	Yes	
5	Continuing Calibration Verification (CCV)	Yes	
6	Laboratory Blanks	Yes	
7	Field/Equipment Blanks	Yes	
8	Deuterated Monitoring Compounds (DMCs)	Yes	
9	Laboratory Control Samples (LCSs)	Yes	
10	Matrix Spike/Matrix Spike Duplicates (MS/MSDs)	N/A	
11	Internal Standards	Yes	
12	GPC Performance Check	N/A	
13	Compound Identification	Yes	
14	Compound Quantitation and Reported CRQLs	Yes	A
15	System Performance	Yes	
16	Field Duplicate Sample Analysis	Yes	

N/A = Not Applicable

III. VALIDITY AND COMMENTS

A. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J" in Table 1A. The results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

Sample Location Type Matrix/Level % Solids/Lipids Units	Y9XT5 SAIA-CPT14-60 Field_Sample Water/LOW ug/L			Y9XT6 (D1) SAIA-CPT14-76 Field_Sample Water/LOW ug/L			Y9XT7 (D1) SAIA-CPT14-75 Field_Sample Water/LOW ug/L			Y9XT8 SAIA-CPT14-90 Field_Sample Water/LOW ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
1,4-Dioxane	0.50	U		0.37	J	A	0.50	U		0.50	U	

Sample Location Type Matrix/Level % Solids/Lipids Units	Y9XW0 SAIA-CPT14-130 Field_Sample Water/LOW ug/L			Y9XW2 SAIA-CPT15-60 Field_Sample Water/LOW ug/L			Y9XY7 SAIA-CPT19-45 Field_Sample Water/LOW ug/L			Y9XY8 SAIA-CPT19-60 Field_Sample Water/LOW ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
1,4-Dioxane	0.27	J	A	0.50	U		1.6			0.50	U	

Sample Location Type Matrix/Level % Solids/Lipids Units	Y9XY9 SAIA-CPT19-75 Field_Sample Water/Trace ug/L			Y9XZ0 SAIA-CPT19-90 Field_Sample Water/Trace ug/L			Y9XZ1 SAIA-CPT19-105 Field_Sample Water/Trace ug/L			Y9XZ2 SAIA-CPT19-130 Field_Sample Water/Trace ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
1,4-Dioxane	0.50	U		0.50	U		0.50	U		0.87		

Sample Location Type Matrix/Level % Solids/Lipids Units	Y9XZ4 SAIA-CPT20-60 Field_Sample Water/Trace ug/L			Y9XZ5 (D2) SAIA-CPT20-75 Field_Sample Water/Trace ug/L			Y9XZ6 (D2) SAIA-CPT20-76 Field_Sample Water/Trace ug/L			Y9XZ8 SAIA-CPT20-105 Field_Sample Water/Trace ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
1,4-Dioxane	0.62			0.35	J	A	0.42	J	A	0.50	U	

Sample Location Type Matrix/Level % Solids/Lipids Units	SBLK62 Method_Blank Water/LOW ug/L			SBLK66 Method_Blank Water/LOW ug/L								
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
1,4-Dioxane	0.50	U		0.50	U							

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank; BG - Background Sample.

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," June 2008.

U The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

Sample Summary Report

Case No:	45436	Contract:	EPW14031	SDG No:	Y9XT5	Lab Code:	KAP
Sample Number:	SBLK62	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP
Sample Number: SBLK66	Method: Semivolatiles by SIM	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP
Sample Number: SLCS62	Method: Semivolatiles by SIM	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.50		ug/L	0.50		1.0	Yes	S3VEM

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP
Sample Number: SLCS66	Method: Semivolatiles by SIM	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.37	J	ug/L	0.37	J	1.0	Yes	S3VEM

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP
Sample Number: VBLK7P	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-dichloropropene-d4	TIC	6.6	NJ	ug/L	6.6	NJ	1.0	Yes	NV

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP
Sample Number: VBLK7R	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-dichloropropene-d4	TIC	6.2	NJ	ug/L	6.2	NJ	1.0	Yes	NV

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP
Sample Number: VBLK7S	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.26	J	ug/L	0.26	J	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-dichloropropene-d4	TIC	6.9	NJ	ug/L	6.9	NJ	1.0	Yes	NV

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP
Sample Number: VBLK7U	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-dichloropropene-d4	TIC	7.2	NJ	ug/L	7.2	NJ	1.0	Yes	NV

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP
Sample Number: VBLK7X	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.25	J	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-dichloropropene-d4	TIC	6.5	NJ	ug/L	6.5	NJ	1.0	Yes	NV

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP
Sample Number: VBLK8M	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-dichloropropene-d4	TIC	6.5	NJ	ug/L	6.5	NJ	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP
Sample Number: VHBLK01	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-dichloropropene-d4	TIC	7.0	NJB	ug/L	7.0	NJB	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP

Sample Number: Y9XT5	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: SAIA-CPT14-60	pH:	Sample Date: 07/23/2015	Sample Time: 11:45:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.30	J	ug/L	0.30	J	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-dichloropropene-d4	TIC	7.7	NJ	ug/L	7.7	NJ	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No:	45436	Contract:	EPW14031	SDG No:	Y9XT5	Lab Code:	KAP
Sample Number:	Y9XT5	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	
Sample Location:	SAIA-CPT14-60	pH:		Sample Date:	07/23/2015	Sample Time:	11:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No:	45436	Contract:	EPW14031	SDG No:	Y9XT5	Lab Code:	KAP		
Sample Number:	Y9XT6	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:			
Sample Location:	SAIA-CPT14-76	pH:		Sample Date:	07/23/2015	Sample Time:	12:20:00		
% Moisture :				% Solids :					

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.37	J	ug/L	0.37	J	1.0	Yes	S3VEM

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP
Sample Number: Y9XT6	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: SAIA-CPT14-76	pH:	Sample Date: 07/23/2015	Sample Time: 12:20:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.26	J	ug/L	0.26	J	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	8.4		ug/L	8.4		1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	140		ug/L	140	D	10.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	3.1		ug/L	3.1		1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-dichloropropene-d4	TIC	5.8	NJ	ug/L	5.8	NJ	1.0	Yes	NV
Unknown-01	TIC	2.8	J	ug/L	2.8	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No:	45436	Contract:	EPW14031	SDG No:	Y9XT5	Lab Code:	KAP
Sample Number:	Y9XT7	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	
Sample Location:	SAIA-CPT14-75	pH:		Sample Date:	07/23/2015	Sample Time:	12:15:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP
Sample Number: Y9XT7	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: SAIA-CPT14-75	pH:	Sample Date: 07/23/2015	Sample Time: 12:15:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	7.1		ug/L	7.1		1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	130		ug/L	130	D	10.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	2.7		ug/L	2.7		1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-dichloropropene-d4	TIC	6.3	NJ	ug/L	6.3	NJ	1.0	Yes	NV
Unknown-01	TIC	1.7	J	ug/L	1.7	J	1.0	Yes	NV

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP
Sample Number: Y9XT8	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: SAIA-CPT14-90	pH:	Sample Date: 07/23/2015	Sample Time: 13:15:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Chloromethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Vinyl chloride	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Bromomethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Chloroethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Trichlorofluoromethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,1-Dichloroethene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Acetone	Target	25	U	ug/L	25	U	5.0	Yes	S3VEM
Carbon disulfide	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Methyl acetate	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Methylene chloride	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	36		ug/L	36		5.0	Yes	S3VEM
Methyl tert-butyl ether	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,1-Dichloroethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	440		ug/L	440	D	50.0	Yes	S3VEM
2-Butanone	Target	25	U	ug/L	25	U	5.0	Yes	S3VEM
Bromochloromethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Chloroform	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Cyclohexane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Carbon tetrachloride	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Benzene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,2-Dichloroethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Trichloroethene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Methylcyclohexane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,2-Dichloropropane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Bromodichloromethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	25	U	ug/L	25	U	5.0	Yes	S3VEM
Toluene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Tetrachloroethene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
2-Hexanone	Target	25	U	ug/L	25	U	5.0	Yes	S3VEM
Dibromochloromethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,2-Dibromoethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Chlorobenzene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Ethylbenzene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
o-Xylene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
m,p-Xylene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Styrene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Bromoform	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Isopropylbenzene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Unknown-01	TIC	11	J	ug/L	11	J	5.0	Yes	NV
cis-1,3-dichloropropene-d4	TIC	30	NJ	ug/L	30	NJ	5.0	Yes	NV
1,2,3-Trichloropropane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM

Case No:	45436	Contract:	EPW14031	SDG No:	Y9XT5	Lab Code:	KAP
Sample Number:	Y9XT8	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	
Sample Location:	SAIA-CPT14-90	pH:		Sample Date:	07/23/2015	Sample Time:	13:15:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP

Sample Number: Y9XW0	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: SAIA-CPT14-130	pH:	Sample Date: 07/23/2015	Sample Time: 14:05:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
Chloromethane	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
Bromomethane	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
Chloroethane	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
Acetone	Target	50	U	ug/L	50	U	10.0	Yes	S3VEM
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
Methyl acetate	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
Methylene chloride	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	33		ug/L	33		10.0	Yes	S3VEM
Methyl tert-butyl ether	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	770		ug/L	770	D	50.0	Yes	S3VEM
2-Butanone	Target	50	U	ug/L	50	U	10.0	Yes	S3VEM
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
Chloroform	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
Cyclohexane	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
Benzene	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
Trichloroethene	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
Methylcyclohexane	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	50	U	ug/L	50	U	10.0	Yes	S3VEM
Toluene	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
2-Hexanone	Target	50	U	ug/L	50	U	10.0	Yes	S3VEM
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
Ethylbenzene	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
o-Xylene	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
m,p-Xylene	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
Styrene	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
Bromoform	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
Isopropylbenzene	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
cis-1,3-dichloropropene-d4	TIC	65	NJ	ug/L	65	NJ	10.0	Yes	NV
1,2,3-Trichloropropane	Target	5.0	U	ug/L	5.0	U	10.0	Yes	S3VEM
Unknown-01	TIC	26	J	ug/L	26	J	10.0	Yes	NV

Case No:	45436	Contract:	EPW14031	SDG No:	Y9XT5	Lab Code:	KAP
Sample Number:	Y9XW0	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	
Sample Location:	SAIA-CPT14-130	pH:		Sample Date:	07/23/2015	Sample Time:	14:05:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.27	J	ug/L	0.27	J	1.0	Yes	S3VEM

Case No:	45436	Contract:	EPW14031	SDG No:	Y9XT5	Lab Code:	KAP
Sample Number:	Y9XW2	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	
Sample Location:	SAIA-CPT15-60	pH:		Sample Date:	07/28/2015	Sample Time:	09:25:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP
Sample Number: Y9XW2	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: SAIA-CPT15-60	pH:	Sample Date: 07/28/2015	Sample Time: 09:25:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-dichloropropene-d4	TIC	6.5	NJB	ug/L	6.5	NJB	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP
Sample Number: Y9XY7	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: SAIA-CPT19-45	pH:	Sample Date: 07/27/2015	Sample Time: 07:50:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.46	JB	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-dichloropropene-d4	TIC	7.9	NJB	ug/L	7.9	NJB	1.0	Yes	NV

Case No:	45436	Contract:	EPW14031	SDG No:	Y9XT5	Lab Code:	KAP
Sample Number:	Y9XY7	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	
Sample Location:	SAIA-CPT19-45	pH:		Sample Date:	07/27/2015	Sample Time:	07:50:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	1.6		ug/L	1.6		1.0	Yes	S3VEM

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP
Sample Number: Y9XY8	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: SAIA-CPT19-60	pH:	Sample Date: 07/24/2015	Sample Time: 09:50:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	6.7		ug/L	6.7		1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	20		ug/L	20		1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	1.2		ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-dichloropropene-d4	TIC	5.8	NJ	ug/L	5.8	NJ	1.0	Yes	NV
Unknown-01	TIC	4.4	J	ug/L	4.4	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No:	45436	Contract:	EPW14031	SDG No:	Y9XT5	Lab Code:	KAP
Sample Number:	Y9XY8	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	
Sample Location:	SAIA-CPT19-60	pH:		Sample Date:	07/24/2015	Sample Time:	09:50:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP

Sample Number: Y9XY9	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: SAIA-CPT19-75	pH:	Sample Date: 07/24/2015	Sample Time: 10:25:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	11		ug/L	11		1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	46		ug/L	46	D	10.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.52		ug/L	0.52		1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Unknown-01	TIC	3.0	J	ug/L	3.0	J	1.0	Yes	NV
cis-1,3-dichloropropene-d4	TIC	6.1	NJ	ug/L	6.1	NJ	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No:	45436	Contract:	EPW14031	SDG No:	Y9XT5	Lab Code:	KAP
Sample Number:	Y9XY9	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	
Sample Location:	SAIA-CPT19-75	pH:		Sample Date:	07/24/2015	Sample Time:	10:25:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP
Sample Number: Y9XY9MS	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date: 07/24/2015	Sample Time: 10:25:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Spike	4.4		ug/L	4.4		1.0	Yes	S3VEM
Benzene	Spike	5.3		ug/L	5.3		1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Spike	5.8		ug/L	5.8		1.0	Yes	S3VEM
Toluene	Spike	5.3		ug/L	5.3		1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Spike	4.8		ug/L	4.8		1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	10		ug/L	10		1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	48		ug/L	48	E	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP
Sample Number: Y9XY9MSD	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH:	Sample Date: 07/24/2015	Sample Time: 10:25:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,1-Dichloroethene	Spike	4.8		ug/L	4.8		1.0	Yes	S3VEM
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Spike	5.4		ug/L	5.4		1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Spike	5.9		ug/L	5.9		1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Toluene	Spike	5.9		ug/L	5.9		1.0	Yes	S3VEM
Chlorobenzene	Spike	5.3		ug/L	5.3		1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	11		ug/L	11		1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	53		ug/L	53	E	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP
Sample Number: Y9XZ0	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: SAIA-CPT19-90	pH:	Sample Date: 07/24/2015	Sample Time: 11:50:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	13		ug/L	13		1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	44		ug/L	44	D	10.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.26	J	ug/L	0.26	J	1.0	Yes	S3VEM
Trichloroethene	Target	1.1		ug/L	1.1		1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-dichloropropene-d4	TIC	7.2	NJ	ug/L	7.2	NJ	1.0	Yes	NV
Unknown-01	TIC	5.1	J	ug/L	5.1	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No:	45436	Contract:	EPW14031	SDG No:	Y9XT5	Lab Code:	KAP
Sample Number:	Y9XZ0	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	
Sample Location:	SAIA-CPT19-90	pH:		Sample Date:	07/24/2015	Sample Time:	11:50:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No:	45436	Contract:	EPW14031	SDG No:	Y9XT5	Lab Code:	KAP
Sample Number:	Y9XZ1	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	
Sample Location:	SAIA-CPT19-105	pH:		Sample Date:	07/24/2015	Sample Time:	12:40:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP
Sample Number: Y9XZ1	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: SAIA-CPT19-105	pH:	Sample Date: 07/24/2015	Sample Time: 12:40:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	3.6		ug/L	3.6		1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	46		ug/L	46	D	10.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	33		ug/L	33	D	10.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-dichloropropene-d4	TIC	4.5	NJ	ug/L	4.5	NJ	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP

Sample Number: Y9XZ2	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: SAIA-CPT19-130	pH:	Sample Date: 07/24/2015	Sample Time: 13:25:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Chloromethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Vinyl chloride	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Bromomethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Chloroethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Trichlorofluoromethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,1-Dichloroethene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Acetone	Target	25	U	ug/L	25	U	5.0	Yes	S3VEM
Carbon disulfide	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Methyl acetate	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Methylene chloride	Target	3.2	U	ug/L	3.2	B	5.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	26		ug/L	26		5.0	Yes	S3VEM
Methyl tert-butyl ether	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,1-Dichloroethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	530		ug/L	530	D	50.0	Yes	S3VEM
2-Butanone	Target	25	U	ug/L	25	U	5.0	Yes	S3VEM
Bromochloromethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Chloroform	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Cyclohexane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Carbon tetrachloride	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Benzene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,2-Dichloroethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Trichloroethene	Target	8.0		ug/L	8.0		5.0	Yes	S3VEM
Methylcyclohexane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,2-Dichloropropane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Bromodichloromethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	25	U	ug/L	25	U	5.0	Yes	S3VEM
Toluene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Tetrachloroethene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
2-Hexanone	Target	25	U	ug/L	25	U	5.0	Yes	S3VEM
Dibromochloromethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,2-Dibromoethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Chlorobenzene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Ethylbenzene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
o-Xylene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
m,p-Xylene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Styrene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Bromoform	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Isopropylbenzene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	2.5	U	ug/L	2.5	U	5.0	Yes	S3VEM
Unknown-01	TIC	15	J	ug/L	15	J	5.0	Yes	NV
cis-1,3-dichloropropene-d4	TIC	29	NJ	ug/L	29	NJ	5.0	Yes	NV

Case No:	45436	Contract:	EPW14031	SDG No:	Y9XT5	Lab Code:	KAP
Sample Number:	Y9XZ2	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	
Sample Location:	SAIA-CPT19-130	pH:		Sample Date:	07/24/2015	Sample Time:	13:25:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.87		ug/L	0.87		1.0	Yes	S3VEM

Case No:	45436	Contract:	EPW14031	SDG No:	Y9XT5	Lab Code:	KAP
Sample Number:	Y9XZ4	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	
Sample Location:	SAIA-CPT20-60	pH:		Sample Date:	07/27/2015	Sample Time:	10:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.62		ug/L	0.62		1.0	Yes	S3VEM

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP

Sample Number: Y9XZ4	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: SAIA-CPT20-60	pH:	Sample Date: 07/27/2015	Sample Time: 10:45:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.38	JB	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	2.0		ug/L	2.0		1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	9.5		ug/L	9.5		1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	1.5		ug/L	1.5		1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-dichloropropene-d4	TIC	5.3	NJB	ug/L	5.3	NJB	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No:	45436	Contract:	EPW14031	SDG No:	Y9XT5	Lab Code:	KAP		
Sample Number:	Y9XZ5	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:			
Sample Location:	SAIA-CPT20-75	pH:		Sample Date:	07/27/2015	Sample Time:	11:40:00		
% Moisture :				% Solids :					

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.35	J	ug/L	0.35	J	1.0	Yes	S3VEM

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP
Sample Number: Y9XZ5	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: SAIA-CPT20-75	pH:	Sample Date: 07/27/2015	Sample Time: 11:40:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	3.5		ug/L	3.5		1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	20		ug/L	20		1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	2.0		ug/L	2.0		1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-dichloropropene-d4	TIC	6.6	NJ	ug/L	6.6	NJ	1.0	Yes	NV

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP
Sample Number: Y9XZ6	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: SAIA-CPT20-76	pH:	Sample Date: 07/27/2015	Sample Time: 11:45:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	3.6		ug/L	3.6		1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.25	J	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	18		ug/L	18		1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	2.0		ug/L	2.0		1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-dichloropropene-d4	TIC	6.1	NJ	ug/L	6.1	NJ	1.0	Yes	NV

Case No:	45436	Contract:	EPW14031	SDG No:	Y9XT5	Lab Code:	KAP		
Sample Number:	Y9XZ6	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:			
Sample Location:	SAIA-CPT20-76	pH:		Sample Date:	07/27/2015	Sample Time:	11:45:00		
% Moisture :				% Solids :					

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.42	J	ug/L	0.42	J	1.0	Yes	S3VEM

Case No:	45436	Contract:	EPW14031	SDG No:	Y9XT5	Lab Code:	KAP
Sample Number:	Y9XZ8	Method:	Semivolatiles by SIM	Matrix:	Water	MA Number:	
Sample Location:	SAIA-CPT20-105	pH:		Sample Date:	07/27/2015	Sample Time:	12:45:00
% Moisture :				% Solids :			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP
Sample Number: Y9XZ8	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: SAIA-CPT20-105	pH:	Sample Date: 07/27/2015	Sample Time: 12:45:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	15	U	ug/L	15		1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.32	JB	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	1.2		ug/L	1.2		1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	7.5		ug/L	7.5		1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.55		ug/L	0.55		1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-dichloropropene-d4	TIC	7.3	NJB	ug/L	7.3	NJB	1.0	Yes	NV

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP
Sample Number: Y9XZ9	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: SAIA-CPT20-130	pH:	Sample Date: 07/27/2015	Sample Time: 13:45:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	7.5	U	ug/L	7.5		1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	7.6		ug/L	7.6		1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	45		ug/L	45	D	5.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.35	J	ug/L	0.35	J	1.0	Yes	S3VEM
Trichloroethene	Target	0.42	J	ug/L	0.42	J	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-dichloropropene-d4	TIC	6.6	NJ	ug/L	6.6	NJ	1.0	Yes	NV
Unknown-01	TIC	3.6	J	ug/L	3.6	J	1.0	Yes	NV
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP
Sample Number: Y9Y05	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: SAIA-RL01-0715	pH:	Sample Date: 07/23/2015	Sample Time: 11:20:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-dichloropropene-d4	TIC	6.9	NJB	ug/L	6.9	NJB	1.0	Yes	NV

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP
Sample Number: Y9Y06	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: SAIA-RL02-0715	pH:	Sample Date: 07/24/2015	Sample Time: 08:00:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-dichloropropene-d4	TIC	6.6	NJB	ug/L	6.6	NJB	1.0	Yes	NV

Case No: 45436	Contract: EPW14031	SDG No: Y9XT5	Lab Code: KAP
Sample Number: Y9Y07	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: SAIA-RL03-0715	pH:	Sample Date: 07/27/2015	Sample Time: 07:20:00
% Moisture :		% Solids :	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	11		ug/L	11		1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.37	J	ug/L	0.37	J	1.0	Yes	S3VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	Yes	S3VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromoethane	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzene	Target	0.50	UJ	ug/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,4-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
1,2,3-Trichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	Yes	S3VEM
cis-1,3-dichloropropene-d4	TIC	6.5	NJ	ug/L	6.5	NJ	1.0	Yes	NV
Unknown-01	TIC	4.2	J	ug/L	4.2	J	1.0	Yes	NV

Memorandum

To:	Karen Jurist, Remedial Project Manager Site Cleanup Section 3, SFD-7-3 USEPA Region 9
Through:	Joe Eidelberg, Chemist Quality Assurance Section, EMD-3-2 USEPA Region 9
From:	Kathy O'Brien, Project Manager KO ICF, Environmental Services Assistance Team (ESAT) Region 9
Date:	November 21, 2016
Re:	Review of Analytical Data, **Tier 3**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Southern Avenue Industrial Area
Site Account No.:	09 WS QB 00
Case No.:	46452
SDG No.:	YA813
Laboratory:	Eurofins Spectrum Analytical, Inc (EAS)
Analysis:	CLP 1,4-Dioxane by Semivolatile Selective Ion Monitoring (SIM)
Samples:	Four Groundwater Samples
Collection Date:	September 22, 2016
Reviewer:	Lisa Brooker, ESAT

EXES Data Manager has been updated with the results of this review and the validation label revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal.

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Vicki Maynard, CLP PO USEPA Region 1

CLP PO: [ ] FYI [X] Action

SAMPLING ISSUES: [ ] Yes [X] No

1337 South 46th Street, Building 201, Richmond, CA 94804 USA +1.510.412.2300 +1.510.412.2304 fax icf.com

Data Validation Report - **Tier 3**

Case No.: 46452
SDG No.: YA813
Site: Southern Avenue Industrial Area
Laboratory: Eurofins Spectrum Analytical, Inc (EAS)
Analysis: CLP 1,4-Dioxane by Semivolatile Selective Ion Monitoring (SIM)
Reviewer: Lisa Brooker, ESAT
Date: November 21, 2016

I. SDG SUMMARY

For Sample Information and Laboratory Quality Control (QC), refer to EXES National Functional Guidelines (NFG) data validation reports *Analytical Sample Listing* and *Organic Analytic Sequence*. EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal. The data qualifier definitions, as described in pages 6 and 7 of the National Functional Guidelines, are attached to this report.

Field QC

Field Blanks (FB):	None.
Equipment Blanks (EB):	None.
Background Samples (BG):	None.
Field Duplicates (D1):	YA815 and YA816.

CLP PO Action

Results for 1,4-dioxane in all samples are qualified as estimated (UJ) due to holding time exceedance (see Comment A).

Sampling Issues

None.

Additional Comments

Matrix spike/matrix spike duplicate (MS/MSD) analysis was not requested.

The laboratory performed manual peak integration for some sample chromatograms. Manual integrations were reviewed and found to be in compliance with CLP Statement of Work (SOW) requirements.

All standards and spiking solutions were analyzed before the expiration date.

This report was prepared in accordance with the following documents:

- *1,4-Dioxane Analysis with Lower CRQL*, Modified Analysis 2445.2, September 1, 2016;
- *USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.3, September 2015 and
- *USEPA National Functional Guidelines for Superfund Organic Methods Data Review*, August 2014.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.3, September 2015.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Data Completeness	Yes	
2	Holding Time/Preservation	No	A
3	GC/MS Instrument Performance Check	N/A	
4	Initial Calibration	Yes	
5	Continuing Calibration Verification (CCV)	Yes	
6	Laboratory Blanks	Yes	
7	Field/Equipment Blanks	N/A	
8	Deuterated Monitoring Compounds (DMCs)	Yes	
9	Matrix Spike/Matrix Spike Duplicates (MS/MSDs)	N/A	
10	Laboratory Control Sample (LCS)	Yes	
11	Internal Standards	Yes	
12	GPC Performance Check	N/A	
13	Compound Identification	Yes	
14	Compound Quantitation and Reported CRQLs	Yes	
15	System Performance	Yes	
16	Field Duplicate Sample Analysis	Yes	

N/A = Not Applicable.

III. VALIDITY AND COMMENTS

A. Results for the following analyte are qualified as estimated due to holding time exceedance and are flagged "UJ."

- 1,4-Dioxane in all samples.

The samples were extracted 19 days after collection, exceeding the 7-day technical holding time for water samples. The initial extraction was within holding time; however, the method blank and samples were spiked with the Laboratory Control Sample (LCS) solution instead of the Deuterated Monitoring Compounds (DMC) solution. The samples were re-extracted on October 11, 2016. Results from the re-extracted samples are reported in the SMO Portal.

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "National Functional Guidelines for Superfund Organic Methods Data Review," August 2014 (Table 1, pages 6 and 7).

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation Limit.

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

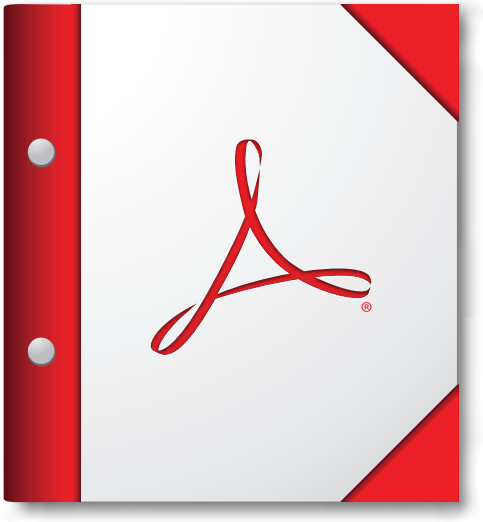
NJ The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the sample.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

C The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).

X The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed.



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Memorandum

To:	Karen Jurist, Remedial Project Manager Site Cleanup Section 3, SFD-7-3 USEPA Region 9
Through:	Joe Eidelberg, Chemist Quality Assurance Section, EMD-3-2 USEPA Region 9
From:	Kathy O'Brien, Project Manager KO ICF, Environmental Services Assistance Team (ESAT) Region 9 ESAT Contract No.: EP-W-13-029 Technical Direction No.: 10106166
Date:	June 30, 2017
Re:	Review of Analytical Data, **Tier 3**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Southern Avenue Industrial Area
Site Account No.:	09 WS QB 00
Case No.:	46891
SDG No.:	YAB14
Laboratory:	Chemtech Consulting Group (CHM)
Analysis:	CLP Low Level Volatiles
Samples:	20 Soil Samples
Collection Date:	April 25 and 26, 2017
Reviewer:	Lisa Brooker, ESAT

EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal.

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Richard Freitas, CLP COR USEPA Region 9
Kim Brandon-Bazile, CLP COR USEPA Region 2

CLP PO: [X] FYI [ ] Action

SAMPLING ISSUES: [ ] Yes [X] No

1337 South 46th Street, Building 201, Richmond, CA 94804 USA +1.510.412.2300 +1.510.412.2304 fax icf.com

Data Validation Report - **Tier 3**

Case No.: 46891
SDG No.: YAB14
Site: Southern Avenue Industrial Area
Laboratory: Chemtech Consulting Group (CHM)
Analysis: CLP Low Level Volatiles
Reviewer: Lisa Brooker, ESAT
Date: June 30, 2017

I. SDG SUMMARY

For Sample Information and Laboratory Quality Control (QC), refer to EXES National Functional Guidelines (NFG) data validation reports *Analytical Sample Listing* and *Organic Analytic Sequence*. EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal. The data qualifier definitions, as described in pages 6 and 7 of the National Functional Guidelines, are attached to this report.

Field QC

Field Blanks (FB):	None.
Equipment Blanks (EB):	YAB41 (in SDG YAB34).
Background Samples (BG):	None.
Field Duplicates (D1):	YAB18 and YAB19.
Field Duplicates (D2):	YAB27 and YAB28.

CLP PO Action

None.

Sampling Issues

None.

Additional Comments

The preparation logbook pages for solutions VP61244 and VP61247 and the mass spectra for the additional analyte in the initial calibration were missing from the data package. A Communication Record Log (CRL) was sent to the laboratory requesting the information. Data quality is not likely to be affected and this report is considered final.

Other than a laboratory artifact (retention time of 9.6 minutes), tentatively identified compounds (TICs) were not found in the samples.

The laboratory performed manual peak integration for some calibration and sample chromatograms. Manual integrations were reviewed and are in compliance with CLP Statement of Work (SOW) requirements.

This report was prepared in accordance with the following documents:

- *Addition of Analyte 1,2,3-Trichloropropane*, Modified Analysis 2750.0, March 23, 2017;
- *USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.4, October 2016; and
- *USEPA National Functional Guidelines for Superfund Organic Methods Data Review*, January 2017.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.4.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Data Completeness	Yes	
2	Preservation and Holding Times	Yes	
3	GC/MS Instrument Performance Check	Yes	
4	Initial Calibration	Yes	
5	Continuing Calibration Verification (CCV)	Yes	
6	Laboratory Blank	Yes	B
7	Field/Equipment Blanks	Yes	
8	Deuterated Monitoring Compound (DMC)	Yes	
9	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	Yes	
10	Internal Standard	No	C
11	Compound Identification	Yes	
12	Compound Quantitation and Reported CRQL	Yes	A
13	System Performance	Yes	
14	Field Duplicate Sample Analysis	Yes	

III. VALIDITY AND COMMENTS

A. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J." Results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

B. The following results are qualified as nondetected due to method blank and storage blank contamination and are flagged "U."

- Methylene chloride in all samples except YAB26 and YAB27.

Methylene chloride is present in method blanks VBLK07 (3.6 µg/kg) and VBLK08 (1.3 µg/kg) and in storage blank VHBLK01 (1.4 µg/kg). Results for methylene chloride that are less than or equal to the CRQL are qualified as non-detected at the CRQL.

C. Results for the following analytes are qualified as estimated due to low internal standard (IS) areas and are flagged "UJ."

{1,4-Dichlorobenzene-d4}
- Bromoform, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,2-dibromo-3-chloropropane, 1,2,4-trichlorobenzene, and 1,2,3-trichlorobenzene in sample YAB28.

The IS areas outside QC limits are shown below.

Sample	Internal Standard	Area	QC Limit
YAB28	1,4-Dichlorobenzene-d4	173603	182358-729432
YAB28RE	1,4-Dichlorobenzene-d4	131751	154793-619172

Since results are nondetected, false negatives may exist.

Sample YAB28 was reanalyzed and the reanalysis results are similar for the internal standard; however, recoveries for the deuterated monitoring compound 1,2-dichloropropane-d6 were outside the QC limit of 70-120% in original analysis (129%) but within the QC limit in the reanalysis (89%). Therefore, results from the reanalysis of sample YAB28 are reported in the EXES Data Manager.

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "National Functional Guidelines for Superfund Organic Methods Data Review," January 2017 (Table 1, pages 6 and 7).

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation Limit.

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

NJ The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the sample.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

C The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).

X The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed.

Memorandum

To:	Karen Jurist, Remedial Project Manager Site Cleanup Section 3, SFD-7-3 USEPA Region 9
Through:	Joe Eidelberg, Chemist Quality Assurance Section, EMD-3-2 USEPA Region 9
From:	Kathy O'Brien, Project Manager KO ICF, Environmental Services Assistance Team (ESAT) Region 9 ESAT Contract No.: EP-W-13-029 Technical Direction No.: 10106166
Date:	July 10, 2017
Re:	Review of Analytical Data, **Tier 3**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Southern Avenue Industrial Area
Site Account No.:	09 WS QB 00
Case No.:	46891
SDG No.:	YAB14
Laboratory:	Chemtech Consulting Group (CHM)
Analysis:	CLP Semivolatiles
Samples:	20 Soil Samples
Collection Date:	April 25 and 26, 2017
Reviewer:	Santiago Lee, ESAT

EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal.

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Richard Freitas, CLP COR USEPA Region 9
Kim Brandon-Bazile, CLP COR USEPA Region 2

CLP PO: [X] FYI [ ] Action

SAMPLING ISSUES: [ ] Yes [X] No

1337 South 46th Street, Building 201, Richmond, CA 94804 USA +1.510.412.2300 +1.510.412.2304 fax icf.com

Data Validation Report - **Tier 3**

Case No.: 46891
SDG No.: YAB14
Site: Southern Avenue Industrial Area
Laboratory: Chemtech Consulting Group (CHM)
Analysis: CLP Semivolatiles
Reviewer: Santiago Lee, ESAT
Date: July 10, 2017

I. SDG SUMMARY

For Sample Information and Laboratory Quality Control (QC), refer to EXES National Functional Guidelines (NFG) data validation reports *Analytical Sample Listing* and *Organic Analytic Sequence*. EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal. The data qualifier definitions, as described in pages 6 and 7 of the National Functional Guidelines, are attached to this report.

Field QC

Field Blanks (FB):	None.
Equipment Blanks (EB):	YAB41 (in SDG YAB34).
Background Samples (BG):	None.
Field Duplicates (D1):	YAB18 and YAB19.
Field Duplicates (D2):	YAB27 and YAB28.

CLP PO Action

None.

Sampling Issues

None.

Additional Comments

In addition to laboratory (retention times of 23.8, 25.8, 27.2, 28.7, and 30.7 minutes), tentatively identified compounds (TICs) were found in all field samples except samples YAB22 (see attached Form 1Bs).

The laboratory performed manual peak integration for some calibration and sample chromatograms. Manual integrations were reviewed and found to be in compliance with CLP Statement of Work (SOW) requirements.

This report was prepared in accordance with the following documents:

- *USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.4, October 2016, and
- *USEPA National Functional Guidelines for Superfund Organic Methods Data Review*, January 2017.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.4.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Data Completeness	Yes	
2	Preservation and Holding Times	Yes	
3	GC/MS Instrument Performance Check	Yes	
4	Initial Calibration	Yes	
5	Continuing Calibration Verification (CCV)	No	B
6	Laboratory Blank	Yes	
7	Field/Equipment Blanks	Yes	
8	Deuterated Monitoring Compound (DMC)	No	C
9	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	No	D
10	Laboratory Control Sample (LCS)	N/A	
11	GPC Performance Check	N/A	
12	Internal Standard	Yes	
13	Analyte Identification	Yes	
14	Analyte Quantitation and Reported CRQL	Yes	A
15	System Performance	Yes	
16	Field Duplicate Sample Analysis	Yes	

N/A = Not Applicable.

III. VALIDITY AND COMMENTS

A. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J." Results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

B. Results for the following analyte are qualified as estimated due to percent difference (%D) outside QC limit in a continuing calibration verification (CCV) and are flagged "UJ."

- Hexachlorocyclopentadiene in samples YAB14, YAB15, YAB21, YAB27, and YAB28.

The %D of -57.4% reported for hexachlorocyclopentadiene in 05/04/17 12:33 CCV exceeds the ±50.0% validation criterion for closing CCVs.

C. Results for the following analytes are qualified as estimated due to low DMC recoveries and are flagged "UJ."

{1,4 Dioxane-d8}
- 1,4-Dioxane in samples YAB22, YAB27, and YAB28.

{4,6-Dinitro-2-methylphenol-d2}
- 4,6-Dinitro-2-methylphenol in samples YAB15 and YAB27.

DMC recoveries for the qualifications listed above are shown below.

Sample	DMC	% Recovery	QC Limit
YAB22	1,4-Dioxane-d8	38	40-110
YAB27	1,4-Dioxane-d8	17	40-110
YAB28	1,4-Dioxane-d8	28	40-110
YAB15	4,6-Dinitro-2-methylphenol-d2	9	10-130
YAB27	4,6-Dinitro-2-methylphenol-d2	7	10-130

Since qualified results are nondetected, false negatives may exist. The samples listed above were not re-extracted.

The recovery for DMC 4-chloroaniline-d4 exceeds the QC limit of 1-145% in sample YAB31 (159%), indicating potential high bias in detected results; qualification is not necessary because the associated target analyte is not detected.

D. The relative percent differences (RPDs) for the following analytes in QC samples YAB17MS and YAB17MSD do not meet the criteria for precision specified in the SOW, as shown below.

Analyte	RPD, %	QC Limit, %
Phenol	43	35
N-Nitroso-di-n-propylamine	39	38
4-Chloro-3-methylphenol	43	33
Acenaphthene	35	19
4-Nitrophenol	61	50
Pentachlorophenol	63	47

These results may indicate poor laboratory technique or matrix effects which may interfere with analysis. This uncertainty should be evaluated in the context of project data quality objectives to determine data usability.

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "National Functional Guidelines for Superfund Organic Methods Data Review," January 2017 (Table 1, pages 6 and 7).

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation Limit.

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

NJ The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the sample.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

C The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).

X The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YAB14

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: 46891
Analytical Method : SVOA
Matrix : Soil
Sample wt/vol : 30.1 (g/mL): g
% Solids : 85.4
GC Column : ZB-GR ID : 0.25 (mm)
Extract Concentrated : (Y / N) Y
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N)
Purge Volume : (mL)
Cleanup Types : GPC
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: YAB14
Level : LOW
Lab Sample ID : I2871-01
Lab File ID : BM009886.D
Date Received : 04/26/2017
Date Extracted : 04/27/2017
Date Analyzed : 05/04/2017
Extract Volume : 500 (µL)
Extraction Type : SOXH
Injection Volume : 1.0 (µL)
pH : Dilution Factor : 1.0
Cleanup Factor : 2.0

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	~~1000351-76-3~~	~~Nonadecyl trifluoroacetate~~ Unknown	21.07	180	JX
2	E966796	Total Alkanes	N/A	>100	

SL 7/6/17

EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YAB15

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: 46891
Analytical Method : SVOA
Matrix : Soil
Sample wt/vol : 30.1 (g/mL): g
% Solids : 89.1
GC Column : ZB-GR ID : 0.25 (mm)
Extract Concentrated : (Y / N) Y
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N)
Purge Volume : (mL)
Cleanup Types : GPC
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: YAB14
Level : LOW
Lab Sample ID : I2871-02
Lab File ID : BM009892.D
Date Received : 04/26/2017
Date Extracted : 04/27/2017
Date Analyzed : 05/04/2017
Extract Volume : 500 (µL)
Extraction Type : SOXH
Injection Volume : 1.0 (µL)
pH : Dilution Factor : 1.0
Cleanup Factor : 2.0

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1		unknown-01	3.19	85	J
2	001576-69-8	Phenanthrene, 2,7-dimethyl-	19	210	JN
3	E966796	Total Alkanes	N/A	>1500	

SL, 7/6/17.

EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YAB16

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: 46891
Analytical Method : SVOA
Matrix : Soil
Sample wt/vol : 30.1 (g/mL): g
% Solids : 78.7
GC Column : ZB-GR ID : 0.25 (mm)
Extract Concentrated : (Y / N) Y
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N)
Purge Volume : (mL)
Cleanup Types : GPC
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: YAB14
Level : LOW
Lab Sample ID : I2871-03
Lab File ID : BG026849.D
Date Received : 04/26/2017
Date Extracted : 04/27/2017
Date Analyzed : 05/03/2017
Extract Volume : 500 (µL)
Extraction Type : SOXH
Injection Volume : 1.0 (µL)
pH : Dilution Factor : 1.0
Cleanup Factor : 2.0

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000057-10-3	n-Hexadecanoic acid	18.23	100	JN
2	E966796	Total Alkanes	N/A	~~550~~ 6.0	

SL, 6/8/17

EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YAB17

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: 46891
Analytical Method : SVOA
Matrix : Soil
Sample wt/vol : 30.0 (g/mL): g
% Solids : 83.5
GC Column : ZB-GR ID : 0.25 (mm)
Extract Concentrated : (Y / N) Y
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N)
Purge Volume : (mL)
Cleanup Types : GPC
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: YAB14
Level : LOW
Lab Sample ID : I2871-04
Lab File ID : BG026850.D
Date Received : 04/26/2017
Date Extracted : 04/27/2017
Date Analyzed : 05/03/2017
Extract Volume : 500 (µL)
Extraction Type : SOXH
Injection Volume : 1.0 (µL)
pH : Dilution Factor : 1.0
Cleanup Factor : 2.0

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000057-10-3	n-Hexadecanoic acid	18.23	100	JN
2	E966796	Total Alkanes	N/A	~~400~~ 0.2	

SL, 5/20/17

EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YAB18

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: 46891
Analytical Method : SVOA
Matrix : Soil
Sample wt/vol : 30.0 (g/mL): g
% Solids : 75.9
GC Column : ZB-GR ID : 0.25 (mm)
Extract Concentrated : (Y / N) Y
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N)
Purge Volume : (mL)
Cleanup Types : GPC
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: YAB14
Level : LOW
Lab Sample ID : I2871-07
Lab File ID : BG026853.D
Date Received : 04/26/2017
Date Extracted : 04/27/2017
Date Analyzed : 05/03/2017
Extract Volume : 500 (µL)
Extraction Type : SOXH
Injection Volume : 1.0 (µL)
pH : Dilution Factor : 1.0
Cleanup Factor : 2.0

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000057-10-3	n-Hexadecanoic acid	18.23	120	JN
2	E966796	Total Alkanes	N/A	~~290~~ 0.0	

SL, 6/20/17

EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YAB19

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: 46891
Analytical Method : SVOA
Matrix : Soil
Sample wt/vol : 30.1 (g/mL): g
% Solids : 84.2
GC Column : ZB-GR ID : 0.25 (mm)
Extract Concentrated : (Y / N) Y
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N)
Purge Volume : (mL)
Cleanup Types : GPC
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: YAB14
Level : LOW
Lab Sample ID : I2871-08
Lab File ID : BG026854.D
Date Received : 04/26/2017
Date Extracted : 04/27/2017
Date Analyzed : 05/03/2017
Extract Volume : 500 (µL)
Extraction Type : SOXH
Injection Volume : 1.0 (µL)
pH : Dilution Factor : 1.0
Cleanup Factor : 2.0

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000057-10-3	n-Hexadecanoic acid	18.23	120	JN
2	E966796	Total Alkanes	N/A	~~360~~ 80	

SL, 6/27/17

EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YAB20

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: 46891
Analytical Method : SVOA
Matrix : Soil
Sample wt/vol : 30.0 (g/mL): g
% Solids : 77.4
GC Column : ZB-GR ID : 0.25 (mm)
Extract Concentrated : (Y / N) Y
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N)
Purge Volume : (mL)
Cleanup Types : GPC
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: YAB14
Level : LOW
Lab Sample ID : I2871-09
Lab File ID : BG026855.D
Date Received : 04/26/2017
Date Extracted : 04/27/2017
Date Analyzed : 05/03/2017
Extract Volume : 500 (µL)
Extraction Type : SOXH
Injection Volume : 1.0 (µL)
pH : Dilution Factor : 1.0
Cleanup Factor : 2.0

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000057-10-3	n-Hexadecanoic acid	18.23	87	JN
2	E966796	Total Alkanes	N/A	~~96~~ 0.0	

SL, 6/29/17,

EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YAB21

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: 46891
Analytical Method : SVOA
Matrix : Soil
Sample wt/vol : 30.1 (g/mL): g
% Solids : 88.2
GC Column : ZB-GR ID : 0.25 (mm)
Extract Concentrated : (Y / N) Y
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N)
Purge Volume : (mL)
Cleanup Types : GPC
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: YAB14
Level : LOW
Lab Sample ID : I2871-10
Lab File ID : BM009887.D
Date Received : 04/26/2017
Date Extracted : 04/27/2017
Date Analyzed : 05/04/2017
Extract Volume : 500 (µL)
Extraction Type : SOXH
Injection Volume : 1.0 (µL)
pH : Dilution Factor : 1.0
Cleanup Factor : 2.0

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000781-92-0	Anthracene, 1,4-dimethyl-	18.99	76	JN
2	~~959085-66-6~~	~~Heptadecyl heptafluorobutyrate~~ Unknown	21.07	220	JN
3	E966796	Total Alkanes	N/A	>89	

SL, 7/6/17,

EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YAB23

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: 46891
Analytical Method : SVOA
Matrix : Soil
Sample wt/vol : 30.1 (g/mL): g
% Solids : 82
GC Column : ZB-GR ID : 0.25 (mm)
Extract Concentrated : (Y / N) Y
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N)
Purge Volume : (mL)
Cleanup Types : GPC
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: YAB14
Level : LOW
Lab Sample ID : I2871-12
Lab File ID : BG026868.D
Date Received : 04/26/2017
Date Extracted : 04/27/2017
Date Analyzed : 05/04/2017
Extract Volume : 500 (µL)
Extraction Type : SOXH
Injection Volume : 1.0 (µL)
pH : Dilution Factor : 1.0
Cleanup Factor : 2.0

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000057-10-3	n-Hexadecanoic acid	18.23	85	JN
2	E966796	Total Alkanes	N/A	~~360~~ 85	

SL, 4/5/17.

EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YAB24

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: 46891
Analytical Method : SVOA
Matrix : Soil
Sample wt/vol : 30.1 (g/mL): g
% Solids : 74.6
GC Column : ZB-GR ID : 0.25 (mm)
Extract Concentrated : (Y / N) Y
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N)
Purge Volume : (mL)
Cleanup Types : GPC
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: YAB14
Level : LOW
Lab Sample ID : I2871-13
Lab File ID : BG026857.D
Date Received : 04/26/2017
Date Extracted : 04/27/2017
Date Analyzed : 05/03/2017
Extract Volume : 500 (µL)
Extraction Type : SOXH
Injection Volume : 1.0 (µL)
pH : Dilution Factor : 1.0
Cleanup Factor : 2.0

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000057-10-3	n-Hexadecanoic acid	18.24	190	JN
2	E966796	Total Alkanes	N/A	~~540~~ 0.0	

SL, 5/30/17.

EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YAB25

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: 46891
Analytical Method : SVOA
Matrix : Soil
Sample wt/vol : 30.1 (g/mL): g
% Solids : 73.9
GC Column : ZB-GR ID : 0.25 (mm)
Extract Concentrated : (Y / N) Y
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N)
Purge Volume : (mL)
Cleanup Types : GPC
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: YAB14
Level : LOW
Lab Sample ID : I2871-14
Lab File ID : BG026856.D
Date Received : 04/26/2017
Date Extracted : 04/27/2017
Date Analyzed : 05/03/2017
Extract Volume : 500 (µL)
Extraction Type : SOXH
Injection Volume : 1.0 (µL)
pH : Dilution Factor : 1.0
Cleanup Factor : 2.0

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000057-10-3	n-Hexadecanoic acid	18.23	110	JN
2	E966796	Total Alkanes	N/A	~~210~~ 0.0	

SC, 6/28/17.

EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YAB26

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: 46891
Analytical Method : SVOA
Matrix : Soil
Sample wt/vol : 30.1 (g/mL): g
% Solids : 74.6
GC Column : ZB-GR ID : 0.25 (mm)
Extract Concentrated : (Y / N) Y
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N)
Purge Volume : (mL)
Cleanup Types : GPC
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: YAB14
Level : LOW
Lab Sample ID : 12871-15
Lab File ID : BG026861.D
Date Received : 04/26/2017
Date Extracted : 04/27/2017
Date Analyzed : 05/03/2017
Extract Volume : 500 (µL)
Extraction Type : SOXH
Injection Volume : 1.0 (µL)
pH : Dilution Factor : 1.0
Cleanup Factor : 2.0

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000544-63-8	Tetradecanoic acid	18.23	120	JN
2	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YAB27

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: 46891
Analytical Method : SVOA
Matrix : Soil
Sample wt/vol : 30.0 (g/mL): g
% Solids : 93.2
GC Column : ZB-GR ID : 0.25 (mm)
Extract Concentrated : (Y / N) Y
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N)
Purge Volume : (mL)
Cleanup Types : GPC
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: YAB14
Level : LOW
Lab Sample ID : I2871-17
Lab File ID : BM009888.D
Date Received : 04/27/2017
Date Extracted : 04/27/2017
Date Analyzed : 05/04/2017
Extract Volume : 500 (µL)
Extraction Type : SOXH
Injection Volume : 1.0 (µL)
pH : Dilution Factor : 1.0
Cleanup Factor : 2.0

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000781-43-1	9,10-Dimethylanthracene	19	110	JN
2	E966796	Total Alkanes	N/A	>560	

5L, 7/6/17

EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YAB28

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: 46891
Analytical Method : SVOA
Matrix : Soil
Sample wt/vol : 30.1 (g/mL): g
% Solids : 88
GC Column : ZB-GR ID : 0.25 (mm)
Extract Concentrated : (Y / N) Y
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N)
Purge Volume : (mL)
Cleanup Types : GPC
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: YAB14
Level : LOW
Lab Sample ID : I2871-18
Lab File ID : BM009889.D
Date Received : 04/27/2017
Date Extracted : 04/27/2017
Date Analyzed : 05/04/2017
Extract Volume : 500 (µL)
Extraction Type : SOXH
Injection Volume : 1.0 (µL)
pH : Dilution Factor : 1.0
Cleanup Factor : 2.0

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	~~866663-30-8~~	~~Bacchotricuneatin~~ → Hydrocarbon	16.98	130	JN
2	~~002789-88-0~~	~~di-p-Tolylacetylene~~ C3-Phenanthrene	19	120	JN
3	E966796	Total Alkanes	N/A	700	

SL 7/6/17.

EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YAB29

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: 46891
Analytical Method : SVOA
Matrix : Soil
Sample wt/vol : 30.1 (g/mL): g
% Solids : 89.7
GC Column : ZB-GR ID : 0.25 (mm)
Extract Concentrated : (Y / N) Y
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N)
Purge Volume : (mL)
Cleanup Types : GPC
Concentration Units (µg/L, mg/L, µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: YAB14
Level : LOW
Lab Sample ID : I2871-19
Lab File ID : BG026870.D
Date Received : 04/27/2017
Date Extracted : 04/27/2017
Date Analyzed : 05/04/2017
Extract Volume : 500 (µL)
Extraction Type : SOXH
Injection Volume : 1.0 (µL)
pH : Dilution Factor : 1.0
Cleanup Factor : 2.0

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000057-10-3	n-Hexadecanoic acid	18.23	89	JN
2	E966796	Total Alkanes	N/A	~~300~~ 89	

JC 6/30/17

EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YAB30

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: 46891
Analytical Method : SVOA
Matrix : Soil
Sample wt/vol : 30.1 (g/mL): g
% Solids : 85.2
GC Column : ZB-GR ID : 0.25 (mm)
Extract Concentrated : (Y / N) Y
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N)
Purge Volume : (mL)
Cleanup Types : GPC
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: YAB14
Level : LOW
Lab Sample ID : I2871-20
Lab File ID : BG026871.D
Date Received : 04/27/2017
Date Extracted : 04/27/2017
Date Analyzed : 05/04/2017
Extract Volume : 500 (µL)
Extraction Type : SOXH
Injection Volume : 1.0 (µL)
pH : Dilution Factor : 1.0
Cleanup Factor : 2.0

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000057-10-3	n-Hexadecanoic acid	18.23	180	JN
2	000057-11-4	Octadecanoic acid	19.5	87	JN
3	000481-21-0	Cholestane ($C_{27}H_{48}$)	24.07	80	JN
4		unknown-01	25.09	140	J
5	~~000563-30-2~~	~~Bacchotricuneatin c~~	~~25.03~~	~~97~~	~~JN~~
6		unknown-02	26.47	200	J
7		unknown-03	27.55	180	J
8	E966796	Total Alkanes	N/A	480	

SL, 7/6/17,

EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YAB31

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: 46891
Analytical Method : SVOA
Matrix : Soil
Sample wt/vol : 30.1 (g/mL): g
% Solids : 80
GC Column : ZB-GR ID : 0.25 (mm)
Extract Concentrated : (Y / N) Y
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N)
Purge Volume : (mL)
Cleanup Types : GPC
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: YAB14
Level : LOW
Lab Sample ID : I2871-21
Lab File ID : BG026858.D
Date Received : 04/27/2017
Date Extracted : 04/27/2017
Date Analyzed : 05/03/2017
Extract Volume : 500 (µL)
Extraction Type : SOXH
Injection Volume : 1.0 (µL)
pH : Dilution Factor : 1.0
Cleanup Factor : 2.0

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000057-10-3	n-Hexadecanoic acid	18.24	150	JN
2	E966796	Total Alkanes	N/A	~~620~~ 0.0	

SL, 6/2/17

EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
YAB32

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: 46891
Analytical Method : SVOA
Matrix : Soil
Sample wt/vol : 30.0 (g/mL): g
% Solids : 76.5
GC Column : ZB-GR ID : 0.25 (mm)
Extract Concentrated : (Y / N) Y
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N)
Purge Volume : (mL)
Cleanup Types : GPC
Concentration Units (µg/L,mg/L,µg/kg): µg/kg

Contract : EPW14030
MA No. : SDG No.: YAB14
Level : LOW
Lab Sample ID : I2871-22
Lab File ID : BG026859.D
Date Received : 04/27/2017
Date Extracted : 04/27/2017
Date Analyzed : 05/03/2017
Extract Volume : 500 (µL)
Extraction Type : SOXH
Injection Volume : 1.0 (µL)
pH : Dilution Factor : 1.0
Cleanup Factor : 2.0

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000057-10-3	n-Hexadecanoic acid	18.24	170	JN
2		unknown-01	21.43	91	J
3	E966796	Total Alkanes	N/A	~~290~~ 0.0	

SL, 6/01/17,

EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

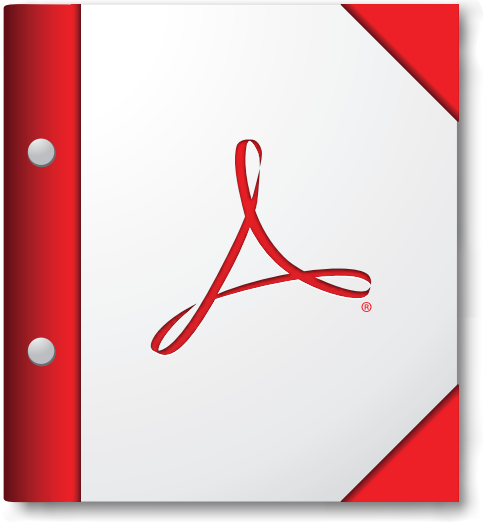
EPA SAMPLE NO.
YAB33

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: 46891
MA No. : SDG No.: YAB14
Analytical Method : SVOA
Level : LOW
Matrix : Soil
Lab Sample ID : I2871-23
Sample wt/vol : 30.1 (g/mL): g
Lab File ID : BG026860.D
% Solids : 78.7
Date Received : 04/27/2017
GC Column : ZB-GR ID : 0.25 (mm)
Date Extracted : 04/27/2017
Extract Concentrated : (Y / N) Y
Date Analyzed : 05/03/2017
Soil Aliquot (VOA) : (µL)
Extract Volume : 500 (µL)
Heated Purge : (Y / N)
Extraction Type : SOXH
Purge Volume : (mL)
Injection Volume : 1.0 (µL)
Cleanup Types : GPC
pH : Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/kg
Cleanup Factor : 2.0

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000057-10-3	n-Hexadecanoic acid	18.24	130	JN
2	000057-11-4	Octadecanoic acid	19.5	160	JN
3	E966796	Total Alkanes	N/A	~~100~~ 80	

SV 6/30/17

EPA-designated Registry Number.



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Memorandum

To:	Karen Jurist, Remedial Project Manager Site Cleanup Section 3, SFD-7-3 USEPA Region 9
Through:	Joe Eidelberg, Chemist Quality Assurance Section, EMD-3-2 USEPA Region 9
From:	Kathy O'Brien, Project Manager ICF, Environmental Services Assistance Team (ESAT) Region 9 ESAT Contract No.: EP-W-13-029 Technical Direction No.: 10106166
Date:	June 30, 2017
Re:	Review of Analytical Data, **Tier 3**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Southern Avenue Industrial Area
Site Account No.:	09 WS QB 00
Case No.:	46891
SDG No.:	YAB14
Laboratory:	Chemtech Consulting Group (CHM)
Analysis:	CLP Aroclors
Samples:	20 Soil Samples
Collection Date:	April 25 and 26, 2017
Reviewer:	Santiago Lee, ESAT

EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal.

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Richard Freitas, CLP COR USEPA Region 9
Kim Brandon-Bazile, CLP COR USEPA Region 2

CLP PO: [X] FYI [ ] Action

SAMPLING ISSUES: [ ] Yes [X] No

1337 South 46th Street, Building 201, Richmond, CA 94804 USA +1.510.412.2300 +1.510.412.2304 fax icf.com

Data Validation Report - **Tier 3**

Case No.: 46891
SDG No.: YAB14
Site: Southern Avenue Industrial Area
Laboratory: Chemtech Consulting Group (CHM)
Analysis: CLP Aroclors
Reviewer: Santiago Lee, ESAT
Date: June 30, 2017

I. SDG SUMMARY

For Sample Information and Laboratory Quality Control (QC), refer to EXES National Functional Guidelines (NFG) data validation reports *Analytical Sample Listing* and *Organic Analytic Sequence*. EXES Data Manager has been updated with the results of this review and the validation level revised to S3VEM; the dynamic deliverables were regenerated and are available on the SMO Portal. The data qualifier definitions, as described in pages 6 and 7 of the National Functional Guidelines, are attached to this report.

Field QC

Field Blanks (FB):	None.
Equipment Blanks (EB):	YAB41 (in SDG YAB34).
Background Samples (BG):	None.
Field Duplicates (D1):	YAB18 and YAB19.
Field Duplicates (D2):	YAB27 and YAB28.

CLP PO Action

None.

Sampling Issues

None.

Additional Comments

The laboratory performed manual peak integration for some calibration and sample chromatograms. Manual integrations were reviewed and found to be in compliance with CLP Statement of Work (SOW) requirements.

All standards and spiking solutions were analyzed before the expiration date.

This report was prepared in accordance with the following documents:

- *USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.4, October 2016 and
- *USEPA National Functional Guidelines for Superfund Organic Methods Data Review*, January 2017.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Superfund Methods, Multi-Media, Multi-Concentration*, SOM02.4.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Data Completeness	Yes	
2	Preservation and Holding Times	Yes	
3	Initial Calibration	Yes	
4	Continuing Calibration Verification (CCV)	Yes	
5	Laboratory Blank	Yes	
6	Field/Equipment Blanks	Yes	
7	Surrogate	Yes	
8	Matrix Spike/Matrix Spike Duplicate (MS/MSD)	Yes	
9	Laboratory Control Sample (LCS)	Yes	
10	GPC Performance Check	N/A	
11	Target Analyte Identification	Yes	
12	GC/MS Confirmation	N/A	
13	Target Analyte Quantitation and Reported CRQL	No	A, B
14	System Performance	Yes	
15	Field Duplicate Sample Analysis	Yes	

N/A = Not Applicable.

III. VALIDITY AND COMMENTS

A. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J." Results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

B. Results for the following analyte are qualified as estimated due to large percent differences (%Ds) between concentrations on GC columns and are flagged "J."

- Aroclor-1260 in samples YAB15, YAB21, YAB27, and YAB28.

The following %D values exceed the less than 25.0% validation criterion. The lower concentrations are reported in accordance with the Statement of Work.

Analyte	Sample	ZB-MR1 Column Concentration, µg//kg	ZB-MR2 Column Concentration, µg//kg	%D
Aroclor-1260	YAB15	8.8	4.5	97.0%
Aroclor-1260	YAB21	38	23	65.4%
Aroclor-1260	YAB27	11	8.0	33.6%
Aroclor-1260	YAB28	27	13	105.8%

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "National Functional Guidelines for Superfund Organic Methods Data Review," January 2017 (Table 1, pages 6 and 7).

U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation Limit.

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

NJ The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the sample.

UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

C The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).

X The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed.

ICF International
Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300 Fax: (510) 412-2304

MEMORANDUM

TO: Karen Jurist, Remedial Project Manager
US Environmental Protection Agency (USEPA)
Site Cleanup Section 3, SFD-7-3

THROUGH: Joe Eidelberg, Chemist
USEPA
Quality Assurance (QA) Program, MTS-3

Joseph Eidelberg
Digitally Signed

FROM: Kathy O'Brien, Data Review Task Manager
Region 9 Environmental Services Assistance Team (ESAT)

ESAT Contract No.: EP-W-13-029
Technical Direction Form No.: 10106031

DATE: July 2, 2014

SUBJECT: Review of Analytical Data, **Tier 2**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Southern Avenue Industrial Area
Site Account No.:	09 WS QB 00
CERCLIS ID No.:	CAN000905902
Case No.:	44217
SDG No.:	MY9DP1
Laboratory:	Chemtech Consulting Group (CHEM)
Analysis:	CLP Metals by ICP-AES, ICP-MS, Mercury, and Cyanide
Samples:	18 Ground Water Samples
Collection Date:	March 26 and 27, 2014
Reviewer:	Dina Bailey, ESAT

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Kim Brandon-Bazile, CLP PO USEPA Region 2
Steve Remaley, CLP PO USEPA Region 9
Richard Bauer, EPA COR for ESAT Region 9

CLP PO: [X] FYI [ ] Action

SAMPLING ISSUES: [X] Yes [ ] No

Data Validation Report – **Tier 2**

Case No.: 44217
SDG No.: MY9DP1
Site: Southern Avenue Industrial Area
Laboratory: Chemtech Consulting Group (CHEM)
Reviewer: Dina Bailey, ESAT
Date: July 2, 2014

As directed by the Contracting Officer Representative (COR), a Tier 2 data review was performed. The review consisted of a Tier 3 level review for samples MY9DP4, MY9DQ5, MY9DQ9, MY9DS5, and associated field QC samples. For the remaining samples, the reviewer checked the SDG narrative for QC issues, confirmed EXES qualifiers, and added calibration qualifiers as necessary.

I. SDG SUMMARY

For Sample Information and Laboratory QC, refer to EXES National Functional Guideline Report #03, *Analytical Sample Listing*.

Field QC

Field Blanks (FB):	None Provided
Equipment Blanks (EB):	**MY9DS7 and MY9DS8**
Background Samples (BG):	None Provided
Field Duplicates (D1):	MY9DP1 and MY9DP2
Field Duplicates (D2):	**MY9DS4 and MY9DS5**

Tables

1A:	Analytical Results with Qualifications
1B:	Data Qualifier Definitions for Inorganic Data Review

CLP PO Action

None.

Sampling Issues

Equipment blank MY9DS7 has contamination above the CRQL for chromium (2.8 ug/L), manganese (4.0 ug/L), nickel (15.7 ug/L), and zinc (3.1 ug/L). Equipment blank MY9DS8 has contamination above the CRQL for chromium (2.8 ug/L), nickel (1.5 ug/L), and zinc (4.1 ug/L) (see Comment C).

Tier 2 Review Comments

EXES preservation qualification
Cyanide nondetected results in samples MY9DQ6 and MY9DQ7 should not be qualified with R-flag (as rejected) since the chain-of-custody records (COCs) and the laboratory preparation logs indicate adequate sample preservation to a pH greater than 12. ESAT replaced the R-flags with "U" (presented in italics) in Table 1A.

EXES blank qualification (forms review only)
Results listed below should not be qualified as nondetected because the analytes were not found in the associated blanks. Table 1A has been revised as follows (revisions in the table are presented in italics):

Analyte	Sample	Result, ug/L	Flag (see Comment A)
Aluminum	PBW04	0.604	J
Copper	MY9DP1	1.4	J
	MY9DP6	2.4	J
	MY9DQ4	2.4	J
	MY9DQ6	2.0	J
	MY9DQ7	2.3	J
	MY9DQ8	2.4	J
	MY9DR0	2.0	J
Selenium	MY9DP1	2.3	J
	MY9DP2	1.6	J
	MY9DP3	1.7	J
	MY9DQ7	0.99	J
	MY9DQ8	0.60	J
	MY9DR0	1.1	J
Thallium	MY9DP5	0.080	J
	MY9DQ7	0.082	J

EXES calibration qualification (forms review only)
All calibration criteria for Forms 2, 14, and 16 were met; no data were qualified by EXES.

SDG Narrative
The following data quality issues are indicated by the SDG Narrative:
1. Matrix spike recovery for antimony is outside control limit (see Comment D).
2. Serial dilution results for potassium and vanadium are outside control limit (see comment E).

The SDG narrative indicates that cooler temperature indicator bottles were absent; however, Form DC-1 indicates they were present in the coolers received on 03/27/14 and 03/28/14.

Additional Comments

The samples in SDG MY9DP1 were analyzed for CLP metals. Calcium, iron, magnesium, potassium, and sodium were analyzed by Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES). Aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, manganese, nickel, selenium, silver, thallium, vanadium, and zinc were analyzed by Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS). Mercury was analyzed by Cold Vapor Atomic Absorption (CVAA). Cyanide was analyzed by midi-distillation and spectrophotometry. The COCs indicate that cyanide was not requested for samples MY9DP3, MY9DQ1, and MY9DQ4.

The internal standard (IS) scandium-45 relative intensity (RI) for samples MY9DP4 (144%), MY9DQ5 (146%), MY9DQ9 (131%), and MY9DS4 (127%) exceeded the control limit of 60%-125%. These samples were re-analyzed at a 2-fold dilution as required by the SOW and the RIs are within control limit. Results for aluminum, arsenic, beryllium, chromium, cobalt, copper, manganese, nickel, selenium, vanadium, and zinc in

MY9DP4, MY9DQ5, MY9DQ9, and MY9DS4 are reported from the 2-fold dilution.

Sample MY9DS5 was diluted at 25-fold due to a high concentration of manganese that exceeds the calibration range. The CRQL for manganese in MY9DS5 is increased by a factor of 25 to reflect dilution.

All method requirements specified in the EPA Contract Laboratory Program (CLP) Inorganic Statement of Work (SOW), except as noted, have been met.

This report was prepared in accordance with the following documents:

- *USEPA Contract Laboratory Program Statement of Work for Inorganic Superfund Methods (Multi-Media, Multi-Concentration)* ISM01.2, January 2010;
- *Modifications Updating ISM01.2 to ISM01.3*; and
- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, January 2010.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Inorganic Superfund Methods (Multi-Media, Multi-Concentration)* ISM01.3.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1.	Data Completeness	Yes	
2.	Preservation and Holding Times	Yes	
3.	ICP-MS Tune Analysis	Yes	
4.	Calibration	Yes	
	a. Initial	Yes	
	b. Initial and Continuing Calibration Verification	Yes	
5.	Blanks	No	B,C
6.	ICP Interference Check Sample (ICS)	Yes	
7.	Laboratory Control Sample (LCS)	Yes	
8.	Duplicate Sample Analysis	Yes	
9.	Spike Sample Analysis	No	D
10.	ICP Serial Dilution	No	E
11.	ICP-MS Internal Standards	Yes	
12.	Field Duplicate Sample Analysis	No	F
13.	Sample Quantitation	Yes	A
14.	Overall Assessment	Yes	

III. VALIDITY AND COMMENTS

A. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J" in Table 1A. Results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

B. The following results are qualified as non-detected (U) in Table 1A due to low level initial calibration blank (ICB), continuing calibration blank (CCB), and preparation

blank (PB) contamination.

- Aluminum in equipment blanks MY9DS7 and MY9DS8;
- Antimony in samples MY9DP4, MY9DQ5, MY9DQ9, MY9DS4, and MY9DS5;
- Iron in preparation blank PBW01;
- Mercury in sample MY9DP4 and in preparation blank PBW02;
- Potassium in sample MY9DQ9 and in preparation blank PBW01;
- Selenium in sample MY9DP4;
- Sodium in equipment blank MY9DS8; and
- Cyanide in samples MY9DP4, MY9DQ5, MY9DQ9, and MY9DS4 and equipment blank MY9DS8.

Analyte amounts greater than the MDL but less than the CRQL were found in the following blanks at the concentrations listed below.

Analyte	Blank	Concentration, µg/L
Aluminum	CCB47/CCB49/CCB50/PBW04	0.448/0.491/0.460/0.604
Antimony	ICB29/CCB45/CCB46/CCB47	0.070/0.062/0.056/0.077
	CCB48/CCB49/CCB50	0.072/0.074/0.075
Iron	ICB43/CCB79	13.3/18.4
Mercury	ICB39/CCB18/CCB19	0.025/0.037/0.041
Potassium	ICB43/CCB79/CCB80/CCB81	219/281/691/957
Selenium	CCB59	0.248
Sodium	CCB79	256
Cyanide	ICB01	3.149

Sample results that are greater than or equal to the MDL but less than or equal to the CRQL are reported as non-detected (U) at the respective CRQL.

C. The following results are qualified as estimated and flagged "J+" in Table 1A due to equipment blank (EB) contamination.

- Chromium, nickel, and zinc in samples MY9DQ5, MY9DQ9, MY9DS4, and MY9DS5.

Analyte amounts greater than the CRQL were found in the following equipment blanks at the concentrations presented below.

Analyte	Equipment Blank	Concentration, µg/L
Chromium	MY9DS7 and MY9DS8	2.8 and 2.8
Nickel	MY9DS7 and MY9DS8	15.7 and 1.5
Zinc	MY9DS7 and MY9DS8	3.1 and 4.1

For other field samples in this SDG, chromium, nickel and zinc results that are greater than the CRQL but less than 10 times the blank result should be qualified as "J+".

D. The following results are estimated and flagged "UJ" in Table 1A because matrix spike recovery is outside method QC limit.

- Antimony in samples MY9DP4, MY9DQ5, MY9DQ9, MY9DS4, and MY9DS5.

Matrix spike recovery for antimony in QC sample MY9DP4S does not meet the 75-125% criterion for accuracy as listed below.

Analyte	% Recovery
Antimony	63

Results for antimony in the samples listed above are considered quantitatively uncertain.

The following post-digestion spike recovery was reported for antimony in QC sample MY9DP4A.

Analyte	Post-Digestion Spike, % Recovery
Antimony	103

Since the antimony post-digestion spike recovery is acceptable, the unacceptable pre-digestion spike recovery may indicate poor laboratory technique or matrix effects which may interfere with the analysis.

Antimony results for other field samples in this SDG should be qualified as estimated based on low matrix spike recovery.

E. The following results are estimated and flagged "J" or "UJ" in Table 1A because serial dilution results are outside method QC limit.

- Potassium and vanadium in samples MY9DP4, MY9DQ5, MY9DQ9, MY9DS4, and MY9DS5.

Percent differences for serial dilution analysis of MY9DP4L do not meet the ±10% difference criterion for the analytes presented below.

Analyte	% Difference
Potassium	16
Vanadium	31

Results for potassium and vanadium in the samples listed above are considered quantitatively uncertain. Chemical and physical interferences may exist due to sample matrix effects.

Potassium and vanadium results for other field samples in this SDG should be qualified as estimated based on the serial dilution percent difference.

F. The following field duplicate results do not meet the ±20% relative percent difference (RPD) criterion for precision as shown below.

MY9DS4 and MY9DS5 (D2)

Analyte	RPD
Aluminum	102
Barium	38
Iron	106
Nickel	95
Zinc	60

Results for the field duplicate pairs do not meet the absolute difference ≤CRQL criterion for precision as listed below.

Analyte	MY9DS4 (D2), µg/L	MY9DS5 (D2), µg/L	Difference, µg/L	CRQL, µg/L
Arsenic	4.7	3.3	1.4	1.0
Chromium	12.2	3.2	9.0	2.0
Copper	4.9	2.3	2.6	2.0

The effect on data quality is not known.

Lab Chemtech Consulting Group (CHEM) **SDG** MY9DP1 **Case** 44217 **Site** Southern Avenue Industrial Area **SOW** ISM01.3 Metals by ICP-AES & ICP-MS, Mercury, and Cyanide

Sample No:	MY9DP1 D1				MY9DP2 D1				MY9DP3				**MY9DP4**			
Sample Location:	MW34-0314				MW934-0314				MW35-0314				**MW42-0314**			
Sample Type:	Field_Sample				Field_Sample				Field_Sample				**Field_Sample**			
Matrix/Level:	Water/Low				Water/Low				Water/Low				**Water/Low**			
%Solids																
Units :	ug/L				ug/L				ug/L				**ug/L**			
Compound	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**
Aluminum	20.0	U		ICP_MS	20.0	U		ICP_MS	79.8			ICP_MS	**31300**			**ICP_MS**
Antimony	2.0	UJ		ICP_MS	2.0	UJ		ICP_MS	2.0	UJ		ICP_MS	**2.0**	**UJ**	**B,D**	**ICP_MS**
Arsenic	100			ICP_MS	102			ICP_MS	22.5			ICP_MS	**78.3**			**ICP_MS**
Barium	52.6			ICP_MS	54.6			ICP_MS	28.9			ICP_MS	**457**			**ICP_MS**
Beryllium	1.0	U		ICP_MS	1.0	U		ICP_MS	1.0	U		ICP_MS	**0.75**	**J**	**A**	**ICP_MS**
Cadmium	1.0	U		ICP_MS	1.0	U		ICP_MS	1.3			ICP_MS	**1.3**			**ICP_MS**
Calcium	126000			ICP_AES	126000			ICP_AES	580000			ICP_AES	**210000**			**ICP_AES**
Chromium	7.5			ICP_MS	5.0			ICP_MS	5.2			ICP_MS	**79.1**			**ICP_MS**
Cobalt	11.3			ICP_MS	11.5			ICP_MS	48.7			ICP_MS	**43.9**			**ICP_MS**
Copper	*1.4*	*J*		ICP_MS	2.7			ICP_MS	2.9			ICP_MS	**57.5**			**ICP_MS**
Iron	1340			ICP_AES	1250			ICP_AES	4340			ICP_AES	**58100**			**ICP_AES**
Lead	0.64	J		ICP_MS	0.62	J		ICP_MS	1.3			ICP_MS	**20.3**			**ICP_MS**
Magnesium	40300			ICP_AES	40500			ICP_AES	214000			ICP_AES	**75500**			**ICP_AES**
Manganese	816			ICP_MS	844			ICP_MS	4340			ICP_MS	**2120**			**ICP_MS**
Mercury	0.20	U		Hg	0.20	U		Hg	0.20	U		Hg	**0.20**	**U**	**B**	**Hg**
Nickel	4.3			ICP_MS	3.9			ICP_MS	5.0			ICP_MS	**73.4**			**ICP_MS**
Potassium	5000	UJ		ICP_AES	5000	UJ		ICP_AES	7670	J		ICP_AES	**11700**	**J**	**E**	**ICP_AES**
Selenium	*2.3*	*J*		ICP_MS	*1.6*	*J*		ICP_MS	*1.7*	*J*		ICP_MS	**10.0**	**U**	**B**	**ICP_MS**
Silver	0.060	J		ICP_MS	0.073	J		ICP_MS	0.12	J		ICP_MS	**0.14**	**J**	**A**	**ICP_MS**
Sodium	374000			ICP_AES	373000			ICP_AES	842000			ICP_AES	**221000**			**ICP_AES**
Thallium	1.0	U		ICP_MS	1.0	U		ICP_MS	1.0	U		ICP_MS	**0.23**	**J**	**A**	**ICP_MS**
Vanadium	5.0	UJ		ICP_MS	5.0	UJ		ICP_MS	5.0	UJ		ICP_MS	**53.5**	**J**	**E**	**ICP_MS**
Zinc	5.4			ICP_MS	6.2			ICP_MS	17.2			ICP_MS	**157**			**ICP_MS**
Cyanide	10.0	U		CN	10.0	U		CN	N/A				**10.0**	**U**	**B**	**CN**

Lab Chemtech Consulting Group (CHEM) **SDG** MY9DP1 **Case** 44217 **Site** Southern Avenue Industrial Area **SOW** ISM01.3 Metals by ICP-AES & ICP-MS, Mercury, and Cyanide

Sample No:	MY9DP5				MY9DP6				MY9DQ1				MY9DQ4			
Sample Location:	MW43-0314				MW44-0314				MW49-0314				MW56-0314			
Sample Type:	Field_Sample				Field_Sample				Field_Sample				Field_Sample			
Matrix/Level:	Water/Low				Water/Low				Water/Low				Water/Low			
% Solids																
Units :	ug/L				ug/L				ug/L				ug/L			
Compound	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**
Aluminum	1150			ICP_MS	136			ICP_MS	618			ICP_MS	407			ICP_MS
Antimony	2.0	UJ		ICP_MS	2.0	UJ		ICP_MS	2.0	UJ		ICP_MS	2.0	UJ		ICP_MS
Arsenic	31.2			ICP_MS	31.6			ICP_MS	66.5			ICP_MS	24.2			ICP_MS
Barium	46.2			ICP_MS	23.8			ICP_MS	37.6			ICP_MS	80.5			ICP_MS
Beryllium	2.0	U		ICP_MS	2.0	U		ICP_MS	2.0	U		ICP_MS	2.0	U		ICP_MS
Cadmium	0.38	J		ICP_MS	1.0	U		ICP_MS	0.12	J		ICP_MS	1.0	U		ICP_MS
Calcium	457000			ICP_AES	493000			ICP_AES	433000			ICP_AES	178000			ICP_AES
Chromium	24.7			ICP_MS	9.5			ICP_MS	67.9			ICP_MS	4.9			ICP_MS
Cobalt	40.1			ICP_MS	44.3			ICP_MS	43.4			ICP_MS	15.3			ICP_MS
Copper	5.6			ICP_MS	*2.4*	*J*		ICP_MS	8.2			ICP_MS	*2.4*	*J*		ICP_MS
Iron	4780			ICP_AES	4860			ICP_AES	5640			ICP_AES	1870			ICP_AES
Lead	1.3			ICP_MS	0.37	J		ICP_MS	0.69	J		ICP_MS	0.73	J		ICP_MS
Magnesium	167000			ICP_AES	204000			ICP_AES	177000			ICP_AES	43000			ICP_AES
Manganese	3830			ICP_MS	4330			ICP_MS	3930			ICP_MS	1350			ICP_MS
Mercury	0.20	U		Hg	0.20	U		Hg	0.20	U		Hg	0.20	U		Hg
Nickel	20.0			ICP_MS	7.2			ICP_MS	145			ICP_MS	4.5			ICP_MS
Potassium	5710	J		ICP_AES	7170	J		ICP_AES	9470	J		ICP_AES	5000	UJ		ICP_AES
Selenium	10.0	U		ICP_MS	10.0	U		ICP_MS	10.0	U		ICP_MS	10.0	U		ICP_MS
Silver	0.096	J		ICP_MS	0.10	J		ICP_MS	0.14	J		ICP_MS	1.0	U		ICP_MS
Sodium	673000			ICP_AES	909000			ICP_AES	754000			ICP_AES	190000			ICP_AES
Thallium	*0.080*	*J*		ICP_MS	1.0	U		ICP_MS	1.0	U		ICP_MS	1.0	U		ICP_MS
Vanadium	10.0	UJ		ICP_MS	10.0	UJ		ICP_MS	10.0	UJ		ICP_MS	10.0	UJ		ICP_MS
Zinc	10.9			ICP_MS	11.1			ICP_MS	10.8			ICP_MS	6.7			ICP_MS
Cyanide	10.0	U		CN	10.0	U		CN	N/A				N/A			

Lab Chemtech Consulting Group (CHEM) **SDG** MY9DP1 **Case** 44217 **Site** Southern Avenue Industrial Area **SOW** ISM01.3 Metals by ICP-AES & ICP-MS, Mercury, and Cyanide

Sample No:	**MY9DQ5**				MY9DQ6				MY9DQ7				MY9DQ8			
Sample Location:	**SAIA-MW1A-0314**				SAIA-MW1B-0314				SAIA-MW1C-0314				SAIA-MW2A-0314			
Sample Type:	**Field_Sample**				Field_Sample				Field_Sample				Field_Sample			
Matrix/Level:	**Water/Low**				Water/Low				Water/Low				Water/Low			
% Solids																
Units :	**ug/L**				ug/L				ug/L				ug/L			
Compound	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**
Aluminum	**1330**			**ICP_MS**	366			ICP_MS	176			ICP_MS	349			ICP_MS
Antimony	**2.0**	**UJ**	**B,D**	**ICP_MS**	2.0	UJ		ICP_MS	2.0	UJ		ICP_MS	2.0	UJ		ICP_MS
Arsenic	**16.1**			**ICP_MS**	23.8			ICP_MS	7.4			ICP_MS	29.6			ICP_MS
Barium	**95.1**			**ICP_MS**	67.4			ICP_MS	37.0			ICP_MS	129			ICP_MS
Beryllium	**2.0**	**U**		**ICP_MS**	2.0	U		ICP_MS	2.0	U		ICP_MS	2.0	U		ICP_MS
Cadmium	**1.0**	**U**		**ICP_MS**	1.0	U		ICP_MS	1.0	U		ICP_MS	1.0	U		ICP_MS
Calcium	**105000**			**ICP_AES**	421000			ICP_AES	467000			ICP_AES	122000			ICP_AES
Chromium	**20.5**	**J+**	**C**	**ICP_MS**	7.1			ICP_MS	12.5			ICP_MS	5.6			ICP_MS
Cobalt	**10.7**			**ICP_MS**	37.7			ICP_MS	41.9			ICP_MS	11.3			ICP_MS
Copper	**5.4**			**ICP_MS**	*2.0*	*J*		ICP_MS	*2.3*	*J*		ICP_MS	*2.4*	*J*		ICP_MS
Iron	**2700**			**ICP_AES**	3350			ICP_AES	4970			ICP_AES	883			ICP_AES
Lead	**1.6**			**ICP_MS**	0.57	J		ICP_MS	1.0			ICP_MS	1.3			ICP_MS
Magnesium	**38600**			**ICP_AES**	147000			ICP_AES	142000			ICP_AES	35800			ICP_AES
Manganese	**480**			**ICP_MS**	2510			ICP_MS	3240			ICP_MS	674			ICP_MS
Mercury	**0.20**	**U**		**Hg**	0.20	U		Hg	0.20	U		Hg	0.20	U		Hg
Nickel	**12.7**	**J+**	**C**	**ICP_MS**	7.8			ICP_MS	8.7			ICP_MS	4.7			ICP_MS
Potassium	**7630**	**J**	**E**	**ICP_AES**	5000	UJ		ICP_AES	7160	J		ICP_AES	5000	UJ		ICP_AES
Selenium	**10.0**	**U**		**ICP_MS**	10.0	U		ICP_MS	*0.99*	*J*		ICP_MS	*0.60*	*J*		ICP_MS
Silver	**0.15**	**J**	**A**	**ICP_MS**	1.0	U		ICP_MS	0.081	J		ICP_MS	1.0	U		ICP_MS
Sodium	**163000**			**ICP_AES**	358000			ICP_AES	839000			ICP_AES	177000			ICP_AES
Thallium	**1.0**	**U**		**ICP_MS**	1.0	U		ICP_MS	*0.082*	*J*		ICP_MS	1.0	U		ICP_MS
Vanadium	**10.0**	**UJ**	**E**	**ICP_MS**	10.0	UJ		ICP_MS	10.0	UJ		ICP_MS	10.0	UJ		ICP_MS
Zinc	**14.6**	**J+**	**C**	**ICP_MS**	6.1			ICP_MS	6.4			ICP_MS	13.3			ICP_MS
Cyanide	**10.0**	**U**	**B**	**CN**	10.0	*U*		CN	10.0	*U*		CN	10.0	U		CN

Lab Chemtech Consulting Group (CHEM) **SDG** MY9DP1 **Case** 44217 **Site** Southern Avenue Industrial Area **SOW** ISM01.3 Metals by ICP-AES & ICP-MS, Mercury, and Cyanide

Sample No:	**MY9DQ9**				MY9DR0				**MY9DS4 D2**				**MY9DS5 D2**			
Sample Location:	**SAIA-MW2B-0314**				SAIA-MW2C-0314				**SAIA-MW7-0314**				**SAIA-MW97-0314**			
Sample Type:	**Field_Sample**				Field_Sample				**Field_Sample**				**Field_Sample**			
Matrix/Level:	**Water/Low**				Water/Low				**Water/Low**				**Water/Low**			
% Solids																
Units :	**ug/L**				ug/L				**ug/L**				**ug/L**			
Compound	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**
Aluminum	**88.2**			**ICP_MS**	182			ICP_MS	**927**		**F**	**ICP_MS**	**302**		**F**	**ICP_MS**
Antimony	**2.0**	**UJ**	**B,D**	**ICP_MS**	2.0	UJ		ICP_MS	**2.0**	**UJ**	**B,D**	**ICP_MS**	**2.0**	**UJ**	**B,D**	**ICP_MS**
Arsenic	**24.9**			**ICP_MS**	21.8			ICP_MS	**4.7**		**F**	**ICP_MS**	**3.3**		**F**	**ICP_MS**
Barium	**44.5**			**ICP_MS**	30.4			ICP_MS	**92.1**		**F**	**ICP_MS**	**62.4**		**F**	**ICP_MS**
Beryllium	**2.0**	**U**		**ICP_MS**	2.0	U		ICP_MS	**2.0**	**U**		**ICP_MS**	**1.0**	**U**		**ICP_MS**
Cadmium	**1.0**	**U**		**ICP_MS**	1.0	U		ICP_MS	**0.17**	**J**	**A**	**ICP_MS**	**1.0**	**U**		**ICP_MS**
Calcium	**398000**			**ICP_AES**	457000			ICP_AES	**714000**			**ICP_AES**	**737000**			**ICP_AES**
Chromium	**4.2**	**J+**	**C**	**ICP_MS**	4.2			ICP_MS	**12.2**	**J+**	**C,F**	**ICP_MS**	**3.2**	**J+**	**C,F**	**ICP_MS**
Cobalt	**34.6**			**ICP_MS**	43.1			ICP_MS	**63.8**			**ICP_MS**	**59.4**			**ICP_MS**
Copper	**7.7**			**ICP_MS**	*2.0*	*J*		ICP_MS	**4.9**		**F**	**ICP_MS**	**2.3**		**F**	**ICP_MS**
Iron	**2880**			**ICP_AES**	3220			ICP_AES	**1370**		**F**	**ICP_AES**	**419**		**F**	**ICP_AES**
Lead	**2.7**			**ICP_MS**	0.38	J		ICP_MS	**1.6**			**ICP_MS**	**0.74**	**J**	**A**	**ICP_MS**
Magnesium	**136000**			**ICP_AES**	153000			ICP_AES	**166000**			**ICP_AES**	**171000**			**ICP_AES**
Manganese	**2290**			**ICP_MS**	3370			ICP_MS	**3550**			**ICP_MS**	**3530**			**ICP_MS**
Mercury	**0.20**	**U**		**Hg**	0.20	U		Hg	**0.20**	**U**		**Hg**	**0.20**	**U**		**Hg**
Nickel	**4.5**	**J+**	**C**	**ICP_MS**	4.7			ICP_MS	**18.9**	**J+**	**C,F**	**ICP_MS**	**6.7**	**J+**	**C,F**	**ICP_MS**
Potassium	**5000**	**UJ**	**B,E**	**ICP_AES**	5770	J		ICP_AES	**5930**	**J**	**E**	**ICP_AES**	**5850**	**J**	**E**	**ICP_AES**
Selenium	**2.3**	**J**	**A**	**ICP_MS**	*1.1*	*J*		ICP_MS	**3.0**	**J**	**A**	**ICP_MS**	**2.1**	**J**	**A**	**ICP_MS**
Silver	**1.0**	**U**		**ICP_MS**	0.069	J		ICP_MS	**1.0**	**U**		**ICP_MS**	**0.060**	**J**	**A**	**ICP_MS**
Sodium	**285000**			**ICP_AES**	666000			ICP_AES	**359000**			**ICP_AES**	**368000**			**ICP_AES**
Thallium	**1.0**	**U**		**ICP_MS**	1.0	U		ICP_MS	**1.0**	**U**		**ICP_MS**	**0.11**	**J**	**A**	**ICP_MS**
Vanadium	**10.0**	**UJ**	**E**	**ICP_MS**	10.0	UJ		ICP_MS	**10.0**	**UJ**	**E**	**ICP_MS**	**5.0**	**UJ**	**E**	**ICP_MS**
Zinc	**9.4**	**J+**	**C**	**ICP_MS**	7.4			ICP_MS	**19.5**	**J+**	**C,F**	**ICP_MS**	**10.5**	**J+**	**C,F**	**ICP_MS**
Cyanide	**10.0**	**U**	**B**	**CN**	10.0	U		CN	**10.0**	**U**	**B**	**CN**	**10.0**	**U**		**CN**

Lab Chemtech Consulting Group (CHEM) **SDG** MY9DP1 **Case** 44217 **Site** Southern Avenue Industrial Area **SOW** ISM01.3 Metals by ICP-AES & ICP-MS, Mercury, and Cyanide

Sample No:	**MY9DS7 EB**				**MY9DS8 EB**				PBW01 / PBW02 / PBW03 / PBW04							
Sample Location:	**SAIA-EL01-0314**				**SAIA-EL02-0314**				N/A							
Sample Type:	**Field_Sample**				**Field_Sample**				Preparation_Blank							
Matrix/Level:	**Water/Low**				**Water/Low**				Water/Low							
% Solids																
Units :	**ug/L**				**ug/L**				ug/L							
Compound	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**
Aluminum	**20.0**	**U**	**B**	**ICP_MS**	**20.0**	**U**	**B**	**ICP_MS**	*0.604*	*J*	A	ICP_MS				
Antimony	**2.0**	**U**		**ICP_MS**	**2.0**	**U**		**ICP_MS**	2.0	U		ICP_MS				
Arsenic	**1.0**	**U**		**ICP_MS**	**1.0**	**U**		**ICP_MS**	1.0	U		ICP_MS				
Barium	**0.20**	**J**	**A**	**ICP_MS**	**0.27**	**J**	**A**	**ICP_MS**	10.0	U		ICP_MS				
Beryllium	**1.0**	**U**		**ICP_MS**	**1.0**	**U**		**ICP_MS**	1.0	U		ICP_MS				
Cadmium	**1.0**	**U**		**ICP_MS**	**1.0**	**U**		**ICP_MS**	1.0	U		ICP_MS				
Calcium	**271**	**J**	**A**	**ICP_AES**	**388**	**J**	**A**	**ICP_AES**	5000	U		ICP_AES				
Chromium	**2.8**			**ICP_MS**	**2.8**			**ICP_MS**	2.0	U		ICP_MS				
Cobalt	**0.30**	**J**	**A**	**ICP_MS**	**1.0**	**U**		**ICP_MS**	1.0	U		ICP_MS				
Copper	**1.2**	**J**	**A**	**ICP_MS**	**0.80**	**J**	**A**	**ICP_MS**	2.0	U		ICP_MS				
Iron	**100**	**U**		**ICP_AES**	**100**	**U**		**ICP_AES**	100	U	B	ICP_AES				
Lead	**0.19**	**J**	**A**	**ICP_MS**	**0.25**	**J**	**A**	**ICP_MS**	1.0	U		ICP_MS				
Magnesium	**5000**	**U**		**ICP_AES**	**85.2**	**J**	**A**	**ICP_AES**	5000	U		ICP_AES				
Manganese	**4.0**			**ICP_MS**	**0.96**	**J**	**A**	**ICP_MS**	1.0	U		ICP_MS				
Mercury	**0.20**	**U**		**Hg**	**0.20**	**U**		**Hg**	0.20	U	B	Hg				
Nickel	**15.7**			**ICP_MS**	**1.5**			**ICP_MS**	1.0	U		ICP_MS				
Potassium	**5000**	**U**		**ICP_AES**	**5000**	**U**		**ICP_AES**	5000	U	B	ICP_AES				
Selenium	**5.0**	**U**		**ICP_MS**	**5.0**	**U**		**ICP_MS**	5.0	U		ICP_MS				
Silver	**0.049**	**J**	**A**	**ICP_MS**	**1.0**	**U**		**ICP_MS**	1.0	U		ICP_MS				
Sodium	**345**	**J**	**A**	**ICP_AES**	**5000**	**U**	**B**	**ICP_AES**	5000	U		ICP_AES				
Thallium	**1.0**	**U**		**ICP_MS**	**1.0**	**U**		**ICP_MS**	1.0	U		ICP_MS				
Vanadium	**5.0**	**U**		**ICP_MS**	**5.0**	**U**		**ICP_MS**	5.0	U		ICP_MS				
Zinc	**3.1**			**ICP_MS**	**4.1**			**ICP_MS**	2.0	U		ICP_MS				
Cyanide	**10.0**	**U**		**CN**	**10.0**	**U**	**B**	**CN**	10.0	U		CN				

Com - Comments. Refer to the corresponding section in the Narrative for each letter. N/A - Not Applicable
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample.

Bold: Tier 3 level review performed.
Revisions for Tier 2 review are italicized.

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR INORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared in accordance with the document *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, January 2010.

U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

ICF International
Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300; Fax: (510) 412-2304.

MEMORANDUM

TO: Karen Jurist, Remedial Project Manager
Site Cleanup Section 3, SFD-7-3

THROUGH: Joe Eidelberg, Chemist
Quality Assurance (QA) Program, MTS-3

Joseph Eidelberg
Digitally Signed

FROM: Kathy O'Brien, Data Review Task Manager
Region 9 Environmental Services Assistance Team (ESAT)

ESAT Contract No.: EP-W-13-029
Technical Direction Form No.: 10106031

DATE: June 18, 2014

SUBJECT: Review of Analytical Data, **Tier 2**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Southern Avenue Industrial Area
Site Account No.:	09 WS QB 00
CERCLIS ID No.:	CAN000905902
Case No.:	44217
SDG No.:	Y9DS0 and Y9DQ5
Laboratory:	KAP Technologies, Inc. (KAP)
Analysis:	Aroclors
Samples:	20 Groundwater Samples
Collection Date:	March 25, 26, and 27, 2014
Reviewer:	Santiago Lee, ESAT

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Raymond Flores, CLP PO USEPA Region 6
Steve Remaley, CLP PO USEPA Region 9
Richard Bauer, EPA COR for ESAT Region 9

CLP PO: [X] FYI [ ] Action

SAMPLING ISSUES: [X] Yes [ ] No

Data Validation Report - **Tier 2**

Case No.: 44217
SDG No.: Y9DS0 and Y9DQ5
Site: Southern Avenue Industrial Area
Laboratory: KAP Technologies, Inc. (KAP)
Reviewer: Santiago Lee, ESAT
Date: June 18, 2014

As directed by the Contracting Officer Representative (COR), a Tier 2 data review was performed. The review consisted of a Tier 3 validation of samples Y9DP4, Y9DQ5, Y9DQ9, and Y9DS5 and associated field QC samples.

I. SDG SUMMARY

For Sample Information and Laboratory QC, refer to EXES National Functional Guideline Report #06, *Analytical Sample Listing*.

Field QC

Field Blanks (FB):	Not Provided
Equipment Blanks (EB):	**Y9DS8** and **Y9DS7**
Background Samples (BG):	Not Provided
Field Duplicates (D3):	Y9DP1 and Y9DP2
Field Duplicates (D4):	**Y9DS4** and **Y9DS5**

Tables

1A:	Analytical Results with Qualifications
1B:	Data Qualifier Definitions for Organic Data Review

CLP PO Action

None.

Sampling Issues

1. For samples Y9DP2, Y9DP6, Y9DQ1, Y9DQ6, Y9DQ8, Y9DQ9, and Y9DS5 and equipment blanks Y9DS8 and Y9DS7, one bottle was broken when received. Two bottles for sample Y9DQ5 and three bottles for sample Y9DQ7 were broken when received. There was enough sample volume in the other bottles for analysis.
2. Signature and Date blocks for "Relinquished By" were not completed on page 3 of 3 for the chain of custody record (COC) No. 9-032514-093010-0004.
3. The COCs incorrectly state that samples for "CLP PCB" were collected in "1liter poly"; 1-liter amber glass bottles were received by the laboratory.

Additional Comments

All method requirements specified in the EPA Contract Laboratory Program (CLP) Organic Statement of Work (SOW), except as noted, have been met.

This report was prepared in accordance with the following documents:

- *USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration*, SOM01.1, May 2005;
- *Modifications Updating SOM01.1 to SOM01.2*, Amended April 11, 2007; and
- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, June 2008.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration*, SOM01.1, May 2005.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Holding Time/Preservation	Yes	
2	Initial Calibration	Yes	
3	Continuing Calibration Verification (CCV)	Yes	
4	Laboratory Blanks	Yes	
5	Field Blanks	Yes	
6	Surrogate Spikes	Yes	
7	Matrix Spike/Matrix Spike Duplicates (MS/MSDs)	Yes	
8	Laboratory Spike Samples (LCSs)	Yes	
9	GPC Performance Check	N/A	
10	Compound Identification	Yes	
11	GC/MS Confirmation	N/A	
12	Compound Quantitation and Reported CRQLs	Yes	
13	Field Duplicate Sample Analysis	Yes	

N/A = Not Applicable

III. VALIDITY AND COMMENTS

The data reviewed were found to be in compliance with the National Functional Guidelines criteria; no issues requiring qualification of data were observed.

Lab KAP (KAP Technologies, Inc.) **SDG** Y9DS0 & Y9DQ5 **Case** 44217 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DP4 MW42-0314 Field_Sample Water/Low 1.0 ug/L			Y9DS8 EB SAIA-EL02-0314 Field_Sample Water/Low 1.0 ug/L			ABLK70 N/A Method_Blank Water/Low 1.0 ug/L					
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Aroclor-1016	1.0	U		1.0	U		1.0	U				
Aroclor-1221	1.0	U		1.0	U		1.0	U				
Aroclor-1232	1.0	U		1.0	U		1.0	U				
Aroclor-1242	1.0	U		1.0	U		1.0	U				
Aroclor-1248	1.0	U		1.0	U		1.0	U				
Aroclor-1254	1.0	U		1.0	U		1.0	U				
Aroclor-1260	1.0	U		1.0	U		1.0	U				
Aroclor-1262	1.0	U		1.0	U		1.0	U				
Aroclor-1268	1.0	U		1.0	U		1.0	U				

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample.

Lab KAP (KAP Technologies, Inc.) **SDG** Y9DS0 & Y9DQ5 **Case** 44217 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DQ5 SAIA-MW1A-0314 Field_Sample Water/Low 1.0 ug/L			Y9DQ9 SAIA-MW2B-0314 Field_Sample Water/Low 1.0 ug/L			Y9DS4 D4 SAIA-MW7-0314 Field_Sample Water/Low 1.0 ug/L			Y9DS5 D4 SAIA-MW97-0314 Field_Sample Water/Low 1.0 ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Aroclor-1016	1.0	U		1.0	U		1.0	U		1.0	U	
Aroclor-1221	1.0	U		1.0	U		1.0	U		1.0	U	
Aroclor-1232	1.0	U		1.0	U		1.0	U		1.0	U	
Aroclor-1242	1.0	U		1.0	U		1.0	U		1.0	U	
Aroclor-1248	1.0	U		1.0	U		1.0	U		1.0	U	
Aroclor-1254	1.0	U		1.0	U		1.0	U		1.0	U	
Aroclor-1260	1.0	U		1.0	U		1.0	U		1.0	U	
Aroclor-1262	1.0	U		1.0	U		1.0	U		1.0	U	
Aroclor-1268	1.0	U		1.0	U		1.0	U		1.0	U	

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DS7 EB SAIA-EL01-0314 Field_Sample Water/Low 1.0 ug/L			ABLK72 N/A Method_Blank Water/Low 1.0 ug/L								
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Aroclor-1016	1.0	U		1.0	U							
Aroclor-1221	1.0	U		1.0	U							
Aroclor-1232	1.0	U		1.0	U							
Aroclor-1242	1.0	U		1.0	U							
Aroclor-1248	1.0	U		1.0	U							
Aroclor-1254	1.0	U		1.0	U							
Aroclor-1260	1.0	U		1.0	U							
Aroclor-1262	1.0	U		1.0	U							
Aroclor-1268	1.0	U		1.0	U							

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample.

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," June 2008.

U The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

ICF International
Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300; Fax: (510) 412-2304.

MEMORANDUM

TO: Karen Jurist, Remedial Project Manager
Site Cleanup Section 3, SFD-7-3

THROUGH: Joe Eidelberg, Chemist
Quality Assurance (QA) Program, MTS-3

Joseph Eidelberg
Digitally Signed

FROM: Kathy O'Brien, Data Review Task Manager
Region 9 Environmental Services Assistance Team (ESAT)

ESAT Contract No.: EP-W-13-029
Technical Direction Form No.: 10106031

DATE: June 25, 2014

SUBJECT: Review of Analytical Data, **Tier 2**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Southern Avenue Industrial Area
Site Account No.:	09 WS QB 00
CERCLIS ID No.:	CAN000905902
Case No.:	44217
SDG No.:	Y9DS0 and Y9DQ5
Laboratory:	KAP Technologies, Inc. (KAP)
Analysis:	Semivolatiles
Samples:	20 Groundwater Samples
Collection Date:	March 25, 26, and 27, 2014
Reviewer:	Santiago Lee, ESAT

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Raymond Flores, CLP PO USEPA Region 6
Steve Remaley, CLP PO USEPA Region 9
Richard Bauer, EPA COR for ESAT Region 9

CLP PO: [X] FYI [ ] Action

SAMPLING ISSUES: [X] Yes [ ] No

Data Validation Report - **Tier 2**

Case No.: 44217
SDG No.: Y9DS0 and Y9DQ5
Site: Southern Avenue Industrial Area
Laboratory: KAP Technologies, Inc. (KAP)
Reviewer: Santiago Lee, ESAT
Date: June 25, 2014

As directed by the Contracting Officer Representative (COR), a Tier 2 data review was performed. The review consisted of a Tier 3 validation of sample Y9DP4, Y9DQ5, Y9DQ9, and Y9DS5 and associated field QC samples.

I. SDG SUMMARY

For Sample Information and Laboratory QC, refer to EXES National Functional Guideline Report #06, *Analytical Sample Listing*.

Field QC

Field Blanks (FB):	Not Provided
Equipment Blanks (EB):	**Y9DS8** and **Y9DS7**
Background Samples (BG):	Not Provided
Field Duplicates (D3):	Y9DP1 and Y9DP2
Field Duplicates (D4):	**Y9DS4** and **Y9DS5**

Tables

1A:	Analytical Results with Qualifications
1B:	Data Qualifier Definitions for Organic Data Review

CLP PO Action

None.

Sampling Issues

1. Equipment blank Y9DS7 was collected on 03/27/14 but one of three bottles was received by the laboratory on 04/02/14 at 17°C; extraction for SVOC analysis exceeded holding time (see Comment B).
2. Diethylphthalate was found in equipment blank Y9DS8 (10 ug/L); it was not found in sample Y9DP4.
3. For samples Y9DP2, Y9DP6, Y9DQ1, Y9DQ6, Y9DQ8, Y9DQ9, and Y9DS5 and equipment blanks Y9DS8 and Y9DS7, one bottle was broken when received. Two bottles for sample Y9DQ5 and three bottles for sample Y9DQ7 were broken when received. There was enough sample volume in the other bottles for analysis.
4. Signature and Date blocks for "Relinquished By" were not completed on page 3 of 3 for chain of custody record No. 9-032514-093010-0004.

Additional Comments

The preparation logs for solutions 453.47.01 and 453.52.01 were missing from the data package for SDG Y9DQ5. The laboratory submitted the missing preparation logs upon request, on 06/17/14.

Aside from a field artifact (retention time of 7.2 minutes), tentatively identified compounds (TICs) were found in samples Y9DS4 and Y9DS5 (see attached Form 1Ks).

Manual integration was performed on calibrations and samples. Manual integrations were reviewed and found to be in compliance with CLP Statement of Work requirements.

All method requirements specified in the EPA Contract Laboratory Program (CLP) Organic Statement of Work (SOW), except as noted, have been met.

This report was prepared in accordance with the following documents:

- *USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration*, SOM01.1, May 2005;
- *Modifications Updating SOM01.1 to SOM01.2*, Amended April 11, 2007; and
- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, June 2008.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration*, SOM01.1, May 2005.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Holding Time/Preservation	No	B
2	GC/MS Tune/GC Performance	Yes	
3	Initial Calibration	Yes	
4	Continuing Calibration Verification (CCV)	No	C
5	Laboratory Blanks	Yes	
6	Field Blanks	Yes	
7	Deuterated Monitoring Compounds (DMCs)	Yes	
8	Matrix Spike/Matrix Spike Duplicates (MS/MSDs)	No	D
9	GPC Performance Check	N/A	
10	Internal Standards	Yes	
11	Compound Identification	Yes	
12	Compound Quantitation and Reported CRQLs	Yes	A
13	System Performance	Yes	
14	Field Duplicate Sample Analysis	Yes	

N/A = Not Applicable

III. VALIDITY AND COMMENTS

A. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J" in Table 1A. Results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

B. Results for the following analytes are qualified as estimated due to holding time exceedance and inadequate sample preservation and are flagged "UJ" in Table 1A.

- All analytes in equipment blank Y9DS7.

The extraction of equipment blank Y9DS7 exceeded the 7-day technical holding time as shown below.

Sample	Date Collected	Date Extracted	No. of Days Exceeded
Y9DS7	03/27/14	04/06/14	3

Additionally, equipment blank Y9DS7 was not adequately maintained at the 4˚±2˚C temperature limit specified in the SOW; it was received at the laboratory at a temperature of 17˚C. Since qualified results are nondetected, false negatives may exist.

C. The result for the following analyte is qualified as estimated due to a large percent difference (%D) in the associated CCV and is flagged "UJ" in Table 1A.

- 4-Methylphenol in equipment blank Y9DS8.

A %D of +36.0% was reported for 4-methylphenol in the 04/05/14 06:35 CCV, which exceeds the ±25.0% validation criterion for opening CCVs.

D. The MS/MSD recoveries for 4-chloro-3-methylphenol, 4-nitrophenol, and pentachlorophenol in QC samples Y9DP4MS and Y9DP4MSD do not meet the criteria for accuracy specified in the SOW, as shown below.

Analyte	Y9DP4MS % Recovery	Y9DP4MSD % Recovery	QC limit % Recovery
4-Chloro-3-methylphenol	100	98	23-97
4-Nitrophenol	105	112	10-80
Pentachlorophenol	----	105	9-103

No adverse effect on data quality is expected for sample Y9DP4 since these analytes were not detected in the sample. The effect on data quality for other samples in SDG Y9DS0 is not known.

Results for QC samples Y9DR0MS and Y9DR0MSD (in SDG Y9DQ5) were not reviewed.

Lab KAP (KAP Technologies, Inc.) **SDG** Y9DS0 & Y9DQ5 **Case** 44217 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample **Location** **Type** **Matrix/Level** **Dilution Factor** **% Moisture** **Units**	**Y9DP4** **MW42-0314** **Field_Sample** **Water/LOW** **1.0** **ug/L**			**Y9DS8 EB** **SAIA-EL02-0314** **Field_Sample** **Water/LOW** **1.0** **ug/L**			**SBLK57** **N/A** **Method_Blank** **Water/LOW** **1.0** **ug/L**					
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Benzaldehyde	5.0	U		5.0	U		5.0	U				
Phenol	5.0	U		5.0	U		5.0	U				
Bis (2-Chloroethyl) ether	5.0	U		5.0	U		5.0	U				
2-Chlorophenol	5.0	U		5.0	U		5.0	U				
2-Methylphenol	5.0	U		5.0	U		5.0	U				
2,2-Oxybis (1-Chloropropane)	5.0	U		5.0	U		5.0	U				
Acetophenone	5.0	U		5.0	U		5.0	U				
4-Methylphenol	5.0	U		5.0	UJ	C	5.0	U				
N-Nitroso-di-n-propylamine	5.0	U		5.0	U		5.0	U				
Hexachloroethane	5.0	U		5.0	U		5.0	U				
Nitrobenzene	5.0	U		5.0	U		5.0	U				
Isophorone	5.0	U		5.0	U		5.0	U				
2-Nitrophenol	5.0	U		5.0	U		5.0	U				
2,4-Dimethylphenol	5.0	U		5.0	U		5.0	U				
Bis (2-Chloroethoxy) methane	5.0	U		5.0	U		5.0	U				
2,4-Dichlorophenol	5.0	U		5.0	U		5.0	U				
Naphthalene	5.0	U		5.0	U		5.0	U				
4-Chloroaniline	5.0	U		5.0	U		5.0	U				
Hexachlorobutadiene	5.0	U		5.0	U		5.0	U				
Caprolactam	5.0	U		5.0	U		5.0	U				
4-Chloro-3-methylphenol	5.0	U	D	5.0	U		5.0	U				
2-Methylnaphthalene	5.0	U		5.0	U		5.0	U				
Hexachlorocyclopentadiene	5.0	U		5.0	U		5.0	U				
2,4,6-Trichlorophenol	5.0	U		5.0	U		5.0	U				
2,4,5-Trichlorophenol	5.0	U		5.0	U		5.0	U				
1,1'-Biphenyl	5.0	U		5.0	U		5.0	U				
2-Chloronaphthalene	5.0	U		5.0	U		5.0	U				
2-Nitroaniline	10	U		10	U		10	U				
Dimethylphthalate	5.0	U		5.0	U		5.0	U				
2,6-Dinitrotoluene	5.0	U		5.0	U		5.0	U				
Acenaphthylene	5.0	U		5.0	U		5.0	U				
3-Nitroaniline	10	U		10	U		10	U				
Acenaphthene	5.0	U		5.0	U		5.0	U				

Lab KAP (KAP Technologies, Inc.) **SDG** Y9DS0 & Y9DQ5 **Case** 44217 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample	**Y9DP4**			**Y9DS8 EB**			**SBLK57**					
Location	**MW42-0314**			**SAIA-EL02-0314**			**N/A**					
Type	**Field_Sample**			**Field_Sample**			**Method_Blank**					
Matrix/Level	**Water/LOW**			**Water/LOW**			**Water/LOW**					
Dilution Factor	**1.0**			**1.0**			**1.0**					
% Moisture												
Units	**ug/L**			**ug/L**			**ug/L**					
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
2,4-Dinitrophenol	10	U		10	U		10	U				
4-Nitrophenol	10	U	D	10	U		10	U				
Dibenzofuran	5.0	U		5.0	U		5.0	U				
2,4-Dinitrotoluene	5.0	U		5.0	U		5.0	U				
Diethylphthalate	5.0	U		10			5.0	U				
Fluorene	5.0	U		5.0	U		5.0	U				
4-Chlorophenyl-phenylether	5.0	U		5.0	U		5.0	U				
4-Nitroaniline	10	U		10	U		10	U				
4,6-Dinitro-2-methylphenol	10	U		10	U		10	U				
N-Nitrosodiphenylamine	5.0	U		5.0	U		5.0	U				
1,2,4,5-Tetrachlorobenzene	5.0	U		5.0	U		5.0	U				
4-Bromophenyl-phenylether	5.0	U		5.0	U		5.0	U				
Hexachlorobenzene	5.0	U		5.0	U		5.0	U				
Atrazine	5.0	U		5.0	U		5.0	U				
Pentachlorophenol	10	U	D	10	U		10	U				
Phenanthrene	5.0	U		5.0	U		5.0	U				
Anthracene	5.0	U		5.0	U		5.0	U				
Carbazole	5.0	U		5.0	U		5.0	U				
Di-n-butylphthalate	5.0	U		5.0	U		5.0	U				
Fluoranthene	5.0	U		5.0	U		5.0	U				
Pyrene	5.0	U		5.0	U		5.0	U				
Butylbenzylphthalate	5.0	U		5.0	U		5.0	U				
3,3-Dichlorobenzidine	5.0	U		5.0	U		5.0	U				
Benzo (a) anthracene	5.0	U		5.0	U		5.0	U				
Chrysene	5.0	U		5.0	U		5.0	U				
Bis (2-Ethylhexyl) phthalate	5.0	U		5.0	U		5.0	U				
Di-n-octylphthalate	5.0	U		5.0	U		5.0	U				
Benzo (b) fluoranthene	5.0	U		5.0	U		5.0	U				
Benzo (k) fluoranthene	5.0	U		5.0	U		5.0	U				
Benzo (a) pyrene	5.0	U		5.0	U		5.0	U				
Indeno (1,2,3-cd) pyrene	5.0	U		5.0	U		5.0	U				
Dibenzo (a,h) anthracene	5.0	U		5.0	U		5.0	U				
Benzo (g,h,i) perylene	5.0	U		5.0	U		5.0	U				
2,3,4,6-Tetrachlorophenol	5.0	U		5.0	U		5.0	U				

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample.

Lab KAP (KAP Technologies, Inc.) **SDG** Y9DS0 & Y9DQ5 **Case** 44217 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DQ5 SAIA-MW1A-0314 Field_Sample Water/LOW 1.0 ug/L			Y9DQ9 SAIA-MW2B-0314 Field_Sample Water/LOW 1.0 ug/L			Y9DS4 D4 SAIA-MW7-0314 Field_Sample Water/LOW 1.0 ug/L			Y9DS5 D4 SAIA-MW97-0314 Field_Sample Water/LOW 1.0 ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Benzaldehyde	5.0	U		5.0	U		5.0	U		5.0	U	
Phenol	5.0	U		5.0	U		5.0	U		5.0	U	
Bis (2-Chloroethyl) ether	5.0	U		5.0	U		5.0	U		5.0	U	
2-Chlorophenol	5.0	U		5.0	U		5.0	U		5.0	U	
2-Methylphenol	5.0	U		5.0	U		5.0	U		5.0	U	
2,2-Oxybis (1-Chloropropane)	5.0	U		5.0	U		5.0	U		5.0	U	
Acetophenone	5.0	U		5.0	U		5.0	U		5.0	U	
4-Methylphenol	5.0	U		5.0	U		5.0	U		5.0	U	
N-Nitroso-di-n-propylamine	5.0	U		5.0	U		5.0	U		5.0	U	
Hexachloroethane	5.0	U		5.0	U		5.0	U		5.0	U	
Nitrobenzene	5.0	U		5.0	U		5.0	U		5.0	U	
Isophorone	5.0	U		5.0	U		5.0	U		5.0	U	
2-Nitrophenol	5.0	U		5.0	U		5.0	U		5.0	U	
2,4-Dimethylphenol	5.0	U		5.0	U		5.0	U		5.0	U	
Bis (2-Chloroethoxy) methane	5.0	U		5.0	U		5.0	U		5.0	U	
2,4-Dichlorophenol	5.0	U		5.0	U		5.0	U		5.0	U	
Naphthalene	5.0	U		5.0	U		5.0	U		5.0	U	
4-Chloroaniline	5.0	U		5.0	U		5.0	U		5.0	U	
Hexachlorobutadiene	5.0	U		5.0	U		5.0	U		5.0	U	
Caprolactam	5.0	U		5.0	U		5.0	U		5.0	U	
4-Chloro-3-methylphenol	5.0	U		5.0	U		5.0	U		5.0	U	
2-Methylnaphthalene	5.0	U		5.0	U		5.0	U		5.0	U	
Hexachlorocyclopentadiene	5.0	U		5.0	U		5.0	U		5.0	U	
2,4,6-Trichlorophenol	5.0	U		5.0	U		5.0	U		5.0	U	
2,4,5-Trichlorophenol	5.0	U		5.0	U		5.0	U		5.0	U	
1,1'-Biphenyl	5.0	U		5.0	U		5.0	U		5.0	U	
2-Chloronaphthalene	5.0	U		5.0	U		5.0	U		5.0	U	
2-Nitroaniline	10	U		10	U		10	U		10	U	
Dimethylphthalate	5.0	U		5.0	U		5.0	U		5.0	U	
2,6-Dinitrotoluene	5.0	U		5.0	U		5.0	U		5.0	U	
Acenaphthylene	5.0	U		5.0	U		5.0	U		5.0	U	
3-Nitroaniline	10	U		10	U		10	U		10	U	
Acenaphthene	5.0	U		5.0	U		5.0	U		5.0	U	

Lab KAP (KAP Technologies, Inc.) **SDG** Y9DS0 & Y9DQ5 **Case** 44217 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DQ5 SAIA-MW1A-0314 Field_Sample Water/TRACE 1.0 ug/L			Y9DQ9 SAIA-MW2B-0314 Field_Sample Water/TRACE 1.0 ug/L			Y9DS4 D4 SAIA-MW7-0314 Field_Sample Water/TRACE 1.0 ug/L			Y9DS5 D4 SAIA-MW97-0314 Field_Sample Water/TRACE 1.0 ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
2,4-Dinitrophenol	10	U		10	U		10	U		10	U	
4-Nitrophenol	10	U		10	U		10	U		10	U	
Dibenzofuran	5.0	U		5.0	U		5.0	U		5.0	U	
2,4-Dinitrotoluene	5.0	U		5.0	U		5.0	U		5.0	U	
Diethylphthalate	5.0	U		5.0	U		5.0	U		5.0	U	
Fluorene	5.0	U		5.0	U		5.0	U		5.0	U	
4-Chlorophenyl-phenylether	5.0	U		5.0	U		5.0	U		5.0	U	
4-Nitroaniline	10	U		10	U		10	U		10	U	
4,6-Dinitro-2-methylphenol	10	U		10	U		10	U		10	U	
N-Nitrosodiphenylamine	5.0	U		5.0	U		5.0	U		5.0	U	
1,2,4,5-Tetrachlorobenzene	5.0	U		5.0	U		5.0	U		5.0	U	
4-Bromophenyl-phenylether	5.0	U		5.0	U		5.0	U		5.0	U	
Hexachlorobenzene	5.0	U		5.0	U		5.0	U		5.0	U	
Atrazine	5.0	U		5.0	U		5.0	U		5.0	U	
Pentachlorophenol	10	U		10	U		10	U		10	U	
Phenanthrene	5.0	U		5.0	U		5.0	U		5.0	U	
Anthracene	5.0	U		5.0	U		5.0	U		5.0	U	
Carbazole	5.0	U		5.0	U		5.0	U		5.0	U	
Di-n-butylphthalate	5.0	U		5.0	U		5.0	U		5.0	U	
Fluoranthene	5.0	U		5.0	U		5.0	U		5.0	U	
Pyrene	5.0	U		5.0	U		5.0	U		5.0	U	
Butylbenzylphthalate	5.0	U		5.0	U		5.0	U		5.0	U	
3,3-Dichlorobenzidine	5.0	U		5.0	U		5.0	U		5.0	U	
Benzo (a) anthracene	5.0	U		5.0	U		5.0	U		5.0	U	
Chrysene	5.0	U		5.0	U		5.0	U		5.0	U	
Bis (2-Ethylhexyl) phthalate	5.0	U		5.0	U		5.0	U		5.0	U	
Di-n-octylphthalate	5.0	U		5.0	U		5.0	U		5.0	U	
Benzo (b) fluoranthene	5.0	U		5.0	U		5.0	U		5.0	U	
Benzo (k) fluoranthene	5.0	U		5.0	U		5.0	U		5.0	U	
Benzo (a) pyrene	5.0	U		5.0	U		5.0	U		5.0	U	
Indeno (1,2,3-cd) pyrene	5.0	U		5.0	U		5.0	U		5.0	U	
Dibenzo (a,h) anthracene	5.0	U		5.0	U		5.0	U		5.0	U	
Benzo (g,h,i) perylene	5.0	U		5.0	U		5.0	U		5.0	U	
2,3,4,6-Tetrachlorophenol	5.0	U		5.0	U		5.0	U		5.0	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample.

Lab KAP (KAP Technologies, Inc.) **SDG** Y9DS0 & Y9DQ5 **Case** 44217 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample **Location** **Type** **Matrix/Level** **Dilution Factor** **% Moisture** **Units**	**Y9DS7 EB** **SAIA-EL01-0314** **Field_Sample** **Water/LOW** **1.0** **ug/L**			**SBLK59** **N/A** **Method_Blank** **Water/LOW** **1.0** **ug/L**			**SBLK65** **N/A** **Method_Blank** **Water/LOW** **1.0** **ug/L**					
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Benzaldehyde	5.0	UJ	B	5.0	U		5.0	U				
Phenol	5.0	UJ	B	5.0	U		5.0	U				
Bis (2-Chloroethyl) ether	5.0	UJ	B	5.0	U		5.0	U				
2-Chlorophenol	5.0	UJ	B	5.0	U		5.0	U				
2-Methylphenol	5.0	UJ	B	5.0	U		5.0	U				
2,2-Oxybis (1-Chloropropane)	5.0	UJ	B	5.0	U		5.0	U				
Acetophenone	5.0	UJ	B	5.0	U		5.0	U				
4-Methylphenol	5.0	UJ	B	5.0	U		5.0	U				
N-Nitroso-di-n-propylamine	5.0	UJ	B	5.0	U		5.0	U				
Hexachloroethane	5.0	UJ	B	5.0	U		5.0	U				
Nitrobenzene	5.0	UJ	B	5.0	U		5.0	U				
Isophorone	5.0	UJ	B	5.0	U		5.0	U				
2-Nitrophenol	5.0	UJ	B	5.0	U		5.0	U				
2,4-Dimethylphenol	5.0	UJ	B	5.0	U		5.0	U				
Bis (2-Chloroethoxy) methane	5.0	UJ	B	5.0	U		5.0	U				
2,4-Dichlorophenol	5.0	UJ	B	5.0	U		5.0	U				
Naphthalene	5.0	UJ	B	5.0	U		5.0	U				
4-Chloroaniline	5.0	UJ	B	5.0	U		5.0	U				
Hexachlorobutadiene	5.0	UJ	B	5.0	U		5.0	U				
Caprolactam	5.0	UJ	B	5.0	U		5.0	U				
4-Chloro-3-methylphenol	5.0	UJ	B	5.0	U		5.0	U				
2-Methylnaphthalene	5.0	UJ	B	5.0	U		5.0	U				
Hexachlorocyclopentadiene	5.0	UJ	B	5.0	U		5.0	U				
2,4,6-Trichlorophenol	5.0	UJ	B	5.0	U		5.0	U				
2,4,5-Trichlorophenol	5.0	UJ	B	5.0	U		5.0	U				
1,1'-Biphenyl	5.0	UJ	B	5.0	U		5.0	U				
2-Chloronaphthalene	5.0	UJ	B	5.0	U		5.0	U				
2-Nitroaniline	10	UJ	B	10	U		10	U				
Dimethylphthalate	5.0	UJ	B	5.0	U		5.0	U				
2,6-Dinitrotoluene	5.0	UJ	B	5.0	U		5.0	U				
Acenaphthylene	5.0	UJ	B	5.0	U		5.0	U				
3-Nitroaniline	10	UJ	B	10	U		10	U				
Acenaphthene	5.0	UJ	B	5.0	U		5.0	U				

Lab KAP (KAP Technologies, Inc.) **SDG** Y9DS0 & Y9DQ5 **Case** 44217 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample	Y9DS7 EB			SBLK59			SBLK65					
Location	SAIA-EL01-0314			N/A			N/A					
Type	Field_Sample			Method_Blank			Method_Blank					
Matrix/Level	Water/LOW			Water/LOW			Water/LOW					
Dilution Factor	1.0			1.0			1.0					
% Moisture												
Units	ug/L			ug/L			ug/L					
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
2,4-Dinitrophenol	10	UJ	B	10	U		10	U				
4-Nitrophenol	10	UJ	B	10	U		10	U				
Dibenzofuran	5.0	UJ	B	5.0	U		5.0	U				
2,4-Dinitrotoluene	5.0	UJ	B	5.0	U		5.0	U				
Diethylphthalate	5.0	UJ	B	5.0	U		5.0	U				
Fluorene	5.0	UJ	B	5.0	U		5.0	U				
4-Chlorophenyl-phenylether	5.0	UJ	B	5.0	U		5.0	U				
4-Nitroaniline	10	UJ	B	10	U		10	U				
4,6-Dinitro-2-methylphenol	10	UJ	B	10	U		10	U				
N-Nitrosodiphenylamine	5.0	UJ	B	5.0	U		5.0	U				
1,2,4,5-Tetrachlorobenzene	5.0	UJ	B	5.0	U		5.0	U				
4-Bromophenyl-phenylether	5.0	UJ	B	5.0	U		5.0	U				
Hexachlorobenzene	5.0	UJ	B	5.0	U		5.0	U				
Atrazine	5.0	UJ	B	5.0	U		5.0	U				
Pentachlorophenol	10	UJ	B	10	U		10	U				
Phenanthrene	5.0	UJ	B	5.0	U		5.0	U				
Anthracene	5.0	UJ	B	5.0	U		5.0	U				
Carbazole	5.0	UJ	B	5.0	U		5.0	U				
Di-n-butylphthalate	5.0	UJ	B	5.0	U		5.0	U				
Fluoranthene	5.0	UJ	B	5.0	U		5.0	U				
Pyrene	5.0	UJ	B	5.0	U		5.0	U				
Butylbenzylphthalate	5.0	UJ	B	5.0	U		5.0	U				
3,3-Dichlorobenzidine	5.0	UJ	B	5.0	U		5.0	U				
Benzo (a) anthracene	5.0	UJ	B	5.0	U		5.0	U				
Chrysene	5.0	UJ	B	5.0	U		5.0	U				
Bis (2-Ethylhexyl) phthalate	5.0	UJ	B	5.0	U		5.0	U				
Di-n-octylphthalate	5.0	UJ	B	5.0	U		5.0	U				
Benzo (b) fluoranthene	5.0	UJ	B	5.0	U		5.0	U				
Benzo (k) fluoranthene	5.0	UJ	B	5.0	U		5.0	U				
Benzo (a) pyrene	5.0	UJ	B	5.0	U		5.0	U				
Indeno (1,2,3-cd) pyrene	5.0	UJ	B	1.0	J	A	5.0	U				
Dibenzo (a,h) anthracene	5.0	UJ	B	1.1	J	A	5.0	U				
Benzo (g,h,i) perylene	5.0	UJ	B	1.2	J	A	5.0	U				
2,3,4,6-Tetrachlorophenol	5.0	UJ	B	5.0	U		5.0	U				

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample.

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," June 2008.

U The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y9DS4 (54)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 44217 Mod. Ref No.: _____ SDG No.: Y9DQ5

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-6390.07

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D13137

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 03/28/2014

Concentrated Extract Volume: 1000 (uL) Date Extracted: 03/30/2014

Injection Volume: 1.0 (uL) Date Analyzed: 04/05/2014

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.09	9.6	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796#	Total Alkanes	N/A		

EPA-designated Registry Number.

SOM01.2 (6/2007)

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1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9DS5 (54)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 44217 Mod. Ref No.: _____ SDG No.: Y9DQ5

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-6390.08

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D13138

Level: (LOW/MED) LOW Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) N Date Received: 03/28/2014

Concentrated Extract Volume: 1000 (uL) Date Extracted: 03/30/2014

Injection Volume: 1.0 (uL) Date Analyzed: 04/05/2014

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.05	5.0	J
02		Unknown-02	4.09	9.3	J
03		~~Unknown-03~~	~~7.21~~	~~5.3~~	~~J~~
04					
05		SL, 4/7/14			
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

1217

ICF International
Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300; Fax: (510) 412-2304.

MEMORANDUM

TO: Karen Jurist, Remedial Project Manager
Site Cleanup Section 3, SFD-7-3

THROUGH: Joe Eidelberg, Chemist
Quality Assurance (QA) Program, MTS-3

Joseph Eidelberg
Digitally Signed

FROM: Kathy O'Brien, Data Review Task Manager
Region 9 Environmental Services Assistance Team (ESAT)

ESAT Contract No.: EP-W-13-029
Technical Direction Form No.: 10106031

DATE: June 25, 2014

SUBJECT: Review of Analytical Data, **Tier 2**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Southern Avenue Industrial Area
Site Account No.:	09 WS QB 00
CERCLIS ID No.:	CAN000905902
Case No.:	44217
SDG No.:	Y9DS0 and Y9DQ5
Laboratory:	KAP Technologies, Inc. (KAP)
Analysis:	Trace Volatiles
Samples:	24 Groundwater Samples
Collection Date:	March 25, 26, and 27, 2014
Reviewer:	Santiago Lee, ESAT

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Raymond Flores, CLP PO USEPA Region 6
Steve Remaley, CLP PO USEPA Region 9
Richard Bauer, EPA COR for ESAT Region 9

CLP PO: [X] FYI [ ] Action

SAMPLING ISSUES: [X] Yes [ ] No

Data Validation Report - **Tier 2**

Case No.: 44217
SDG No.: Y9DS0 and Y9DQ5
Site: Southern Avenue Industrial Area
Laboratory: KAP Technologies, Inc. (KAP)
Reviewer: Santiago Lee, ESAT
Date: June 25, 2014

As directed by the Contracting Officer Representative (COR), a Tier 2 data review was performed. The review consisted of a Tier 3 validation of sample Y9DP4, Y9DQ5, Y9DQ9, and Y9DS5 and associated field QC samples.

I. SDG SUMMARY

For Sample Information and Laboratory QC, refer to EXES National Functional Guideline Report #06, *Analytical Sample Listing*.

Field QC

Field Blanks (FB):	Not Provided
Equipment Blanks (EB):	**Y9DS8** and **Y9DS7**
Trip Blanks (TB):	**Y9DT0, Y9DT1,** and **Y9DT3**
Background Samples (BG):	Not Provided
Field Duplicates (D3):	Y9DP1 and Y9DP2
Field Duplicates (D4):	**Y9DS4** and **Y9DS5**

Tables

1A:	Analytical Results with Qualifications
1B:	Data Qualifier Definitions for Organic Data Review

CLP PO Action

None.

Sampling Issues

1. Acetone was found in trip blank Y9DT3 (3.4 ug/L); it was not found in samples Y9DQ5, Y9DQ9, Y9DS4, and Y9DS5.
2. For samples Y9DP4 and Y9DS5, one vial was broken when received by the laboratory. There was enough sample volume in the other vials for analysis.
3. Signature and Date blocks for "Relinquished By" were not completed on page 3 of 3 for chain of custody record No. 9-032514-093010-0004.

Additional Comments

Samples Y9DP4 and Y9DQ5 were analyzed at 20-fold and 200-fold dilutions, respectively, due to high levels of target analytes. The quantitation limits for these samples in Table 1A have been raised to account for the dilution.

The mass spectra for 1,2,3-trichloropropane from the low point initial calibration standard were missing from the data packages. The laboratory submitted the missing mass spectra upon request, on 06/17/14.

Aside from laboratory and field artifacts (retention times of 2.5, 2.7/2.9, 4.8/5.0, 10.4/10.7, 11.4, and 15.5 minutes), tentatively identified compounds (TICs) were found in samples Y9DQ9, Y9DS4, and Y9DS5 (see attached Form 1Js).

Manual integration was performed on calibrations and samples. Manual integrations were reviewed and found to be in compliance with CLP Statement of Work requirements.

All method requirements specified in the EPA Contract Laboratory Program (CLP) Organic Statement of Work (SOW), except as noted, have been met.

This report was prepared in accordance with the following documents:

- *Request for Quote (RFQ) for Modified Analysis*, Modification Reference Number 2210.2, March 19, 2014;
- *USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration*, SOM01.1, May 2005;
- *Modifications Updating SOM01.1 to SOM01.2*, Amended April 11, 2007; and
- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, June 2008.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration*, SOM01.1, May 2005.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Holding Time/Preservation	Yes	
2	GC/MS Tune/GC Performance	Yes	
3	Initial Calibration	Yes	
4	Continuing Calibration Verification (CCV)	No	C
5	Laboratory Blanks	No	B
6	Field Blanks	Yes	
7	Deuterated Monitoring Compounds (DMCs)	Yes	
8	Matrix Spike/Matrix Spike Duplicates (MS/MSDs)	No	D
9	Internal Standards	Yes	
10	Compound Identification	Yes	
11	Compound Quantitation	Yes	A, E
12	System Performance	Yes	
13	Field Duplicate Sample Analysis	Yes	

N/A = Not Applicable

III. VALIDITY AND COMMENTS

A. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J" in Table 1A. Results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

B. The following results are qualified as nondetected due to method blank and storage blank contamination and are flagged "U" in Table 1A.

- Methylene chloride in samples Y9DP4, Y9DQ5, Y9DQ9, Y9DS4, and Y9DS5; equipment blanks Y9DS8 and Y9DS7; and trip blanks Y9DT0, Y9DT1, and Y9DT3;
- Trichloroethene in equipment blank Y9DS7; and
- Toluene in samples Y9DQ5, Y9DQ9, Y9DS4, and Y9DS5; equipment blank Y9DS7; and trip blank Y9DT3.

The analytes listed above were found in associated method blanks and storage blanks (see Table 1A). Results listed above are considered nondetected (U) according to the National Functional Guidelines. Methylene chloride results above CRQL and less than four times blank concentration are reported as nondetected at the reported concentration.

C. Results for the following analyte are qualified as estimated due to a large percent difference (%D) in the associated CCV and are flagged "UJ" in Table 1A.

- 1,2,3-Trichlorobenzene in sample Y9DP4, trip blanks Y9DT0 and Y9DT1, and method blank VBLK9E.

A %D of -31.4% was reported for 1,2,3-trichlorobenzene in the 04/05/14 22:23 CCV, which exceeds the $\pm$30.0% validation criterion for opening CCVs.

D. For QC samples Y9DP4MS and Y9DP4MSD, the MSD recovery for trichloroethene (130%) exceeds the QC limit of 71-120% and the relative percent differences (RPDs) for trichloroethene (26%) and toluene (16%) exceed the QC limits of 0-14% and 0-13%, respectively. Results reported may indicate poor laboratory technique or matrix effects which may interfere with analysis. The effect on data quality is not known.

Results for QC samples Y9DR0MS and Y9DR0MSD (in SDG Y9DQ5) were not reviewed.

E. Several samples (see table below) required reanalysis to obtain results within the calibration range for the indicated analytes. Results for these analytes are reported from the diluted analysis in Table 1A. Unless noted elsewhere, other results are reported from the undiluted analysis.

Sample	Dilution	Analytes
Y9DP4	400	cis-1,2-Dichloroethene and trichloroethene
Y9DQ5	1000	Trichloroethene
Y9DQ9	10	cis-1,2-Dichloroethene
Y9DS4	5.0	Trichloroethene
Y9DS5	5.0	Trichloroethene

Lab KAP (KAP Technologies, Inc.) **SDG** Y9DS0 & Y9DQ5 **Case** 44217 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DP4 MW42-0314 Field_Sample Water/TRACE 20.0 ug/L			Y9DS8 EB SAIA-EL02-0314 Field_Sample Water/TRACE 1.0 ug/L			Y9DT0 TB SAIA-RL01-0314 Field_Sample Water/TRACE 1.0 ug/L			Y9DT1 TB SAIA-RL02-0314 Field_Sample Water/TRACE 1.0 ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	10	U		0.50	U		0.50	U		0.50	U	
Chloromethane	10	U		0.50	U		0.50	U		0.50	U	
Vinyl chloride	10	U		0.50	U		0.50	U		0.50	U	
Bromomethane	10	U		0.50	U		0.50	U		0.50	U	
Chloroethane	10	U		0.50	U		0.50	U		0.50	U	
Trichlorofluoromethane	10	U		0.50	U		0.50	U		0.50	U	
1,1-Dichloroethene	10	U		0.50	U		0.50	U		0.50	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U		0.50	U		0.50	U		0.50	U	
Acetone	100	U		5.0	U		5.0	U		5.0	U	
Carbon disulfide	10	U		0.50	U		0.50	U		0.50	U	
Methyl acetate	10	U		0.50	U		0.50	U		0.50	U	
Methylene chloride	10	U	B	0.50	U	B	0.50	U	B	0.50	U	B
trans-1,2-Dichloroethene	75			0.50	U		0.50	U		0.50	U	
Methyl tert-butyl ether	10	U		0.50	U		0.50	U		0.50	U	
1,1-Dichloroethane	25			0.50	U		0.50	U		0.50	U	
cis-1,2-Dichloroethene	4000		E	0.50	U		0.50	U		0.50	U	
2-Butanone	100	U		5.0	U		5.0	U		5.0	U	
Bromochloromethane	10	U		0.50	U		0.50	U		0.50	U	
Chloroform	10	U		0.50	U		0.50	U		0.50	U	
1,1,1-Trichloroethane	10	U		0.50	U		0.50	U		0.50	U	
Cyclohexane	10	U		0.50	U		0.50	U		0.50	U	
Carbon tetrachloride	10	U		0.50	U		0.50	U		0.50	U	
Benzene	10	U		0.50	U		0.50	U		0.50	U	
1,2-Dichloroethane	10	U		0.50	U		0.50	U		0.50	U	

Lab KAP (KAP Technologies, Inc.) **SDG** Y9DS0 & Y9DQ5 **Case** 44217 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DP4 MW42-0314 Field_Sample Water/TRACE 20.0 ug/L			Y9DS8 EB SAIA-EL02-0314 Field_Sample Water/TRACE 1.0 ug/L			Y9DT0 TB SAIA-RL01-0314 Field_Sample Water/TRACE 1.0 ug/L			Y9DT1 TB SAIA-RL02-0314 Field_Sample Water/TRACE 1.0 ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Trichloroethene	390		D,E	0.50	U		0.50	U		0.50	U	
Methylcyclohexane	10	U		0.50	U		0.50	U		0.50	U	
1,2-Dichloropropane	10	U		0.50	U		0.50	U		0.50	U	
Bromodichloromethane	10	U		0.50	U		0.50	U		0.50	U	
cis-1,3-Dichloropropene	10	U		0.50	U		0.50	U		0.50	U	
4-Methyl-2-pentanone	100	U		5.0	U		5.0	U		5.0	U	
Toluene	10	U	D	0.50	U		0.50	U		0.50	U	
trans-1,3-Dichloropropene	10	U		0.50	U		0.50	U		0.50	U	
1,1,2-Trichloroethane	10	U		0.50	U		0.50	U		0.50	U	
Tetrachloroethene	10	U		0.50	U		0.50	U		0.50	U	
2-Hexanone	100	U		5.0	U		5.0	U		5.0	U	
Dibromochloromethane	10	U		0.50	U		0.50	U		0.50	U	
1,2-Dibromoethane	10	U		0.50	U		0.50	U		0.50	U	
Chlorobenzene	10	U		0.50	U		0.50	U		0.50	U	
Ethylbenzene	10	U		0.50	U		0.50	U		0.50	U	
o-Xylene	10	U		0.50	U		0.50	U		0.50	U	
m,p-Xylene	10	U		0.50	U		0.50	U		0.50	U	
Styrene	10	U		0.50	U		0.50	U		0.50	U	
Bromoform	10	U		0.50	U		0.50	U		0.50	U	
Isopropylbenzene	10	U		0.50	U		0.50	U		0.50	U	
1,1,2,2-Tetrachloroethane	10	U		0.50	U		0.50	U		0.50	U	
1,3-Dichlorobenzene	10	U		0.50	U		0.50	U		0.50	U	
1,4-Dichlorobenzene	10	U		0.50	U		0.50	U		0.50	U	
1,2-Dichlorobenzene	10	U		0.50	U		0.50	U		0.50	U	
1,2-Dibromo-3-chloropropane	10	U		0.50	U		0.50	U		0.50	U	
1,2,4-Trichlorobenzene	10	U		0.50	U		0.50	U		0.50	U	
1,2,3-Trichlorobenzene	10	UJ	C	0.50	U		0.50	UJ	C	0.50	UJ	C
1,2,3-Trichloropropane	10	U		0.50	U		0.50	U		0.50	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample.

Lab KAP (KAP Technologies, Inc.) **SDG** Y9DS0 & Y9DQ5 **Case** 44217 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample	**VBLK9C**			**VBLK9E**			**VHBLK01**					
Location	**N/A**			**N/A**			**N/A**					
Type	**Method_Blank**			**Method_Blank**			**Storage_Blank**					
Matrix/Level	**Water/TRACE**			**Water/TRACE**			**Water/TRACE**					
Dilution Factor	**1.0**			**1.0**			**1.0**					
% Moisture												
Units	**ug/L**			**ug/L**			**ug/L**					
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	0.50	U		0.50	U		0.50	U				
Chloromethane	0.50	U		0.50	U		0.50	U				
Vinyl chloride	0.50	U		0.50	U		0.50	U				
Bromomethane	0.50	U		0.50	U		0.50	U				
Chloroethane	0.50	U		0.50	U		0.50	U				
Trichlorofluoromethane	0.50	U		0.50	U		0.50	U				
1,1-Dichloroethene	0.50	U		0.50	U		0.50	U				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U		0.50	U		0.50	U				
Acetone	5.0	U		5.0	U		5.0	U				
Carbon disulfide	0.50	U		0.50	U		0.50	U				
Methyl acetate	0.50	U		0.50	U		0.50	U				
Methylene chloride	0.11	J	A	0.23	J	A	0.31	J	A			
trans-1,2-Dichloroethene	0.50	U		0.50	U		0.50	U				
Methyl tert-butyl ether	0.50	U		0.50	U		0.50	U				
1,1-Dichloroethane	0.50	U		0.50	U		0.50	U				
cis-1,2-Dichloroethene	0.50	U		0.50	U		0.50	U				
2-Butanone	5.0	U		5.0	U		5.0	U				
Bromochloromethane	0.50	U		0.50	U		0.50	U				
Chloroform	0.50	U		0.50	U		0.50	U				
1,1,1-Trichloroethane	0.50	U		0.50	U		0.50	U				
Cyclohexane	0.50	U		0.50	U		0.50	U				
Carbon tetrachloride	0.50	U		0.50	U		0.50	U				
Benzene	0.50	U		0.50	U		0.50	U				
1,2-Dichloroethane	0.50	U		0.50	U		0.50	U				

Lab KAP (KAP Technologies, Inc.) **SDG** Y9DS0 & Y9DQ5 **Case** 44217 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample	**VBLK9C**			**VBLK9E**			**VHBLK01**					
Location	**N/A**			**N/A**			**N/A**					
Type	**Method_Blank**			**Method_Blank**			**Storage_Blank**					
Matrix/Level	**Water/TRACE**			**Water/TRACE**			**Water/TRACE**					
Dilution Factor	**1.0**			**1.0**			**1.0**					
% Moisture												
Units	**ug/L**			**ug/L**			**ug/L**					
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Trichloroethene	0.50	U		0.50	U		0.50	U				
Methylcyclohexane	0.50	U		0.50	U		0.50	U				
1,2-DichloropropanD	0.50	U		0.50	U		0.50	U				
Bromodichloromethane	0.50	U		0.50	U		0.50	U				
cis-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U				
4-Methyl-2-pentanone	5.0	U		5.0	U		5.0	U				
Toluene	0.50	U		0.12	J	A	0.15	J	A			
trans-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U				
1,1,2-Trichloroethane	0.50	U		0.50	U		0.50	U				
Tetrachloroethene	0.50	U		0.50	U		0.50	U				
2-Hexanone	5.0	U		5.0	U		5.0	U				
Dibromochloromethane	0.50	U		0.50	U		0.50	U				
1,2-Dibromoethane	0.50	U		0.50	U		0.50	U				
Chlorobenzene	0.50	U		0.50	U		0.50	U				
Ethylbenzene	0.50	U		0.50	U		0.50	U				
o-Xylene	0.50	U		0.50	U		0.50	U				
m,p-Xylene	0.50	U		0.50	U		0.50	U				
Styrene	0.50	U		0.50	U		0.50	U				
Bromoform	0.50	U		0.50	U		0.50	U				
Isopropylbenzene	0.50	U		0.50	U		0.50	U				
1,1,2,2-Tetrachloroethane	0.50	U		0.50	U		0.50	U				
1,3-Dichlorobenzene	0.50	U		0.50	U		0.50	U				
1,4-Dichlorobenzene	0.50	U		0.50	U		0.50	U				
1,2-Dichlorobenzene	0.50	U		0.50	U		0.50	U				
1,2-Dibromo-3-chloropropane	0.50	U		0.50	U		0.50	U				
1,2,4-Trichlorobenzene	0.50	U		0.50	U		0.50	U				
1,2,3-Trichlorobenzene	0.50	U		0.50	UJ	C	0.50	U				
1,2,3-Trichloropropane	0.50	U		0.50	U		0.50	U				

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample.

Lab KAP (KAP Technologies, Inc.) **SDG** Y9DS0 & Y9DQ5 **Case** 44217 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DQ5 SAIA-MW1A-0314 Field_Sample Water/TRACE 200.0 ug/L			Y9DQ9 SAIA-MW2B-0314 Field_Sample Water/TRACE 1.0 ug/L			Y9DS4 D4 SAIA-MW7-0314 Field_Sample Water/TRACE 1.0 ug/L			Y9DS5 D4 SAIA-MW97-0314 Field_Sample Water/TRACE 1.0 ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	100	U		0.50	U		0.50	U		0.50	U	
Chloromethane	100	U		0.50	U		0.50	U		0.50	U	
Vinyl chloride	100	U		0.50	U		0.50	U		0.50	U	
Bromomethane	100	U		0.50	U		0.50	U		0.50	U	
Chloroethane	100	U		0.50	U		0.50	U		0.50	U	
Trichlorofluoromethane	100	U		0.50	U		0.50	U		0.50	U	
1,1-Dichloroethene	100	U		0.50	U		0.50	U		0.50	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	U		0.50	U		0.50	U		0.50	U	
Acetone	1000	U		5.0	U		5.0	U		5.0	U	
Carbon disulfide	100	U		0.50	U		0.50	U		0.50	U	
Methyl acetate	100	U		0.50	U		0.50	U		0.50	U	
Methylene chloride	190	U	B	0.50	U	B	0.64	U	B	0.50	U	B
trans-1,2-Dichloroethene	71	J	A	7.2			1.1			1.1		
Methyl tert-butyl ether	100	U		0.50	U		0.50	U		0.50	U	
1,1-Dichloroethane	21	J	A	0.50	U		0.30	J	A	0.37	J	A
cis-1,2-Dichloroethene	3300			69		E	16			17		
2-Butanone	1000	U		5.0	U		5.0	U		5.0	U	
Bromochloromethane	100	U		0.50	U		0.50	U		0.50	U	
Chloroform	100	U		0.50	U		0.50	U		0.50	U	
1,1,1-Trichloroethane	100	U		0.50	U		0.50	U		0.50	U	
Cyclohexane	100	U		0.24	J	A	0.50	U		0.50	U	
Carbon tetrachloride	100	U		0.50	U		0.50	U		0.50	U	
Benzene	100	U		0.50	U		0.50	U		0.50	U	
1,2-Dichloroethane	100	U		6.6			0.96			1.1		

Lab KAP (KAP Technologies, Inc.) **SDG** Y9DS0 & Y9DQ5 **Case** 44217 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DQ5 SAIA-MW1A-0314 Field_Sample Water/TRACE 200.0 ug/L			Y9DQ9 SAIA-MW2B-0314 Field_Sample Water/TRACE 1.0 ug/L			Y9DS4 D4 SAIA-MW7-0314 Field_Sample Water/TRACE 1.0 ug/L			Y9DS5 D4 SAIA-MW97-0314 Field_Sample Water/TRACE 1.0 ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Trichloroethene	7400		E	6.8			24		E	22		E
Methylcyclohexane	100	U		0.50	U		0.50	U		0.50	U	
1,2-Dichloropropane	100	U		0.50	U		0.50	U		0.50	U	
Bromodichloromethane	100	U		0.50	U		0.50	U		0.50	U	
cis-1,3-Dichloropropene	100	U		0.50	U		0.50	U		0.50	U	
4-Methyl-2-pentanone	1000	U		5.0	U		5.0	U		5.0	U	
Toluene	100	U	B	0.50	U	B	0.50	U	B	0.50	U	B
trans-1,3-Dichloropropene	100	U		0.50	U		0.50	U		0.50	U	
1,1,2-Trichloroethane	100	U		0.50	U		0.50	U		0.50	U	
Tetrachloroethene	100	U		0.50	U		0.50	U		0.50	U	
2-Hexanone	1000	U		5.0	U		5.0	U		5.0	U	
Dibromochloromethane	100	U		0.50	U		0.50	U		0.50	U	
1,2-Dibromoethane	100	U		0.50	U		0.50	U		0.50	U	
Chlorobenzene	100	U		0.50	U		0.50	U		0.50	U	
Ethylbenzene	100	U		0.50	U		0.50	U		0.50	U	
o-Xylene	100	U		0.50	U		0.50	U		0.50	U	
m,p-Xylene	100	U		0.50	U		0.50	U		0.50	U	
Styrene	100	U		0.50	U		0.50	U		0.50	U	
Bromoform	100	U		0.50	U		0.50	U		0.50	U	
Isopropylbenzene	100	U		0.50	U		0.50	U		0.50	U	
1,1,2,2-Tetrachloroethane	100	U		0.50	U		0.50	U		0.50	U	
1,3-Dichlorobenzene	100	U		0.50	U		0.11	J	A	0.12	J	A
1,4-Dichlorobenzene	100	U		0.50	U		0.14	J	A	0.50	U	
1,2-Dichlorobenzene	100	U		0.50	U		0.50	U		0.50	U	
1,2-Dibromo-3-chloropropane	100	U		0.50	U		0.50	U		0.50	U	
1,2,4-Trichlorobenzene	100	U		0.50	U		0.50	U		0.50	U	
1,2,3-Trichlorobenzene	100	U		0.50	U		0.50	U		0.50	U	
1,2,3-Trichloropropane	100	U		0.50	U		0.50	U		0.50	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample.

Lab KAP (KAP Technologies, Inc.) **SDG** Y9DS0 & Y9DQ5 **Case** 44217 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DS7 EB SAIA-EL01-0314 Field_Sample Water/TRACE 1.0 ug/L			Y9DT3 TB SAIA-RL04-0314 Field_Sample Water/TRACE 1.0 ug/L			VBLK42 N/A Method_Blank Water/TRACE 1.0 ug/L			VBLK9J N/A Method_Blank Water/TRACE 1.0 ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
Vinyl chloride	0.50	U		0.50	U		0.50	U		0.50	U	
Bromomethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Trichlorofluoromethane	0.50	U		0.50	U		0.50	U		0.50	U	
1,1-Dichloroethene	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Acetone	5.0	U		3.4	J	A	5.0	U		5.0	U	
Carbon disulfide	0.50	U		0.50	U		0.50	U		0.50	U	
Methyl acetate	0.50	U		0.50	U		0.50	U		0.50	U	
Methylene chloride	0.53	U	B	0.50	U	B	0.85			0.82		
trans-1,2-Dichloroethene	0.50	U		0.50	U		0.50	U		0.50	U	
Methyl tert-butyl ether	0.50	U		0.50	U		0.50	U		0.50	U	
1,1-Dichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
cis-1,2-Dichloroethene	0.50	U		0.50	U		0.50	U		0.50	U	
2-Butanone	5.0	U		5.0	U		5.0	U		5.0	U	
Bromochloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chloroform	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,1-Trichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Cyclohexane	0.50	U		0.50	U		0.50	U		0.50	U	
Carbon tetrachloride	0.50	U		0.50	U		0.50	U		0.50	U	
Benzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	

Lab KAP (KAP Technologies, Inc.) **SDG** Y9DS0 & Y9DQ5 **Case** 44217 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DS7 EB SAIA-EL01-0314 Field_Sample Water/TRACE 1.0 ug/L			Y9DT3 TB SAIA-RL04-0314 Field_Sample Water/TRACE 1.0 ug/L			VBLK42 N/A Method_Blank Water/TRACE 1.0 ug/L			VBLK9J N/A Method_Blank Water/TRACE 1.0 ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Trichloroethene	0.50	UJ	B	0.50	U		0.25	J	A	0.50	U	
Methylcyclohexane	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dichloropropane	0.50	U		0.50	U		0.50	U		0.50	U	
Bromodichloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
cis-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U		0.50	U	
4-Methyl-2-pentanone	5.0	U		5.0	U		5.0	U		5.0	U	
Toluene	0.50	U	B	0.50	U	B	0.13	J	A	0.14	J	A
trans-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,2-Trichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Tetrachloroethene	0.50	U		0.50	U		0.50	U		0.50	U	
2-Hexanone	5.0	U		5.0	U		5.0	U		5.0	U	
Dibromochloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dibromoethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
Ethylbenzene	0.50	U		0.50	U		0.50	U		0.50	U	
o-Xylene	0.50	U		0.50	U		0.50	U		0.50	U	
m,p-Xylene	0.50	U		0.50	U		0.50	U		0.50	U	
Styrene	0.50	U		0.50	U		0.50	U		0.50	U	
Bromoform	0.50	U		0.50	U		0.50	U		0.50	U	
Isopropylbenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,2,2-Tetrachloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
1,3-Dichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,4-Dichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dibromo-3-chloropropane	0.50	U		0.50	U		0.50	U		0.50	U	
1,2,4-Trichlorobenzene	0.50	U		0.50	U		0.098	J	A	0.50	U	
1,2,3-Trichlorobenzene	0.50	U		0.50	U		0.074	J	A	0.50	U	
1,2,3-Trichloropropane	0.50	U		0.50	U		0.50	U		0.50	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample.

Lab KAP (KAP Technologies, Inc.) **SDG** Y9DS0 & Y9DQ5 **Case** 44217 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	**VHBLK01 Storage_Blank Water/TRACE 1.0 ug/L**											
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	0.50	U										
Chloromethane	0.50	U										
Vinyl chloride	0.50	U										
Bromomethane	0.50	U										
Chloroethane	0.50	U										
Trichlorofluoromethane	0.50	U										
1,1-Dichloroethene	0.50	U										
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U										
Acetone	5.0	U										
Carbon disulfide	0.50	U										
Methyl acetate	0.50	U										
Methylene chloride	0.55											
trans-1,2-Dichloroethene	0.50	U										
Methyl tert-butyl ether	0.50	U										
1,1-Dichloroethane	0.50	U										
cis-1,2-Dichloroethene	0.50	U										
2-Butanone	5.0	U										
Bromochloromethane	0.50	U										
Chloroform	0.50	U										
1,1,1-Trichloroethane	0.50	U										
Cyclohexane	0.50	U										
Carbon tetrachloride	0.50	U										
Benzene	0.50	U										
1,2-Dichloroethane	0.50	U										

Lab KAP (KAP Technologies, Inc.) **SDG** Y9DS0 & Y9DQ5 **Case** 44217 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample	**VHBLK01**											
Location												
Type	**Storage_Blank**											
Matrix/Level	**Water/TRACE**											
Dilution Factor	**1.0**											
% Moisture												
Units	**ug/L**											
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Trichloroethene	0.50	U										
Methylcyclohexane	0.50	U										
1,2-DichloropropanD	0.50	U										
Bromodichloromethane	0.50	U										
cis-1,3-Dichloropropene	0.50	U										
4-Methyl-2-pentanone	5.0	U										
Toluene	0.50	U										
trans-1,3-Dichloropropene	0.50	U										
1,1,2-Trichloroethane	0.50	U										
Tetrachloroethene	0.50	U										
2-Hexanone	5.0	U										
Dibromochloromethane	0.50	U										
1,2-Dibromoethane	0.50	U										
Chlorobenzene	0.50	U										
Ethylbenzene	0.50	U										
o-Xylene	0.50	U										
m,p-Xylene	0.50	U										
Styrene	0.50	U										
Bromoform	0.50	U										
Isopropylbenzene	0.50	U										
1,1,2,2-Tetrachloroethane	0.50	U										
1,3-Dichlorobenzene	0.50	U										
1,4-Dichlorobenzene	0.50	U										
1,2-Dichlorobenzene	0.50	U										
1,2-Dibromo-3-chloropropane	0.50	U										
1,2,4-Trichlorobenzene	0.50	U										
1,2,3-Trichlorobenzene	0.50	U										
1,2,3-Trichloropropane	0.50	U										

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample.

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," June 2008.

U The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9DQ9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 44217 Mod. Ref No.: 2210.2 SDG No.: Y9DQ5

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-6390.05

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: G28527

Level: (TRACE or LOW/MED) TRACE Date Received: 03/28/2014

% Moisture: not dec. _____ Date Analyzed: 04/07/2014

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	000075-28-5	~~Unknown-01~~ Isobutane	2.05	2.1	NJ
02	000106-97-8	~~Unknown-02~~ Butane	2.19	1.6	NJ
03		~~Unknown-03~~	~~2.54~~	~~0.71~~	~~J~~
04	000078-78-4	~~Unknown-04~~ Butane, 2-methyl-	2.72	2.3	NJ
05		Unknown-05	~~2.86~~	~~1.9~~	~~J~~
06		~~Unknown-06~~	2.89	2.6	J
07		~~Unknown-07~~ C_5H_{10} cyclic alkane	4.28	4.7	NJ
08		Unknown-08	6.11	~~0.79~~	~~J~~
09		Unknown-09	7.17	0.99	J
10	~~000463-71-8~~	cis-1,3-Dichloropropene-d4	10.72	8.7	NJ
11					
12		SL, 4/5/14.			
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

0255

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9DS4 (D4)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 44217 Mod. Ref No.: 2210.2 SDG No.: Y9DQ5

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-6390.07

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: G28534

Level: (TRACE or LOW/MED) TRACE Date Received: 03/28/2014

% Moisture: not dec. _____ Date Analyzed: 04/07/2014

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	000075-28-5	~~Unknown-01~~ Isobutane	2.05	0.61	NJ
02		Unknown-02	2.73	0.51	~~J~~
03		~~Unknown-03~~	2.92	4.6	J
04	000075-18-3	Dimethyl sulfide	4.06	2.1	NJ
05		~~Unknown-04~~ C_5H_{10} cyclic alkane	4.27	0.37	NJ
06		~~Unknown-05~~	4.29	0.46	~~J~~
07	~~000110-54-3~~	~~Unknown-06~~ Hexane (~~CAS#~~)	5.04	0.87	~~NJ~~
08		Unknown-07	5.77	0.75	J
09	~~000463-71-8~~	cis-1,3-Dichloropropene-d4	10.73	~~7.6~~	~~NJ~~
10		~~Unknown-08~~	11.91	0.42	J
11					
12		S4, 6/5/14.			
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

9384

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9DS5 (D4)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 44217 Mod. Ref No.: 2210.2 SDG No.: Y9DQ5

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-6390.08

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: G28536

Level: (TRACE or LOW/MED) TRACE Date Received: 03/28/2014

% Moisture: not dec. _____ Date Analyzed: 04/07/2014

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	000075-28-5	~~Unknown-01~~ Isobutane	2.06	0.53	NJ
02		Unknown-02	2.74	~~0.44~~	~~J~~
03		Unknown-03	2.87	1.4	J
04		~~Unknown-04~~	2.97	0.44	J
05	000075-18-3	Dimethyl sulfide	4.06	1.9	NJ
06		~~Unknown-05~~ C_5H_{10} cyclic alkene	4.27	0.92	NJ
07		Unknown-06	5.76	0.71	J
08	~~000463-71-8~~	~~cis 1,3 Dichloropropene d4~~	~~10.73~~	~~8.2~~	~~NJ~~
09					
10		SL, 6/5/14.			
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

0443

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Modified by ESAT (EPA Contract EP-W-13-029, TDF 10106031, ICF International).
Reviewer: Santiago Lee. DCN: 17081.

As directed by the Contracting Officer Representative (COR), a Tier 2 data review was performed for the samples other than Y9DQ5, Y9DQ9, and Y9DS5 and associated field QC samples (a tier 3 level review was performed for Y9DQ5, Y9DQ9, Y9DS4, Y9DS5, Y9DS7, and Y9DT3). The reviewer checked the SDG narrative for QC issues, confirmed EXES qualifiers, and added calibration qualifiers, as necessary.

SDG Narrative: The SDG narrative indicates that no QC issues were encountered during sample receiving, login, or analysis.

EXES Qualifiers (forms review only): The EXES qualifications are consistent with the National Functional Guidelines (NFG) except for the trace volatile matrix spike/matrix spike duplicate (MS/MSD) qualification. The relative percent differences (RPDs) between MS/MSD recoveries for 1,1-dichloroethene (62%), trichloroethene (100%), benzene (40%), toluene (16%), and chlorobenzene (24%) exceed QC limits but EXES did not qualify the associated results. ESAT added J-flags to the detected results for benzene, toluene, and chlorobenzene in MYDR0MS and Y9DR0MSD.

The percent relative standard deviation (%RSD) of 1,2,3-trichlorobenzene (33.7%) exceeds the 30.0% validation criterion in the 04/14/14 initial calibration. The NFG indicates the use of professional judgment for nondetected results. Since the relative response factor (RRF) for the CRQL standard (1.5090) is greater than the average RRF (1.1097), sensitivity at the CRQL is adequate; no qualification is needed.

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DQ5 SAIA-MW1A-0314 Field_Sample Water/TRACE 200.0 ug/L		Y9DQ5DL SAIA-MW1A-0314 Field_Sample Water/TRACE 1000.0 ug/L		Y9DQ6 SAIA-MW1B-0314 Field_Sample Water/TRACE 1.0 ug/L		Y9DQ6DL SAIA-MW1B-0314 Field_Sample Water/TRACE 8.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Dichlorodifluoromethane	100	U	500	U	0.50	U	4.0	U
Chloromethane	100	U	500	U	0.50	U	4.0	U
Vinyl chloride	100	U	500	U	0.50	U	4.0	U
Bromomethane	100	U	500	U	0.50	U	4.0	U
Chloroethane	100	U	500	U	0.50	U	4.0	U
Trichlorofluoromethane	100	U	500	U	0.50	U	4.0	U
1,1-Dichloroethene	100	U	500	U	0.50	U	4.0	U
1,1,2-Trichloro-1,2,2-trifluoroethane	100	U	500	U	0.50	U	4.0	U
Acetone	1000	U	5000	U	5.0	U	40	U
Carbon disulfide	100	U	500	U	0.50	U	4.0	U
Methyl acetate	100	U	500	U	0.50	U	4.0	U
Methylene chloride	100	U	500	U	0.50	U	4.0	U
trans-1,2-Dichloroethene	71	J	500	U	4.6		5.1	
Methyl tert-butyl ether	100	U	500	U	0.50	U	4.0	U
1,1-Dichloroethane	21	J	500	U	0.25	J	4.0	U
cis-1,2-Dichloroethene	3300		3000		62		59	
2-Butanone	1000	U	5000	U	5.0	U	40	U
Bromochloromethane	100	U	500	U	0.50	U	4.0	U
Chloroform	100	U	500	U	0.50	U	4.0	U
1,1,1-Trichloroethane	100	U	500	U	0.50	U	4.0	U
Cyclohexane	100	U	500	U	0.24	J	4.0	U
Carbon tetrachloride	100	U	500	U	0.50	U	4.0	U
Benzene	100	U	500	U	0.50	U	4.0	U
1,2-Dichloroethane	100	U	500	U	0.48	J	4.0	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DQ5 SAIA-MW1A-0314 Field_Sample Water/TRACE 200.0 ug/L		Y9DQ5DL SAIA-MW1A-0314 Field_Sample Water/TRACE 1000.0 ug/L		Y9DQ6 SAIA-MW1B-0314 Field_Sample Water/TRACE 1.0 ug/L		Y9DQ6DL SAIA-MW1B-0314 Field_Sample Water/TRACE 8.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Trichloroethene	7200		7400		17		13	
Methylcyclohexane	100	U	500	U	0.50	U	4.0	U
1,2-Dichloropropane	100	U	500	U	0.50	U	4.0	U
Bromodichloromethane	100	U	500	U	0.50	U	4.0	U
cis-1,3-Dichloropropene	100	U	500	U	0.50	U	4.0	U
4-Methyl-2-pentanone	1000	U	5000	U	5.0	U	40	U
Toluene	100	U	500	U	0.50	U	4.0	U
trans-1,3-Dichloropropene	100	U	500	U	0.50	U	4.0	U
1,1,2-Trichloroethane	100	U	500	U	0.50	U	4.0	U
Tetrachloroethene	100	U	500	U	0.50	U	4.0	U
2-Hexanone	1000	U	5000	U	5.0	U	40	U
Dibromochloromethane	100	U	500	U	0.50	U	4.0	U
1,2-Dibromoethane	100	U	500	U	0.50	U	4.0	U
Chlorobenzene	100	U	500	U	0.50	U	4.0	U
Ethylbenzene	100	U	500	U	0.50	U	4.0	U
o-Xylene	100	U	500	U	0.50	U	4.0	U
m,p-Xylene	100	U	500	U	0.50	U	4.0	U
Styrene	100	U	500	U	0.50	U	4.0	U
Bromoform	100	U	500	U	0.50	U	4.0	U
Isopropylbenzene	100	U	500	U	0.50	U	4.0	U
1,1,2,2-Tetrachloroethane	100	U	500	U	0.50	U	4.0	U
1,3-Dichlorobenzene	100	U	500	U	0.50	U	4.0	U
1,4-Dichlorobenzene	100	U	500	U	0.50	U	4.0	U
1,2-Dichlorobenzene	100	U	500	U	0.50	U	4.0	U
1,2-Dibromo-3-chloropropane	100	U	500	U	0.50	U	4.0	U
1,2,4-Trichlorobenzene	100	U	500	U	0.50	U	4.0	U
1,2,3-Trichlorobenzene	100	U	500	U	0.50	U	4.0	U
1,2,3-Trichloropropane	100	U	500	U	0.50	U	4.0	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DQ7 SAIA-MW1C-0314 Field_Sample Water/TRACE 8.0 ug/L		Y9DQ7DL SAIA-MW1C-0314 Field_Sample Water/TRACE 80.0 ug/L		Y9DQ8 SAIA-MW2A-0314 Field_Sample Water/TRACE 20.0 ug/L		Y9DQ8DL SAIA-MW2A-0314 Field_Sample Water/TRACE 200.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Dichlorodifluoromethane	4.0	U	40	U	10	U	100	U
Chloromethane	4.0	U	40	U	10	U	100	U
Vinyl chloride	4.0	U	40	U	10	U	100	U
Bromomethane	4.0	U	40	U	10	U	100	U
Chloroethane	4.0	U	40	U	10	U	100	U
Trichlorofluoromethane	4.0	U	40	U	10	U	100	U
1,1-Dichloroethene	4.0	U	40	U	10	U	100	U
1,1,2-Trichloro-1,2,2-trifluoroethane	4.0	U	40	U	10	U	100	U
Acetone	40	U	400	U	100	U	1000	U
Carbon disulfide	4.0	U	40	U	10	U	100	U
Methyl acetate	4.0	U	40	U	10	U	100	U
Methylene chloride	4.0	U	40	U	10	U	100	U
trans-1,2-Dichloroethene	34		34	J	74		90	J
Methyl tert-butyl ether	4.0	U	40	U	10	U	100	U
1,1-Dichloroethane	3.9	J	40	U	4.8	J	100	U
cis-1,2-Dichloroethene	370		370		1700		2000	
2-Butanone	40	U	400	U	100	U	1000	U
Bromochloromethane	4.0	U	40	U	10	U	100	U
Chloroform	4.0	U	40	U	10	U	100	U
1,1,1-Trichloroethane	4.0	U	40	U	10	U	100	U
Cyclohexane	1.6	J	40	U	10	U	100	U
Carbon tetrachloride	4.0	U	40	U	10	U	100	U
Benzene	4.0	U	40	U	10	U	100	U
1,2-Dichloroethane	35		43		10	U	100	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DQ7 SAIA-MW1C-0314 Field_Sample Water/TRACE 8.0 ug/L		Y9DQ7DL SAIA-MW1C-0314 Field_Sample Water/TRACE 80.0 ug/L		Y9DQ8 SAIA-MW2A-0314 Field_Sample Water/TRACE 20.0 ug/L		Y9DQ8DL SAIA-MW2A-0314 Field_Sample Water/TRACE 200.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Trichloroethene	490		420		1300		1100	
Methylcyclohexane	4.0	U	40	U	10	U	100	U
1,2-Dichloropropane	4.0	U	40	U	10	U	100	U
Bromodichloromethane	4.0	U	40	U	10	U	100	U
cis-1,3-Dichloropropene	4.0	U	40	U	10	U	100	U
4-Methyl-2-pentanone	40	U	400	U	100	U	1000	U
Toluene	4.0	U	40	U	10	U	100	U
trans-1,3-Dichloropropene	4.0	U	40	U	10	U	100	U
1,1,2-Trichloroethane	4.0	U	40	U	10	U	100	U
Tetrachloroethene	4.0	U	40	U	10	U	100	U
2-Hexanone	40	U	400	U	100	U	1000	U
Dibromochloromethane	4.0	U	40	U	10	U	100	U
1,2-Dibromoethane	4.0	U	40	U	10	U	100	U
Chlorobenzene	4.0	U	40	U	10	U	100	U
Ethylbenzene	4.0	U	40	U	10	U	100	U
o-Xylene	4.0	U	40	U	10	U	100	U
m,p-Xylene	4.0	U	40	U	10	U	100	U
Styrene	4.0	U	40	U	10	U	100	U
Bromoform	4.0	U	40	U	10	U	100	U
Isopropylbenzene	4.0	U	40	U	10	U	100	U
1,1,2,2-Tetrachloroethane	4.0	U	40	U	10	U	100	U
1,3-Dichlorobenzene	4.0	U	40	U	10	U	100	U
1,4-Dichlorobenzene	4.0	U	40	U	10	U	100	U
1,2-Dichlorobenzene	4.0	U	40	U	10	U	100	U
1,2-Dibromo-3-chloropropane	4.0	U	40	U	10	U	100	U
1,2,4-Trichlorobenzene	4.0	U	40	U	10	U	100	U
1,2,3-Trichlorobenzene	4.0	U	40	U	10	U	100	U
1,2,3-Trichloropropane	4.0	U	40	U	10	U	100	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DQ9 SAIA-MW2B-0314 Field_Sample Water/TRACE 1.0 ug/L		Y9DQ9DL SAIA-MW2B-0314 Field_Sample Water/TRACE 10.0 ug/L		Y9DR0 SAIA-MW2C-0314 Field_Sample Water/TRACE 4.0 ug/L		Y9DR0DL SAIA-MW2C-0314 Field_Sample Water/TRACE 40.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Dichlorodifluoromethane	0.50	U	5.0	U	2.0	U	20	U
Chloromethane	0.50	U	5.0	U	2.0	U	20	U
Vinyl chloride	0.50	U	5.0	U	2.0	U	20	U
Bromomethane	0.50	U	0.35	J	2.0	U	20	U
Chloroethane	0.50	U	5.0	U	2.0	U	20	U
Trichlorofluoromethane	0.50	U	5.0	U	2.0	U	20	U
1,1-Dichloroethene	0.50	U	5.0	U	4.7		20	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	5.0	U	2.0	U	20	U
Acetone	5.0	U	50	U	20	U	200	U
Carbon disulfide	0.50	U	5.0	U	2.0	U	20	U
Methyl acetate	0.50	U	5.0	U	2.0	U	20	U
Methylene chloride	0.50	U	5.0	U	2.0	U	20	U
trans-1,2-Dichloroethene	7.2		6.2		28		32	
Methyl tert-butyl ether	0.50	U	5.0	U	2.0	U	20	U
1,1-Dichloroethane	0.50	U	5.0	U	3.0		3.3	J
cis-1,2-Dichloroethene	79		69		280		360	
2-Butanone	5.0	U	50	U	20	U	200	U
Bromochloromethane	0.50	U	5.0	U	2.0	U	20	U
Chloroform	0.50	U	5.0	U	2.0	U	20	U
1,1,1-Trichloroethane	0.50	U	5.0	U	2.0	U	20	U
Cyclohexane	0.24	J	5.0	U	1.7	J	1.0	J
Carbon tetrachloride	0.50	U	5.0	U	2.0	U	20	U
Benzene	0.50	U	5.0	U	6.1		20	U
1,2-Dichloroethane	6.6		5.8		32		39	

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DQ9 SAIA-MW2B-0314 Field_Sample Water/TRACE 1.0 ug/L		Y9DQ9DL SAIA-MW2B-0314 Field_Sample Water/TRACE 10.0 ug/L		Y9DR0 SAIA-MW2C-0314 Field_Sample Water/TRACE 4.0 ug/L		Y9DR0DL SAIA-MW2C-0314 Field_Sample Water/TRACE 40.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Trichloroethene	6.8		5.6		210		260	
Methylcyclohexane	0.50	U	5.0	U	2.0	U	20	U
1,2-Dichloropropane	0.50	U	5.0	U	0.19	J	20	U
Bromodichloromethane	0.50	U	5.0	U	2.0	U	20	U
cis-1,3-Dichloropropene	0.50	U	5.0	U	2.0	U	20	U
4-Methyl-2-pentanone	5.0	U	50	U	20	U	200	U
Toluene	0.50	U	5.0	U	2.0	U	20	U
trans-1,3-Dichloropropene	0.50	U	5.0	U	2.0	U	20	U
1,1,2-Trichloroethane	0.50	U	5.0	U	2.0	U	20	U
Tetrachloroethene	0.50	U	5.0	U	2.0	U	20	U
2-Hexanone	5.0	U	50	U	20	U	200	U
Dibromochloromethane	0.50	U	5.0	U	2.0	U	20	U
1,2-Dibromoethane	0.50	U	5.0	U	2.0	U	20	U
Chlorobenzene	0.50	U	5.0	U	2.0	U	20	U
Ethylbenzene	0.50	U	5.0	U	2.0	U	20	U
o-Xylene	0.50	U	5.0	U	2.0	U	20	U
m,p-Xylene	0.50	U	5.0	U	2.0	U	20	U
Styrene	0.50	U	5.0	U	2.0	U	20	U
Bromoform	0.50	U	5.0	U	2.0	U	20	U
Isopropylbenzene	0.50	U	5.0	U	2.0	U	20	U
1,1,2,2-Tetrachloroethane	0.50	U	5.0	U	2.0	U	20	U
1,3-Dichlorobenzene	0.50	U	5.0	U	2.0	U	20	U
1,4-Dichlorobenzene	0.50	U	5.0	U	2.0	U	20	U
1,2-Dichlorobenzene	0.50	U	5.0	U	2.0	U	20	U
1,2-Dibromo-3-chloropropane	0.50	U	5.0	U	2.0	U	20	U
1,2,4-Trichlorobenzene	0.50	U	5.0	U	2.0	U	20	U
1,2,3-Trichlorobenzene	0.50	U	5.0	U	2.0	U	20	U
1,2,3-Trichloropropane	0.50	U	5.0	U	2.0	U	20	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DR0MS SAIA-MW2C-0314 Matrix_Spike Water/TRACE 4.0 ug/L		Y9DR0MSD SAIA-MW2C-0314 Matrix_Spike_Duplicate Water/TRACE 4.0 ug/L		Y9DS4 SAIA-MW7-0314 Field_Sample Water/TRACE 1.0 ug/L		Y9DS4DL SAIA-MW7-0314 Field_Sample Water/TRACE 5.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Dichlorodifluoromethane	2.0	U	2.0	UJ	0.50	U	2.5	U
Chloromethane	2.0	U	2.0	UJ	0.50	U	2.5	U
Vinyl chloride	2.0	U	2.0	U	0.50	U	2.5	U
Bromomethane	2.0	U	2.0	UJ	0.50	U	2.5	U
Chloroethane	2.0	U	2.0	UJ	0.50	U	2.5	U
Trichlorofluoromethane	2.0	U	2.0	U	0.50	U	2.5	U
1,1-Dichloroethene	26	J	16	J	0.50	U	2.5	U
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0	U	0.50	U	2.5	U
Acetone	20	U	20	U	5.0	U	25	U
Carbon disulfide	2.0	U	2.0	UJ	0.50	U	2.5	U
Methyl acetate	2.0	U	2.0	U	0.50	U	2.5	U
Methylene chloride	2.0	U	2.0	U	0.50	U	2.5	U
trans-1,2-Dichloroethene	27	J	19		1.1		1.4	J
Methyl tert-butyl ether	2.0	U	2.0	U	0.50	U	2.5	U
1,1-Dichloroethane	2.8		1.9	J	0.30	J	0.25	J
cis-1,2-Dichloroethene	270	J	300		16		17	
2-Butanone	20	U	20	U	5.0	U	25	U
Bromochloromethane	2.0	U	2.0	U	0.50	U	2.5	U
Chloroform	2.0	U	2.0	U	0.50	U	2.5	U
1,1,1-Trichloroethane	2.0	U	2.0	U	0.50	U	2.5	U
Cyclohexane	1.6	J	1.1	J	0.50	U	2.5	U
Carbon tetrachloride	2.0	U	2.0	U	0.50	U	2.5	U
Benzene	30	**J**	22	**J**	0.50	U	2.5	U
1,2-Dichloroethane	30		31		0.96		1.2	J

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DR0MS SAIA-MW2C-0314 Matrix_Spike Water/TRACE 4.0 ug/L		Y9DR0MSD SAIA-MW2C-0314 Matrix_Spike_Duplicate Water/TRACE 4.0 ug/L		Y9DS4 SAIA-MW7-0314 Field_Sample Water/TRACE 1.0 ug/L		Y9DS4DL SAIA-MW7-0314 Field_Sample Water/TRACE 5.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Trichloroethene	220	J	240	J	27		24	
Methylcyclohexane	2.0	U	2.0	U	0.50	U	2.5	U
1,2-Dichloropropane	2.0	U	2.0	U	0.50	U	2.5	U
Bromodichloromethane	2.0	U	2.0	U	0.50	U	2.5	U
cis-1,3-Dichloropropene	2.0	U	2.0	U	0.50	U	2.5	U
4-Methyl-2-pentanone	20	U	20	U	5.0	U	25	U
Toluene	21	**J**	18	**J**	0.50	U	2.5	U
trans-1,3-Dichloropropene	2.0	U	2.0	U	0.50	U	2.5	U
1,1,2-Trichloroethane	2.0	U	2.0	U	0.50	U	2.5	U
Tetrachloroethene	2.0	U	2.0	U	0.50	U	2.5	U
2-Hexanone	20	U	20	U	5.0	U	25	U
Dibromochloromethane	2.0	U	2.0	U	0.50	U	2.5	U
1,2-Dibromoethane	2.0	U	2.0	U	0.50	U	2.5	U
Chlorobenzene	23	**J**	18	**J**	0.50	U	2.5	U
Ethylbenzene	2.0	U	2.0	U	0.50	U	2.5	U
o-Xylene	2.0	U	2.0	U	0.50	U	2.5	U
m,p-Xylene	2.0	U	2.0	U	0.50	U	2.5	U
Styrene	2.0	U	2.0	U	0.50	U	2.5	U
Bromoform	2.0	U	2.0	U	0.50	U	2.5	U
Isopropylbenzene	2.0	U	2.0	U	0.50	U	2.5	U
1,1,2,2-Tetrachloroethane	2.0	U	2.0	U	0.50	U	2.5	U
1,3-Dichlorobenzene	2.0	U	2.0	U	0.11	J	0.16	J
1,4-Dichlorobenzene	2.0	U	2.0	U	0.14	J	2.5	U
1,2-Dichlorobenzene	2.0	U	2.0	U	0.50	U	2.5	U
1,2-Dibromo-3-chloropropane	2.0	U	2.0	U	0.50	U	2.5	U
1,2,4-Trichlorobenzene	2.0	U	2.0	U	0.50	U	2.5	U
1,2,3-Trichlorobenzene	2.0	U	2.0	U	0.50	U	2.5	U
1,2,3-Trichloropropane	2.0	U	2.0	U	0.50	U	2.5	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DS5 SAIA-MW97-0314 Field_Sample Water/TRACE 1.0 ug/L		Y9DS5DL SAIA-MW97-0314 Field_Sample Water/TRACE 5.0 ug/L		Y9DS7 SAIA-EL01-0314 Field_Sample Water/TRACE 1.0 ug/L		Y9DT3 SAIA-RL04-0314 Field_Sample Water/TRACE 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Dichlorodifluoromethane	0.50	U	2.5	U	0.50	U	0.50	U
Chloromethane	0.50	U	2.5	U	0.50	U	0.50	U
Vinyl chloride	0.50	U	2.5	U	0.50	U	0.50	U
Bromomethane	0.50	U	2.5	U	0.50	U	0.50	U
Chloroethane	0.50	U	2.5	U	0.50	U	0.50	U
Trichlorofluoromethane	0.50	U	2.5	U	0.50	U	0.50	U
1,1-Dichloroethene	0.50	U	2.5	U	0.50	U	0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	2.5	U	0.50	U	0.50	U
Acetone	5.0	U	25	U	5.0	U	3.4	J
Carbon disulfide	0.50	U	2.5	U	0.50	U	0.50	U
Methyl acetate	0.50	U	2.5	U	0.50	U	0.50	U
Methylene chloride	0.50	U	2.5	U	0.50	U	0.50	U
trans-1,2-Dichloroethene	1.1		1.2	J	0.50	U	0.50	U
Methyl tert-butyl ether	0.50	U	2.5	U	0.50	U	0.50	U
1,1-Dichloroethane	0.37	J	0.40	J	0.50	U	0.50	U
cis-1,2-Dichloroethene	17		16		0.50	U	0.50	U
2-Butanone	5.0	U	25	U	5.0	U	5.0	U
Bromochloromethane	0.50	U	2.5	U	0.50	U	0.50	U
Chloroform	0.50	U	2.5	U	0.50	U	0.50	U
1,1,1-Trichloroethane	0.50	U	2.5	U	0.50	U	0.50	U
Cyclohexane	0.50	U	2.5	UJ	0.50	U	0.50	U
Carbon tetrachloride	0.50	U	2.5	U	0.50	U	0.50	U
Benzene	0.50	U	2.5	U	0.50	U	0.50	U
1,2-Dichloroethane	1.1		1.1	J	0.50	U	0.50	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DS5 SAIA-MW97-0314 Field_Sample Water/TRACE 1.0 ug/L		Y9DS5DL SAIA-MW97-0314 Field_Sample Water/TRACE 5.0 ug/L		Y9DS7 SAIA-EL01-0314 Field_Sample Water/TRACE 1.0 ug/L		Y9DT3 SAIA-RL04-0314 Field_Sample Water/TRACE 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Trichloroethene	28		22		0.50	U	0.50	U
Methylcyclohexane	0.50	U	2.5	UJ	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	2.5	UJ	0.50	U	0.50	U
Bromodichloromethane	0.50	U	2.5	UJ	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	U	2.5	U	0.50	U	0.50	U
4-Methyl-2-pentanone	5.0	U	25	U	5.0	U	5.0	U
Toluene	0.50	U	2.5	U	0.50	U	0.50	U
trans-1,3-Dichloropropene	0.50	U	2.5	U	0.50	U	0.50	U
1,1,2-Trichloroethane	0.50	U	2.5	U	0.50	U	0.50	U
Tetrachloroethene	0.50	U	2.5	U	0.50	U	0.50	U
2-Hexanone	5.0	U	25	U	5.0	U	5.0	U
Dibromochloromethane	0.50	U	2.5	U	0.50	U	0.50	U
1,2-Dibromoethane	0.50	U	2.5	U	0.50	U	0.50	U
Chlorobenzene	0.50	U	2.5	U	0.50	U	0.50	U
Ethylbenzene	0.50	U	2.5	U	0.50	U	0.50	U
o-Xylene	0.50	U	2.5	U	0.50	U	0.50	U
m,p-Xylene	0.50	U	2.5	U	0.50	U	0.50	U
Styrene	0.50	U	2.5	U	0.50	U	0.50	U
Bromoform	0.50	U	2.5	U	0.50	U	0.50	U
Isopropylbenzene	0.50	U	2.5	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	2.5	U	0.50	U	0.50	U
1,3-Dichlorobenzene	0.12	J	0.17	J	0.50	U	0.50	U
1,4-Dichlorobenzene	0.50	U	2.5	U	0.50	U	0.50	U
1,2-Dichlorobenzene	0.50	U	2.5	U	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	0.50	U	2.5	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	0.50	U	2.5	U	0.50	U	0.50	U
1,2,3-Trichlorobenzene	0.50	U	2.5	U	0.50	U	0.50	U
1,2,3-Trichloropropane	0.50	U	2.5	UJ	0.50	U	0.50	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	VBLK42 Method_Blank Water/TRACE 1.0 ug/L		VBLK63 Method_Blank Water/TRACE 1.0 ug/L		VBLK9G Method_Blank Water/TRACE 1.0 ug/L		VBLK9J Method_Blank Water/TRACE 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Dichlorodifluoromethane	0.50	U	0.50	U	0.50	U	0.50	U
Chloromethane	0.50	U	0.50	U	0.50	U	0.50	U
Vinyl chloride	0.50	U	0.50	U	0.50	U	0.50	U
Bromomethane	0.50	U	0.50	U	0.50	U	0.50	U
Chloroethane	0.50	U	0.50	U	0.50	U	0.50	U
Trichlorofluoromethane	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	0.50	U	0.50	U
Acetone	5.0	U	5.0	U	5.0	U	5.0	U
Carbon disulfide	0.50	U	0.50	U	0.50	U	0.50	U
Methyl acetate	0.50	U	0.50	U	0.50	U	0.50	U
Methylene chloride	0.85		0.34	J	0.39	J	0.82	
trans-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U
Methyl tert-butyl ether	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U
2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U
Bromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U
Chloroform	0.50	U	0.50	U	0.50	U	0.50	U
1,1,1-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U
Cyclohexane	0.50	U	0.50	U	0.50	U	0.50	U
Carbon tetrachloride	0.50	U	0.50	U	0.50	U	0.50	U
Benzene	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	VBLK42 Method_Blank Water/TRACE 1.0 ug/L		VBLK63 Method_Blank Water/TRACE 1.0 ug/L		VBLK9G Method_Blank Water/TRACE 1.0 ug/L		VBLK9J Method_Blank Water/TRACE 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Trichloroethene	0.25	J	0.50	U	0.50	U	0.50	U
Methylcyclohexane	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	0.50	U	0.50	U	0.50	U
Bromodichloromethane	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U
4-Methyl-2-pentanone	5.0	U	5.0	U	5.0	U	5.0	U
Toluene	0.13	J	0.50	U	0.50	U	0.14	J
trans-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U
Tetrachloroethene	0.50	U	0.50	U	0.50	U	0.50	U
2-Hexanone	5.0	U	5.0	U	5.0	U	5.0	U
Dibromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromoethane	0.50	U	0.50	U	0.50	U	0.50	U
Chlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U
Ethylbenzene	0.50	U	0.038	J	0.50	U	0.50	U
o-Xylene	0.50	U	0.036	J	0.50	U	0.50	U
m,p-Xylene	0.50	U	0.069	J	0.50	U	0.50	U
Styrene	0.50	U	0.032	J	0.50	U	0.50	U
Bromoform	0.50	U	0.50	U	0.50	U	0.50	U
Isopropylbenzene	0.50	U	0.034	J	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	0.50	U	0.50	U
1,3-Dichlorobenzene	0.50	U	0.052	J	0.50	U	0.50	U
1,4-Dichlorobenzene	0.50	U	0.073	J	0.50	U	0.50	U
1,2-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	0.098	J	0.12	J	0.50	U	0.50	U
1,2,3-Trichlorobenzene	0.074	J	0.11	J	0.50	U	0.50	U
1,2,3-Trichloropropane	0.50	U	0.50	U	0.50	U	0.50	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	**VHBLK01 Storage_Blank Water/TRACE 1.0 ug/L**							
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Dichlorodifluoromethane	0.50	U						
Chloromethane	0.50	U						
Vinyl chloride	0.50	U						
Bromomethane	0.50	U						
Chloroethane	0.50	U						
Trichlorofluoromethane	0.50	U						
1,1-Dichloroethene	0.50	U						
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U						
Acetone	5.0	U						
Carbon disulfide	0.50	U						
Methyl acetate	0.50	U						
Methylene chloride	0.55							
trans-1,2-Dichloroethene	0.50	U						
Methyl tert-butyl ether	0.50	U						
1,1-Dichloroethane	0.50	U						
cis-1,2-Dichloroethene	0.50	U						
2-Butanone	5.0	U						
Bromochloromethane	0.50	U						
Chloroform	0.50	U						
1,1,1-Trichloroethane	0.50	U						
Cyclohexane	0.50	U						
Carbon tetrachloride	0.50	U						
Benzene	0.50	U						
1,2-Dichloroethane	0.50	U						

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	VHBLK01 Storage_Blank Water/TRACE 1.0 ug/L							
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Trichloroethene	0.50	U						
Methylcyclohexane	0.50	U						
1,2-Dichloropropane	0.50	U						
Bromodichloromethane	0.50	U						
cis-1,3-Dichloropropene	0.50	U						
4-Methyl-2-pentanone	5.0	U						
Toluene	0.50	U						
trans-1,3-Dichloropropene	0.50	U						
1,1,2-Trichloroethane	0.50	U						
Tetrachloroethene	0.50	U						
2-Hexanone	5.0	U						
Dibromochloromethane	0.50	U						
1,2-Dibromoethane	0.50	U						
Chlorobenzene	0.50	U						
Ethylbenzene	0.50	U						
o-Xylene	0.50	U						
m,p-Xylene	0.50	U						
Styrene	0.50	U						
Bromoform	0.50	U						
Isopropylbenzene	0.50	U						
1,1,2,2-Tetrachloroethane	0.50	U						
1,3-Dichlorobenzene	0.50	U						
1,4-Dichlorobenzene	0.50	U						
1,2-Dichlorobenzene	0.50	U						
1,2-Dibromo-3-chloropropane	0.50	U						
1,2,4-Trichlorobenzene	0.50	U						
1,2,3-Trichlorobenzene	0.50	UJ						
1,2,3-Trichloropropane	0.50	U						

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

BNA

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DQ5 SAIA-MW1A-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DQ6 SAIA-MW1B-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DQ7 SAIA-MW1C-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DQ8 SAIA-MW2A-0314 Field_Sample Water/LOW 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Benzaldehyde	5.0	U	5.0	U	5.0	U	5.0	U
Phenol	5.0	U	5.0	U	5.0	U	5.0	U
Bis (2-Chloroethyl) ether	5.0	U	5.0	U	5.0	U	5.0	U
2-Chlorophenol	5.0	U	5.0	U	5.0	U	5.0	U
2-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U
2,2-Oxybis (1-Chloropropane)	5.0	U	5.0	U	5.0	U	5.0	U
Acetophenone	5.0	U	5.0	U	5.0	U	5.0	U
4-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U
N-Nitroso-di-n-propylamine	5.0	U	5.0	U	5.0	U	5.0	U
Hexachloroethane	5.0	U	5.0	U	5.0	U	5.0	U
Nitrobenzene	5.0	U	5.0	U	5.0	U	5.0	U
Isophorone	5.0	U	5.0	U	5.0	U	5.0	U
2-Nitrophenol	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dimethylphenol	5.0	U	5.0	U	5.0	U	5.0	U
Bis (2-Chloroethoxy) methane	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U
Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U
4-Chloroaniline	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorobutadiene	5.0	U	5.0	U	5.0	U	5.0	U
Caprolactam	5.0	U	5.0	U	5.0	U	5.0	U
4-Chloro-3-methylphenol	5.0	U	5.0	U	5.0	U	5.0	U
2-Methylnaphthalene	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorocyclopentadiene	5.0	U	5.0	U	5.0	U	5.0	U
2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U
2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U
1,1’-Biphenyl	5.0	U	5.0	U	5.0	U	5.0	U
2-Chloronaphthalene	5.0	U	5.0	U	5.0	U	5.0	U
2-Nitroaniline	10	U	10	U	10	U	10	U
Dimethylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
2,6-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U
Acenaphthylene	5.0	U	5.0	U	5.0	U	5.0	U
3-Nitroaniline	10	U	10	U	10	U	10	U
Acenaphthene	5.0	U	5.0	U	5.0	U	5.0	U

Revisions are in Bold. Gray shading: See report for tier 3 level review (Y9DS0&Q5-SV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

BNA

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DQ5 SAIA-MW1A-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DQ6 SAIA-MW1B-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DQ7 SAIA-MW1C-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DQ8 SAIA-MW2A-0314 Field_Sample Water/LOW 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
2,4-Dinitrophenol	10	U	10	U	10	U	10	U
4-Nitrophenol	10	U	10	U	10	U	10	U
Dibenzofuran	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U
Diethylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
Fluorene	5.0	U	5.0	U	5.0	U	5.0	U
4-Chlorophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U
4-Nitroaniline	10	U	10	U	10	U	10	U
4,6-Dinitro-2-methylphenol	10	U	10	U	10	U	10	U
N-Nitrosodiphenylamine	5.0	U	5.0	U	5.0	U	5.0	U
1,2,4,5-Tetrachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U
4-Bromophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U
Atrazine	5.0	U	5.0	U	5.0	U	5.0	U
Pentachlorophenol	10	U	10	U	10	U	10	U
Phenanthrene	5.0	U	5.0	U	5.0	U	5.0	U
Anthracene	5.0	U	5.0	U	5.0	U	5.0	U
Carbazole	5.0	U	5.0	U	7.1		5.0	U
Di-n-butylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
Fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U
Pyrene	5.0	U	5.0	U	5.0	U	5.0	U
Butylbenzylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
3,3-Dichlorobenzidine	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (a) anthracene	5.0	U	5.0	U	5.0	U	5.0	U
Chrysene	5.0	U	5.0	U	5.0	U	5.0	U
Bis (2-Ethylhexyl) phthalate	5.0	U	5.0	U	5.0	U	5.0	U
Di-n-octylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (b) fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (k) fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (a) pyrene	5.0	U	5.0	U	5.0	U	5.0	U
Indeno (1,2,3-cd) pyrene	5.0	U	5.0	U	5.0	U	5.0	U
Dibenzo (a,h) anthracene	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (g,h,i) perylene	5.0	U	5.0	U	5.0	U	5.0	U
2,3,4,6-Tetrachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U

Revisions are in Bold. Gray shading: See report for tier 3 level review (Y9DS0&Q5-SV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

BNA

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DQ9 SAIA-MW2B-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DR0 SAIA-MW2C-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DR0MS SAIA-MW2C-0314 Matrix_Spike Water/LOW 1.0 ug/L		Y9DR0MSD SAIA-MW2C-0314 Matrix_Spike_Duplicate Water/LOW 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Benzaldehyde	5.0	U	5.0	U	5.0	U	5.0	U
Phenol	5.0	U	5.0	U	52	J	52	J
Bis (2-Chloroethyl) ether	5.0	U	5.0	U	5.0	U	5.0	U
2-Chlorophenol	5.0	U	5.0	U	48		47	
2-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U
2,2-Oxybis (1-Chloropropane)	5.0	U	5.0	U	5.0	U	5.0	U
Acetophenone	5.0	U	5.0	U	5.0	U	5.0	U
4-Methylphenol	5.0	U	5.0	U	5.0	UJ	5.0	UJ
N-Nitroso-di-n-propylamine	5.0	U	5.0	U	33		31	
Hexachloroethane	5.0	U	5.0	U	5.0	U	5.0	U
Nitrobenzene	5.0	U	5.0	U	5.0	U	5.0	U
Isophorone	5.0	U	5.0	U	5.0	U	5.0	U
2-Nitrophenol	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dimethylphenol	5.0	U	5.0	U	5.0	U	5.0	U
Bis (2-Chloroethoxy) methane	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U
Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U
4-Chloroaniline	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorobutadiene	5.0	U	5.0	U	5.0	U	5.0	U
Caprolactam	5.0	U	5.0	U	5.0	U	5.0	U
4-Chloro-3-methylphenol	5.0	U	5.0	U	56	J	55	J
2-Methylnaphthalene	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorocyclopentadiene	5.0	U	5.0	U	5.0	U	5.0	U
2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U
2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U
1,1’-Biphenyl	5.0	U	5.0	U	5.0	U	5.0	U
2-Chloronaphthalene	5.0	U	5.0	U	5.0	U	5.0	U
2-Nitroaniline	10	U	10	U	10	U	10	U
Dimethylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
2,6-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U
Acenaphthylene	5.0	U	5.0	U	5.0	U	5.0	U
3-Nitroaniline	10	U	10	U	10	U	10	U
Acenaphthene	5.0	U	5.0	U	32		31	

Revisions are in Bold. Gray shading: See report for tier 3 level review (Y9DS0&Q5-SV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

BNA

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DQ9 SAIA-MW2B-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DR0 SAIA-MW2C-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DR0MS SAIA-MW2C-0314 Matrix_Spike Water/LOW 1.0 ug/L		Y9DR0MSD SAIA-MW2C-0314 Matrix_Spike_Duplicate Water/LOW 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
2,4-Dinitrophenol	10	U	10	U	10	U	10	U
4-Nitrophenol	10	U	10	U	62	J	58	J
Dibenzofuran	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dinitrotoluene	5.0	U	5.0	U	35		32	
Diethylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
Fluorene	5.0	U	5.0	U	5.0	U	5.0	U
4-Chlorophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U
4-Nitroaniline	10	U	10	U	10	U	10	U
4,6-Dinitro-2-methylphenol	10	U	10	U	10	U	10	U
N-Nitrosodiphenylamine	5.0	U	5.0	U	5.0	U	5.0	U
1,2,4,5-Tetrachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U
4-Bromophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U
Atrazine	5.0	U	5.0	U	5.0	U	5.0	U
Pentachlorophenol	10	U	10	U	61	J	58	J
Phenanthrene	5.0	U	5.0	U	5.0	U	5.0	U
Anthracene	5.0	U	5.0	U	5.0	U	5.0	U
Carbazole	5.0	U	5.0	U	5.0	U	5.0	U
Di-n-butylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
Fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U
Pyrene	5.0	U	5.0	U	33		31	
Butylbenzylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
3,3-Dichlorobenzidine	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (a) anthracene	5.0	U	5.0	U	5.0	U	5.0	U
Chrysene	5.0	U	5.0	U	5.0	U	5.0	U
Bis (2-Ethylhexyl) phthalate	5.0	U	5.0	U	5.0	U	5.0	U
Di-n-octylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (b) fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (k) fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (a) pyrene	5.0	U	5.0	U	5.0	U	5.0	U
Indeno (1,2,3-cd) pyrene	5.0	U	5.0	U	5.0	U	5.0	U
Dibenzo (a,h) anthracene	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (g,h,i) perylene	5.0	U	5.0	U	5.0	U	5.0	U
2,3,4,6-Tetrachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U

Revisions are in Bold. Gray shading: See report for tier 3 level review (Y9DS0&Q5-SV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

BNA

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DS4 SAIA-MW7-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DS5 SAIA-MW97-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DS7 SAIA-EL01-0314 Field_Sample Water/LOW 1.0 ug/L		SBLK59 Method_Blank Water/LOW 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Benzaldehyde	5.0	U	5.0	U	5.0	U	5.0	U
Phenol	5.0	U	5.0	U	5.0	U	5.0	U
Bis (2-Chloroethyl) ether	5.0	U	5.0	U	5.0	U	5.0	U
2-Chlorophenol	5.0	U	5.0	U	5.0	U	5.0	U
2-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U
2,2-Oxybis (1-Chloropropane)	5.0	U	5.0	U	5.0	U	5.0	U
Acetophenone	5.0	U	5.0	U	5.0	U	5.0	U
4-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U
N-Nitroso-di-n-propylamine	5.0	U	5.0	U	5.0	U	5.0	U
Hexachloroethane	5.0	U	5.0	U	5.0	U	5.0	U
Nitrobenzene	5.0	U	5.0	U	5.0	U	5.0	U
Isophorone	5.0	U	5.0	U	5.0	U	5.0	U
2-Nitrophenol	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dimethylphenol	5.0	U	5.0	U	5.0	U	5.0	U
Bis (2-Chloroethoxy) methane	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U
Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U
4-Chloroaniline	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorobutadiene	5.0	U	5.0	U	5.0	U	5.0	U
Caprolactam	5.0	U	5.0	U	5.0	U	5.0	U
4-Chloro-3-methylphenol	5.0	U	5.0	U	5.0	U	5.0	U
2-Methylnaphthalene	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorocyclopentadiene	5.0	U	5.0	U	5.0	U	5.0	U
2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U
2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U
1,1’-Biphenyl	5.0	U	5.0	U	5.0	U	5.0	U
2-Chloronaphthalene	5.0	U	5.0	U	5.0	U	5.0	U
2-Nitroaniline	10	U	10	U	10	U	10	U
Dimethylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
2,6-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U
Acenaphthylene	5.0	U	5.0	U	5.0	U	5.0	U
3-Nitroaniline	10	U	10	U	10	U	10	U
Acenaphthene	5.0	U	5.0	U	5.0	U	5.0	U

Revisions are in Bold. Gray shading: See report for tier 3 level review (Y9DS0&Q5-SV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

BNA

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DS4 SAIA-MW7-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DS5 SAIA-MW97-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DS7 SAIA-EL01-0314 Field_Sample Water/LOW 1.0 ug/L		SBLK59 Method_Blank Water/LOW 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
2,4-Dinitrophenol	10	U	10	U	10	U	10	U
4-Nitrophenol	10	U	10	U	10	U	10	U
Dibenzofuran	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U
Diethylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
Fluorene	5.0	U	5.0	U	5.0	U	5.0	U
4-Chlorophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U
4-Nitroaniline	10	U	10	U	10	U	10	U
4,6-Dinitro-2-methylphenol	10	U	10	U	10	U	10	U
N-Nitrosodiphenylamine	5.0	U	5.0	U	5.0	U	5.0	U
1,2,4,5-Tetrachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U
4-Bromophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U
Atrazine	5.0	U	5.0	U	5.0	U	5.0	U
Pentachlorophenol	10	U	10	U	10	U	10	U
Phenanthrene	5.0	U	5.0	U	5.0	U	5.0	U
Anthracene	5.0	U	5.0	U	5.0	U	5.0	U
Carbazole	5.0	U	5.0	U	5.0	U	5.0	U
Di-n-butylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
Fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U
Pyrene	5.0	U	5.0	U	5.0	U	5.0	U
Butylbenzylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
3,3-Dichlorobenzidine	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (a) anthracene	5.0	U	5.0	U	5.0	U	5.0	U
Chrysene	5.0	U	5.0	U	5.0	U	5.0	U
Bis (2-Ethylhexyl) phthalate	5.0	U	5.0	U	5.0	U	5.0	U
Di-n-octylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (b) fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (k) fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (a) pyrene	5.0	U	5.0	U	5.0	U	5.0	U
Indeno (1,2,3-cd) pyrene	5.0	U	5.0	U	5.0	U	1.0	J
Dibenzo (a,h) anthracene	5.0	U	5.0	U	5.0	U	1.1	J
Benzo (g,h,i) perylene	5.0	U	5.0	U	5.0	U	1.2	J
2,3,4,6-Tetrachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U

Revisions are in Bold. Gray shading: See report for tier 3 level review (Y9DS0&Q5-SV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

BNA

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	**SBLK65 Method_Blank Water/LOW 1.0 ug/L**							
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Benzaldehyde	5.0	U						
Phenol	5.0	U						
Bis (2-Chloroethyl) ether	5.0	U						
2-Chlorophenol	5.0	U						
2-Methylphenol	5.0	U						
2,2-Oxybis (1-Chloropropane)	5.0	U						
Acetophenone	5.0	U						
4-Methylphenol	5.0	U						
N-Nitroso-di-n-propylamine	5.0	U						
Hexachloroethane	5.0	U						
Nitrobenzene	5.0	U						
Isophorone	5.0	U						
2-Nitrophenol	5.0	U						
2,4-Dimethylphenol	5.0	U						
Bis (2-Chloroethoxy) methane	5.0	U						
2,4-Dichlorophenol	5.0	U						
Naphthalene	5.0	U						
4-Chloroaniline	5.0	U						
Hexachlorobutadiene	5.0	U						
Caprolactam	5.0	U						
4-Chloro-3-methylphenol	5.0	U						
2-Methylnaphthalene	5.0	U						
Hexachlorocyclopentadiene	5.0	U						
2,4,6-Trichlorophenol	5.0	U						
2,4,5-Trichlorophenol	5.0	U						
1,1’-Biphenyl	5.0	U						
2-Chloronaphthalene	5.0	U						
2-Nitroaniline	10	U						
Dimethylphthalate	5.0	U						
2,6-Dinitrotoluene	5.0	U						
Acenaphthylene	5.0	U						
3-Nitroaniline	10	U						
Acenaphthene	5.0	U						

Revisions are in Bold. Gray shading: See report for tier 3 level review (Y9DS0&Q5-SV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

BNA

Sample **Location** **Type** **Matrix/Level** **Dilution Factor** **% Moisture** **Units**	**SBLK65** **Method_Blank** **Water/LOW** **1.0** **ug/L**							
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
2,4-Dinitrophenol	10	U						
4-Nitrophenol	10	U						
Dibenzofuran	5.0	U						
2,4-Dinitrotoluene	5.0	U						
Diethylphthalate	5.0	U						
Fluorene	5.0	U						
4-Chlorophenyl-phenylether	5.0	U						
4-Nitroaniline	10	U						
4,6-Dinitro-2-methylphenol	10	U						
N-Nitrosodiphenylamine	5.0	U						
1,2,4,5-Tetrachlorobenzene	5.0	U						
4-Bromophenyl-phenylether	5.0	U						
Hexachlorobenzene	5.0	U						
Atrazine	5.0	U						
Pentachlorophenol	10	U						
Phenanthrene	5.0	U						
Anthracene	5.0	U						
Carbazole	5.0	U						
Di-n-butylphthalate	5.0	U						
Fluoranthene	5.0	U						
Pyrene	5.0	U						
Butylbenzylphthalate	5.0	U						
3,3-Dichlorobenzidine	5.0	U						
Benzo (a) anthracene	5.0	U						
Chrysene	5.0	U						
Bis (2-Ethylhexyl) phthalate	5.0	U						
Di-n-octylphthalate	5.0	U						
Benzo (b) fluoranthene	5.0	U						
Benzo (k) fluoranthene	5.0	U						
Benzo (a) pyrene	5.0	U						
Indeno (1,2,3-cd) pyrene	5.0	U						
Dibenzo (a,h) anthracene	5.0	U						
Benzo (g,h,i) perylene	5.0	U						
2,3,4,6-Tetrachlorophenol	5.0	U						

Revisions are in Bold. Gray shading: See report for tier 3 level review (Y9DS0&Q5-SV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

BNA_SIM

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DQ5 SAIA-MW1A-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DQ5RX SAIA-MW1A-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DQ6 SAIA-MW1B-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DQ7 SAIA-MW1C-0314 Field_Sample Water/LOW 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
1,4-Dioxane	1.7	J	1.6	J	1.9		19	

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-14D-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

BNA_SIM

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DQ7DL SAIA-MW1C-0314 Field_Sample Water/LOW 5.0 ug/L		Y9DQ8 SAIA-MW2A-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DQ8DL SAIA-MW2A-0314 Field_Sample Water/LOW 5.0 ug/L		Y9DQ9 SAIA-MW2B-0314 Field_Sample Water/LOW 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
1,4-Dioxane	18		11		12		1.7	

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-14D-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

BNA_SIM

Sample	Y9DR0		Y9DR0DL		Y9DS4		Y9DS5	
Location	SAIA-MW2C-0314		SAIA-MW2C-0314		SAIA-MW7-0314		SAIA-MW97-0314	
Type	Field_Sample		Field_Sample		Field_Sample		Field_Sample	
Matrix/Level	Water/LOW		Water/LOW		Water/LOW		Water/LOW	
Dilution Factor	1.0		5.0		1.0		1.0	
% Moisture								
Units	ug/L		ug/L		ug/L		ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
1,4-Dioxane	13		14		1.9		2.0	

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-14D-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

BNA_SIM

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DS7 SAIA-EL01-0314 Field_Sample Water/LOW 1.0 ug/L		SBLK59 Method_Blank Water/LOW 1.0 ug/L		SBLK65 Method_Blank Water/LOW 1.0 ug/L			
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
1,4-Dioxane	0.50	U	0.50	U	0.50	U		

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-14D-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

Aroclor

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DQ5 SAIA-MW1A-0314 Field_Sample Water/ 1.0 ug/L		Y9DQ6 SAIA-MW1B-0314 Field_Sample Water/ 1.0 ug/L		Y9DQ7 SAIA-MW1C-0314 Field_Sample Water/ 1.0 ug/L		Y9DQ8 SAIA-MW2A-0314 Field_Sample Water/ 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Aroclor-1016	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1221	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1232	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1242	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1248	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1254	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1260	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1262	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1268	1.0	U	1.0	U	1.0	U	1.0	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-A-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

Aroclor

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DQ9 SAIA-MW2B-0314 Field_Sample Water/ 1.0 ug/L		Y9DR0 SAIA-MW2C-0314 Field_Sample Water/ 1.0 ug/L		Y9DR0MS SAIA-MW2C-0314 Matrix_Spike Water/ 1.0 ug/L		Y9DR0MSD SAIA-MW2C-0314 Matrix_Spike_Duplicate Water/ 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Aroclor-1016	1.0	U	1.0	U	3.3	J	4.0	J
Aroclor-1221	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1232	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1242	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1248	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1254	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1260	1.0	U	1.0	U	3.3		4.0	
Aroclor-1262	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1268	1.0	U	1.0	U	1.0	U	1.0	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-A-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DQ5 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194235 **SOW** SOM01.2

ESAT Modified Final Flag Results

Aroclor

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DS4 SAIA-MW7-0314 Field_Sample Water/ 1.0 ug/L		Y9DS5 SAIA-MW97-0314 Field_Sample Water/ 1.0 ug/L		Y9DS7 SAIA-EL01-0314 Field_Sample Water/ 1.0 ug/L		ABLK72 Method_Blank Water/ 1.0 0.00 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Aroclor-1016	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1221	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1232	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1242	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1248	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1254	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1260	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1262	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1268	1.0	U	1.0	U	1.0	U	1.0	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-A-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Modified by ESAT (EPA Contract EP-W-13-029, TDF 10106031, ICF International).
Reviewer: Santiago Lee. DCN: 17080.

As directed by the Contracting Officer Representative (COR), a Tier 2 data review was performed for the samples other than Y9DP4 and associated field QC samples (a tier 3 level review was performed for Y9DP4, Y9DS8, Y9DT0, and Y9DT1). The reviewer checked the SDG narrative for QC issues, confirmed EXES qualifiers, and added calibration qualifiers, as necessary.

SDG Narrative: The SDG narrative indicates that no QC issues were encountered during sample receiving, login, or analysis.

EXES Qualifiers (forms review only): The EXES qualifications are consistent with the National Functional Guidelines (NFG).

The percent relative standard deviations (%RSDs) for 1,2,4-trichlorobenzene and 1,2,3-trichlorobenzene exceed the 30.0% validation criterion in the 03/31/14 initial calibration. The NFG indicates the use of professional judgment for nondetected results. ESAT qualified the non-detected results as "UJ" for equipment blank Y9DS9, trip blank Y9DT2, and method blank VBLK8V because relative response factors (RRFs) for the CRQL standard are below the average RRFs, indicating low sensitivity at the CRQL.

Analytes	%RSD	RRF (0.5 ug/L)	Average RRF
1,2,4-Trichlorobenzene	34.2	0.5121	0.6652
1,2,3-Trichlorobenzene	35.0	0.2168	0.4204

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DP1 MW34-0314 Field_Sample Water/TRACE 5.0 ug/L		Y9DP1DL MW34-0314 Field_Sample Water/TRACE 40.0 ug/L		Y9DP2 MW934-0314 Field_Sample Water/TRACE 4.0 ug/L		Y9DP2DL MW934-0314 Field_Sample Water/TRACE 50.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Dichlorodifluoromethane	2.5	U	20	U	2.0	U	25	U
Chloromethane	2.5	U	20	U	2.0	U	25	U
Vinyl chloride	2.5	U	20	U	2.0	U	25	U
Bromomethane	2.5	U	20	U	2.0	U	25	U
Chloroethane	2.5	U	20	U	2.0	U	25	U
Trichlorofluoromethane	2.5	U	20	U	2.0	U	25	U
1,1-Dichloroethene	2.5	U	20	U	2.0	U	25	U
1,1,2-Trichloro-1,2,2-trifluoroethane	2.5	U	20	U	2.0	U	25	U
Acetone	25	U	200	U	20	U	250	U
Carbon disulfide	2.5	U	20	U	2.0	U	25	U
Methyl acetate	2.5	U	20	U	2.0	U	25	U
Methylene chloride	2.5	U	20	U	2.0	U	25	U
trans-1,2-Dichloroethene	25		24		20		19	J
Methyl tert-butyl ether	1.8	J	20	U	1.5	J	25	U
1,1-Dichloroethane	1.6	J	20	U	1.3	J	25	U
cis-1,2-Dichloroethene	400		470		480		450	
2-Butanone	25	U	200	U	20	U	250	U
Bromochloromethane	2.5	U	20	U	2.0	U	25	U
Chloroform	2.5	U	20	U	2.0	U	25	U
1,1,1-Trichloroethane	2.5	U	20	U	2.0	U	25	U
Cyclohexane	2.5	U	20	U	2.0	U	25	U
Carbon tetrachloride	2.5	U	20	U	2.0	U	25	U
Benzene	2.5	U	20	U	2.0	U	25	U
1,2-Dichloroethane	2.5	U	20	U	2.0	U	25	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DP1 MW34-0314 Field_Sample Water/TRACE 5.0 ug/L		Y9DP1DL MW34-0314 Field_Sample Water/TRACE 40.0 ug/L		Y9DP2 MW934-0314 Field_Sample Water/TRACE 4.0 ug/L		Y9DP2DL MW934-0314 Field_Sample Water/TRACE 50.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Trichloroethene	45		35		38		39	
Methylcyclohexane	2.5	U	20	U	2.0	U	25	U
1,2-Dichloropropane	2.5	U	20	U	2.0	U	25	U
Bromodichloromethane	2.5	U	20	U	2.0	U	25	U
cis-1,3-Dichloropropene	2.5	U	20	U	2.0	U	25	U
4-Methyl-2-pentanone	25	U	200	U	20	U	250	U
Toluene	2.5	U	20	U	2.0	U	25	U
trans-1,3-Dichloropropene	2.5	U	20	U	2.0	U	25	U
1,1,2-Trichloroethane	2.5	U	20	U	2.0	U	25	U
Tetrachloroethene	2.5	U	20	U	2.0	U	25	U
2-Hexanone	25	U	200	U	20	U	250	U
Dibromochloromethane	2.5	U	20	U	2.0	U	25	U
1,2-Dibromoethane	2.5	U	20	U	2.0	U	25	U
Chlorobenzene	2.5	U	20	U	2.0	U	25	U
Ethylbenzene	2.5	U	20	U	2.0	U	25	U
o-Xylene	2.5	U	20	U	2.0	U	25	U
m,p-Xylene	2.5	U	20	U	2.0	U	25	U
Styrene	2.5	U	20	U	2.0	U	25	U
Bromoform	2.5	U	20	U	2.0	U	25	U
Isopropylbenzene	2.5	U	20	U	2.0	U	25	U
1,1,2,2-Tetrachloroethane	2.5	U	20	U	2.0	U	25	U
1,3-Dichlorobenzene	2.5	U	20	U	2.0	U	25	U
1,4-Dichlorobenzene	2.5	U	20	U	2.0	U	25	U
1,2-Dichlorobenzene	2.5	U	20	U	2.0	U	25	U
1,2-Dibromo-3-chloropropane	2.5	U	20	U	2.0	U	25	U
1,2,4-Trichlorobenzene	2.5	U	20	U	2.0	U	25	U
1,2,3-Trichlorobenzene	2.5	U	20	UJ	2.0	U	25	UJ
1,2,3-Trichloropropane	2.5	U	20	U	2.0	U	25	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DP3 MW35-0314 Field_Sample Water/TRACE 1.0 ug/L		Y9DP3DL MW35-0314 Field_Sample Water/TRACE 8.0 ug/L		Y9DP4 MW42-0314 Field_Sample Water/TRACE 20.0 ug/L		Y9DP4DL MW42-0314 Field_Sample Water/TRACE 400.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Dichlorodifluoromethane	0.50	U	4.0	U	10	U	200	U
Chloromethane	0.50	U	4.0	U	10	U	200	U
Vinyl chloride	0.50	U	4.0	U	10	U	200	U
Bromomethane	0.50	U	4.0	U	10	U	200	U
Chloroethane	0.50	U	4.0	U	10	U	200	U
Trichlorofluoromethane	0.50	U	4.0	U	10	U	200	U
1,1-Dichloroethene	0.50	U	4.0	U	10	U	200	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	4.0	U	10	U	200	U
Acetone	5.0	U	40	U	100	U	2000	U
Carbon disulfide	0.50	U	4.0	U	10	U	200	U
Methyl acetate	0.50	U	4.0	U	10	U	200	U
Methylene chloride	0.50	U	4.0	U	10	U	200	U
trans-1,2-Dichloroethene	5.5		6.1		75		76	J
Methyl tert-butyl ether	0.50	U	4.0	U	10	U	200	U
1,1-Dichloroethane	0.33	J	4.0	U	25		200	U
cis-1,2-Dichloroethene	61		58		3500		4000	
2-Butanone	5.0	U	40	U	100	U	2000	U
Bromochloromethane	0.50	U	4.0	U	10	U	200	U
Chloroform	0.50	U	4.0	U	10	U	200	U
1,1,1-Trichloroethane	0.50	U	4.0	U	10	U	200	U
Cyclohexane	0.69		4.0	U	10	U	200	U
Carbon tetrachloride	0.50	U	4.0	U	10	U	200	U
Benzene	0.50	U	4.0	U	10	U	200	U
1,2-Dichloroethane	5.8		5.9		10	U	200	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DP3 MW35-0314 Field_Sample Water/TRACE 1.0 ug/L		Y9DP3DL MW35-0314 Field_Sample Water/TRACE 8.0 ug/L		Y9DP4 MW42-0314 Field_Sample Water/TRACE 20.0 ug/L		Y9DP4DL MW42-0314 Field_Sample Water/TRACE 400.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Trichloroethene	6.9		4.9		450		390	
Methylcyclohexane	0.50	U	4.0	U	10	U	200	U
1,2-Dichloropropane	0.50	U	4.0	U	10	U	200	U
Bromodichloromethane	0.50	U	4.0	U	10	U	200	U
cis-1,3-Dichloropropene	0.50	U	4.0	U	10	U	200	U
4-Methyl-2-pentanone	5.0	U	40	U	100	U	2000	U
Toluene	0.50	U	4.0	U	10	U	200	U
trans-1,3-Dichloropropene	0.50	U	4.0	U	10	U	200	U
1,1,2-Trichloroethane	0.50	U	4.0	U	10	U	200	U
Tetrachloroethene	0.50	U	4.0	U	10	U	200	U
2-Hexanone	5.0	U	40	U	100	U	2000	U
Dibromochloromethane	0.50	U	4.0	U	10	U	200	U
1,2-Dibromoethane	0.50	U	4.0	U	10	U	200	U
Chlorobenzene	0.50	U	4.0	U	10	U	200	U
Ethylbenzene	0.50	U	4.0	U	10	U	200	U
o-Xylene	0.50	U	4.0	U	10	U	200	U
m,p-Xylene	0.50	U	4.0	U	10	U	200	U
Styrene	0.50	U	4.0	U	10	U	200	U
Bromoform	0.50	U	4.0	U	10	U	200	U
Isopropylbenzene	0.50	U	4.0	U	10	U	200	U
1,1,2,2-Tetrachloroethane	0.50	U	4.0	U	10	U	200	U
1,3-Dichlorobenzene	0.50	U	4.0	U	10	U	200	U
1,4-Dichlorobenzene	0.50	U	4.0	U	10	U	200	U
1,2-Dichlorobenzene	0.50	U	4.0	U	10	U	200	U
1,2-Dibromo-3-chloropropane	0.50	U	4.0	U	10	U	200	U
1,2,4-Trichlorobenzene	0.50	U	4.0	U	10	U	200	U
1,2,3-Trichlorobenzene	0.50	U	4.0	UJ	10	UJ	200	U
1,2,3-Trichloropropane	0.50	U	4.0	U	10	U	200	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DP4MS MW42-0314 Matrix_Spike Water/TRACE 20.0 ug/L		Y9DP4MSD MW42-0314 Matrix_Spike_Duplicate Water/TRACE 20.0 ug/L		Y9DP5 MW43-0314 Field_Sample Water/TRACE 1.0 ug/L		Y9DP5DL MW43-0314 Field_Sample Water/TRACE 4.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Dichlorodifluoromethane	10	U	10	U	0.50	U	2.0	U
Chloromethane	10	U	10	U	0.50	U	2.0	U
Vinyl chloride	10	U	10	U	0.50	U	2.0	U
Bromomethane	10	U	10	U	0.50	U	2.0	U
Chloroethane	10	U	10	U	0.50	U	2.0	U
Trichlorofluoromethane	10	U	10	U	0.50	U	2.0	U
1,1-Dichloroethene	83		91		0.50	U	2.0	U
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10	U	0.50	U	2.0	U
Acetone	100	U	100	U	5.0	U	20	U
Carbon disulfide	10	U	10	U	0.50	U	2.0	U
Methyl acetate	10	U	10	U	0.50	U	2.0	U
Methylene chloride	10	U	10	U	0.50	U	2.0	U
trans-1,2-Dichloroethene	68		67		1.4		1.3	J
Methyl tert-butyl ether	10	U	10	U	0.50	U	2.0	U
1,1-Dichloroethane	24		24		0.22	J	2.0	U
cis-1,2-Dichloroethene	3500		3500		25		25	
2-Butanone	100	U	100	U	5.0	U	20	U
Bromochloromethane	10	U	10	U	0.50	U	2.0	U
Chloroform	10	U	10	U	0.50	U	2.0	U
1,1,1-Trichloroethane	10	U	10	U	0.50	U	2.0	U
Cyclohexane	10	U	10	U	1.2		0.81	J
Carbon tetrachloride	10	U	10	U	0.50	U	2.0	U
Benzene	99	J	110	J	0.50	U	2.0	U
1,2-Dichloroethane	10	U	10	U	7.6		7.1	

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DP4MS MW42-0314 Matrix_Spike Water/TRACE 20.0 ug/L		Y9DP4MSD MW42-0314 Matrix_Spike_Duplicate Water/TRACE 20.0 ug/L		Y9DP5 MW43-0314 Field_Sample Water/TRACE 1.0 ug/L		Y9DP5DL MW43-0314 Field_Sample Water/TRACE 4.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Trichloroethene	550	J	580	J	8.6		7.6	
Methylcyclohexane	10	U	10	U	0.50	U	2.0	U
1,2-Dichloropropane	10	U	10	U	0.50	U	2.0	U
Bromodichloromethane	10	U	10	U	0.50	U	2.0	U
cis-1,3-Dichloropropene	10	U	10	U	0.50	U	2.0	U
4-Methyl-2-pentanone	100	U	100	U	5.0	U	20	U
Toluene	94	J	110	J	0.50	U	2.0	U
trans-1,3-Dichloropropene	10	U	10	U	0.50	U	2.0	U
1,1,2-Trichloroethane	10	U	10	U	0.50	U	2.0	U
Tetrachloroethene	10	U	10	U	0.50	U	2.0	U
2-Hexanone	100	U	100	U	5.0	U	20	U
Dibromochloromethane	10	U	10	U	0.50	U	2.0	U
1,2-Dibromoethane	10	U	10	U	0.50	U	2.0	U
Chlorobenzene	99		110		0.50	U	2.0	U
Ethylbenzene	10	U	10	U	0.50	U	2.0	U
o-Xylene	10	U	10	U	0.50	U	2.0	U
m,p-Xylene	10	U	10	U	0.50	U	2.0	U
Styrene	10	U	10	U	0.50	U	2.0	U
Bromoform	10	U	10	U	0.50	U	2.0	U
Isopropylbenzene	10	U	10	U	0.50	U	2.0	U
1,1,2,2-Tetrachloroethane	10	U	10	U	0.50	U	2.0	U
1,3-Dichlorobenzene	10	U	10	U	0.50	U	2.0	U
1,4-Dichlorobenzene	10	U	10	U	0.50	U	2.0	U
1,2-Dichlorobenzene	10	U	10	U	0.50	U	2.0	U
1,2-Dibromo-3-chloropropane	10	U	10	U	0.50	U	2.0	U
1,2,4-Trichlorobenzene	10	U	10	U	0.50	U	2.0	U
1,2,3-Trichlorobenzene	10	UJ	10	UJ	0.50	U	2.0	UJ
1,2,3-Trichloropropane	10	U	10	U	0.50	U	2.0	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DP6 MW44-0314 Field_Sample Water/TRACE 1.0 ug/L		Y9DP6DL MW44-0314 Field_Sample Water/TRACE 4.0 ug/L		Y9DQ1 MW49-0314 Field_Sample Water/TRACE 1.0 ug/L		Y9DQ1DL MW49-0314 Field_Sample Water/TRACE 8.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Dichlorodifluoromethane	0.50	U	2.0	U	0.50	U	4.0	U
Chloromethane	0.50	U	2.0	U	0.50	U	4.0	U
Vinyl chloride	0.50	U	2.0	U	0.50	U	4.0	U
Bromomethane	0.50	U	2.0	U	0.50	U	4.0	U
Chloroethane	0.50	U	2.0	U	0.50	U	4.0	U
Trichlorofluoromethane	0.50	U	2.0	U	0.50	U	4.0	U
1,1-Dichloroethene	0.50	U	2.0	U	0.50	U	4.0	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	2.0	U	0.50	U	4.0	U
Acetone	5.0	U	20	U	5.0	U	40	U
Carbon disulfide	0.50	U	2.0	U	0.50	U	4.0	U
Methyl acetate	0.50	U	2.0	U	0.50	U	4.0	U
Methylene chloride	0.50	U	2.0	U	0.50	U	4.0	U
trans-1,2-Dichloroethene	1.5		1.2	J	3.4		2.4	J
Methyl tert-butyl ether	0.50	U	2.0	U	0.50	U	4.0	U
1,1-Dichloroethane	0.20	J	2.0	U	0.50	U	4.0	U
cis-1,2-Dichloroethene	22		21		50		41	
2-Butanone	5.0	U	20	U	5.0	U	40	U
Bromochloromethane	0.50	U	2.0	U	0.50	U	4.0	U
Chloroform	0.50	U	2.0	U	0.50	U	4.0	U
1,1,1-Trichloroethane	0.50	U	2.0	U	0.50	U	4.0	U
Cyclohexane	0.42	J	0.44	J	0.50	U	4.0	U
Carbon tetrachloride	0.50	U	2.0	U	0.50	U	4.0	U
Benzene	0.50	U	2.0	U	0.50	U	4.0	U
1,2-Dichloroethane	4.0		3.9		0.50	U	4.0	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DP6 MW44-0314 Field_Sample Water/TRACE 1.0 ug/L		Y9DP6DL MW44-0314 Field_Sample Water/TRACE 4.0 ug/L		Y9DQ1 MW49-0314 Field_Sample Water/TRACE 1.0 ug/L		Y9DQ1DL MW49-0314 Field_Sample Water/TRACE 8.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Trichloroethene	2.9		2.4		2.9		2.1	J
Methylcyclohexane	0.50	U	2.0	U	0.50	U	4.0	U
1,2-Dichloropropane	0.50	U	2.0	U	0.50	U	4.0	U
Bromodichloromethane	0.50	U	2.0	U	0.50	U	4.0	U
cis-1,3-Dichloropropene	0.50	U	2.0	U	0.50	U	4.0	U
4-Methyl-2-pentanone	5.0	U	20	U	5.0	U	40	U
Toluene	0.50	U	2.0	U	0.50	U	4.0	U
trans-1,3-Dichloropropene	0.50	U	2.0	U	0.50	U	4.0	U
1,1,2-Trichloroethane	0.50	U	2.0	U	0.50	U	4.0	U
Tetrachloroethene	0.50	U	2.0	U	0.50	U	4.0	U
2-Hexanone	5.0	U	20	U	5.0	U	40	U
Dibromochloromethane	0.50	U	2.0	U	0.50	U	4.0	U
1,2-Dibromoethane	0.50	U	2.0	U	0.50	U	0.40	J
Chlorobenzene	0.50	U	2.0	U	0.50	U	4.0	U
Ethylbenzene	0.50	U	2.0	U	0.50	U	4.0	U
o-Xylene	0.50	U	2.0	U	0.50	U	4.0	U
m,p-Xylene	0.50	U	2.0	U	0.50	U	4.0	U
Styrene	0.50	U	2.0	U	0.50	U	4.0	U
Bromoform	0.50	U	2.0	U	0.50	U	4.0	U
Isopropylbenzene	0.50	U	2.0	U	0.50	U	4.0	U
1,1,2,2-Tetrachloroethane	0.50	U	2.0	U	0.50	U	4.0	U
1,3-Dichlorobenzene	0.50	U	2.0	U	0.50	U	4.0	U
1,4-Dichlorobenzene	0.50	U	2.0	U	0.50	U	4.0	U
1,2-Dichlorobenzene	0.50	U	2.0	U	0.50	U	4.0	U
1,2-Dibromo-3-chloropropane	0.50	U	2.0	U	0.50	U	4.0	U
1,2,4-Trichlorobenzene	0.50	U	2.0	U	0.50	U	4.0	U
1,2,3-Trichlorobenzene	0.50	U	2.0	UJ	0.50	U	4.0	UJ
1,2,3-Trichloropropane	0.50	U	2.0	U	0.50	U	4.0	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DQ4 MW56-0314 Field_Sample Water/TRACE 4.0 ug/L		Y9DQ4DL MW56-0314 Field_Sample Water/TRACE 40.0 ug/L		Y9DS0 SAIA-MW5C-0314 Field_Sample Water/TRACE 8.0 ug/L		Y9DS0DL SAIA-MW5C-0314 Field_Sample Water/TRACE 50.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Dichlorodifluoromethane	2.0	U	20	U	4.0	U	25	U
Chloromethane	2.0	U	20	U	4.0	U	25	U
Vinyl chloride	2.0	U	20	U	4.0	U	25	U
Bromomethane	2.0	U	20	U	4.0	U	25	U
Chloroethane	2.0	U	20	U	4.0	U	25	U
Trichlorofluoromethane	2.0	U	20	U	4.0	U	25	U
1,1-Dichloroethene	2.0	U	20	U	4.0	U	25	U
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	20	U	4.0	U	25	U
Acetone	20	U	200	U	40	U	250	U
Carbon disulfide	2.0	U	20	U	4.0	U	25	U
Methyl acetate	2.0	U	20	U	4.0	U	25	U
Methylene chloride	2.0	U	20	U	4.0	U	25	U
trans-1,2-Dichloroethene	15		16	J	21		22	J
Methyl tert-butyl ether	2.0	U	20	U	4.0	U	25	U
1,1-Dichloroethane	2.0	UJ	20	U	4.0	U	25	U
cis-1,2-Dichloroethene	420		450		330		300	
2-Butanone	20	U	200	U	40	U	250	U
Bromochloromethane	2.0	UJ	20	U	4.0	U	25	U
Chloroform	2.0	UJ	20	U	4.0	U	25	U
1,1,1-Trichloroethane	2.0	U	20	U	4.0	U	25	U
Cyclohexane	2.0	U	20	U	4.0	U	25	U
Carbon tetrachloride	2.0	U	20	U	4.0	U	25	U
Benzene	2.0	U	20	U	4.0	U	25	U
1,2-Dichloroethane	2.0	U	20	U	2.0	J	25	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DQ4 MW56-0314 Field_Sample Water/TRACE 4.0 ug/L		Y9DQ4DL MW56-0314 Field_Sample Water/TRACE 40.0 ug/L		Y9DS0 SAIA-MW5C-0314 Field_Sample Water/TRACE 8.0 ug/L		Y9DS0DL SAIA-MW5C-0314 Field_Sample Water/TRACE 50.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Trichloroethene	290		290		6.5		8.7	J
Methylcyclohexane	2.0	U	20	U	4.0	U	25	U
1,2-Dichloropropane	2.0	U	20	U	4.0	U	25	U
Bromodichloromethane	2.0	U	20	U	4.0	U	25	U
cis-1,3-Dichloropropene	2.0	U	20	U	4.0	U	25	U
4-Methyl-2-pentanone	20	U	200	U	40	U	250	U
Toluene	2.0	U	20	U	4.0	U	25	U
trans-1,3-Dichloropropene	2.0	U	20	U	4.0	U	25	U
1,1,2-Trichloroethane	2.0	U	20	U	4.0	U	25	U
Tetrachloroethene	2.0	U	20	U	4.0	U	25	U
2-Hexanone	20	U	200	U	40	U	250	U
Dibromochloromethane	2.0	UJ	20	U	4.0	U	25	U
1,2-Dibromoethane	2.0	U	20	U	4.0	U	25	U
Chlorobenzene	2.0	U	20	U	4.0	U	25	U
Ethylbenzene	2.0	U	20	U	4.0	U	25	U
o-Xylene	2.0	U	20	U	4.0	U	25	U
m,p-Xylene	2.0	U	20	U	4.0	U	25	U
Styrene	2.0	U	20	U	4.0	U	25	U
Bromoform	2.0	UJ	20	U	4.0	U	25	U
Isopropylbenzene	2.0	U	20	U	4.0	U	25	U
1,1,2,2-Tetrachloroethane	2.0	U	20	U	4.0	U	25	U
1,3-Dichlorobenzene	2.0	U	20	U	4.0	U	25	U
1,4-Dichlorobenzene	2.0	U	20	U	4.0	U	25	U
1,2-Dichlorobenzene	2.0	U	20	U	4.0	U	25	U
1,2-Dibromo-3-chloropropane	2.0	U	20	U	4.0	U	25	U
1,2,4-Trichlorobenzene	2.0	U	20	U	4.0	U	25	U
1,2,3-Trichlorobenzene	2.0	UJ	20	UJ	4.0	U	25	U
1,2,3-Trichloropropane	2.0	U	20	U	4.0	U	25	U

Revisions are in Bold.
Gray: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DS8 SAIA-EL02-0314 Field_Sample Water/TRACE 1.0 ug/L		Y9DS9 SAIA-EL03-0314 Field_Sample Water/TRACE 1.0 ug/L		Y9DT0 SAIA-RL01-0314 Field_Sample Water/TRACE 1.0 ug/L		Y9DT1 SAIA-RL02-0314 Field_Sample Water/TRACE 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Dichlorodifluoromethane	0.50	U	0.50	U	0.50	U	0.50	U
Chloromethane	0.50	U	0.50	U	0.50	U	0.50	U
Vinyl chloride	0.50	U	0.50	U	0.50	U	0.50	U
Bromomethane	0.50	U	0.50	UJ	0.50	U	0.50	U
Chloroethane	0.50	U	0.50	U	0.50	U	0.50	U
Trichlorofluoromethane	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	0.50	U	0.50	U
Acetone	5.0	U	5.0	U	5.0	U	5.0	U
Carbon disulfide	0.50	U	0.50	U	0.50	U	0.50	U
Methyl acetate	0.50	U	0.50	U	0.50	U	0.50	U
Methylene chloride	0.50	U	0.50	U	0.50	U	0.50	U
trans-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U
Methyl tert-butyl ether	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,2-Dichloroethene	0.50	U	0.13	J	0.50	U	0.50	U
2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U
Bromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U
Chloroform	0.50	U	0.50	U	0.50	U	0.50	U
1,1,1-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U
Cyclohexane	0.50	U	0.50	U	0.50	U	0.50	U
Carbon tetrachloride	0.50	U	0.50	U	0.50	U	0.50	U
Benzene	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DS8 SAIA-EL02-0314 Field_Sample Water/TRACE 1.0 ug/L		Y9DS9 SAIA-EL03-0314 Field_Sample Water/TRACE 1.0 ug/L		Y9DT0 SAIA-RL01-0314 Field_Sample Water/TRACE 1.0 ug/L		Y9DT1 SAIA-RL02-0314 Field_Sample Water/TRACE 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Trichloroethene	0.50	U	0.50	U	0.50	U	0.50	U
Methylcyclohexane	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	0.50	U	0.50	U	0.50	U
Bromodichloromethane	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U
4-Methyl-2-pentanone	5.0	U	5.0	U	5.0	U	5.0	U
Toluene	0.50	U	0.50	U	0.50	U	0.50	U
trans-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U
Tetrachloroethene	0.50	U	0.50	U	0.50	U	0.50	U
2-Hexanone	5.0	U	5.0	U	5.0	U	5.0	U
Dibromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromoethane	0.50	U	0.50	U	0.50	U	0.50	U
Chlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U
Ethylbenzene	0.50	U	0.50	U	0.50	U	0.50	U
o-Xylene	0.50	U	0.50	U	0.50	U	0.50	U
m,p-Xylene	0.50	U	0.50	U	0.50	U	0.50	U
Styrene	0.50	U	0.50	U	0.50	U	0.50	U
Bromoform	0.50	U	0.50	UJ	0.50	U	0.50	U
Isopropylbenzene	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	0.50	U	0.50	U
1,3-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	0.50	U	0.50	**UJ**	0.50	U	0.50	U
1,2,3-Trichlorobenzene	0.50	U	0.50	**UJ**	0.50	UJ	0.50	UJ
1,2,3-Trichloropropane	0.50	U	0.50	U	0.50	U	0.50	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DT2 SAIA-RL03-0314 Field_Sample Water/TRACE 1.0 ug/L		VBLK36 N/A Method_Blank Water/TRACE 1.0 ug/L		VBLK8V N/A Method_Blank Water/TRACE 1.0 ug/L		VBLK9A N/A Method_Blank Water/TRACE 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Dichlorodifluoromethane	0.50	U	0.50	U	0.50	U	0.50	U
Chloromethane	0.50	U	0.50	U	0.50	U	0.50	U
Vinyl chloride	0.50	U	0.50	U	0.50	U	0.50	U
Bromomethane	0.50	UJ	0.50	U	0.50	UJ	0.50	U
Chloroethane	0.50	U	0.50	U	0.50	U	0.50	U
Trichlorofluoromethane	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	0.50	U	0.50	U
Acetone	5.0	U	5.0	U	5.0	U	5.0	U
Carbon disulfide	0.50	U	0.50	U	0.50	U	0.50	U
Methyl acetate	0.50	U	0.50	U	0.50	U	0.50	U
Methylene chloride	0.50	U	0.086	J	0.44	J	0.053	J
trans-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U
Methyl tert-butyl ether	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U
2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U
Bromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U
Chloroform	0.50	U	0.50	U	0.50	U	0.50	U
1,1,1-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U
Cyclohexane	0.50	U	0.50	U	0.50	U	0.50	U
Carbon tetrachloride	0.50	U	0.50	U	0.50	U	0.50	U
Benzene	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DT2 SAIA-RL03-0314 Field_Sample Water/TRACE 1.0 ug/L		VBLK36 N/A Method_Blank Water/TRACE 1.0 ug/L		VBLK8V N/A Method_Blank Water/TRACE 1.0 ug/L		VBLK9A N/A Method_Blank Water/TRACE 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Trichloroethene	0.50	U	0.50	U	0.50	U	0.50	U
Methylcyclohexane	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	0.50	U	0.50	U	0.50	U
Bromodichloromethane	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U
4-Methyl-2-pentanone	5.0	U	5.0	U	5.0	U	5.0	U
Toluene	0.50	U	0.50	U	0.16	J	0.50	U
trans-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U
Tetrachloroethene	0.50	U	0.50	U	0.50	U	0.50	U
2-Hexanone	5.0	U	5.0	U	5.0	U	5.0	U
Dibromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromoethane	0.50	U	0.50	U	0.50	U	0.50	U
Chlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U
Ethylbenzene	0.50	U	0.50	U	0.50	U	0.50	U
o-Xylene	0.50	U	0.50	U	0.50	U	0.50	U
m,p-Xylene	0.054	J	0.50	U	0.50	U	0.50	U
Styrene	0.50	U	0.50	U	0.50	U	0.50	U
Bromoform	0.50	UJ	0.50	U	0.50	UJ	0.50	U
Isopropylbenzene	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	0.50	U	0.50	U
1,3-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	0.50	**UJ**	0.50	U	0.50	**UJ**	0.11	J
1,2,3-Trichlorobenzene	0.50	**UJ**	0.50	U	0.50	**UJ**	0.50	U
1,2,3-Trichloropropane	0.50	U	0.50	U	0.50	U	0.50	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	VBLK9C N/A Method_Blank Water/TRACE 1.0 ug/L		VBLK9E N/A Method_Blank Water/TRACE 1.0 ug/L		VBLK9G N/A Method_Blank Water/TRACE 1.0 ug/L		VBLK9L N/A Method_Blank Water/TRACE 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Dichlorodifluoromethane	0.50	U	0.50	U	0.50	U	0.50	U
Chloromethane	0.50	U	0.50	U	0.50	U	0.50	U
Vinyl chloride	0.50	U	0.50	U	0.50	U	0.50	U
Bromomethane	0.50	U	0.50	U	0.50	U	0.50	U
Chloroethane	0.50	U	0.50	U	0.50	U	0.50	U
Trichlorofluoromethane	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	0.50	U	0.50	U
Acetone	5.0	U	5.0	U	5.0	U	5.0	U
Carbon disulfide	0.50	U	0.50	U	0.50	U	0.50	U
Methyl acetate	0.50	U	0.50	U	0.50	U	0.50	U
Methylene chloride	0.11	J	0.23	J	0.39	J	0.42	J
trans-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U
Methyl tert-butyl ether	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U
2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U
Bromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U
Chloroform	0.50	U	0.50	U	0.50	U	0.50	U
1,1,1-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U
Cyclohexane	0.50	U	0.50	U	0.50	U	0.50	U
Carbon tetrachloride	0.50	U	0.50	U	0.50	U	0.50	U
Benzene	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	VBLK9C N/A Method_Blank Water/TRACE 1.0 ug/L		VBLK9E N/A Method_Blank Water/TRACE 1.0 ug/L		VBLK9G N/A Method_Blank Water/TRACE 1.0 ug/L		VBLK9L N/A Method_Blank Water/TRACE 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Trichloroethene	0.50	U	0.50	U	0.50	U	0.50	U
Methylcyclohexane	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	0.50	U	0.50	U	0.50	U
Bromodichloromethane	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U
4-Methyl-2-pentanone	5.0	U	5.0	U	5.0	U	5.0	U
Toluene	0.50	U	0.12	J	0.50	U	0.097	J
trans-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U
Tetrachloroethene	0.50	U	0.50	U	0.50	U	0.50	U
2-Hexanone	5.0	U	5.0	U	5.0	U	5.0	U
Dibromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromoethane	0.50	U	0.50	U	0.50	U	0.50	U
Chlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U
Ethylbenzene	0.50	U	0.50	U	0.50	U	0.50	U
o-Xylene	0.50	U	0.50	U	0.50	U	0.50	U
m,p-Xylene	0.50	U	0.50	U	0.50	U	0.50	U
Styrene	0.50	U	0.50	U	0.50	U	0.50	U
Bromoform	0.50	U	0.50	U	0.50	U	0.50	U
Isopropylbenzene	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	0.50	U	0.50	U
1,3-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.17	J
1,2,3-Trichlorobenzene	0.50	U	0.50	UJ	0.50	U	0.24	J
1,2,3-Trichloropropane	0.50	U	0.50	U	0.50	U	0.50	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample	**VHBLK01**							
Location	**N/A**							
Type	**Storage_Blank**							
Matrix/Level	**Water/TRACE**							
Dilution Factor	**1.0**							
% Moisture								
Units	**ug/L**							
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Dichlorodifluoromethane	0.50	U						
Chloromethane	0.50	U						
Vinyl chloride	0.50	U						
Bromomethane	0.50	U						
Chloroethane	0.50	U						
Trichlorofluoromethane	0.50	U						
1,1-Dichloroethene	0.50	U						
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U						
Acetone	5.0	U						
Carbon disulfide	0.50	U						
Methyl acetate	0.50	U						
Methylene chloride	0.31	J						
trans-1,2-Dichloroethene	0.50	U						
Methyl tert-butyl ether	0.50	U						
1,1-Dichloroethane	0.50	U						
cis-1,2-Dichloroethene	0.50	U						
2-Butanone	5.0	U						
Bromochloromethane	0.50	U						
Chloroform	0.50	U						
1,1,1-Trichloroethane	0.50	U						
Cyclohexane	0.50	U						
Carbon tetrachloride	0.50	U						
Benzene	0.50	U						
1,2-Dichloroethane	0.50	U						

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

VOA_Trace

Sample	**VHBLK01**							
Location	**N/A**							
Type	**Storage_Blank**							
Matrix/Level	**Water/TRACE**							
Dilution Factor	**1.0**							
% Moisture								
Units	**ug/L**							
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Trichloroethene	0.50	U						
Methylcyclohexane	0.50	U						
1,2-Dichloropropane	0.50	U						
Bromodichloromethane	0.50	U						
cis-1,3-Dichloropropene	0.50	U						
4-Methyl-2-pentanone	5.0	U						
Toluene	0.15	J						
trans-1,3-Dichloropropene	0.50	U						
1,1,2-Trichloroethane	0.50	U						
Tetrachloroethene	0.50	U						
2-Hexanone	5.0	U						
Dibromochloromethane	0.50	U						
1,2-Dibromoethane	0.50	U						
Chlorobenzene	0.50	U						
Ethylbenzene	0.50	U						
o-Xylene	0.50	U						
m,p-Xylene	0.50	U						
Styrene	0.50	U						
Bromoform	0.50	U						
Isopropylbenzene	0.50	U						
1,1,2,2-Tetrachloroethane	0.50	U						
1,3-Dichlorobenzene	0.50	U						
1,4-Dichlorobenzene	0.50	U						
1,2-Dichlorobenzene	0.50	U						
1,2-Dibromo-3-chloropropane	0.50	U						
1,2,4-Trichlorobenzene	0.50	U						
1,2,3-Trichlorobenzene	0.50	U						
1,2,3-Trichloropropane	0.50	U						

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-TV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

BNA

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DP1 MW34-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DP2 MW934-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DP3 MW35-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DP4 MW42-0314 Field_Sample Water/LOW 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Benzaldehyde	5.0	U	5.0	U	5.0	U	5.0	U
Phenol	5.0	U	5.0	U	5.0	U	5.0	U
Bis (2-Chloroethyl) ether	5.0	U	5.0	U	5.0	U	5.0	U
2-Chlorophenol	5.0	U	5.0	U	5.0	U	5.0	U
2-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U
2,2-Oxybis (1-Chloropropane)	5.0	U	5.0	U	5.0	U	5.0	U
Acetophenone	5.0	U	5.0	U	5.0	U	5.0	U
4-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U
N-Nitroso-di-n-propylamine	5.0	U	5.0	U	5.0	U	5.0	U
Hexachloroethane	5.0	U	5.0	U	5.0	U	5.0	U
Nitrobenzene	5.0	U	5.0	U	5.0	U	5.0	U
Isophorone	5.0	U	5.0	U	5.0	U	5.0	U
2-Nitrophenol	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dimethylphenol	5.0	U	5.0	U	5.0	U	5.0	U
Bis (2-Chloroethoxy) methane	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U
Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U
4-Chloroaniline	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorobutadiene	5.0	U	5.0	U	5.0	U	5.0	U
Caprolactam	5.0	U	5.0	U	5.0	U	5.0	U
4-Chloro-3-methylphenol	5.0	U	5.0	U	5.0	U	5.0	U
2-Methylnaphthalene	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorocyclopentadiene	5.0	U	5.0	U	5.0	U	5.0	U
2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U
2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U
1,1’-Biphenyl	5.0	U	5.0	U	5.0	U	5.0	U
2-Chloronaphthalene	5.0	U	5.0	U	5.0	U	5.0	U
2-Nitroaniline	10	U	10	U	10	U	10	U
Dimethylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
2,6-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U
Acenaphthylene	5.0	U	5.0	U	5.0	U	5.0	U
3-Nitroaniline	10	U	10	U	10	U	10	U
Acenaphthene	5.0	U	5.0	U	5.0	U	5.0	U

Revisions are in Bold. Gray shading: See report for tier 3 level review (Y9DS0&Q5-SV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

BNA

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DP1 MW34-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DP2 MW934-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DP3 MW35-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DP4 MW42-0314 Field_Sample Water/LOW 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
2,4-Dinitrophenol	10	U	10	U	10	U	10	U
4-Nitrophenol	10	U	10	U	10	U	10	U
Dibenzofuran	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U
Diethylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
Fluorene	5.0	U	5.0	U	5.0	U	5.0	U
4-Chlorophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U
4-Nitroaniline	10	U	10	U	10	U	10	U
4,6-Dinitro-2-methylphenol	10	U	10	U	10	U	10	U
N-Nitrosodiphenylamine	5.0	U	5.0	U	5.0	U	5.0	U
1,2,4,5-Tetrachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U
4-Bromophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U
Atrazine	5.0	U	5.0	U	5.0	U	5.0	U
Pentachlorophenol	10	U	10	U	10	U	10	U
Phenanthrene	5.0	U	5.0	U	5.0	U	5.0	U
Anthracene	5.0	U	5.0	U	5.0	U	5.0	U
Carbazole	5.0	U	5.0	U	5.0	U	5.0	U
Di-n-butylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
Fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U
Pyrene	5.0	U	5.0	U	5.0	U	5.0	U
Butylbenzylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
3,3-Dichlorobenzidine	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (a) anthracene	5.0	U	5.0	U	5.0	U	5.0	U
Chrysene	5.0	U	5.0	U	5.0	U	5.0	U
Bis (2-Ethylhexyl) phthalate	5.0	U	5.0	U	5.0	U	5.0	U
Di-n-octylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (b) fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (k) fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (a) pyrene	5.0	U	5.0	U	5.0	U	5.0	U
Indeno (1,2,3-cd) pyrene	5.0	U	5.0	U	5.0	U	5.0	U
Dibenzo (a,h) anthracene	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (g,h,i) perylene	5.0	U	5.0	U	5.0	U	5.0	U
2,3,4,6-Tetrachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U

Revisions are in Bold. Gray shading: See report for tier 3 level review (Y9DS0&Q5-SV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

BNA

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DP4MS MW42-0314 Matrix_Spike Water/LOW 1.0 ug/L		Y9DP4MSD MW42-0314 Matrix_Spike_Duplicate Water/LOW 1.0 ug/L		Y9DP5 MW43-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DP6 MW44-0314 Field_Sample Water/LOW 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Benzaldehyde	5.0	U	5.0	U	5.0	U	5.0	U
Phenol	35		37		5.0	U	5.0	U
Bis (2-Chloroethyl) ether	5.0	U	5.0	U	5.0	U	5.0	U
2-Chlorophenol	33		34		5.0	U	5.0	U
2-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U
2,2-Oxybis (1-Chloropropane)	5.0	U	5.0	U	5.0	U	5.0	U
Acetophenone	5.0	U	5.0	U	5.0	U	5.0	U
4-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U
N-Nitroso-di-n-propylamine	29		29		5.0	U	5.0	U
Hexachloroethane	5.0	U	5.0	U	5.0	U	5.0	U
Nitrobenzene	5.0	U	5.0	U	5.0	U	5.0	U
Isophorone	5.0	U	5.0	U	5.0	U	5.0	U
2-Nitrophenol	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dimethylphenol	5.0	U	5.0	U	5.0	U	5.0	U
Bis (2-Chloroethoxy) methane	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U
Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U
4-Chloroaniline	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorobutadiene	5.0	U	5.0	U	5.0	U	5.0	U
Caprolactam	5.0	U	5.0	U	5.0	U	5.0	U
4-Chloro-3-methylphenol	40	J	39	J	5.0	U	5.0	U
2-Methylnaphthalene	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorocyclopentadiene	5.0	U	5.0	U	5.0	U	5.0	U
2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U
2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U
1,1’-Biphenyl	5.0	U	5.0	U	5.0	U	5.0	U
2-Chloronaphthalene	5.0	U	5.0	U	5.0	U	5.0	U
2-Nitroaniline	10	U	10	U	10	U	10	U
Dimethylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
2,6-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U
Acenaphthylene	5.0	U	5.0	U	5.0	U	5.0	U
3-Nitroaniline	10	U	10	U	10	U	10	U
Acenaphthene	31		31		5.0	U	5.0	U

Revisions are in Bold. Gray shading: See report for tier 3 level review (Y9DS0&Q5-SV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

BNA

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DP4MS MW42-0314 Matrix_Spike Water/LOW 1.0 ug/L		Y9DP4MSD MW42-0314 Matrix_Spike_Duplicate Water/LOW 1.0 ug/L		Y9DP5 MW43-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DP6 MW44-0314 Field_Sample Water/LOW 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
2,4-Dinitrophenol	10	U	10	U	10	U	10	U
4-Nitrophenol	42	J	45	J	10	U	10	U
Dibenzofuran	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dinitrotoluene	32		32		5.0	U	5.0	U
Diethylphthalate	5.0	U	5.0	U	2.4	J	5.0	U
Fluorene	5.0	U	5.0	U	5.0	U	5.0	U
4-Chlorophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U
4-Nitroaniline	10	U	10	U	10	U	10	U
4,6-Dinitro-2-methylphenol	10	U	10	U	10	U	10	U
N-Nitrosodiphenylamine	5.0	U	5.0	U	5.0	U	5.0	U
1,2,4,5-Tetrachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U
4-Bromophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U
Atrazine	5.0	U	5.0	U	5.0	U	5.0	U
Pentachlorophenol	41		42	J	10	U	10	U
Phenanthrene	5.0	U	5.0	U	5.0	U	5.0	U
Anthracene	5.0	U	5.0	U	5.0	U	5.0	U
Carbazole	5.0	U	5.0	U	5.0	U	5.0	U
Di-n-butylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
Fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U
Pyrene	35		32		5.0	U	5.0	U
Butylbenzylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
3,3-Dichlorobenzidine	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (a) anthracene	5.0	U	5.0	U	5.0	U	5.0	U
Chrysene	5.0	U	5.0	U	5.0	U	5.0	U
Bis (2-Ethylhexyl) phthalate	5.0	U	5.0	U	3.4	J	5.0	U
Di-n-octylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (b) fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (k) fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (a) pyrene	5.0	U	5.0	U	5.0	U	5.0	U
Indeno (1,2,3-cd) pyrene	5.0	U	5.0	U	5.0	U	5.0	U
Dibenzo (a,h) anthracene	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (g,h,i) perylene	5.0	U	5.0	U	5.0	U	5.0	U
2,3,4,6-Tetrachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U

Revisions are in Bold. Gray shading: See report for tier 3 level review (Y9DS0&Q5-SV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

BNA

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DQ1 MW49-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DQ4 MW56-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DS0 SAIA-MW5C-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DS8 SAIA-EL02-0314 Field_Sample Water/LOW 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Benzaldehyde	5.0	U	5.0	U	5.0	U	5.0	U
Phenol	5.0	U	5.0	U	5.0	U	5.0	U
Bis (2-Chloroethyl) ether	5.0	U	5.0	U	5.0	U	5.0	U
2-Chlorophenol	5.0	U	5.0	U	5.0	U	5.0	U
2-Methylphenol	5.0	U	5.0	U	5.0	U	5.0	U
2,2-Oxybis (1-Chloropropane)	5.0	U	5.0	U	5.0	U	5.0	U
Acetophenone	5.0	U	5.0	U	5.0	U	5.0	U
4-Methylphenol	5.0	UJ	5.0	UJ	5.0	U	5.0	UJ
N-Nitroso-di-n-propylamine	5.0	U	5.0	U	5.0	U	5.0	U
Hexachloroethane	5.0	U	5.0	U	5.0	U	5.0	U
Nitrobenzene	5.0	U	5.0	U	5.0	U	5.0	U
Isophorone	5.0	U	5.0	U	5.0	U	5.0	U
2-Nitrophenol	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dimethylphenol	5.0	U	5.0	U	5.0	U	5.0	U
Bis (2-Chloroethoxy) methane	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U
Naphthalene	5.0	U	5.0	U	5.0	U	5.0	U
4-Chloroaniline	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorobutadiene	5.0	U	5.0	U	5.0	U	5.0	U
Caprolactam	5.0	U	5.0	U	5.0	U	5.0	U
4-Chloro-3-methylphenol	5.0	U	5.0	U	5.0	U	5.0	U
2-Methylnaphthalene	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorocyclopentadiene	5.0	U	5.0	U	5.0	U	5.0	U
2,4,6-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U
2,4,5-Trichlorophenol	5.0	U	5.0	U	5.0	U	5.0	U
1,1’-Biphenyl	5.0	U	5.0	U	5.0	U	5.0	U
2-Chloronaphthalene	5.0	U	5.0	U	5.0	U	5.0	U
2-Nitroaniline	10	U	10	U	10	U	10	U
Dimethylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
2,6-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U
Acenaphthylene	5.0	U	5.0	U	5.0	U	5.0	U
3-Nitroaniline	10	U	10	U	10	U	10	U
Acenaphthene	5.0	U	5.0	U	5.0	U	5.0	U

Revisions are in Bold. Gray shading: See report for tier 3 level review (Y9DS0&Q5-SV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

BNA

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DQ1 MW49-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DQ4 MW56-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DS0 SAIA-MW5C-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DS8 SAIA-EL02-0314 Field_Sample Water/LOW 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
2,4-Dinitrophenol	10	U	10	U	10	U	10	U
4-Nitrophenol	10	U	10	U	10	U	10	U
Dibenzofuran	5.0	U	5.0	U	5.0	U	5.0	U
2,4-Dinitrotoluene	5.0	U	5.0	U	5.0	U	5.0	U
Diethylphthalate	5.0	U	5.0	U	5.0	U	10	
Fluorene	5.0	U	5.0	U	5.0	U	5.0	U
4-Chlorophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U
4-Nitroaniline	10	U	10	U	10	U	10	U
4,6-Dinitro-2-methylphenol	10	U	10	U	10	U	10	U
N-Nitrosodiphenylamine	5.0	U	5.0	U	5.0	U	5.0	U
1,2,4,5-Tetrachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U
4-Bromophenyl-phenylether	5.0	U	5.0	U	5.0	U	5.0	U
Hexachlorobenzene	5.0	U	5.0	U	5.0	U	5.0	U
Atrazine	5.0	U	5.0	U	5.0	U	5.0	U
Pentachlorophenol	10	U	10	U	10	U	10	U
Phenanthrene	5.0	U	5.0	U	5.0	U	5.0	U
Anthracene	5.0	U	5.0	U	5.0	U	5.0	U
Carbazole	5.0	U	5.0	U	5.0	U	5.0	U
Di-n-butylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
Fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U
Pyrene	5.0	U	5.0	U	5.0	U	5.0	U
Butylbenzylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
3,3-Dichlorobenzidine	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (a) anthracene	5.0	U	5.0	U	5.0	U	5.0	U
Chrysene	5.0	U	5.0	U	5.0	U	5.0	U
Bis (2-Ethylhexyl) phthalate	5.0	U	5.0	U	5.0	U	5.0	U
Di-n-octylphthalate	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (b) fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (k) fluoranthene	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (a) pyrene	5.0	U	5.0	U	5.0	U	5.0	U
Indeno (1,2,3-cd) pyrene	5.0	U	5.0	U	5.0	U	5.0	U
Dibenzo (a,h) anthracene	5.0	U	5.0	U	5.0	U	5.0	U
Benzo (g,h,i) perylene	5.0	U	5.0	U	5.0	U	5.0	U
2,3,4,6-Tetrachlorophenol	5.0	U	5.0	U	5.0	U	5.0	U

Revisions are in Bold. Gray shading: See report for tier 3 level review (Y9DS0&Q5-SV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

BNA

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DS9 SAIA-EL03-0314 Field_Sample Water/LOW 1.0 ug/L		SBLK57 N/A Method_Blank Water/LOW 1.0 ug/L					
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Benzaldehyde	5.0	U	5.0	U				
Phenol	5.0	U	5.0	U				
Bis (2-Chloroethyl) ether	5.0	U	5.0	U				
2-Chlorophenol	5.0	U	5.0	U				
2-Methylphenol	5.0	U	5.0	U				
2,2-Oxybis (1-Chloropropane)	5.0	U	5.0	U				
Acetophenone	5.0	U	5.0	U				
4-Methylphenol	5.0	U	5.0	U				
N-Nitroso-di-n-propylamine	5.0	U	5.0	U				
Hexachloroethane	5.0	U	5.0	U				
Nitrobenzene	5.0	U	5.0	U				
Isophorone	5.0	U	5.0	U				
2-Nitrophenol	5.0	U	5.0	U				
2,4-Dimethylphenol	5.0	U	5.0	U				
Bis (2-Chloroethoxy) methane	5.0	U	5.0	U				
2,4-Dichlorophenol	5.0	U	5.0	U				
Naphthalene	5.0	U	5.0	U				
4-Chloroaniline	5.0	U	5.0	U				
Hexachlorobutadiene	5.0	U	5.0	U				
Caprolactam	5.0	U	5.0	U				
4-Chloro-3-methylphenol	5.0	U	5.0	U				
2-Methylnaphthalene	5.0	U	5.0	U				
Hexachlorocyclopentadiene	5.0	U	5.0	U				
2,4,6-Trichlorophenol	5.0	U	5.0	U				
2,4,5-Trichlorophenol	5.0	U	5.0	U				
1,1’-Biphenyl	5.0	U	5.0	U				
2-Chloronaphthalene	5.0	U	5.0	U				
2-Nitroaniline	10	U	10	U				
Dimethylphthalate	5.0	U	5.0	U				
2,6-Dinitrotoluene	5.0	U	5.0	U				
Acenaphthylene	5.0	U	5.0	U				
3-Nitroaniline	10	U	10	U				
Acenaphthene	5.0	U	5.0	U				

Revisions are in Bold. Gray shading: See report for tier 3 level review (Y9DS0&Q5-SV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

BNA

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DS9 SAIA-EL03-0314 Field_Sample Water/LOW 1.0 ug/L		SBLK57 N/A Method_Blank Water/LOW 1.0 ug/L					
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
2,4-Dinitrophenol	10	U	10	U				
4-Nitrophenol	10	U	10	U				
Dibenzofuran	5.0	U	5.0	U				
2,4-Dinitrotoluene	5.0	U	5.0	U				
Diethylphthalate	5.0	U	5.0	U				
Fluorene	5.0	U	5.0	U				
4-Chlorophenyl-phenylether	5.0	U	5.0	U				
4-Nitroaniline	10	U	10	U				
4,6-Dinitro-2-methylphenol	10	U	10	U				
N-Nitrosodiphenylamine	5.0	U	5.0	U				
1,2,4,5-Tetrachlorobenzene	5.0	U	5.0	U				
4-Bromophenyl-phenylether	5.0	U	5.0	U				
Hexachlorobenzene	5.0	U	5.0	U				
Atrazine	5.0	U	5.0	U				
Pentachlorophenol	10	U	10	U				
Phenanthrene	5.0	U	5.0	U				
Anthracene	5.0	U	5.0	U				
Carbazole	5.0	U	5.0	U				
Di-n-butylphthalate	5.0	U	5.0	U				
Fluoranthene	5.0	U	5.0	U				
Pyrene	5.0	U	5.0	U				
Butylbenzylphthalate	5.0	U	5.0	U				
3,3-Dichlorobenzidine	5.0	U	5.0	U				
Benzo (a) anthracene	5.0	U	5.0	U				
Chrysene	5.0	U	5.0	U				
Bis (2-Ethylhexyl) phthalate	5.0	U	5.0	U				
Di-n-octylphthalate	5.0	U	5.0	U				
Benzo (b) fluoranthene	5.0	U	5.0	U				
Benzo (k) fluoranthene	5.0	U	5.0	U				
Benzo (a) pyrene	5.0	U	5.0	U				
Indeno (1,2,3-cd) pyrene	5.0	U	5.0	U				
Dibenzo (a,h) anthracene	5.0	U	5.0	U				
Benzo (g,h,i) perylene	5.0	U	5.0	U				
2,3,4,6-Tetrachlorophenol	5.0	U	5.0	U				

Revisions are in Bold. Gray shading: See report for tier 3 level review (Y9DS0&Q5-SV-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

BNA_SIM

Sample	Y9DP1		Y9DP2		Y9DP3		Y9DP4	
Location	MW34-0314		MW934-0314		MW35-0314		MW42-0314	
Type	Field_Sample		Field_Sample		Field_Sample		Field_Sample	
Matrix/Level	Water/LOW		Water/LOW		Water/LOW		Water/LOW	
Dilution Factor	1.0		1.0		1.0		1.0	
% Moisture								
Units	ug/L		ug/L		ug/L		ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
1,4-Dioxane	1.3		1.5		2.3		23	

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-14D-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

BNA_SIM

Sample	Y9DP4DL		Y9DP5		Y9DP6		Y9DQ1	
Location	MW42-0314		MW43-0314		MW44-0314		MW49-0314	
Type	Field_Sample		Field_Sample		Field_Sample		Field_Sample	
Matrix/Level	Water/LOW		Water/LOW		Water/LOW		Water/LOW	
Dilution Factor	10.0		1.0		1.0		1.0	
% Moisture								
Units	ug/L		ug/L		ug/L		ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
1,4-Dioxane	24		2.8		2.8		0.50	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-14D-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

BNA_SIM

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DQ4 MW56-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DS0 SAIA-MW5C-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DS8 SAIA-EL02-0314 Field_Sample Water/LOW 1.0 ug/L		Y9DS9 SAIA-EL03-0314 Field_Sample Water/LOW 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
1,4-Dioxane	0.50	U	3.4		0.50	U	0.50	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-14D-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

BNA_SIM

Sample	**SBLK57**							
Location	**N/A**							
Type	**Method_Blank**							
Matrix/Level	**Water/LOW**							
Dilution Factor	**1.0**							
% Moisture								
Units	**ug/L**							
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
1,4-Dioxane	0.50	U						

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-14D-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

Aroclor

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DP1 MW34-0314 Field_Sample Water/ 1.0 ug/L		Y9DP2 MW934-0314 Field_Sample Water/ 1.0 ug/L		Y9DP4 MW42-0314 Field_Sample Water/ 1.0 ug/L		Y9DP4MS MW42-0314 Matrix_Spike Water/ 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Aroclor-1016	1.0	U	1.0	U	1.0	U	3.6	J
Aroclor-1221	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1232	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1242	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1248	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1254	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1260	1.0	U	1.0	U	1.0	U	3.5	J
Aroclor-1262	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1268	1.0	U	1.0	U	1.0	U	1.0	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-A-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

Aroclor

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DP4MSD MW42-0314 Matrix_Spike_Duplicate Water/ 1.0 ug/L		Y9DP5 MW43-0314 Field_Sample Water/ 1.0 ug/L		Y9DP6 MW44-0314 Field_Sample Water/ 1.0 ug/L		Y9DS8 SAIA-EL02-0314 Field_Sample Water/ 1.0 ug/L	
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Aroclor-1016	3.4	J	1.0	U	1.0	U	1.0	U
Aroclor-1221	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1232	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1242	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1248	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1254	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1260	3.4	J	1.0	U	1.0	U	1.0	U
Aroclor-1262	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1268	1.0	U	1.0	U	1.0	U	1.0	U

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-A-T2 Rpt).

Modified National Functional Guidelines Report #04

Lab KAP(KAP Technologies, Inc.) **SDG** Y9DS0 **Case** 44217 **Contract** EPW11031 **Region** 9 **DDTID** 194037 **SOW** SOM01.2

ESAT Modified Final Flag Results

Aroclor

Sample	**ABLK70**							
Location	**N/A**							
Type	**Method_Blank**							
Matrix/Level	**Water/**							
Dilution Factor	**1.0**							
% Moisture	**0.00**							
Units	**ug/L**							
Compound	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**	**NFG Result**	**NFG Flag**
Aroclor-1016	1.0	U						
Aroclor-1221	1.0	U						
Aroclor-1232	1.0	U						
Aroclor-1242	1.0	U						
Aroclor-1248	1.0	U						
Aroclor-1254	1.0	U						
Aroclor-1260	1.0	U						
Aroclor-1262	1.0	U						
Aroclor-1268	1.0	U						

Revisions are in Bold.
Gray shading: See report for tier 3 level review (Y9DS0&Q5-A-T2 Rpt).

ICF International
Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300; Fax: (510) 412-2304.

MEMORANDUM

TO: Karen Jurist, Remedial Project Manager
Site Cleanup Section 3, SFD-7-3

THROUGH: Joe Eidelberg, Chemist
Quality Assurance (QA) Program, MTS-3

Joseph Eidelberg
Digitally Signed

FROM: Kathy O'Brien, Data Review Task Manager
Region 9 Environmental Services Assistance Team (ESAT)

ESAT Contract No.: EP-W-13-029
Technical Direction Form No.: 10106031

DATE: June 18, 2014

SUBJECT: Review of Analytical Data, **Tier 2**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Southern Avenue Industrial Area
Site Account No.:	09 WS QB 00
CERCLIS ID No.:	CAN000905902
Case No.:	44217
SDG No.:	Y9DS0 and Y9DQ5
Laboratory:	KAP Technologies, Inc. (KAP)
Analysis:	1,4-Dioxane by Semivolatiles Selective Ion Monitoring (SIM)
Samples:	20 Groundwater Samples
Collection Date:	March 25, 26, and 27, 2014
Reviewer:	Santiago Lee, ESAT

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Raymond Flores, CLP PO USEPA Region 6
Steve Remaley, CLP PO USEPA Region 9
Richard Bauer, EPA COR for ESAT Region 9

CLP PO: [X] FYI [ ] Action

SAMPLING ISSUES: [X] Yes [ ] No

Data Validation Report - **Tier 2**

Case No.: 44217
SDG No.: Y9DS0 and Y9DQ5
Site: Southern Avenue Industrial Area
Laboratory: KAP Technologies, Inc. (KAP)
Reviewer: Santiago Lee, ESAT
Date: June 18, 2014

As directed by the Contracting Officer Representative (COR), a Tier 2 data review was performed. The review consisted of a Tier 3 validation of samples Y9DP4, Y9DQ5, Y9DQ9, and Y9DS5 and associated field QC samples.

I. SDG SUMMARY

For Sample Information and Laboratory QC, refer to EXES National Functional Guideline Report #06, *Analytical Sample Listing*.

Field QC

Field Blanks (FB):	Not Provided
Equipment Blanks (EB):	**Y9DS8** and **Y9DS7**
Background Samples (BG):	Not Provided
Field Duplicates (D3):	Y9DP1 and Y9DP2
Field Duplicates (D4):	**Y9DS4** and **Y9DS5**

Tables

1A:	Analytical Results with Qualifications
1B:	Data Qualifier Definitions for Organic Data Review

CLP PO Action

None.

Sampling Issues

1. The equipment blank Y9DS7 was collected on 03/27/14 but one of three bottles was received by the laboratory on 04/02/14 at 17°C; extraction for SVOC SIM analysis exceeded holding time (see Comment A).
2. For samples Y9DP2, Y9DP6, Y9DQ1, Y9DQ6, Y9DQ8, Y9DQ9, and Y9DS5 and equipment blanks Y9DS8 and Y9DS7, one bottle was broken when received. Two bottles for sample Y9DQ5 and three bottles for sample Y9DQ7 were broken when received. There was enough sample volume in the other bottles for analysis.
3. Signature and Date blocks for "Relinquished By" were not completed on page 3 of 3 for the chain of custody record No. 9-032514-093010-0004.

Additional Comments

Matrix spike/matrix spike duplicate (MS/MSD) analysis is not required.

Manual integration was performed on sample Y9DS4. The manual integration was reviewed and found to be in compliance with CLP Statement of Work (SOW) requirements.

All method requirements specified in the EPA Contract Laboratory Program (CLP) Organic Statement of Work (SOW), except as noted, have been met.

This report was prepared in accordance with the following documents:

- *Request for Quote (RFQ) for Modified Analysis*, Modification Reference Number 2103.4, March 19, 2014;
- *USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration*, SOM01.1, May 2005;
- *Modifications Updating SOM01.1 to SOM01.2*, Amended April 11, 2007; and
- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, June 2008.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration*, SOM01.1, May 2005.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Holding Time/Preservation	No	A
2	GC/MS Instrument Performance Check	Yes	
3	Initial Calibration	Yes	
4	Continuing Calibration Verification (CCV)	Yes	
5	Laboratory Blanks	Yes	
6	Field Blanks	Yes	
7	Deuterated Monitoring Compounds (DMCs)	No	B
8	Matrix Spike/Matrix Spike Duplicates (MS/MSDs)	N/A	
9	GPC Performance Check	N/A	
10	Internal Standards	Yes	
11	Compound Identification	Yes	
12	Compound Quantitation and Reported CRQL	Yes	C
13	System Performance	Yes	
14	Field Duplicate Sample Analysis	Yes	

N/A = Not Applicable

III. VALIDITY AND COMMENTS

A. The result for the following analyte is qualified as estimated due to holding time exceedance and inadequate sample preservation and is flagged "UJ" in Table 1A.

- 1,4-Dioxane in equipment blank Y9DS7.

The extraction of equipment blank Y9DS7 exceeds the 7-day technical holding time as shown below.

Sample	Date Collected	Date Extracted	No. of Days Exceeded
Y9DS7	03/27/14	04/06/14	3

Since the qualified result is nondetected, a false negative may exist. Additionally, the equipment blank Y9DS7 was not adequately maintained at the 4˚±2˚C temperature limit specified in the SOW; it was received at the laboratory at a temperature of 17˚C.

B. The result for the following analyte is qualified as estimated due to high DMC recoveries and is flagged "J" in Table 1A.

{1,4-Dioxane-d8}
- 1,4-Dioxane in sample Y9DQ5.

High DMC recoveries for sample Y9DQ5 are shown below.

Sample	DMC	% Recovery	QC Limit
Y9DQ5	1,4-Dioxane-d8	3464	40-150
Y9DQ5RX	1,4-Dioxane-d8	1074	40-150

The detected result for 1,4-dioxane in sample Y9DQ5 may be biased high. Sample Y9DQ5 was reextracted and reanalyzed and the reanalysis has similar result. The result from the original analysis is presented in Table 1A since the reanalysis result is similar.

C. Sample Y9PD4 was reanalyzed at a 10-fold dilution due to the concentration of 1,4-dioxane exceeding the calibration range. The result for 1,4-dioxane in sample Y9DP4 is reported from the diluted analysis in Table 1A.

Lab KAP (KAP Technologies, Inc.) **SDG** Y9DS0 & Y9DQ5 **Case** 44217 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DP4 MW42-0314 Field_Sample Water/LOW 10 ug/L			Y9DS8 EB SAIA-EL02-0314 Field_Sample Water/LOW 1.0 ug/L			SBLK57 N/A Method_Blank Water/LOW 1.0 ug/L					
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
1,4-Dioxane	24		C	0.50	U		0.50	U				

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DQ5 SAIA-MW1A-0314 Field_Sample Water/LOW 1.0 ug/L			Y9DQ9 SAIA-MW2B-0314 Field_Sample Water/LOW 1.0 ug/L			Y9DS4 D4 SAIA-MW7-0314 Field_Sample Water/LOW 1.0 ug/L			Y9DS5 D4 SAIA-MW97-0314 Field_Sample Water/LOW 1.0 ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
1,4-Dioxane	1.7	J	B	1.7			1.9			2.0		

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9DS7 EB SAIA-EL01-0314 Field_Sample Water/LOW 1.0 ug/L			SBLK59 N/A Method_Blank Water/LOW 1.0 ug/L								
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
1,4-Dioxane	0.50	UJ	A	0.50	U					0.50	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample.

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," June 2008.

U The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

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Phone: (510) 412-2300; Fax: (510) 412-2304.

MEMORANDUM

TO: Karen Jurist, Remedial Project Manager
Site Cleanup Section 3, SFD-7-3

THROUGH: Joe Eidelberg, Chemist
Quality Assurance (QA) Program, MTS-3

Joseph Eidelberg
Digitally Signed

FROM: Kathy O'Brien, Data Review Task Manager
Region 9 Environmental Services Assistance Team (ESAT)

ESAT Contract No.: EP-W-13-029
Technical Direction Form No.: 10106032 (Revised)

DATE: July 16, 2014

SUBJECT: Review of Analytical Data, Tier 3

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Southern Avenue Industrial Area
Site Account No.:	09 WS QB 00
CERCLIS ID No.:	CAN000905902
Case No.:	44248
SDG No.:	Y9E95
Laboratory:	KAP Technologies, Inc. (KAP)
Analysis:	Aroclors
Samples:	20 Soil Samples
Collection Date:	April 16, 2014
Reviewer:	Santiago Lee, ESAT

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Raymond Flores, CLP PO USEPA Region 6
Steve Remaley, CLP PO USEPA Region 9
Richard Bauer, EPA COR for ESAT Region 9

CLP PO: [X] FYI [ ] Action

SAMPLING ISSUES: [ ] Yes [X] No

Data Validation Report - **Tier 2**

Case No.: 44248
SDG No.: Y9E95
Site: Southern Avenue Industrial Area
Laboratory: KAP Technologies, Inc. (KAP)
Reviewer: Santiago Lee, ESAT
Date: July 16, 2014

I. SDG SUMMARY

For Sample Information and Laboratory QC, refer to EXES National Functional Guideline Report #06, *Analytical Sample Listing*.

Field QC

Field Blanks (FB):	Not Provided
Equipment Blanks (EB):	Not Provided
Background Samples (BG):	Not Provided
Field Duplicates (D1):	Y9E94 (in SDG Y9EJ1) and Y9E95
Field Duplicates (D2):	Y9ED8 and Y9ED9
Field Duplicates (D3):	Y9EE2 and Y9EE3
Field Duplicates (D4):	Y9EG0 and Y9EG1

Tables

1A:	Analytical Results with Qualifications
1B:	Data Qualifier Definitions for Organic Data Review

CLP PO Action

None.

Sampling Issues

None.

Additional Comments

The documentation of the manual integration of samples Y9EE2, Y9EE3, and Y9EG1 and the run logs for 04/30/14 and 05/06/14 were missing from the data package. The laboratory submitted the missing information upon request, on 07/07/14.

Manual integration was performed on calibrations and samples. Manual integrations were reviewed and found to be in compliance with CLP Statement of Work requirements.

All method requirements specified in the EPA Contract Laboratory Program (CLP) Organic Statement of Work (SOW), except as noted, have been met.

This report was prepared in accordance with the following documents:

- *USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration*, SOM01.1, May 2005;

- *Modifications Updating SOM01.1 to SOM01.2*, Amended April 11, 2007; and
- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, June 2008.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration*, SOM01.1, May 2005.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Holding Time/Preservation	Yes	
2	Initial Calibration	Yes	
3	Continuing Calibration Verification (CCV)	Yes	
4	Laboratory Blanks	Yes	
5	Field Blanks	N/A	
6	Surrogate Spikes	No	B
7	Matrix Spike/Matrix Spike Duplicates (MS/MSDs)	Yes	
8	Laboratory Spike Samples (LCSs)	Yes	
9	GPC Performance Check	N/A	
10	Compound Identification	Yes	
11	GC/MS Confirmation	N/A	
12	Compound Quantitation and Reported CRQLs	No	A, C, E
13	System Performance	Yes	
14	Field Duplicate Sample Analysis	No	D

N/A = Not Applicable

III. VALIDITY AND COMMENTS

A. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J" in Table 1A. Results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

B. Results for the following analytes are qualified as estimated due to low surrogate recoveries and are flagged "UJ" in Table 1A.

- All analytes in samples Y9E96, Y9E97, Y9E98, and Y9EC6.

Low surrogate recoveries are shown below.

Sample	DMC	% Recovery (Column 1 / 2)	QC Limit
Y9E96	Decachlorobiphenyl	25 / 23	30-150
Y9E97	Decachlorobiphenyl	23 / 18	30-150
Y9E98	Decachlorobiphenyl	26 / 24	30-150

Sample	DMC	% Recovery (Column 1 / 2)	QC Limit
Y9EC6	Decachlorobiphenyl	29 / 28	30-150

Since qualified results are nondetected, false negatives may exist. The samples listed above were not reanalyzed.

Decachlorobiphenyl (DCB) recoveries on column 2 for samples Y9EC7 (29%) and Y9ED9 (19%) are below QC limit. Sample results are not qualified because DCB recoveries on column 1 are within the QC limit and the target analytes are nondetects.

C. Results for the following analyte are qualified as estimated due to high percent difference (%D) between concentrations on columns 1 and 2 and are flagged "J" in Table 1A.

- Aroclor-1260 in samples Y9ED9, Y9EE0, and Y9EG1.

The %D for Aroclor-1260 between concentrations on columns 1 and 2 exceeds the QC limit of 25.0% in samples Y9ED9 (36.9%), Y9EE0 (25.5%), and Y9EG1 (59.5%). Results for Aroclor-1260 in these samples are considered quantitatively uncertain.

D. In the analysis of the field duplicate pairs, the following outlier (relative percent difference >35%) was reported.

Analyte	Y9ED8 (D2) Conc., µg/kg	Y9ED9 (D2) Conc., µg/kg	RPD
Aroclor-1260	7300	3000	84

The effect on data quality is not known.

E. Samples Y9ED8, Y9ED9, and Y9EE0 were reanalyzed at 50-, 20-, and 50-fold dilutions, respectively, due to concentrations of Aroclor-1260 exceeding the calibration range. Results for Aroclor-1260 in these samples are reported from the diluted analyses in Table 1A; results for other analytes are reported from the undiluted analyses. However, the presence of Aroclor-1260 at high concentrations could obscure the presence of other Aroclors at the reported CRQL.

Lab KAP (KAP Technologies, Inc.) **SDG** Y9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9E95 D1 SAIA-SB19-6 Field_Sample Soil/ 1.0 2.7 ug/kg			Y9E96 SAIA-SB19-15 Field_Sample Soil/ 1.0 17 ug/kg			Y9E97 SAIA-SB19-25 Field_Sample Soil/ 1.0 17 ug/kg			Y9E98 SAIA-SB19-35 Field_Sample Soil/ 1.0 16 ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Aroclor-1016	34	U		39	UJ	B	39	UJ	B	39	UJ	B
Aroclor-1221	34	U		39	UJ	B	39	UJ	B	39	UJ	B
Aroclor-1232	34	U		39	UJ	B	39	UJ	B	39	UJ	B
Aroclor-1242	34	U		39	UJ	B	39	UJ	B	39	UJ	B
Aroclor-1248	34	U		39	UJ	B	39	UJ	B	39	UJ	B
Aroclor-1254	34	U		39	UJ	B	39	UJ	B	39	UJ	B
Aroclor-1260	34	U		39	UJ	B	39	UJ	B	39	UJ	B
Aroclor-1262	34	U		39	UJ	B	39	UJ	B	39	UJ	B
Aroclor-1268	34	U		39	UJ	B	39	UJ	B	39	UJ	B

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9EC6 SAIA-SB24-0.5 Field_Sample Soil/ 1.0 5.4 ug/kg			Y9EC7 SAIA-SB24-2 Field_Sample Soil/ 1.0 7.8 ug/kg			Y9EC8 SAIA-SB24-5 Field_Sample Soil/ 1.0 14 ug/kg			Y9EC9 SAIA-SB24-15 Field_Sample Soil/ 1.0 21 ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Aroclor-1016	35	UJ	B	36	U		38	U		41	U	
Aroclor-1221	35	UJ	B	36	U		38	U		41	U	
Aroclor-1232	35	UJ	B	36	U		38	U		41	U	
Aroclor-1242	35	UJ	B	36	U		38	U		41	U	
Aroclor-1248	35	UJ	B	36	U		38	U		41	U	
Aroclor-1254	35	UJ	B	36	U		38	U		41	U	
Aroclor-1260	35	UJ	B	36	U		38	U		41	U	
Aroclor-1262	35	UJ	B	36	U		38	U		41	U	
Aroclor-1268	35	UJ	B	36	U		38	U		41	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample.

Lab KAP (KAP Technologies, Inc.) **SDG** Y9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample	Y9ED0			Y9ED1			Y9ED8 D2			Y9ED9 D2		
Location	SAIA-SB24-25			SAIA-SB24-35			SAIA-SB26-0.5			SAIA-SB26-0.6		
Type	Field_Sample			Field_Sample			Field_Sample			Field_Sample		
Matrix/Level	Soil/			Soil/			Soil/			Soil/		
Dilution Factor	1.0			1.0			1.0			1.0		
% Moisture	16			14			7.3			5.1		
Units	ug/kg			ug/kg			ug/kg			ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Aroclor-1016	39	U		38	U		35	U	E	34	U	E
Aroclor-1221	39	U		38	U		35	U	E	34	U	E
Aroclor-1232	39	U		38	U		35	U	E	34	U	E
Aroclor-1242	39	U		38	U		35	U	E	34	U	E
Aroclor-1248	39	U		38	U		35	U	E	34	U	E
Aroclor-1254	39	U		38	U		35	U	E	34	U	E
Aroclor-1260	39	U		38	U		7300		D,E	3000		C,D,E
Aroclor-1262	39	U		38	U		35	U	E	34	U	E
Aroclor-1268	39	U		38	U		35	U	E	34	U	E

Sample	Y9EE0			Y9EE1			Y9EE2 D3			Y9EE3 D3		
Location	SAIA-SB26-2			SAIA-SB26-5			SAIA-SB26-15			SAIA-SB26-16		
Type	Field_Sample			Field_Sample			Field_Sample			Field_Sample		
Matrix/Level	Soil/			Soil/			Soil/			Soil/		
Dilution Factor	1.0			1.0			1.0			1.0		
% Moisture	7.7			5.6			17			20		
Units	ug/kg			ug/kg			ug/kg			ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Aroclor-1016	35	U	E	35	U		39	U		41	U	
Aroclor-1221	35	U	E	35	U		39	U		41	U	
Aroclor-1232	35	U	E	35	U		39	U		41	U	
Aroclor-1242	35	U	E	35	U		39	U		41	U	
Aroclor-1248	35	U	E	35	U		39	U		41	U	
Aroclor-1254	35	U	E	35	U		39	U		41	U	
Aroclor-1260	5700	J	C,E	25	J	A	39	U		41	U	
Aroclor-1262	35	U	E	35	U		39	U		41	U	
Aroclor-1268	35	U	E	35	U		39	U		41	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample.

Lab KAP (KAP Technologies, Inc.) **SDG** Y9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9EE4 SAIA-SB26-25 Field_Sample Soil/ 1.0 18 ug/kg			Y9EF9 SAIA-SB29-2 Field_Sample Soil/ 1.0 8.8 ug/kg			Y9EG0 D4 SAIA-SB29-5 Field_Sample Soil/ 1.0 17 ug/kg			Y9EG1 D4 SAIA-SB29-6 Field_Sample Soil/ 1.0 19 ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Aroclor-1016	40	U		36	U		39	U		39	U	
Aroclor-1221	40	U		36	U		39	U		39	U	
Aroclor-1232	40	U		36	U		39	U		39	U	
Aroclor-1242	40	U		36	U		39	U		39	U	
Aroclor-1248	40	U		36	U		39	U		39	U	
Aroclor-1254	40	U		36	U		39	U		39	U	
Aroclor-1260	3.7	J	A	10	J	A	5.3	J	A	15	J	A,C
Aroclor-1262	40	U		36	U		39	U		39	U	
Aroclor-1268	40	U		36	U		39	U		39	U	

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	ABLK26 N/A Method_Blank Soil/ 1.0 0.00 ug/kg											
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Aroclor-1016	33	U										
Aroclor-1221	33	U										
Aroclor-1232	33	U										
Aroclor-1242	33	U										
Aroclor-1248	33	U										
Aroclor-1254	33	U										
Aroclor-1260	33	U										
Aroclor-1262	33	U										
Aroclor-1268	33	U										

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample.

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," June 2008.

U The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

ICF International
Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300; Fax: (510) 412-2304.

MEMORANDUM

TO: Karen Jurist, Remedial Project Manager
US Environmental Protection Agency (USEPA)
Site Cleanup Section 3, SFD-7-3

THROUGH: Joe Eidelberg, Chemist
USEPA
Quality Assurance (QA) Program, MTS-3

Joseph Eidelberg
Digitally Signed

FROM: Kathy O'Brien, Data Review Task Manager
Region 9 Environmental Services Assistance Team (ESAT)

ESAT Contract No.: EP-W-13-029
Technical Direction Form No.: 10106032 (Revised)

DATE: July 9, 2014

SUBJECT: Review of Analytical Data, Tier 3

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Southern Avenue Industrial Area
Site Account No.:	09 WS QB 00
CERCLIS ID No.:	CAN000905902
Case No.:	44248
SDG No.:	Y9E95
Laboratory:	KAP Technologies, Inc. (KAP)
Analysis:	Low Level Volatiles
Samples:	20 Soil Samples
Collection Date:	April 16, 2014
Reviewer:	Santiago Lee, ESAT

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Raymond Flores, CLP PO USEPA Region 6
Steve Remaley, CLP PO USEPA Region 9
Richard Bauer, EPA COR for ESAT Region 9

CLP PO: [X] FYI [ ] Action

SAMPLING ISSUES: [ ] Yes [X] No

Data Validation Report - Tier 3

Case No.: 44248
SDG No.: Y9E95
Site: Southern Avenue Industrial Area
Laboratory: KAP Technologies, Inc. (KAP)
Reviewer: Santiago Lee, ESAT
Date: July 9, 2014

I. SDG SUMMARY

For Sample Information and Laboratory QC, refer to EXES National Functional Guideline Report #06, *Analytical Sample Listing*.

Field QC

Field Blanks (FB):	Not Provided
Equipment Blanks (EB):	Not Provided
Trip Blanks (TB):	Not Provided
Background Samples (BG):	Not Provided
Field Duplicates (D1):	Y9E94 (in SDG Y9EJ1) and Y9E95
Field Duplicates (D2):	Y9ED8 and Y9ED9
Field Duplicates (D3):	Y9EE2 and Y9EE3
Field Duplicates (D4):	Y9EG0 and Y9EG1

Tables

1A:	Analytical Results with Qualifications
1B:	Data Qualifier Definitions for Organic Data Review

CLP PO Action

None.

Sampling Issues

None.

Additional Comments

For sample Y9ED9, areas for internal standards (ISs) chlorobenzene-d5 and 1,4-dichlorobenzene-d4 exceeded QC limits as shown below. Sample Y9ED9 was reanalyzed with similar results (areas exceeded QC limit for two ISs). Results from the original analysis are presented in Table 1A. The associated target analytes are nondetected in the sample and are not qualified, in accordance with the National Functional Guidelines.

Sample	Internal Standard	Area	QC Limit
Y9ED9	Chlorobenzene-d5	17,605,292	4,316,602-17,266,408
Y9ED9	1,4-Dichlorobenzene-d4	9,979,341	2,450,671-9,802,684
Y9ED9RE	Chlorobenzene-d5	18,049,258	4,316,602-17,266,408
Y9ED9RE	1,4-Difluorobenzene	20,026,412	5,005,543-20,022,174

The mass spectra for 1,2,3-trichloropropane from the low point initial calibration standard were missing from the data package. The laboratory submitted the missing mass spectra upon request, on 07/07/14.

Aside from laboratory artifacts (retention times of 2.2-2.7, 3.1, 3.9, 9.5, 10.5, 14.6, 18.0, and 24.3 minutes), tentatively identified compounds (TICs) were found in samples Y9E96, Y9E97, Y9ED8, and Y9EE0 (see attached Form 1Js).

Manual integration was performed on calibrations and samples. Manual integrations were reviewed and found to be in compliance with CLP Statement of Work requirements.

All method requirements specified in the EPA Contract Laboratory Program (CLP) Organic Statement of Work (SOW), except as noted, have been met.

This report was prepared in accordance with the following documents:

- *Request for Quote (RFQ) for Modified Analysis*, Modification Reference Number 2298.1, April 2, 2014;
- *USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration*, SOM01.1, May 2005;
- *Modifications Updating SOM01.1 to SOM01.2*, Amended April 11, 2007; and
- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, June 2008.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration*, SOM01.1, May 2005.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Holding Time/Preservation	Yes	
2	GC/MS Tune/GC Performance	Yes	
3	Initial Calibration	Yes	
4	Continuing Calibration Verification (CCV)	No	C
5	Laboratory Blanks	No	B
6	Field Blanks	N/A	
7	Deuterated Monitoring Compounds (DMCs)	No	D
8	Matrix Spike/Matrix Spike Duplicates (MS/MSDs)	Yes	
9	Internal Standards	Yes	
10	Compound Identification	Yes	
11	Compound Quantitation	Yes	A
12	System Performance	Yes	
13	Field Duplicate Sample Analysis	No	E

N/A = Not Applicable

III. VALIDITY AND COMMENTS

A. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J" in Table 1A. Results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

B. The following results are qualified as nondetected due to method blank and storage blank contamination and are flagged "U" in Table 1A.

- Bromomethane and methylene chloride in all samples;
- Toluene in samples Y9E98, Y9EC6, Y9ED8, Y9ED9, Y9EE0, Y9EE1, and Y9EE2;
- 1,2,4-Trichlorobenzene in samples Y9EE0 and Y9EF9; and
- 1,2,3-Trichlorobenzene in sample Y9EE0.

Bromomethane and methylene chloride were found in all method blanks and storage blank VHBLK01; toluene was found in method blanks VBLKQP and VBLKQR; 1,2,4-trichlorobenzene and 1,2,3-trichlorobenzene were found in all method blanks (see Table 1A for concentrations). Results listed above are considered nondetected (U) according to the National Functional Guidelines. Methylene chloride results above CRQL and less than four times blank concentration are reported as nondetected at the reported concentration.

The result for toluene in sample Y9EG1 (1.2 ug/kg) is not qualified as nondetected because it is not found in associated method blank VBLKQT. The toluene result for Y9EG1 may be a false positive because it was found in method blanks VBLKQP (0.79 ug/kg) and VBLKQR (0.51 ug/kg).

C. Results for the following analyte are qualified as estimated due to a large percent difference (%D) in the associated CCV and are flagged "UJ" in Table 1A.

- 1,1-Dichloroethene in samples Y9E95, Y9E96, Y9E97, Y9EC7, and Y9ED9 and method blank VBLKQP.

A %D of +29.1% was reported for 1,1-dichloroethene in the 04/22/14 09:37 CCV, which exceeds the $\pm$25.0% validation criterion for opening CCVs.

D. Results for the following analytes are qualified as estimated due to low DMC recoveries and are flagged "UJ" in Table 1A.

{Chloroform-d}

- 1,1-Dichloroethane, bromochloromethane, chloroform, dibromochloromethane, and bromoform in samples Y9EC7 and Y9ED9.

Low DMC recoveries are shown below.

Sample	DMC	% Recovery	QC Limit
Y9EC7	Chloroform-d	71	72-123
Y9ED9	Chloroform-d	69	72-123

Since qualified results are nondetected, false negatives may exist. Samples Y9EC7 and Y9ED9 were not reanalyzed.

Recoveries for DMCs vinyl chloride-d3 in Y9ED0 (127%) and Y9ED8 (123%); chloroethane-d5 in Y9E95 (138%), Y9E96 (138%), Y9EE4 (132%), Y9EF9 (134%), and Y9EG1 (136%); and 1,2-dichloroethane-d4 in Y9EE3 (123%) and Y9EG0 (123%) exceed QC limits, indicating high bias in detected results. Sample results are not qualified because the associated target analytes are nondetects.

E. Data users should note that 1,2,4-trichlorobenzene and 1,2,3-trichlorobenzene were detected in sample Y9ED8 at concentrations of 48 ug/kg and 6.6 ug/kg, respectively, but were not detected in the field duplicate Y9ED9 (5.1U). The effect on data quality is not known.

Lab KAP (KAP Technologies, Inc.) **SDG** Y9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9E95 D1 SAIA-SB19-6 Field_Sample Soil/LOW 1.0 2.7 ug/kg			Y9E96 SAIA-SB19-15 Field_Sample Soil/LOW 1.0 17 ug/kg			Y9E97 SAIA-SB19-25 Field_Sample Soil/LOW 1.0 17 ug/kg			Y9E98 SAIA-SB19-35 Field_Sample Soil/LOW 1.0 16 ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	5.4	U		5.8	U		6.4	U		6.2	U	
Chloromethane	5.4	U		5.8	U		6.4	U		6.2	U	
Vinyl chloride	5.4	U		5.8	U		6.4	U		6.2	U	
Bromomethane	5.4	U	B	5.8	U	B	6.4	U	B	6.2	U	B
Chloroethane	5.4	U		5.8	U		6.4	U		6.2	U	
Trichlorofluoromethane	5.4	U		5.8	U		6.4	U		6.2	U	
1,1-Dichloroethene	5.4	UJ	C	5.8	UJ	C	6.4	UJ	C	6.2	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.4	U		5.8	U		6.4	U		6.2	U	
Acetone	11	U		12	U		13	U		12	U	
Carbon disulfide	5.4	U		5.8	U		6.4	U		6.2	U	
Methyl acetate	5.4	U		5.8	U		6.4	U		6.2	U	
Methylene chloride	5.4	U	B	5.8	U	B	6.4	U	B	6.2	U	B
trans-1,2-Dichloroethene	5.4	U		5.8	U		6.4	U		6.2	U	
Methyl tert-butyl ether	5.4	U		5.8	U		6.4	U		6.2	U	
1,1-Dichloroethane	5.4	U		5.8	U		6.4	U		6.2	U	
cis-1,2-Dichloroethene	5.4	U		5.8	U		6.4	U		6.2	U	
2-Butanone	11	U		12	U		13	U		12	U	
Bromochloromethane	5.4	U		5.8	U		6.4	U		6.2	U	
Chloroform	5.4	U		5.8	U		6.4	U		6.2	U	
1,1,1-Trichloroethane	5.4	U		5.8	U		6.4	U		6.2	U	
Cyclohexane	5.4	U		5.8	U		6.4	U		6.2	U	
Carbon tetrachloride	5.4	U		5.8	U		6.4	U		6.2	U	
Benzene	5.4	U		5.8	U		6.4	U		6.2	U	
1,2-Dichloroethane	5.4	U		5.8	U		6.4	U		6.2	U	
1,4-Dioxane	110	U		120	U		130	U		120	U	

Lab KAP (KAP Technologies, Inc.) **SDG** Y9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample	**Y9E95 D1**			**Y9E96**			**Y9E97**			**Y9E98**		
Location	**SAIA-SB19-6**			**SAIA-SB19-15**			**SAIA-SB19-25**			**SAIA-SB19-35**		
Type	**Field_Sample**			**Field_Sample**			**Field_Sample**			**Field_Sample**		
Matrix/Level	**Soil/LOW**			**Soil/LOW**			**Soil/LOW**			**Soil/LOW**		
Dilution Factor	**1.0**			**1.0**			**1.0**			**1.0**		
% Moisture	**2.7**			**17**			**17**			**16**		
Units	**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Trichloroethene	5.4	U		5.8	U		6.4	U		6.2	U	
Methylcyclohexane	5.4	U		5.8	U		1.3	J	A	6.2	U	
1,2-Dichloropropane	5.4	U		5.8	U		6.4	U		6.2	U	
Bromodichloromethane	5.4	U		5.8	U		6.4	U		6.2	U	
cis-1,3-Dichloropropene	5.4	U		5.8	U		6.4	U		6.2	U	
4-Methyl-2-pentanone	11	U		12	U		13	U		12	U	
Toluene	5.4	U		5.8	U		6.4	U		6.2	U	B
trans-1,3-Dichloropropene	5.4	U		5.8	U		6.4	U		6.2	U	
1,1,2-Trichloroethane	5.4	U		5.8	U		6.4	U		6.2	U	
Tetrachloroethene	5.4	U		5.8	U		6.4	U		6.2	U	
2-Hexanone	11	U		12	U		13	U		12	U	
Dibromochloromethane	5.4	U		5.8	U		6.4	U		6.2	U	
1,2-Dibromoethane	5.4	U		5.8	U		6.4	U		6.2	U	
Chlorobenzene	5.4	U		5.8	U		6.4	U		6.2	U	
Ethylbenzene	5.4	U		5.8	U		6.4	U		6.2	U	
o-Xylene	5.4	U		5.8	U		1.5	J	A	6.2	U	
m,p-Xylene	5.4	U		5.8	U		6.4	U		6.2	U	
Styrene	5.4	U		5.8	U		6.4	U		6.2	U	
Bromoform	5.4	U		5.8	U		6.4	U		6.2	U	
Isopropylbenzene	5.4	U		5.8	U		6.4	U		6.2	U	
1,1,2,2-Tetrachloroethane	5.4	U		5.8	U		6.4	U		6.2	U	
1,3-Dichlorobenzene	5.4	U		5.8	U		6.4	U		6.2	U	
1,4-Dichlorobenzene	5.4	U		5.8	U		6.4	U		6.2	U	
1,2-Dichlorobenzene	5.4	U		5.8	U		6.4	U		6.2	U	
1,2-Dibromo-3-chloropropane	5.4	U		5.8	U		6.4	U		6.2	U	
1,2,4-Trichlorobenzene	5.4	U		5.8	U		6.4	U		6.2	U	
1,2,3-Trichlorobenzene	5.4	U		5.8	U		6.4	U		6.2	U	
1,2,3-Trichloropropane	5.4	U		5.8	U		6.4	U		6.2	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample.

Lab KAP (KAP Technologies, Inc.) **SDG** Y9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9EC6 SAIA-SB24-0.5 Field_Sample Soil/LOW 1.0 5.4 ug/kg			Y9EC7 SAIA-SB24-2 Field_Sample Soil/LOW 1.0 7.8 ug/kg			Y9EC8 SAIA-SB24-5 Field_Sample Soil/LOW 1.0 14 ug/kg			Y9EC9 SAIA-SB24-15 Field_Sample Soil/LOW 1.0 21 ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	5.2	U		5.6	U		5.4	U		5.9	U	
Chloromethane	5.2	U		5.6	U		5.4	U		5.9	U	
Vinyl chloride	5.2	U		5.6	U		5.4	U		5.9	U	
Bromomethane	5.2	U	B	5.6	U	B	5.4	U	B	5.9	U	B
Chloroethane	5.2	U		5.6	U		5.4	U		5.9	U	
Trichlorofluoromethane	5.2	U		5.6	U		5.4	U		5.9	U	
1,1-Dichloroethene	5.2	U		5.6	UJ	C	5.4	U		5.9	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.2	U		5.6	U		5.4	U		5.9	U	
Acetone	10	U		11	U		11	U		12	U	
Carbon disulfide	5.2	U		5.6	U		5.4	U		5.9	U	
Methyl acetate	5.2	U		5.6	U		5.4	U		5.9	U	
Methylene chloride	5.2	U	B	5.6	U	B	5.4	U	B	5.9	U	B
trans-1,2-Dichloroethene	5.2	U		5.6	U		5.4	U		5.9	U	
Methyl tert-butyl ether	5.2	U		5.6	U		5.4	U		5.9	U	
1,1-Dichloroethane	5.2	U		5.6	UJ	D	5.4	U		5.9	U	
cis-1,2-Dichloroethene	5.2	U		5.6	U		5.4	U		5.9	U	
2-Butanone	10	U		11	U		11	U		12	U	
Bromochloromethane	5.2	U		5.6	UJ	D	5.4	U		5.9	U	
Chloroform	5.2	U		5.6	UJ	D	5.4	U		5.9	U	
1,1,1-Trichloroethane	5.2	U		5.6	U		5.4	U		5.9	U	
Cyclohexane	5.2	U		5.6	U		5.4	U		5.9	U	
Carbon tetrachloride	5.2	U		5.6	U		5.4	U		5.9	U	
Benzene	5.2	U		5.6	U		5.4	U		5.9	U	
1,2-Dichloroethane	5.2	U		5.6	U		5.4	U		5.9	U	
1,4-Dioxane	100	U		110	U		110	U		120	U	

Lab KAP (KAP Technologies, Inc.) **SDG** Y9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9EC6 SAIA-SB24-0.5 Field_Sample Soil/LOW 1.0 5.4 ug/kg			Y9EC7 SAIA-SB24-2 Field_Sample Soil/LOW 1.0 7.8 ug/kg			Y9EC8 SAIA-SB24-5 Field_Sample Soil/LOW 1.0 14 ug/kg			Y9EC9 SAIA-SB24-15 Field_Sample Soil/LOW 1.0 21 ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Trichloroethene	5.2	U		5.6	U		5.4	U		5.9	U	
Methylcyclohexane	5.2	U		5.6	U		5.4	U		5.9	U	
1,2-DichloropropanD	5.2	U		5.6	U		5.4	U		5.9	U	
Bromodichloromethane	5.2	U		5.6	U		5.4	U		5.9	U	
cis-1,3-Dichloropropene	5.2	U		5.6	U		5.4	U		5.9	U	
4-Methyl-2-pentanone	10	U		11	U		11	U		12	U	
Toluene	5.2	U	B	5.6	U		5.4	U		5.9	U	
trans-1,3-Dichloropropene	5.2	U		5.6	U		5.4	U		5.9	U	
1,1,2-Trichloroethane	5.2	U		5.6	U		5.4	U		5.9	U	
Tetrachloroethene	5.2	U		5.6	U		5.4	U		5.9	U	
2-Hexanone	10	U		11	U		11	U		12	U	
Dibromochloromethane	5.2	U		5.6	UJ	D	5.4	U		5.9	U	
1,2-Dibromoethane	5.2	U		5.6	U		5.4	U		5.9	U	
Chlorobenzene	5.2	U		5.6	U		5.4	U		5.9	U	
Ethylbenzene	5.2	U		5.6	U		5.4	U		5.9	U	
o-Xylene	5.2	U		5.6	U		5.4	U		5.9	U	
m,p-Xylene	5.2	U		5.6	U		5.4	U		5.9	U	
Styrene	5.2	U		5.6	U		5.4	U		5.9	U	
Bromoform	5.2	U		5.6	UJ	D	5.4	U		5.9	U	
Isopropylbenzene	5.2	U		5.6	U		5.4	U		5.9	U	
1,1,2,2-Tetrachloroethane	5.2	U		5.6	U		5.4	U		5.9	U	
1,3-Dichlorobenzene	5.2	U		5.6	U		5.4	U		5.9	U	
1,4-Dichlorobenzene	5.2	U		5.6	U		5.4	U		5.9	U	
1,2-Dichlorobenzene	5.2	U		5.6	U		5.4	U		5.9	U	
1,2-Dibromo-3-chloropropane	5.2	U		5.6	U		5.4	U		5.9	U	
1,2,4-Trichlorobenzene	5.2	U		5.6	U		5.4	U		5.9	U	
1,2,3-Trichlorobenzene	5.2	U		5.6	U		5.4	U		5.9	U	
1,2,3-Trichloropropane	5.2	U		5.6	U		5.4	U		5.9	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample.

Lab KAP (KAP Technologies, Inc.) **SDG** Y9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9ED0 SAIA-SB24-25 Field_Sample Soil/LOW 1.0 16 ug/kg			Y9ED1 SAIA-SB24-35 Field_Sample Soil/LOW 1.0 14 ug/kg			Y9ED8 D2 SAIA-SB26-0.5 Field_Sample Soil/LOW 1.0 7.3 ug/kg			Y9ED9 D2 SAIA-SB26-0.6 Field_Sample Soil/LOW 1.0 5.1 ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	6.3	U		5.4	U		5.2	U		5.1	U	
Chloromethane	6.3	U		5.4	U		5.2	U		5.1	U	
Vinyl chloride	6.3	U		5.4	U		5.2	U		5.1	U	
Bromomethane	6.3	U	B	5.4	U	B	5.2	U	B	5.1	U	B
Chloroethane	6.3	U		5.4	U		5.2	U		5.1	U	
Trichlorofluoromethane	6.3	U		5.4	U		5.2	U		5.1	U	
1,1-Dichloroethene	6.3	U		5.4	U		5.2	U		5.1	UJ	C
1,1,2-Trichloro-1,2,2-trifluoroethane	6.3	U		5.4	U		5.2	U		5.1	U	
Acetone	13	U		11	U		10	U		10	U	
Carbon disulfide	6.3	U		5.4	U		5.2	U		5.1	U	
Methyl acetate	6.3	U		5.4	U		5.2	U		5.1	U	
Methylene chloride	6.3	U	B	5.4	U	B	5.2	U	B	5.1	U	B
trans-1,2-Dichloroethene	6.3	U		5.4	U		5.2	U		5.1	U	
Methyl tert-butyl ether	6.3	U		5.4	U		5.2	U		5.1	U	
1,1-Dichloroethane	6.3	U		5.4	U		5.2	U		5.1	UJ	D
cis-1,2-Dichloroethene	6.3	U		5.4	U		5.2	U		5.1	U	
2-Butanone	13	U		11	U		10	U		10	U	
Bromochloromethane	6.3	U		5.4	U		5.2	U		5.1	UJ	D
Chloroform	6.3	U		5.4	U		5.2	U		5.1	UJ	D
1,1,1-Trichloroethane	6.3	U		5.4	U		5.2	U		5.1	U	
Cyclohexane	6.3	U		5.4	U		5.2	U		5.1	U	
Carbon tetrachloride	6.3	U		5.4	U		5.2	U		5.1	U	
Benzene	6.3	U		5.4	U		5.2	U		5.1	U	
1,2-Dichloroethane	6.3	U		5.4	U		5.2	U		5.1	U	
1,4-Dioxane	130	U		110	U		100	U		100	U	

Lab KAP (KAP Technologies, Inc.) **SDG** Y9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9ED0 SAIA-SB24-25 Field_Sample Soil/LOW 1.0 16 ug/kg			Y9ED1 SAIA-SB24-35 Field_Sample Soil/LOW 1.0 14 ug/kg			Y9ED8 D2 SAIA-SB26-0.5 Field_Sample Soil/LOW 1.0 7.3 ug/kg			Y9ED9 D2 SAIA-SB26-0.6 Field_Sample Soil/LOW 1.0 5.1 ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Trichloroethene	6.3	U		5.4	U		5.2	U		5.1	U	
Methylcyclohexane	6.3	U		5.4	U		5.2	U		5.1	U	
1,2-Dichloropropane	6.3	U		5.4	U		5.2	U		5.1	U	
Bromodichloromethane	6.3	U		5.4	U		5.2	U		5.1	U	
cis-1,3-Dichloropropene	6.3	U		5.4	U		5.2	U		5.1	U	
4-Methyl-2-pentanone	13	U		11	U		10	U		10	U	
Toluene	6.3	U		5.4	U		5.2	U	B	5.1	U	B
trans-1,3-Dichloropropene	6.3	U		5.4	U		5.2	U		5.1	U	
1,1,2-Trichloroethane	6.3	U		5.4	U		5.2	U		5.1	U	
Tetrachloroethene	6.3	U		5.4	U		5.2	U		5.1	U	
2-Hexanone	13	U		11	U		10	U		10	U	
Dibromochloromethane	6.3	U		5.4	U		5.2	U		5.1	UJ	D
1,2-Dibromoethane	6.3	U		5.4	U		5.2	U		5.1	U	
Chlorobenzene	6.3	U		5.4	U		5.2	U		5.1	U	
Ethylbenzene	6.3	U		5.4	U		5.2	U		5.1	U	
o-Xylene	6.3	U		5.4	U		5.2	U		5.1	U	
m,p-Xylene	6.3	U		5.4	U		5.2	U		5.1	U	
Styrene	6.3	U		5.4	U		5.2	U		5.1	U	
Bromoform	6.3	U		5.4	U		5.2	U		5.1	UJ	D
Isopropylbenzene	6.3	U		5.4	U		5.2	U		5.1	U	
1,1,2,2-Tetrachloroethane	6.3	U		5.4	U		5.2	U		5.1	U	
1,3-Dichlorobenzene	6.3	U		5.4	U		5.2	U		5.1	U	
1,4-Dichlorobenzene	6.3	U		5.4	U		5.2	U		5.1	U	
1,2-Dichlorobenzene	6.3	U		5.4	U		5.2	U		5.1	U	
1,2-Dibromo-3-chloropropane	6.3	U		5.4	U		5.2	U		5.1	U	
1,2,4-Trichlorobenzene	6.3	U		5.4	U		48		E	5.1	U	E
1,2,3-Trichlorobenzene	6.3	U		5.4	U		6.6		E	5.1	U	E
1,2,3-Trichloropropane	6.3	U		5.4	U		5.2	U		5.1	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample.

Lab KAP (KAP Technologies, Inc.) **SDG** Y9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9EE0 SAIA-SB26-2 Field_Sample Soil/LOW 1.0 7.7 ug/kg			Y9EE1 SAIA-SB26-5 Field_Sample Soil/LOW 1.0 5.6 ug/kg			Y9EE2 D3 SAIA-SB26-15 Field_Sample Soil/LOW 1.0 17 ug/kg			Y9EE3 D3 SAIA-SB26-16 Field_Sample Soil/LOW 1.0 20 ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	5.5	U		5.2	U		6.1	U		6.0	U	
Chloromethane	5.5	U		5.2	U		6.1	U		6.0	U	
Vinyl chloride	5.5	U		5.2	U		6.1	U		6.0	U	
Bromomethane	5.5	U	B	5.2	U	B	6.1	U	B	6.0	U	B
Chloroethane	5.5	U		5.2	U		6.1	U		6.0	U	
Trichlorofluoromethane	5.5	U		5.2	U		6.1	U		6.0	U	
1,1-Dichloroethene	5.5	U		5.2	U		6.1	U		6.0	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.5	U		5.2	U		6.1	U		6.0	U	
Acetone	11	U		10	U		12	U		12	U	
Carbon disulfide	5.5	U		5.2	U		6.1	U		6.0	U	
Methyl acetate	5.5	U		5.2	U		6.1	U		6.0	U	
Methylene chloride	5.5	U	B	5.2	U	B	6.1	U	B	8.6	U	B
trans-1,2-Dichloroethene	5.5	U		5.2	U		6.1	U		6.0	U	
Methyl tert-butyl ether	5.5	U		5.2	U		6.1	U		6.0	U	
1,1-Dichloroethane	5.5	U		5.2	U		6.1	U		6.0	U	
cis-1,2-Dichloroethene	5.5	U		5.2	U		6.1	U		6.0	U	
2-Butanone	11	U		10	U		12	U		12	U	
Bromochloromethane	5.5	U		5.2	U		6.1	U		6.0	U	
Chloroform	5.5	U		5.2	U		6.1	U		6.0	U	
1,1,1-Trichloroethane	5.5	U		5.2	U		6.1	U		6.0	U	
Cyclohexane	5.5	U		5.2	U		6.1	U		6.0	U	
Carbon tetrachloride	5.5	U		5.2	U		6.1	U		6.0	U	
Benzene	5.5	U		5.2	U		6.1	U		6.0	U	
1,2-Dichloroethane	5.5	U		5.2	U		6.1	U		6.0	U	
1,4-Dioxane	110	U		100	U		120	U		120	U	

Lab KAP (KAP Technologies, Inc.) **SDG** Y9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9EE0 SAIA-SB26-2 Field_Sample Soil/LOW 1.0 7.7 ug/kg			Y9EE1 SAIA-SB26-5 Field_Sample Soil/LOW 1.0 5.6 ug/kg			Y9EE2 D3 SAIA-SB26-15 Field_Sample Soil/LOW 1.0 17 ug/kg			Y9EE3 D3 SAIA-SB26-16 Field_Sample Soil/LOW 1.0 20 ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Trichloroethene	5.5	U		5.2	U		6.1	U		6.0	U	
Methylcyclohexane	5.5	U		5.2	U		6.1	U		6.0	U	
1,2-Dichloropropane	5.5	U		5.2	U		6.1	U		6.0	U	
Bromodichloromethane	5.5	U		5.2	U		6.1	U		6.0	U	
cis-1,3-Dichloropropene	5.5	U		5.2	U		6.1	U		6.0	U	
4-Methyl-2-pentanone	11	U		10	U		12	U		12	U	
Toluene	5.5	U	B	5.2	U	B	6.1	U	B	6.0	U	
trans-1,3-Dichloropropene	5.5	U		5.2	U		6.1	U		6.0	U	
1,1,2-Trichloroethane	5.5	U		5.2	U		6.1	U		6.0	U	
Tetrachloroethene	5.5	U		5.2	U		6.1	U		6.0	U	
2-Hexanone	11	U		10	U		12	U		12	U	
Dibromochloromethane	5.5	U		5.2	U		6.1	U		6.0	U	
1,2-Dibromoethane	5.5	U		5.2	U		6.1	U		6.0	U	
Chlorobenzene	5.5	U		5.2	U		6.1	U		6.0	U	
Ethylbenzene	5.5	U		5.2	U		6.1	U		6.0	U	
o-Xylene	5.5	U		5.2	U		6.1	U		6.0	U	
m,p-Xylene	5.5	U		5.2	U		6.1	U		6.0	U	
Styrene	5.5	U		5.2	U		6.1	U		6.0	U	
Bromoform	5.5	U		5.2	U		6.1	U		6.0	U	
Isopropylbenzene	5.5	U		5.2	U		6.1	U		6.0	U	
1,1,2,2-Tetrachloroethane	5.5	U		5.2	U		6.1	U		6.0	U	
1,3-Dichlorobenzene	5.5	U		5.2	U		6.1	U		6.0	U	
1,4-Dichlorobenzene	5.5	U		5.2	U		6.1	U		6.0	U	
1,2-Dichlorobenzene	5.5	U		5.2	U		6.1	U		6.0	U	
1,2-Dibromo-3-chloropropane	5.5	U		5.2	U		6.1	U		6.0	U	
1,2,4-Trichlorobenzene	5.5	U	B	5.2	U		6.1	U		6.0	U	
1,2,3-Trichlorobenzene	5.5	U	B	5.2	U		6.1	U		6.0	U	
1,2,3-Trichloropropane	5.5	U		5.2	U		6.1	U		6.0	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample.

Lab KAP (KAP Technologies, Inc.) **SDG** Y9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9EE4 SAIA-SB26-25 Field_Sample Soil/LOW 1.0 18 ug/kg			Y9EF9 SAIA-SB29-2 Field_Sample Soil/LOW 1.0 8.8 ug/kg			Y9EG0 D4 SAIA-SB29-5 Field_Sample Soil/LOW 1.0 17 ug/kg			Y9EG1 D4 SAIA-SB29-6 Field_Sample Soil/LOW 1.0 19 ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	6.2	U		5.6	U		5.7	U		5.9	U	
Chloromethane	6.2	U		5.6	U		5.7	U		5.9	U	
Vinyl chloride	6.2	U		5.6	U		5.7	U		5.9	U	
Bromomethane	6.2	U	B	5.6	U	B	5.7	U	B	5.9	U	B
Chloroethane	6.2	U		5.6	U		5.7	U		5.9	U	
Trichlorofluoromethane	6.2	U		5.6	U		5.7	U		5.9	U	
1,1-Dichloroethene	6.2	U		5.6	U		5.7	U		5.9	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	6.2	U		5.6	U		5.7	U		5.9	U	
Acetone	12	U		11	U		11	U		12	U	
Carbon disulfide	6.2	U		5.6	U		5.7	U		5.9	U	
Methyl acetate	6.2	U		5.6	U		5.7	U		5.9	U	
Methylene chloride	6.2	U	B	5.6	U	B	5.7	U	B	5.9	U	B
trans-1,2-Dichloroethene	6.2	U		5.6	U		5.7	U		5.9	U	
Methyl tert-butyl ether	6.2	U		5.6	U		5.7	U		5.9	U	
1,1-Dichloroethane	6.2	U		5.6	U		5.7	U		5.9	U	
cis-1,2-Dichloroethene	6.2	U		5.6	U		5.7	U		5.9	U	
2-Butanone	12	U		11	U		11	U		12	U	
Bromochloromethane	6.2	U		5.6	U		5.7	U		5.9	U	
Chloroform	6.2	U		5.6	U		5.7	U		5.9	U	
1,1,1-Trichloroethane	6.2	U		5.6	U		5.7	U		5.9	U	
Cyclohexane	6.2	U		5.6	U		5.7	U		5.9	U	
Carbon tetrachloride	6.2	U		5.6	U		5.7	U		5.9	U	
Benzene	6.2	U		5.6	U		5.7	U		5.9	U	
1,2-Dichloroethane	6.2	U		5.6	U		5.7	U		5.9	U	
1,4-Dioxane	120	U		110	U		110	U		120	U	

Lab KAP (KAP Technologies, Inc.) **SDG** Y9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9EE4 SAIA-SB26-25 Field_Sample Soil/LOW 1.0 18 ug/kg			Y9EF9 SAIA-SB29-2 Field_Sample Soil/LOW 1.0 8.8 ug/kg			Y9EG0 D4 SAIA-SB29-5 Field_Sample Soil/LOW 1.0 17 ug/kg			Y9EG1 D4 SAIA-SB29-6 Field_Sample Soil/LOW 1.0 19 ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Trichloroethene	6.2	U		5.6	U		5.7	U		5.9	U	
Methylcyclohexane	6.2	U		5.6	U		5.7	U		5.9	U	
1,2-Dichloropropane	6.2	U		5.6	U		5.7	U		5.9	U	
Bromodichloromethane	6.2	U		5.6	U		5.7	U		5.9	U	
cis-1,3-Dichloropropene	6.2	U		5.6	U		5.7	U		5.9	U	
4-Methyl-2-pentanone	12	U		11	U		11	U		12	U	
Toluene	6.2	U		5.6	U		5.7	U		1.2	J	A
trans-1,3-Dichloropropene	6.2	U		5.6	U		5.7	U		5.9	U	
1,1,2-Trichloroethane	6.2	U		5.6	U		5.7	U		5.9	U	
Tetrachloroethene	6.2	U		5.6	U		5.7	U		5.9	U	
2-Hexanone	12	U		11	U		11	U		12	U	
Dibromochloromethane	6.2	U		5.6	U		5.7	U		5.9	U	
1,2-Dibromoethane	6.2	U		5.6	U		5.7	U		5.9	U	
Chlorobenzene	6.2	U		5.6	U		5.7	U		5.9	U	
Ethylbenzene	6.2	U		5.6	U		5.7	U		5.9	U	
o-Xylene	6.2	U		5.6	U		5.7	U		5.9	U	
m,p-Xylene	6.2	U		5.6	U		5.7	U		5.9	U	
Styrene	6.2	U		5.6	U		5.7	U		5.9	U	
Bromoform	6.2	U		5.6	U		5.7	U		5.9	U	
Isopropylbenzene	6.2	U		5.6	U		5.7	U		5.9	U	
1,1,2,2-Tetrachloroethane	6.2	U		5.6	U		5.7	U		5.9	U	
1,3-Dichlorobenzene	6.2	U		5.6	U		5.7	U		5.9	U	
1,4-Dichlorobenzene	6.2	U		5.6	U		5.7	U		5.9	U	
1,2-Dichlorobenzene	6.2	U		5.6	U		5.7	U		5.9	U	
1,2-Dibromo-3-chloropropane	6.2	U		5.6	U		5.7	U		5.9	U	
1,2,4-Trichlorobenzene	6.2	U		5.6	U	B	5.7	U		5.9	U	
1,2,3-Trichlorobenzene	6.2	U		5.6	U		5.7	U		5.9	U	
1,2,3-Trichloropropane	6.2	U		5.6	U		5.7	U		5.9	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample.

Lab KAP (KAP Technologies, Inc.) **SDG** Y9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample	**VBLKQP**			**VBLKQR**			**VBLKQT**			**VHBLK01**		
Location	**N/A**			**N/A**			**N/A**			**N/A**		
Type	**Method_Blank**			**Method_Blank**			**Method_Blank**			**Storage_Blank**		
Matrix/Level	**Soil/LOW**			**Soil/LOW**			**Soil/LOW**			**Soil/LOW**		
Dilution Factor	**1.0**			**1.0**			**1.0**			**1.0**		
% Moisture	**0.00**			**0.00**			**0.00**			**0.00**		
Units	**ug/kg**			**ug/kg**			**ug/kg**			**ug/kg**		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	5.0	U		5.0	U		5.0	U		5.0	U	
Chloromethane	5.0	U		5.0	U		5.0	U		5.0	U	
Vinyl chloride	5.0	U		5.0	U		5.0	U		5.0	U	
Bromomethane	2.5	J	A	1.5	J	A	1.7	J	A	0.92	J	A
Chloroethane	5.0	U		5.0	U		5.0	U		5.0	U	
Trichlorofluoromethane	5.0	U		5.0	U		5.0	U		5.0	U	
1,1-Dichloroethene	5.0	UJ	C	5.0	U		5.0	U		5.0	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U		5.0	U		5.0	U		5.0	U	
Acetone	10	U		10	U		10	U		10	U	
Carbon disulfide	5.0	U		5.0	U		5.0	U		5.0	U	
Methyl acetate	5.0	U		5.0	U		5.0	U		5.0	U	
Methylene chloride	7.5			2.0	J	A	3.4	J	A	1.5	J	A
trans-1,2-Dichloroethene	5.0	U		5.0	U		5.0	U		5.0	U	
Methyl tert-butyl ether	5.0	U		5.0	U		5.0	U		5.0	U	
1,1-Dichloroethane	5.0	U		5.0	U		5.0	U		5.0	U	
cis-1,2-Dichloroethene	5.0	U		5.0	U		5.0	U		5.0	U	
2-Butanone	10	U		10	U		10	U		10	U	
Bromochloromethane	5.0	U		5.0	U		5.0	U		5.0	U	
Chloroform	5.0	U		5.0	U		5.0	U		5.0	U	
1,1,1-Trichloroethane	5.0	U		5.0	U		5.0	U		5.0	U	
Cyclohexane	5.0	U		5.0	U		5.0	U		5.0	U	
Carbon tetrachloride	5.0	U		5.0	U		5.0	U		5.0	U	
Benzene	5.0	U		5.0	U		5.0	U		5.0	U	
1,2-Dichloroethane	5.0	U		5.0	U		5.0	U		5.0	U	
1,4-Dioxane	100	U		100	U		100	U		100	U	

Lab KAP (KAP Technologies, Inc.) **SDG** Y9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample	VBLKQP			VBLKQR			VBLKQT			VHBLK01		
Location	N/A			N/A			N/A			N/A		
Type	Method_Blank			Method_Blank			Method_Blank			Storage_Blank		
Matrix/Level	Soil/LOW			Soil/LOW			Soil/LOW			Soil/LOW		
Dilution Factor	1.0			1.0			1.0			1.0		
% Moisture	0.00			0.00			0.00			0.00		
Units	ug/kg			ug/kg			ug/kg			ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Trichloroethene	5.0	U		5.0	U		5.0	U		5.0	U	
Methylcyclohexane	5.0	U		5.0	U		5.0	U		5.0	U	
1,2-DichloropropanD	5.0	U		5.0	U		5.0	U		5.0	U	
Bromodichloromethane	5.0	U		5.0	U		5.0	U		5.0	U	
cis-1,3-Dichloropropene	5.0	U		5.0	U		5.0	U		5.0	U	
4-Methyl-2-pentanone	10	U		10	U		10	U		10	U	
Toluene	0.79	J	A	0.51	J	A	5.0	U		5.0	U	
trans-1,3-Dichloropropene	5.0	U		5.0	U		5.0	U		5.0	U	
1,1,2-Trichloroethane	5.0	U		5.0	U		5.0	U		5.0	U	
Tetrachloroethene	5.0	U		5.0	U		5.0	U		5.0	U	
2-Hexanone	10	U		10	U		10	U		10	U	
Dibromochloromethane	5.0	U		5.0	U		5.0	U		5.0	U	
1,2-Dibromoethane	5.0	U		5.0	U		5.0	U		5.0	U	
Chlorobenzene	5.0	U		5.0	U		5.0	U		5.0	U	
Ethylbenzene	5.0	U		5.0	U		5.0	U		5.0	U	
o-Xylene	5.0	U		5.0	U		5.0	U		5.0	U	
m,p-Xylene	0.31	J	A	5.0	U		5.0	U		5.0	U	
Styrene	5.0	U		5.0	U		5.0	U		5.0	U	
Bromoform	5.0	U		5.0	U		5.0	U		5.0	U	
Isopropylbenzene	5.0	U		5.0	U		5.0	U		5.0	U	
1,1,2,2-Tetrachloroethane	5.0	U		5.0	U		5.0	U		5.0	U	
1,3-Dichlorobenzene	0.46	J	A	5.0	U		5.0	U		5.0	U	
1,4-Dichlorobenzene	5.0	U		5.0	U		5.0	U		5.0	U	
1,2-Dichlorobenzene	5.0	U		5.0	U		5.0	U		5.0	U	
1,2-Dibromo-3-chloropropane	5.0	U		5.0	U		5.0	U		5.0	U	
1,2,4-Trichlorobenzene	0.96	J	A	0.97	J	A	1.1	J	A	5.0	U	
1,2,3-Trichlorobenzene	1.2	J	A	1.4	J	A	1.6	J	A	5.0	U	
1,2,3-Trichloropropane	5.0	U		5.0	U		5.0	U		5.0	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample.

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," June 2008.

U The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9E96

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 44248 Mod. Ref No.: 2298.1 SDG No.: Y9E95

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-6425.02

Sample wt/vol: 5.200 (g/mL) G Lab File ID: A39845

Level: (TRACE or LOW/MED) LOW Date Received: 04/17/2014

% Moisture: not dec. 17 Date Analyzed: 04/22/2014

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.28	110	J
02	000493-02-7	Naphthalene, decahydro-, tran	16.48	110	NJ
03		Unknown-02 & $C_{10}H_{14}$ Aromatic HC	16.96	200	NJ
04		Unknown-03 & $C_{11}H_{14}$ Aromatic HC	17.93	120	NJ
05	002958-76-1	Naphthalene, decahydro-2-meth	18.06	150	NJ
06		Unknown-04 & $C_{11}H_{14}$ Aromatic HC	18.54	130	NJ
07	000768-00-3 ($C_{10}H_{12}$)	Benzene, (1-methyl-1-propenyl	19.15	170	NJ
08		Unknown-05	19.27	130	J
09	053172-84-2 ($C_{11}H_{14}$)	Benzene, (1-methyl-1-butenyl)	19.72	170	NJ
10		Unknown-06 & $C_{11}H_{14}$ Aromatic HC	19.89	240	NJ
11	056253-64-6 ($C_{11}H_{14}$)	Benzene, (2-methyl-1-butenyl)	19.96	170	NJ
12	097664-19-2 ↓	Benzene, 1-methyl-2-(1-methyl	20.03	220	NJ
13		Unknown-07 & $C_{12}H_{16}$ Aromatic HC	20.18	100	NJ
14		Unknown-08	20.41	110	J
15	004175-54-6 ($C_{12}H_{16}$)	Naphthalene, 1,2,3,4-tetrahyd	20.67	110	NJ
16		Unknown-09 & $C_{11}H_{14}$ Aromatic HC	20.73	210	NJ
17	040650-41-7 ($C_{12}H_{16}$)	1H-Indene, 2,3-dihydro-1,1,5-	20.90	150	NJ
18		~~Unknown-10~~ $C_{11}H_{14}$ Aromatic HC	20.97	160	NJ
19		Unknown-11 & $C_{12}H_{16}$	21.20	110	NJ
20		Unknown-12 & $C_{12}H_{18}$	21.34	150	NJ
21		Unknown-13 & $C_{12}H_{16}$	21.59	140	NJ
22		Unknown-14 & $C_{12}H_{16}$	21.70	220	NJ
23		Unknown-15 & $C_{12}H_{16}$	21.86	120	NJ
24		Unknown-16 & $C_{12}H_{16}$ ↓	21.98	240	NJ
25	021564-91-0 ($C_{12}H_{16}$)	Naphthalene, 1,2,3,4-tetrahyd	22.29	190	NJ
26		Unknown-17 & $C_{12}H_{16}$ Aromatic HC	22.37	140	NJ
27		~~Unknown-18~~ $C_{13}H_{18}$	22.52	120	NJ
28		Unknown-19 & $C_{13}H_{18}$ ↓	22.59	150	NJ
29	000475-03-6 ($C_{13}H_{18}$)	Naphthalene, 1,2,3,4-tetrahyd	22.86	160	NJ
30		~~Unknown-20~~ $C_{12}H_{16}$ Aromatic HC	23.57	160	NJ
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

HC = Hydrocarbon.

SL, 6/21/14.

SOM01.2 (6/2007)

0056

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9E97

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 44248 Mod. Ref No.: 2298.1 SDG No.: Y9E95

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-6425.03

Sample wt/vol: 4.700 (g/mL) G Lab File ID: A39846

Level: (TRACE or LOW/MED) LOW Date Received: 04/17/2014

% Moisture: not dec. 17 Date Analyzed: 04/22/2014

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	~~000463-71-8~~	~~cis 1,3 Dichloropropene d4~~	~~9.51~~	~~90~~	~~NJ~~
02	000493-02-7	Naphthalene, decahydro-, tran	16.48	130	NJ
03		Unknown-01 & $C_{10}H_{14}$ Aromatic HC	16.96	160	NJ
04	1000152-47-3	trans-Decalin, 2-methyl-	17.69	170	NJ
05		Unknown-02 & $C_{11}H_{14}$ Aromatic HC	17.93	120	NJ
06	002958-76-1	Naphthalene, decahydro-2-meth	18.06	150	NJ
07		Unknown-03 & $C_{11}H_{16}$ Aromatic HC	18.54	110	NJ
08	002050-24-0 ($C_{11}H_{16}$)	Benzene, 1,3-diethyl-5-methyl	18.73	83	NJ
09	056253-64-6 ($C_{11}H_{14}$)	Benzene, (2-methyl-1-butenyl)	18.83	100	NJ
10	000824-90-8 ($C_{10}H_{12}$)	1-Phenyl-1-butene	19.15	180	NJ
11	053172-84-2 ($C_{11}H_{14}$)	Benzene, (1-methyl-1-butenyl)	19.72	190	NJ
12		Unknown-04 & $C_{11}H_{14}$ Aromatic HC	19.89	220	NJ
13	056253-64-6 ($C_{11}H_{14}$)	Benzene, (2-methyl-1-butenyl)	19.96	150	NJ
14	020836-11-7 ↓	1H-Indene, 2,3-dihydro-2,2-dim	20.03	180	NJ
15	004175-54-6 ($C_{12}H_{16}$)	Naphthalene, 1,2,3,4-tetrahyd	20.67	86	NJ
16		Unknown-05 & $C_{11}H_{14}$ Aromatic HC	20.73	170	NJ
17	004175-54-6 ($C_{12}H_{16}$)	Naphthalene, 1,2,3,4-tetrahyd	20.90	110	NJ
18	000769-57-3 ($C_{11}H_{14}$)	.alpha.,.beta.,.beta.-Trimeth	20.98	140	NJ
19		Unknown-06 & $C_{12}H_{18}$ Aromatic HC	21.19	87	NJ
20		Unknown-07 & $C_{13}H_{18}$ ↓	21.34	180	NJ
21	014679-13-1 ($C_{12}H_{16}$)	Benzene, 1,3,5-trimethyl-2-(1	21.59	97	NJ
22		Unknown-08 & $C_{12}H_{16}$ Aromatic HC	21.70	170	NJ
23	002613-76-5 ($C_{12}H_{16}$)	1H-Indene, 2,3-dihydro-1,1,3-	21.86	130	NJ
24		Unknown-09 & $C_{12}H_{16}$ Aromatic HC	21.98	180	NJ
25	040650-41-7 ($C_{12}H_{16}$)	Naphthalene, 1,2,3,4-tetrahyd	22.29	130	NJ
26		Unknown-10 & $C_{12}H_{16}$ Aromatic HC	22.37	100	NJ
27		~~Unknown-11 & $C_{13}H_{18}$~~	22.52	81	NJ
28		Unknown-12 & $C_{13}H_{18}$ ↓	22.59	110	NJ
29	001078-04-2 ($C_{13}H_{18}$)	Naphthalene, 1,2,3,4-tetrahyd	22.86	110	NJ
30		Unknown-13 & $C_{12}H_{16}$ Aromatic HC	23.57	100	NJ
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

HC = Hydrocarbon.

SL, 4/21/14.

SOM01.2 (6/2007)

0098

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9ED8 (D2)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 44248 Mod. Ref No.: 2298.1 SDG No.: Y9E95

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-6425.11

Sample wt/vol: 5.200 (g/mL) G Lab File ID: A39865

Level: (TRACE or LOW/MED) LOW Date Received: 04/17/2014

% Moisture: not dec. 7.3 Date Analyzed: 04/23/2014

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.27	31	J
02		Unknown-02	2.42	40	J
03		Unknown-03	2.55	31	J
04		Unknown-04	3.12	4.0	J
05		Unknown-05	3.88	3.8	J
06	000542-88-1	cis-1,3-Dichloropropene-d4	9.51	69	NJ
07	000556-67-2	Cyclotetrasiloxane, octamethy	14.61	5.6	NJ
08	000634-90-2	Benzene, 1,2,3,5-tetrachloro-	22.69	5.8	NJ
09	000634-90-2	Benzene, 1,2,3,5-tetrachloro-	23.84	33	NJ
10		Unknown-06	24.12	3.3	J
11		Unknown-07	24.26	8.6	J
12		Unknown-08	24.42	3.2	J
13					
14		SL 6/21/14			
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

D298

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9EE0

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 44248 Mod. Ref No.: 2298.1 SDG No.: Y9E95

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-6425.13

Sample wt/vol: 4.900 (g/mL) G Lab File ID: A39866

Level: (TRACE or LOW/MED) LOW Date Received: 04/17/2014

% Moisture: not dec. 7.7 Date Analyzed: 04/23/2014

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.25	28	~~JB~~
02		Unknown-02	2.38	~~58~~	J
03		Unknown-03	2.63	20	J
04		Unknown-04	3.12	4.8	J
05		Unknown-05	3.22	3.3	J
06		Unknown-06	3.88	2.2	J
07		Unknown-07	9.00	3.7	J
08	000463-71-8	cis-1,3-Dichloropropene-d4	9.52	75	NJ
09		Unknown-08	10.50	2.1	J
10		Unknown-09	14.61	3.4	J
11		Unknown-10	18.03	4.1	J
12	000095-94-3	Benzene, 1,2,4,5-tetrachloro-	23.84	4.9	NJ
13		~~Unknown-11~~	~~24.26~~	~~3.8~~	~~J~~
14					
15		SL, 5/1/14.			
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

0373

ICF International
Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300 Fax: (510) 412-2304

MEMORANDUM

TO: Karen Jurist, Remedial Project Manager
Site Cleanup Section 3, SFD-7-3

THROUGH: Joe Eidelberg, Chemist
Quality Assurance (QA) Program, MTS-3

Joseph Eidelberg
Digitally Signed

FROM: Kathy O'Brien, Data Review Task Manager
Region 9 Environmental Services Assistance Team (ESAT)

ESAT Contract No.: EP-W-13-029
Technical Direction Form No.: 10106032 (Revised)

DATE: June 26, 2014

SUBJECT: Review of Analytical Data, Tier 3

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Southern Avenue Industrial Area
Site Account No.:	09 WS QB 00
CERCLIS ID No.:	CAN000905902
Case No.:	44248
SDG No.:	MY9E95
Laboratory:	Chemtech Consulting Group (CHEM)
Analysis:	CLP Metals by ICP-AES and Mercury
Samples:	20 Soil Samples
Collection Date:	April 16, 2014
Reviewer:	Dina Bailey, ESAT

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Kim Brandon-Bazile, CLP PO USEPA Region 2
Steve Remaley, CLP PO USEPA Region 9
Richard Bauer, EPA COR for ESAT Region 9

CLP PO: [X] FYI [ ] Action

SAMPLING ISSUES: [ ] Yes [X] No

Data Validation Report – Tier 3

Case No.: 44248
SDG No.: MY9E95
Site: Southern Avenue Industrial Area
Laboratory: Chemtech Consulting Group (CHEM)
Reviewer: Dina Bailey, ESAT
Date: June 26, 2014

I. SDG SUMMARY

For Sample Information and Laboratory QC, refer to EXES National Functional Guideline Report #04, *Analytical Sample Listing*.

Field QC

Field Blanks (FB):	None Provided
Equipment Blanks (EB):	None Provided
Background Samples (BG):	None Provided
Field Duplicates (D1):	MY9E94 (in SDG MY9EJ1) and MY9E95
Field Duplicates (D2):	MY9ED8 and MY9ED9
Field Duplicates (D3):	MY9EE2 and MY9EE3
Field Duplicates (D4):	MY9EG0 and MY9EG1

Tables

1A:	Analytical Results with Qualifications
1B:	Data Qualifier Definitions for Inorganic Data Review

CLP PO Action

None.

Sampling Issues

None.

Additional Comments

All samples in SDG MY9E95 were analyzed for CLP metals. Aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, selenium, silver, sodium, thallium, vanadium, and zinc were analyzed by Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES). Mercury was analyzed by Cold Vapor Atomic Absorption (CVAA).

This report was prepared in accordance with the following documents:
- *USEPA Contract Laboratory Program Statement of Work for Inorganic Superfund Methods (Multi-Media, Multi-Concentration)* ISM01.2, January 2010;
- *Modifications Updating ISM01.2 to ISM01.3*; and
- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, January 2010.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Inorganic Superfund Methods (Multi-Media, Multi-Concentration)* ISM01.3.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1.	Data Completeness	Yes	
2.	Preservation and Holding Times	Yes	
3.	Calibration	Yes	
	a. Initial	Yes	
	b. Initial and Continuing Calibration Verification	Yes	
	c. ICP-MS Tuning Analysis	N/A	
4.	Blanks	Yes	B
5.	ICP Interference Check Sample (ICS)	Yes	
6.	Laboratory Control Sample (LCS)	Yes	
7.	Duplicate Sample Analysis	Yes	
8.	Spike Sample Analysis	No	C
9.	ICP Serial Dilution	Yes	
10.	ICP-MS Internal Standards	N/A	
11.	Field Duplicate Sample Analysis	No	D
12.	Sample Quantitation	Yes	A
13.	Overall Assessment	Yes	

N/A – Not Applicable

III. VALIDITY AND COMMENTS

A. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J" in Table 1A. The results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

B. The following results are qualified as non-detected (U) in Table 1A due to low level continuing calibration blank (CCB) contamination.

- Antimony in samples MY9E95 through MY9E98, MY9EC8, MY9EC9, MY9ED0, MY9ED1, and in preparation blank PBS01;
- Silver in samples MY9EE1 through MY9EE4, MY9EF9, and MY9EG1; and
- Sodium in samples MY9EE0, MY9EE1, MY9EF9, MY9EG0, and MY9EG1.

Analyte amounts greater than the MDL but less than the CRQL were found in the following blanks at the concentrations listed below.

Analyte	Blank	Concentration, µg/L
Antimony	CCB20/CCB21	2.723/3.989
Silver	CCB24	0.625
Sodium	CCB23	306

Sample results that are greater than or equal to the MDL but less than or equal to the CRQL are reported as non-detected (U) at the respective CRQL.

C. The following results are estimated and flagged “J”, “J+” or “UJ” in Table 1A because matrix spike recoveries are outside method QC limit.

- Antimony, lead, and thallium in all samples.

Matrix spike recoveries for antimony, lead, and thallium in QC sample MY9E98S do not meet the 75-125% criterion for accuracy as listed below.

Analyte	% Recovery
Antimony	67
Lead	128
Thallium	32

The results for antimony and thallium in all samples are considered quantitatively uncertain. The detected results for lead in all samples are considered quantitatively uncertain and may be biased high.

The following post-digestion spike recoveries were reported for antimony, lead, and thallium in QC sample MY9E98A.

Analyte	Post-Digestion Spike, % Recovery
Antimony	101
Lead	130
Thallium	127

Since both the post- and pre-digestion spikes for lead and thallium do not meet the QC criteria, matrix effects may be present in the sample digestate which impact the analyte signal during analysis.

Since the antimony post-digestion spike recovery is acceptable, the unacceptable pre-digestion spike recovery may indicate poor laboratory technique or matrix effects which may interfere with the analysis.

D. Results for the following field duplicate pairs do not meet the ±35% relative percent difference (RPD) criterion for precision as shown below.

MY9E94 and MY9E95 (D1)

Analyte	RPD
Chromium	46
Lead	52

MY9ED8 and MY9ED9 (D2)

Analyte	RPD
Calcium	51

MY9EG0 and MY9EG1 (D4)

Analyte	RPD
Chromium	75
Copper	47
Lead	108
Vanadium	37
Zinc	46

Results for the following field duplicate pair do not meet the absolute difference criterion of ≤2x CRQL for precision as listed below.

Analyte	MY9EG0 mg/kg	MY9EG1 mg/kg	Difference, mg/kg	CRQL, mg/kg
Cobalt	25.0	10.1	14.9	5.0

The effect on data quality is not known.

Lab Chemtech Consulting Group (CHEM) **SDG** MY9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** ISM01.3 Metals by ICP-AES and Mercury

Sample No:	MY9E95 D1				MY9E96				MY9E97				MY9E98			
Sample Location:	SAIA-SB19-6				SAIA-SB19-15				SAIA-SB19-25				SAIA-SB19-35			
Sample Type:	Field_Sample				Field_Sample				Field_Sample				Field_Sample			
Matrix/Level:	Soil/Low				Soil/Low				Soil/Low				Soil/Low			
%Solids	96.7				82.4				82				92.5			
Units :	mg/kg				mg/kg				mg/kg				mg/kg			
Compound	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**
Aluminum	10100			ICP_AES	17200			ICP_AES	18500			ICP_AES	11200			ICP_AES
Antimony	4.6	UJ	B,C	ICP_AES	5.3	UJ	B,C	ICP_AES	4.9	UJ	B,C	ICP_AES	4.6	UJ	B,C	ICP_AES
Arsenic	2.4			ICP_AES	4.7			ICP_AES	4.5			ICP_AES	3.0			ICP_AES
Barium	96.7			ICP_AES	156			ICP_AES	164			ICP_AES	94.5			ICP_AES
Beryllium	0.41			ICP_AES	0.71			ICP_AES	0.78			ICP_AES	0.47			ICP_AES
Cadmium	0.38	U		ICP_AES	0.44	U		ICP_AES	0.41	U		ICP_AES	0.39	U		ICP_AES
Calcium	4890			ICP_AES	10200			ICP_AES	10100			ICP_AES	5900			ICP_AES
Chromium	12.5		D	ICP_AES	24.9			ICP_AES	23.3			ICP_AES	15.5			ICP_AES
Cobalt	7.8			ICP_AES	13.2			ICP_AES	14.0			ICP_AES	8.8			ICP_AES
Copper	140			ICP_AES	99.6			ICP_AES	23.8			ICP_AES	14.4			ICP_AES
Iron	17200			ICP_AES	26700			ICP_AES	27100			ICP_AES	19600			ICP_AES
Lead	23.6	J+	C,D	ICP_AES	21.2	J+	C	ICP_AES	5.3	J+	C	ICP_AES	3.3	J+	C	ICP_AES
Magnesium	5200			ICP_AES	8600			ICP_AES	9170			ICP_AES	5470			ICP_AES
Manganese	239			ICP_AES	425			ICP_AES	410			ICP_AES	273			ICP_AES
Mercury	0.020	J	A	Hg	0.057	J	A	Hg	0.037	J	A	Hg	0.021	J	A	Hg
Nickel	9.4			ICP_AES	20.0			ICP_AES	17.4			ICP_AES	10.5			ICP_AES
Potassium	3470			ICP_AES	4180			ICP_AES	4690			ICP_AES	3330			ICP_AES
Selenium	1.9	J	A	ICP_AES	2.8	J	A	ICP_AES	2.8	J	A	ICP_AES	2.0	J	A	ICP_AES
Silver	0.76	U		ICP_AES	0.88	U		ICP_AES	0.82	U		ICP_AES	0.77	U		ICP_AES
Sodium	307	J	A	ICP_AES	431	J	A	ICP_AES	477			ICP_AES	272	J	A	ICP_AES
Thallium	1.9	UJ	C	ICP_AES	2.2	UJ	C	ICP_AES	2.0	UJ	C	ICP_AES	1.9	UJ	C	ICP_AES
Vanadium	31.6			ICP_AES	52.6			ICP_AES	56.0			ICP_AES	38.5			ICP_AES
Zinc	80.9			ICP_AES	94.6			ICP_AES	66.9			ICP_AES	43.1			ICP_AES

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample.

Lab Chemtech Consulting Group (CHEM) **SDG** MY9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** ISM01.3 Metals by ICP-AES and Mercury

Sample No:	MY9EC6				MY9EC7				MY9EC8				MY9EC9			
Sample Location:	SAIA-SB24-0.5				SAIA-SB24-2				SAIA-SB24-5				SAIA-SB24-15			
Sample Type:	Field_Sample				Field_Sample				Field_Sample				Field_Sample			
Matrix/Level:	Soil/Low				Soil/Low				Soil/Low				Soil/Low			
% Solids	93.5				91.3				81.3				80.3			
Units :	mg/kg				mg/kg				mg/kg				mg/kg			
Compound	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**
Aluminum	12200			ICP_AES	12500			ICP_AES	21500			ICP_AES	20700			ICP_AES
Antimony	27.8	J	C	ICP_AES	10.0	J	C	ICP_AES	5.3	UJ	B,C	ICP_AES	5.5	UJ	B,C	ICP_AES
Arsenic	5.2			ICP_AES	3.7			ICP_AES	4.7			ICP_AES	5.0			ICP_AES
Barium	337			ICP_AES	125			ICP_AES	176			ICP_AES	184			ICP_AES
Beryllium	0.49			ICP_AES	0.49			ICP_AES	0.84			ICP_AES	0.87			ICP_AES
Cadmium	1.3			ICP_AES	0.40	U		ICP_AES	0.45	U		ICP_AES	0.45	U		ICP_AES
Calcium	7890			ICP_AES	9390			ICP_AES	10400			ICP_AES	11900			ICP_AES
Chromium	26.9			ICP_AES	17.4			ICP_AES	26.8			ICP_AES	25.3			ICP_AES
Cobalt	12.4			ICP_AES	9.6			ICP_AES	14.5			ICP_AES	14.7			ICP_AES
Copper	692			ICP_AES	26.3			ICP_AES	32.0			ICP_AES	26.0			ICP_AES
Iron	25300			ICP_AES	22200			ICP_AES	29400			ICP_AES	29500			ICP_AES
Lead	792	J+	C	ICP_AES	227	J+	C	ICP_AES	25.9	J+	C	ICP_AES	5.8	J+	C	ICP_AES
Magnesium	6020			ICP_AES	6460			ICP_AES	8830			ICP_AES	10000			ICP_AES
Manganese	362			ICP_AES	334			ICP_AES	452			ICP_AES	451			ICP_AES
Mercury	0.035	J	A	Hg	0.015	J	A	Hg	0.093	J	A	Hg	0.062	J	A	Hg
Nickel	19.4			ICP_AES	12.1			ICP_AES	20.3			ICP_AES	18.5			ICP_AES
Potassium	3840			ICP_AES	4040			ICP_AES	5300			ICP_AES	4900			ICP_AES
Selenium	2.7	J	A	ICP_AES	2.4	J	A	ICP_AES	2.7	J	A	ICP_AES	3.1	J	A	ICP_AES
Silver	0.78	U		ICP_AES	0.81	U		ICP_AES	0.89	U		ICP_AES	0.91	U		ICP_AES
Sodium	371	J	A	ICP_AES	371	J	A	ICP_AES	424	J	A	ICP_AES	472			ICP_AES
Thallium	2.0	UJ	C	ICP_AES	2.0	UJ	C	ICP_AES	2.2	UJ	C	ICP_AES	2.3	UJ	C	ICP_AES
Vanadium	42.3			ICP_AES	43.0			ICP_AES	58.0			ICP_AES	59.9			ICP_AES
Zinc	440			ICP_AES	63.9			ICP_AES	76.5			ICP_AES	72.9			ICP_AES

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample.

Lab Chemtech Consulting Group (CHEM) **SDG** MY9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** ISM01.3 Metals by ICP-AES and Mercury

Sample No:	MY9ED0				MY9ED1				MY9ED8 D2				MY9ED9 D2			
Sample Location:	SAIA-SB24-25				SAIA-SB24-35				SAIA-SB26-0.5				SAIA-SB26-0.6			
Sample Type:	Field_Sample				Field_Sample				Field_Sample				Field_Sample			
Matrix/Level:	Soil/Low				Soil/Low				Soil/Low				Soil/Low			
% Solids	81.6				84.9				90.3				92			
Units :	mg/kg				mg/kg				mg/kg				mg/kg			
Compound	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**
Aluminum	17500			ICP_AES	12300			ICP_AES	9650			ICP_AES	10200			ICP_AES
Antimony	5.3	UJ	B,C	ICP_AES	5.4	UJ	B,C	ICP_AES	20.1	J	C	ICP_AES	29.3	J	C	ICP_AES
Arsenic	7.0			ICP_AES	21.4			ICP_AES	6.2			ICP_AES	6.7			ICP_AES
Barium	168			ICP_AES	105			ICP_AES	189			ICP_AES	211			ICP_AES
Beryllium	0.66			ICP_AES	0.43	J	A	ICP_AES	0.47			ICP_AES	0.44			ICP_AES
Cadmium	0.44	U		ICP_AES	0.45	U		ICP_AES	26.7			ICP_AES	31.0			ICP_AES
Calcium	12100			ICP_AES	18300			ICP_AES	4150		D	ICP_AES	6970		D	ICP_AES
Chromium	25.6			ICP_AES	18.1			ICP_AES	240			ICP_AES	234			ICP_AES
Cobalt	13.2			ICP_AES	9.8			ICP_AES	21.6			ICP_AES	21.3			ICP_AES
Copper	34.1			ICP_AES	14.9			ICP_AES	187			ICP_AES	199			ICP_AES
Iron	27500			ICP_AES	22400			ICP_AES	22100			ICP_AES	22000			ICP_AES
Lead	48.6	J+	C	ICP_AES	3.4	J+	C	ICP_AES	1360	J+	C	ICP_AES	1850	J+	C	ICP_AES
Magnesium	8680			ICP_AES	6810			ICP_AES	4310			ICP_AES	4490			ICP_AES
Manganese	475			ICP_AES	385			ICP_AES	404			ICP_AES	418			ICP_AES
Mercury	0.072	J	A	Hg	0.18			Hg	0.21			Hg	0.15			Hg
Nickel	18.4			ICP_AES	12.0			ICP_AES	152			ICP_AES	136			ICP_AES
Potassium	4200			ICP_AES	3670			ICP_AES	2080			ICP_AES	2450			ICP_AES
Selenium	2.6	J	A	ICP_AES	2.4	J	A	ICP_AES	2.9			ICP_AES	2.7	J	A	ICP_AES
Silver	0.88	U		ICP_AES	0.89	U		ICP_AES	1.9			ICP_AES	2.4			ICP_AES
Sodium	442			ICP_AES	478			ICP_AES	334	J	A	ICP_AES	331	J	A	ICP_AES
Thallium	2.2	UJ	C	ICP_AES	2.2	UJ	C	ICP_AES	2.0	UJ	C	ICP_AES	2.0	UJ	C	ICP_AES
Vanadium	54.0			ICP_AES	46.8			ICP_AES	39.1			ICP_AES	41.6			ICP_AES
Zinc	68.9			ICP_AES	47.8			ICP_AES	1350			ICP_AES	1550			ICP_AES

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D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample.

Lab Chemtech Consulting Group (CHEM) **SDG** MY9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** ISM01.3 Metals by ICP-AES and Mercury

Sample No:	MY9EE0				MY9EE1				MY9EE2 D3				MY9EE3 D3			
Sample Location:	SAIA-SB26-2				SAIA-SB26-5				SAIA-SB26-15				SAIA-SB26-16			
Sample Type:	Field_Sample				Field_Sample				Field_Sample				Field_Sample			
Matrix/Level:	Soil/Low				Soil/Low				Soil/Low				Soil/Low			
% Solids	91.2				90.6				82.1				82.7			
Units :	mg/kg				mg/kg				mg/kg				mg/kg			
Compound	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**
Aluminum	11900			ICP_AES	11800			ICP_AES	21700			ICP_AES	20600			ICP_AES
Antimony	64.1	J	C	ICP_AES	10.0	J	C	ICP_AES	1.1	J	A,C	ICP_AES	1.5	J	A,C	ICP_AES
Arsenic	6.5			ICP_AES	2.1			ICP_AES	4.2			ICP_AES	3.9			ICP_AES
Barium	169			ICP_AES	115			ICP_AES	170			ICP_AES	167			ICP_AES
Beryllium	0.44			ICP_AES	0.41			ICP_AES	0.73			ICP_AES	0.71			ICP_AES
Cadmium	40.5			ICP_AES	3.2			ICP_AES	0.89			ICP_AES	0.91			ICP_AES
Calcium	5590			ICP_AES	6800			ICP_AES	14300			ICP_AES	13700			ICP_AES
Chromium	200			ICP_AES	19.9			ICP_AES	24.2			ICP_AES	24.0			ICP_AES
Cobalt	17.2			ICP_AES	8.1			ICP_AES	13.2			ICP_AES	13.3			ICP_AES
Copper	359			ICP_AES	20.5			ICP_AES	26.3			ICP_AES	25.3			ICP_AES
Iron	26800			ICP_AES	22700			ICP_AES	31400			ICP_AES	31500			ICP_AES
Lead	2620	J+	C	ICP_AES	41.6	J+	C	ICP_AES	6.8	J+	C	ICP_AES	6.2	J+	C	ICP_AES
Magnesium	5560			ICP_AES	5860			ICP_AES	9300			ICP_AES	9000			ICP_AES
Manganese	364			ICP_AES	384			ICP_AES	452			ICP_AES	448			ICP_AES
Mercury	0.10			Hg	0.024	J	A	Hg	0.14			Hg	0.048	J	A	Hg
Nickel	77.6			ICP_AES	13.1			ICP_AES	19.5			ICP_AES	19.1			ICP_AES
Potassium	3320			ICP_AES	3790			ICP_AES	4660			ICP_AES	4520			ICP_AES
Selenium	3.7			ICP_AES	2.6	J	A	ICP_AES	3.2			ICP_AES	3.0			ICP_AES
Silver	2.4			ICP_AES	0.77	U	B	ICP_AES	0.84	U	B	ICP_AES	0.86	U	B	ICP_AES
Sodium	389	U	B	ICP_AES	386	U	B	ICP_AES	561			ICP_AES	524			ICP_AES
Thallium	1.9	UJ	C	ICP_AES	1.9	UJ	C	ICP_AES	2.1	UJ	C	ICP_AES	2.2	UJ	C	ICP_AES
Vanadium	48.4			ICP_AES	44.2			ICP_AES	63.3			ICP_AES	63.3			ICP_AES
Zinc	1240			ICP_AES	150			ICP_AES	70.1			ICP_AES	66.6			ICP_AES

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D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample.

Lab Chemtech Consulting Group (CHEM) **SDG** MY9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** ISM01.3 Metals by ICP-AES and Mercury

Sample No:	MY9EE4				MY9EF9				MY9EG0 D4				MY9EG1 D4			
Sample Location:	SAIA-SB26-25				SAIA-SB29-2				SAIA-SB29-5				SAIA-SB29-6			
Sample Type:	Field_Sample				Field_Sample				Field_Sample				Field_Sample			
Matrix/Level:	Soil/Low				Soil/Low				Soil/Low				Soil/Low			
% Solids:	79.9				90.7				83.2				85.6			
Units :	mg/kg				mg/kg				mg/kg				mg/kg			
Compound	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**
Aluminum	22300			ICP_AES	13200			ICP_AES	19100			ICP_AES	14700			ICP_AES
Antimony	1.3	J	A,C	ICP_AES	1.6	J	A,C	ICP_AES	1.7	J	A,C	ICP_AES	1.2	J	A,C	ICP_AES
Arsenic	4.0			ICP_AES	2.6			ICP_AES	3.5			ICP_AES	2.8			ICP_AES
Barium	198			ICP_AES	124			ICP_AES	176			ICP_AES	138			ICP_AES
Beryllium	0.77			ICP_AES	0.48			ICP_AES	0.68			ICP_AES	0.50			ICP_AES
Cadmium	0.86			ICP_AES	0.70			ICP_AES	1.0			ICP_AES	0.62			ICP_AES
Calcium	14100			ICP_AES	7130			ICP_AES	9500			ICP_AES	7720			ICP_AES
Chromium	23.6			ICP_AES	24.2			ICP_AES	46.8		D	ICP_AES	21.3		D	ICP_AES
Cobalt	14.0			ICP_AES	13.7			ICP_AES	25.0		D	ICP_AES	10.1		D	ICP_AES
Copper	27.6			ICP_AES	20.5			ICP_AES	28.9		D	ICP_AES	17.9		D	ICP_AES
Iron	30600			ICP_AES	24700			ICP_AES	31700			ICP_AES	23800			ICP_AES
Lead	6.4	J+	C	ICP_AES	13.8	J+	C	ICP_AES	18.3	J+	C,D	ICP_AES	5.5	J+	C,D	ICP_AES
Magnesium	10400			ICP_AES	6470			ICP_AES	8540			ICP_AES	6570			ICP_AES
Manganese	466			ICP_AES	344			ICP_AES	444			ICP_AES	321			ICP_AES
Mercury	0.051	J	A	Hg	0.023	J	A	Hg	0.032	J	A	Hg	0.082	J	A	Hg
Nickel	20.0			ICP_AES	13.9			ICP_AES	20.4			ICP_AES	13.3			ICP_AES
Potassium	5460			ICP_AES	4420			ICP_AES	5300			ICP_AES	4140			ICP_AES
Selenium	3.0	J	A	ICP_AES	2.9			ICP_AES	4.2			ICP_AES	2.5	J	A	ICP_AES
Silver	0.86	U	B	ICP_AES	0.78	U	B	ICP_AES	1.0			ICP_AES	0.89	U	B	ICP_AES
Sodium	649			ICP_AES	388	U	B	ICP_AES	435	U	B	ICP_AES	446	U	B	ICP_AES
Thallium	2.1	UJ	C	ICP_AES	1.9	UJ	C	ICP_AES	2.2	UJ	C	ICP_AES	2.2	UJ	C	ICP_AES
Vanadium	59.2			ICP_AES	47.3			ICP_AES	66.8		D	ICP_AES	46.0		D	ICP_AES
Zinc	72.8			ICP_AES	75.3			ICP_AES	86.6		D	ICP_AES	54.4		D	ICP_AES

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D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample.

Lab Chemtech Consulting Group (CHEM) **SDG** MY9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** ISM01.3 Metals by ICP-AES and Mercury

Sample No:	PBS01 / PBS02															
Sample Location:																
Sample Type:	Preparation_Blank															
Matrix/Level:	Soil/Low															
% Solids:																
Units :	mg/kg															
Compound	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**	**Result**	**Flag**	**Com**	**Method**
Aluminum	20.0	U		ICP_AES												
Antimony	6.0	U	B	ICP_AES												
Arsenic	1.0	U		ICP_AES												
Barium	20.0	U		ICP_AES												
Beryllium	0.50	U		ICP_AES												
Cadmium	0.50	U		ICP_AES												
Calcium	500	U		ICP_AES												
Chromium	1.0	U		ICP_AES												
Cobalt	5.0	U		ICP_AES												
Copper	2.5	U		ICP_AES												
Iron	10.0	U		ICP_AES												
Lead	1.0	U		ICP_AES												
Magnesium	500	U		ICP_AES												
Manganese	1.5	U		ICP_AES												
Mercury	0.10	U		Hg												
Nickel	4.0	U		ICP_AES												
Potassium	500	U		ICP_AES												
Selenium	3.5	U		ICP_AES												
Silver	1.0	U		ICP_AES												
Sodium	500	U		ICP_AES												
Thallium	2.5	U		ICP_AES												
Vanadium	5.0	U		ICP_AES												
Zinc	6.0	U		ICP_AES												

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR INORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared in accordance with the document *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, January 2010.

U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

ICF International
Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300; Fax: (510) 412-2304.

MEMORANDUM

TO: Karen Jurist, Remedial Project Manager
Site Cleanup Section 3, SFD-7-3

THROUGH: Joe Eidelberg, Chemist
Quality Assurance (QA) Program, MTS-3

Joseph Eidelberg
Digitally Signed

FROM: Kathy O'Brien, Data Review Task Manager
Region 9 Environmental Services Assistance Team (ESAT)

ESAT Contract No.: EP-W-13-029
Technical Direction Form No.: 10106032 (Revised)

DATE: July 16, 2014

SUBJECT: Review of Analytical Data, Tier 3

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Southern Avenue Industrial Area
Site Account No.:	09 WS QB 00
CERCLIS ID No.:	CAN000905902
Case No.:	44248
SDG No.:	Y9E95
Laboratory:	KAP Technologies, Inc. (KAP)
Analysis:	Semivolatiles
Samples:	20 Soil Samples
Collection Date:	April 16, 2014
Reviewer:	Santiago Lee, ESAT

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Raymond Flores, CLP PO USEPA Region 6
Steve Remaley, CLP PO USEPA Region 9
Richard Bauer, EPA COR for ESAT Region 9

CLP PO: [X] FYI [ ] Action

SAMPLING ISSUES: [ ] Yes [X] No

Data Validation Report - **Tier 2**

Case No.: 44248
SDG No.: Y9E95
Site: Southern Avenue Industrial Area
Laboratory: KAP Technologies, Inc. (KAP)
Reviewer: Santiago Lee, ESAT
Date: July 16, 2014

I. SDG SUMMARY

For Sample Information and Laboratory QC, refer to EXES National Functional Guideline Report #06, *Analytical Sample Listing*.

Field QC

Field Blanks (FB):	Not Provided
Equipment Blanks (EB):	Not Provided
Background Samples (BG):	Not Provided
Field Duplicates (D1):	Y9E94 (in SDG Y9EJ1) and Y9E95
Field Duplicates (D2):	Y9ED8 and Y9ED9
Field Duplicates (D3):	Y9EE2 and Y9EE3
Field Duplicates (D4):	Y9EG0 and Y9EG1

Tables

1A:	Analytical Results with Qualifications
1B:	Data Qualifier Definitions for Organic Data Review

CLP PO Action

None.

Sampling Issues

None.

Additional Comments

The recovery for deuterated monitoring compound (DMC) 4-chloroaniline-d4 in sample Y9E97 (198%) exceeds the QC limit of 1-145%, indicating high bias in detected results; sample results are not qualified because the associated target analytes are nondetects.

The following compounds were incorrectly reported as nondetects (i.e., false negatives):

- Phenanthrene, di-n-butylphthalate, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, and indeno(1,2,3-cd)pyrene for sample Y9EC6;
- Di-n-butylphthalate, bis(2-ethylhexyl)phthalate, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene for sample Y9EC8; and
- Diethylphthalate, di-n-butylphthalate, fluoranthene, pyrene, benzo(a)anthracene, chrysene, and bis(2-ethylhexyl)phthalate for sample Y9EF9.

The laboratory submitted revised data (Form Is, quantitation reports, and chromatograms) and mass spectra upon request, on 07/07/14 (see Table 1A for concentrations).

The preparation log for solution 453.52.01 was missing from the data package. The laboratory submitted the missing preparation log upon request, on 07/07/14.

Aside from a laboratory artifact (retention time of 10.1 minutes), tentatively identified compounds (TICs) were found in samples Y9E95 through Y9E98, Y9EC6, Y9EC7, Y9EC9 through Y9ED1, Y8ED8, Y9ED9, Y9EE2 through Y9EE4, Y9EF9, and Y9EG1 (see attached Form 1Ks).

Manual integration was performed on calibrations and samples. Manual integrations were reviewed and found to be in compliance with CLP Statement of Work requirements.

All method requirements specified in the EPA Contract Laboratory Program (CLP) Organic Statement of Work (SOW), except as noted, have been met.

This report was prepared in accordance with the following documents:

- *USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration*, SOM01.1, May 2005;
- *Modifications Updating SOM01.1 to SOM01.2*, Amended April 11, 2007; and
- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, June 2008.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration*, SOM01.1, May 2005.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Holding Time/Preservation	Yes	
2	GC/MS Tune/GC Performance	Yes	
3	Initial Calibration	Yes	
4	Continuing Calibration Verification (CCV)	No	B
5	Laboratory Blanks	Yes	
6	Field Blanks	N/A	
7	Deuterated Monitoring Compounds (DMCs)	Yes	
8	Matrix Spike/Matrix Spike Duplicates (MS/MSDs)	No	C
9	GPC Performance Check	N/A	
10	Internal Standards	Yes	
11	Compound Identification	Yes	
12	Compound Quantitation and Reported CRQLs	Yes	A
13	System Performance	Yes	
14	Field Duplicate Sample Analysis	Yes	

N/A = Not Applicable

III. VALIDITY AND COMMENTS

A. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J" in Table 1A. Results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

B. The result for the following analyte is qualified as estimated due to a large percent difference (%D) in the associated CCV and is flagged "UJ" in Table 1A.

- Pentachlorophenol in method blank SBLK01.

A %D of -31.2% was reported for pentachlorophenol in the 04/29/14 17:04 CCV, which exceeds the $\pm$25.0% validation criterion for opening CCVs.

C. The MS recovery for pentachlorophenol (114%) in QC sample Y9E98MS exceeds the QC limit of 17-109. No adverse effect on data quality is expected since pentachlorophenol was not detected in the samples.

Lab KAP (KAP Technologies, Inc.) **SDG** Y9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9E95 D1 SAIA-SB19-6 Field_Sample SOIL/LOW 1.0 2.7 ug/kg			Y9E96 SAIA-SB19-15 Field_Sample SOIL/LOW 1.0 17 ug/kg			Y9E97 SAIA-SB19-25 Field_Sample SOIL/LOW 1.0 17 ug/kg			Y9E98 SAIA-SB19-35 Field_Sample SOIL/LOW 1.0 16 ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Benzaldehyde	170	U		200	U		200	U		200	U	
Phenol	170	U		200	U		200	U		200	U	
Bis (2-Chloroethyl) ether	170	U		200	U		200	U		200	U	
2-Chlorophenol	170	U		200	U		200	U		200	U	
2-Methylphenol	170	U		200	U		200	U		200	U	
2,2-Oxybis (1-Chloropropane)	170	U		200	U		200	U		200	U	
Acetophenone	170	U		200	U		200	U		200	U	
4-Methylphenol	170	U		200	U		200	U		200	U	
N-Nitroso-di-n-propylamine	170	U		200	U		200	U		200	U	
Hexachloroethane	170	U		200	U		200	U		200	U	
Nitrobenzene	170	U		200	U		200	U		200	U	
Isophorone	170	U		200	U		200	U		200	U	
2-Nitrophenol	170	U		200	U		200	U		200	U	
2,4-Dimethylphenol	170	U		200	U		200	U		200	U	
Bis (2-Chloroethoxy) methane	170	U		200	U		200	U		200	U	
2,4-Dichlorophenol	170	U		200	U		200	U		200	U	
Naphthalene	170	U		200	U		200	U		200	U	
4-Chloroaniline	170	U		200	U		200	U		200	U	
Hexachlorobutadiene	170	U		200	U		200	U		200	U	
Caprolactam	170	U		200	U		200	U		200	U	
4-Chloro-3-methylphenol	170	U		200	U		200	U		200	U	
2-Methylnaphthalene	170	U		200	U		200	U		200	U	
Hexachlorocyclopentadiene	170	U		200	U		200	U		200	U	
2,4,6-Trichlorophenol	170	U		200	U		200	U		200	U	
2,4,5-Trichlorophenol	170	U		200	U		200	U		200	U	
1,1'-Biphenyl	170	U		200	U		200	U		200	U	
2-Chloronaphthalene	170	U		200	U		200	U		200	U	
2-Nitroaniline	340	U		400	U		390	U		390	U	
Dimethylphthalate	170	U		200	U		200	U		200	U	
2,6-Dinitrotoluene	170	U		200	U		200	U		200	U	
Acenaphthylene	170	U		200	U		200	U		200	U	
3-Nitroaniline	340	U		400	U		390	U		390	U	
Acenaphthene	170	U		200	U		200	U		200	U	

Lab KAP (KAP Technologies, Inc.) **SDG** Y9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample	Y9E95 D1			Y9E96			Y9E97			Y9E98		
Location	SAIA-SB19-6			SAIA-SB19-15			SAIA-SB19-25			SAIA-SB19-35		
Type	Field_Sample			Field_Sample			Field_Sample			Field_Sample		
Matrix/Level	SOIL/LOW			SOIL/LOW			SOIL/LOW			SOIL/LOW		
Dilution Factor	1.0			1.0			1.0			1.0		
% Moisture	2.7			17			17			16		
Units	ug/kg			ug/kg			ug/kg			ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
2,4-Dinitrophenol	340	U		400	U		390	U		390	U	
4-Nitrophenol	340	U		400	U		390	U		390	U	
Dibenzofuran	170	U		200	U		200	U		200	U	
2,4-Dinitrotoluene	170	U		200	U		200	U		200	U	
Diethylphthalate	170	U		200	U		200	U		200	U	
Fluorene	170	U		98	J	A	220			200	U	
4-Chlorophenyl-phenylether	170	U		200	U		200	U		200	U	
4-Nitroaniline	340	U		400	U		390	U		390	U	
4,6-Dinitro-2-methylphenol	340	U		400	U		390	U		390	U	
N-Nitrosodiphenylamine	170	U		200	U		200	U		200	U	
1,2,4,5-Tetrachlorobenzene	170	U		200	U		200	U		200	U	
4-Bromophenyl-phenylether	170	U		200	U		200	U		200	U	
Hexachlorobenzene	170	U		200	U		200	U		200	U	
Atrazine	170	U		200	U		200	U		200	U	
Pentachlorophenol	340	U		400	U		390	U		390	U	C
Phenanthrene	170	U		200	U		200	U		200	U	
Anthracene	170	U		200	U		200	U		200	U	
Carbazole	170	U		200	U		200	U		200	U	
Di-n-butylphthalate	85	J	A	200	U		200	U		200	U	
Fluoranthene	170	U		200	U		200	U		200	U	
Pyrene	170	U		200	U		200	U		200	U	
Butylbenzylphthalate	170	U		200	U		200	U		200	U	
3,3-Dichlorobenzidine	170	U		200	U		200	U		200	U	
Benzo (a) anthracene	170	U		200	U		200	U		200	U	
Chrysene	170	U		200	U		200	U		200	U	
Bis (2-Ethylhexyl) phthalate	170	U		200	U		200	U		200	U	
Di-n-octylphthalate	170	U		200	U		200	U		200	U	
Benzo (b) fluoranthene	170	U		200	U		200	U		200	U	
Benzo (k) fluoranthene	170	U		200	U		200	U		200	U	
Benzo (a) pyrene	170	U		200	U		200	U		200	U	
Indeno (1,2,3-cd) pyrene	170	U		200	U		200	U		200	U	
Dibenzo (a,h) anthracene	170	U		200	U		200	U		200	U	
Benzo (g,h,i) perylene	170	U		200	U		200	U		200	U	
2,3,4,6-Tetrachlorophenol	170	U		200	U		200	U		200	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample.

Lab KAP (KAP Technologies, Inc.) **SDG** Y9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9EC6 SAIA-SB24-0.5 Field_Sample SOIL/LOW 1.0 5.4 ug/kg			Y9EC7 SAIA-SB24-2 Field_Sample SOIL/LOW 1.0 7.8 ug/kg			Y9EC8 SAIA-SB24-5 Field_Sample SOIL/LOW 1.0 14 ug/kg			Y9EC9 SAIA-SB24-15 Field_Sample SOIL/LOW 1.0 21 ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Benzaldehyde	180	U		180	U		200	U		210	U	
Phenol	180	U		180	U		200	U		210	U	
Bis (2-Chloroethyl) ether	180	U		180	U		200	U		210	U	
2-Chlorophenol	180	U		180	U		200	U		210	U	
2-Methylphenol	180	U		180	U		200	U		210	U	
2,2-Oxybis (1-Chloropropane)	180	U		180	U		200	U		210	U	
Acetophenone	180	U		180	U		200	U		210	U	
4-Methylphenol	180	U		180	U		200	U		210	U	
N-Nitroso-di-n-propylamine	180	U		180	U		200	U		210	U	
Hexachloroethane	180	U		180	U		200	U		210	U	
Nitrobenzene	180	U		180	U		200	U		210	U	
Isophorone	180	U		180	U		200	U		210	U	
2-Nitrophenol	180	U		180	U		200	U		210	U	
2,4-Dimethylphenol	180	U		180	U		200	U		210	U	
Bis (2-Chloroethoxy) methane	180	U		180	U		200	U		210	U	
2,4-Dichlorophenol	180	U		180	U		200	U		210	U	
Naphthalene	180	U		180	U		200	U		210	U	
4-Chloroaniline	180	U		180	U		200	U		210	U	
Hexachlorobutadiene	180	U		180	U		200	U		210	U	
Caprolactam	180	U		180	U		200	U		210	U	
4-Chloro-3-methylphenol	180	U		180	U		200	U		210	U	
2-Methylnaphthalene	180	U		180	U		200	U		210	U	
Hexachlorocyclopentadiene	180	U		180	U		200	U		210	U	
2,4,6-Trichlorophenol	180	U		180	U		200	U		210	U	
2,4,5-Trichlorophenol	180	U		180	U		200	U		210	U	
1,1'-Biphenyl	180	U		180	U		200	U		210	U	
2-Chloronaphthalene	180	U		180	U		200	U		210	U	
2-Nitroaniline	350	U		350	U		380	U		420	U	
Dimethylphthalate	180	U		180	U		200	U		210	U	
2,6-Dinitrotoluene	180	U		180	U		200	U		210	U	
Acenaphthylene	180	U		180	U		200	U		210	U	
3-Nitroaniline	350	U		350	U		380	U		420	U	
Acenaphthene	180	U		180	U		200	U		210	U	

Lab KAP (KAP Technologies, Inc.) **SDG** Y9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9EC6 SAIA-SB24-0.5 Field_Sample SOIL/LOW 1.0 5.4 ug/kg			Y9EC7 SAIA-SB24-2 Field_Sample SOIL/LOW 1.0 7.8 ug/kg			Y9EC8 SAIA-SB24-5 Field_Sample SOIL/LOW 1.0 14 ug/kg			Y9EC9 SAIA-SB24-15 Field_Sample SOIL/LOW 1.0 21 ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
2,4-Dinitrophenol	350	U		350	U		380	U		420	U	
4-Nitrophenol	350	U		350	U		380	U		420	U	
Dibenzofuran	180	U		180	U		200	U		210	U	
2,4-Dinitrotoluene	180	U		180	U		200	U		210	U	
Diethylphthalate	180	U		180	U		200	U		210	U	
Fluorene	180	U		180	U		200	U		210	U	
4-Chlorophenyl-phenylether	180	U		180	U		200	U		210	U	
4-Nitroaniline	350	U		350	U		380	U		420	U	
4,6-Dinitro-2-methylphenol	350	U		350	U		380	U		420	U	
N-Nitrosodiphenylamine	180	U		180	U		200	U		210	U	
1,2,4,5-Tetrachlorobenzene	180	U		180	U		200	U		210	U	
4-Bromophenyl-phenylether	180	U		180	U		200	U		210	U	
Hexachlorobenzene	180	U		180	U		200	U		210	U	
Atrazine	180	U		180	U		200	U		210	U	
Pentachlorophenol	350	U		350	U		380	U		420	U	
Phenanthrene	36	J	A	180	U		200	U		210	U	
Anthracene	180	U		180	U		200	U		210	U	
Carbazole	180	U		180	U		200	U		210	U	
Di-n-butylphthalate	32	J	A	180	U		24	J	A	210	U	
Fluoranthene	100	J	A	120	J	A	200	U		210	U	
Pyrene	120	J	A	150	J	A	200	U		210	U	
Butylbenzylphthalate	180	U		180	U		200	U		210	U	
3,3-Dichlorobenzidine	180	U		180	U		200	U		210	U	
Benzo (a) anthracene	55	J	A	180	U		200	U		210	U	
Chrysene	74	J	A	86	J	A	200	U		210	U	
Bis (2-Ethylhexyl) phthalate	180	U		180	U		22	J	A	210	U	
Di-n-octylphthalate	180	U		180	U		200	U		210	U	
Benzo (b) fluoranthene	44	J	A	180	U		19	J	A	210	U	
Benzo (k) fluoranthene	68	J	A	180	U		20	J	A	210	U	
Benzo (a) pyrene	74	J	A	87	J	A	24	J	A	210	U	
Indeno (1,2,3-cd) pyrene	59	J	A	180	U		34	J	A	210	U	
Dibenzo (a,h) anthracene	180	U		180	U		38	J	A	210	U	
Benzo (g,h,i) perylene	79	J	A	99	J	A	42	J	A	210	U	
2,3,4,6-Tetrachlorophenol	180	U		180	U		200	U		210	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample.

Lab KAP (KAP Technologies, Inc.) **SDG** Y9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9ED0 SAIA-SB24-25 Field_Sample SOIL/LOW 1.0 16 ug/kg			Y9ED1 SAIA-SB24-35 Field_Sample SOIL/LOW 1.0 14 ug/kg			Y9ED8 D2 SAIA-SB26-0.5 Field_Sample SOIL/LOW 1.0 7.3 ug/kg			Y9ED9 D2 SAIA-SB26-0.6 Field_Sample SOIL/LOW 1.0 5.1 ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Benzaldehyde	200	U		200	U		180	U		180	U	
Phenol	200	U		200	U		180	U		180	U	
Bis (2-Chloroethyl) ether	200	U		200	U		180	U		180	U	
2-Chlorophenol	200	U		200	U		180	U		180	U	
2-Methylphenol	200	U		200	U		180	U		180	U	
2,2-Oxybis (1-Chloropropane)	200	U		200	U		180	U		180	U	
Acetophenone	200	U		200	U		180	U		180	U	
4-Methylphenol	200	U		200	U		180	U		180	U	
N-Nitroso-di-n-propylamine	200	U		200	U		180	U		180	U	
Hexachloroethane	200	U		200	U		180	U		180	U	
Nitrobenzene	200	U		200	U		180	U		180	U	
Isophorone	200	U		200	U		180	U		180	U	
2-Nitrophenol	200	U		200	U		180	U		180	U	
2,4-Dimethylphenol	200	U		200	U		180	U		180	U	
Bis (2-Chloroethoxy) methane	200	U		200	U		180	U		180	U	
2,4-Dichlorophenol	200	U		200	U		180	U		180	U	
Naphthalene	200	U		200	U		180	U		180	U	
4-Chloroaniline	200	U		200	U		180	U		180	U	
Hexachlorobutadiene	200	U		200	U		180	U		180	U	
Caprolactam	200	U		200	U		180	U		180	U	
4-Chloro-3-methylphenol	200	U		200	U		180	U		180	U	
2-Methylnaphthalene	200	U		200	U		180	U		180	U	
Hexachlorocyclopentadiene	200	U		200	U		180	U		180	U	
2,4,6-Trichlorophenol	200	U		200	U		180	U		180	U	
2,4,5-Trichlorophenol	200	U		200	U		180	U		180	U	
1,1'-Biphenyl	200	U		200	U		180	U		180	U	
2-Chloronaphthalene	200	U		200	U		180	U		180	U	
2-Nitroaniline	390	U		380	U		350	U		340	U	
Dimethylphthalate	200	U		200	U		180	U		180	U	
2,6-Dinitrotoluene	200	U		200	U		180	U		180	U	
Acenaphthylene	200	U		200	U		180	U		180	U	
3-Nitroaniline	390	U		380	U		350	U		340	U	
Acenaphthene	200	U		200	U		180	U		180	U	

Lab KAP (KAP Technologies, Inc.) **SDG** Y9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9ED0 SAIA-SB24-25 Field_Sample SOIL/LOW 1.0 16 ug/kg			Y9ED1 SAIA-SB24-35 Field_Sample SOIL/LOW 1.0 14 ug/kg			Y9ED8 D2 SAIA-SB26-0.5 Field_Sample SOIL/LOW 1.0 7.3 ug/kg			Y9ED9 D2 SAIA-SB26-0.6 Field_Sample SOIL/LOW 1.0 5.1 ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
2,4-Dinitrophenol	390	U		380	U		350	U		340	U	
4-Nitrophenol	390	U		380	U		350	U		340	U	
Dibenzofuran	200	U		200	U		180	U		180	U	
2,4-Dinitrotoluene	200	U		200	U		180	U		180	U	
Diethylphthalate	200	U		200	U		180	U		180	U	
Fluorene	200	U		200	U		180	U		180	U	
4-Chlorophenyl-phenylether	200	U		200	U		180	U		180	U	
4-Nitroaniline	390	U		380	U		350	U		340	U	
4,6-Dinitro-2-methylphenol	390	U		380	U		350	U		340	U	
N-Nitrosodiphenylamine	200	U		200	U		180	U		180	U	
1,2,4,5-Tetrachlorobenzene	200	U		200	U		180	U		180	U	
4-Bromophenyl-phenylether	200	U		200	U		180	U		180	U	
Hexachlorobenzene	200	U		200	U		180	U		180	U	
Atrazine	200	U		200	U		180	U		180	U	
Pentachlorophenol	390	U		380	U		350	U		340	U	
Phenanthrene	200	U		200	U		180	U		180	U	
Anthracene	200	U		200	U		180	U		180	U	
Carbazole	200	U		200	U		180	U		180	U	
Di-n-butylphthalate	200	U		200	U		180	U		180	U	
Fluoranthene	200	U		200	U		180	U		180	U	
Pyrene	200	U		200	U		180	U		180	U	
Butylbenzylphthalate	200	U		200	U		180	U		180	U	
3,3-Dichlorobenzidine	200	U		200	U		180	U		180	U	
Benzo (a) anthracene	200	U		200	U		180	U		180	U	
Chrysene	200	U		200	U		180	U		180	U	
Bis (2-Ethylhexyl) phthalate	200	U		200	U		180	U		180	U	
Di-n-octylphthalate	200	U		200	U		180	U		180	U	
Benzo (b) fluoranthene	200	U		200	U		180	U		180	U	
Benzo (k) fluoranthene	200	U		200	U		180	U		180	U	
Benzo (a) pyrene	200	U		200	U		180	U		180	U	
Indeno (1,2,3-cd) pyrene	200	U		200	U		180	U		180	U	
Dibenzo (a,h) anthracene	200	U		200	U		180	U		180	U	
Benzo (g,h,i) perylene	200	U		200	U		180	U		180	U	
2,3,4,6-Tetrachlorophenol	200	U		200	U		180	U		180	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample.

Lab KAP (KAP Technologies, Inc.) **SDG** Y9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9EE0 SAIA-SB26-2 Field_Sample SOIL/LOW 1.0 7.7 ug/kg			Y9EE1 SAIA-SB26-5 Field_Sample SOIL/LOW 1.0 5.6 ug/kg			Y9EE2 D3 SAIA-SB26-15 Field_Sample SOIL/LOW 1.0 17 ug/kg			Y9EE3 D3 SAIA-SB26-16 Field_Sample SOIL/LOW 1.0 20 ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Benzaldehyde	180	U		180	U		200	U		210	U	
Phenol	180	U		180	U		200	U		210	U	
Bis (2-Chloroethyl) ether	180	U		180	U		200	U		210	U	
2-Chlorophenol	180	U		180	U		200	U		210	U	
2-Methylphenol	180	U		180	U		200	U		210	U	
2,2-Oxybis (1-Chloropropane)	180	U		180	U		200	U		210	U	
Acetophenone	180	U		180	U		200	U		210	U	
4-Methylphenol	180	U		180	U		200	U		210	U	
N-Nitroso-di-n-propylamine	180	U		180	U		200	U		210	U	
Hexachloroethane	180	U		180	U		200	U		210	U	
Nitrobenzene	180	U		180	U		200	U		210	U	
Isophorone	180	U		180	U		200	U		210	U	
2-Nitrophenol	180	U		180	U		200	U		210	U	
2,4-Dimethylphenol	180	U		180	U		200	U		210	U	
Bis (2-Chloroethoxy) methane	180	U		180	U		200	U		210	U	
2,4-Dichlorophenol	180	U		180	U		200	U		210	U	
Naphthalene	180	U		180	U		200	U		210	U	
4-Chloroaniline	180	U		180	U		200	U		210	U	
Hexachlorobutadiene	180	U		180	U		200	U		210	U	
Caprolactam	180	U		180	U		200	U		210	U	
4-Chloro-3-methylphenol	180	U		180	U		200	U		210	U	
2-Methylnaphthalene	180	U		180	U		200	U		210	U	
Hexachlorocyclopentadiene	180	U		180	U		200	U		210	U	
2,4,6-Trichlorophenol	180	U		180	U		200	U		210	U	
2,4,5-Trichlorophenol	180	U		180	U		200	U		210	U	
1,1'-Biphenyl	180	U		180	U		200	U		210	U	
2-Chloronaphthalene	180	U		180	U		200	U		210	U	
2-Nitroaniline	350	U		350	U		390	U		410	U	
Dimethylphthalate	180	U		180	U		200	U		210	U	
2,6-Dinitrotoluene	180	U		180	U		200	U		210	U	
Acenaphthylene	180	U		180	U		200	U		210	U	
3-Nitroaniline	350	U		350	U		390	U		410	U	
Acenaphthene	180	U		180	U		200	U		210	U	

Lab KAP (KAP Technologies, Inc.) **SDG** Y9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9EE0 SAIA-SB26-2 Field_Sample SOIL/LOW 1.0 7.7 ug/kg			Y9EE1 SAIA-SB26-5 Field_Sample SOIL/LOW 1.0 5.6 ug/kg			Y9EE2 D3 SAIA-SB26-15 Field_Sample SOIL/LOW 1.0 17 ug/kg			Y9EE3 D3 SAIA-SB26-16 Field_Sample SOIL/LOW 1.0 20 ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
2,4-Dinitrophenol	350	U		350	U		390	U		410	U	
4-Nitrophenol	350	U		350	U		390	U		410	U	
Dibenzofuran	180	U		180	U		200	U		210	U	
2,4-Dinitrotoluene	180	U		180	U		200	U		210	U	
Diethylphthalate	180	U		180	U		200	U		210	U	
Fluorene	180	U		180	U		200	U		210	U	
4-Chlorophenyl-phenylether	180	U		180	U		200	U		210	U	
4-Nitroaniline	350	U		350	U		390	U		410	U	
4,6-Dinitro-2-methylphenol	350	U		350	U		390	U		410	U	
N-Nitrosodiphenylamine	180	U		180	U		200	U		210	U	
1,2,4,5-Tetrachlorobenzene	180	U		180	U		200	U		210	U	
4-Bromophenyl-phenylether	180	U		180	U		200	U		210	U	
Hexachlorobenzene	180	U		180	U		200	U		210	U	
Atrazine	180	U		180	U		200	U		210	U	
Pentachlorophenol	350	U		350	U		390	U		410	U	
Phenanthrene	180	U		180	U		200	U		210	U	
Anthracene	180	U		180	U		200	U		210	U	
Carbazole	180	U		180	U		200	U		210	U	
Di-n-butylphthalate	180	U		180	U		200	U		210	U	
Fluoranthene	180	U		180	U		200	U		210	U	
Pyrene	180	U		180	U		200	U		210	U	
Butylbenzylphthalate	180	U		180	U		200	U		210	U	
3,3-Dichlorobenzidine	180	U		180	U		200	U		210	U	
Benzo (a) anthracene	180	U		180	U		200	U		210	U	
Chrysene	180	U		180	U		200	U		210	U	
Bis (2-Ethylhexyl) phthalate	180	U		180	U		200	U		210	U	
Di-n-octylphthalate	180	U		180	U		200	U		210	U	
Benzo (b) fluoranthene	180	U		180	U		200	U		210	U	
Benzo (k) fluoranthene	180	U		180	U		200	U		210	U	
Benzo (a) pyrene	180	U		180	U		200	U		210	U	
Indeno (1,2,3-cd) pyrene	180	U		180	U		200	U		210	U	
Dibenzo (a,h) anthracene	180	U		180	U		200	U		210	U	
Benzo (g,h,i) perylene	180	U		180	U		200	U		210	U	
2,3,4,6-Tetrachlorophenol	180	U		180	U		200	U		210	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample.

Lab KAP (KAP Technologies, Inc.) **SDG** Y9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample	Y9EE4			Y9EF9			Y9EG0 D4			Y9EG1 D4		
Location	SAIA-SB26-25			SAIA-SB29-2			SAIA-SB29-5			SAIA-SB29-6		
Type	Field_Sample			Field_Sample			Field_Sample			Field_Sample		
Matrix/Level	SOIL/LOW			SOIL/LOW			SOIL/LOW			SOIL/LOW		
Dilution Factor	1.0			1.0			1.0			1.0		
% Moisture	18			8.8			17			19		
Units	ug/kg			ug/kg			ug/kg			ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Benzaldehyde	210	U		180	U		200	U		210	U	
Phenol	210	U		180	U		200	U		210	U	
Bis (2-Chloroethyl) ether	210	U		180	U		200	U		210	U	
2-Chlorophenol	210	U		180	U		200	U		210	U	
2-Methylphenol	210	U		180	U		200	U		210	U	
2,2-Oxybis (1-Chloropropane)	210	U		180	U		200	U		210	U	
Acetophenone	210	U		180	U		200	U		210	U	
4-Methylphenol	210	U		180	U		200	U		210	U	
N-Nitroso-di-n-propylamine	210	U		180	U		200	U		210	U	
Hexachloroethane	210	U		180	U		200	U		210	U	
Nitrobenzene	210	U		180	U		200	U		210	U	
Isophorone	210	U		180	U		200	U		210	U	
2-Nitrophenol	210	U		180	U		200	U		210	U	
2,4-Dimethylphenol	210	U		180	U		200	U		210	U	
Bis (2-Chloroethoxy) methane	210	U		180	U		200	U		210	U	
2,4-Dichlorophenol	210	U		180	U		200	U		210	U	
Naphthalene	210	U		180	U		200	U		210	U	
4-Chloroaniline	210	U		180	U		200	U		210	U	
Hexachlorobutadiene	210	U		180	U		200	U		210	U	
Caprolactam	210	U		180	U		200	U		210	U	
4-Chloro-3-methylphenol	210	U		180	U		200	U		210	U	
2-Methylnaphthalene	210	U		180	U		200	U		210	U	
Hexachlorocyclopentadiene	210	U		180	U		200	U		210	U	
2,4,6-Trichlorophenol	210	U		180	U		200	U		210	U	
2,4,5-Trichlorophenol	210	U		180	U		200	U		210	U	
1,1'-Biphenyl	210	U		180	U		200	U		210	U	
2-Chloronaphthalene	210	U		180	U		200	U		210	U	
2-Nitroaniline	400	U		360	U		400	U		400	U	
Dimethylphthalate	210	U		180	U		200	U		210	U	
2,6-Dinitrotoluene	210	U		180	U		200	U		210	U	
Acenaphthylene	210	U		180	U		200	U		210	U	
3-Nitroaniline	400	U		360	U		400	U		400	U	
Acenaphthene	210	U		180	U		200	U		210	U	

Lab KAP (KAP Technologies, Inc.) **SDG** Y9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9EE4 SAIA-SB26-25 Field_Sample SOIL/LOW 1.0 18 ug/kg			Y9EF9 SAIA-SB29-2 Field_Sample SOIL/LOW 1.0 8.8 ug/kg			Y9EG0 D4 SAIA-SB29-5 Field_Sample SOIL/LOW 1.0 17 ug/kg			Y9EG1 D4 SAIA-SB29-6 Field_Sample SOIL/LOW 1.0 19 ug/kg		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
2,4-Dinitrophenol	400	U		360	U		400	U		400	U	
4-Nitrophenol	400	U		360	U		400	U		400	U	
Dibenzofuran	210	U		180	U		200	U		210	U	
2,4-Dinitrotoluene	210	U		180	U		200	U		210	U	
Diethylphthalate	210	U		17	J	A	200	U		210	U	
Fluorene	210	U		180	U		200	U		210	U	
4-Chlorophenyl-phenylether	210	U		180	U		200	U		210	U	
4-Nitroaniline	400	U		360	U		400	U		400	U	
4,6-Dinitro-2-methylphenol	400	U		360	U		400	U		400	U	
N-Nitrosodiphenylamine	210	U		180	U		200	U		210	U	
1,2,4,5-Tetrachlorobenzene	210	U		180	U		200	U		210	U	
4-Bromophenyl-phenylether	210	U		180	U		200	U		210	U	
Hexachlorobenzene	210	U		180	U		200	U		210	U	
Atrazine	210	U		180	U		200	U		210	U	
Pentachlorophenol	400	U		360	U		400	U		400	U	
Phenanthrene	210	U		180	U		200	U		210	U	
Anthracene	210	U		180	U		200	U		210	U	
Carbazole	210	U		180	U		200	U		210	U	
Di-n-butylphthalate	210	U		30	J	A	200	U		210	U	
Fluoranthene	210	U		12	J	A	200	U		210	U	
Pyrene	210	U		19	J	A	200	U		210	U	
Butylbenzylphthalate	210	U		180	U		200	U		210	U	
3,3-Dichlorobenzidine	210	U		180	U		200	U		210	U	
Benzo (a) anthracene	210	U		12	J	A	200	U		210	U	
Chrysene	210	U		16	J	A	200	U		210	U	
Bis (2-Ethylhexyl) phthalate	210	U		49	J	A	200	U		210	U	
Di-n-octylphthalate	210	U		180	U		200	U		210	U	
Benzo (b) fluoranthene	210	U		180	U		200	U		210	U	
Benzo (k) fluoranthene	210	U		180	U		200	U		210	U	
Benzo (a) pyrene	210	U		180	U		200	U		210	U	
Indeno (1,2,3-cd) pyrene	210	U		180	U		200	U		210	U	
Dibenzo (a,h) anthracene	210	U		180	U		200	U		210	U	
Benzo (g,h,i) perylene	210	U		180	U		200	U		210	U	
2,3,4,6-Tetrachlorophenol	210	U		180	U		200	U		210	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample.

Lab KAP (KAP Technologies, Inc.) **SDG** Y9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample	**SBLK01**											
Location	**N/A**											
Type	**Method_Blank**											
Matrix/Level	**SOIL/LOW**											
Dilution Factor	**1.0**											
% Moisture	**0.00**											
Units	**ug/kg**											
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Benzaldehyde	170	U										
Phenol	170	U										
Bis (2-Chloroethyl) ether	170	U										
2-Chlorophenol	170	U										
2-Methylphenol	170	U										
2,2-Oxybis (1-Chloropropane)	170	U										
Acetophenone	170	U										
4-Methylphenol	170	U										
N-Nitroso-di-n-propylamine	170	U										
Hexachloroethane	170	U										
Nitrobenzene	170	U										
Isophorone	170	U										
2-Nitrophenol	170	U										
2,4-Dimethylphenol	170	U										
Bis (2-Chloroethoxy) methane	170	U										
2,4-Dichlorophenol	170	U										
Naphthalene	170	U										
4-Chloroaniline	170	U										
Hexachlorobutadiene	170	U										
Caprolactam	170	U										
4-Chloro-3-methylphenol	170	U										
2-Methylnaphthalene	170	U										
Hexachlorocyclopentadiene	170	U										
2,4,6-Trichlorophenol	170	U										
2,4,5-Trichlorophenol	170	U										
1,1'-Biphenyl	170	U										
2-Chloronaphthalene	170	U										
2-Nitroaniline	330	U										
Dimethylphthalate	170	U										
2,6-Dinitrotoluene	170	U										
Acenaphthylene	170	U										
3-Nitroaniline	330	U										
Acenaphthene	170	U										

Lab KAP (KAP Technologies, Inc.) **SDG** Y9E95 **Case** 44248 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample	**SBLK01**											
Location	**N/A**											
Type	**Method_Blank**											
Matrix/Level	**SOIL/LOW**											
Dilution Factor	**1.0**											
% Moisture	**0.00**											
Units	**ug/kg**											
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
2,4-Dinitrophenol	330	U										
4-Nitrophenol	330	U										
Dibenzofuran	170	U										
2,4-Dinitrotoluene	170	U										
Diethylphthalate	170	U										
Fluorene	170	U										
4-Chlorophenyl-phenylether	170	U										
4-Nitroaniline	330	U										
4,6-Dinitro-2-methylphenol	330	U										
N-Nitrosodiphenylamine	170	U										
1,2,4,5-Tetrachlorobenzene	170	U										
4-Bromophenyl-phenylether	170	U										
Hexachlorobenzene	170	U										
Atrazine	170	U										
Pentachlorophenol	330	UJ	B									
Phenanthrene	170	U										
Anthracene	170	U										
Carbazole	170	U										
Di-n-butylphthalate	170	U										
Fluoranthene	170	U										
Pyrene	170	U										
Butylbenzylphthalate	170	U										
3,3-Dichlorobenzidine	170	U										
Benzo (a) anthracene	170	U										
Chrysene	170	U										
Bis (2-Ethylhexyl) phthalate	170	U										
Di-n-octylphthalate	170	U										
Benzo (b) fluoranthene	170	U										
Benzo (k) fluoranthene	170	U										
Benzo (a) pyrene	170	U										
Indeno (1,2,3-cd) pyrene	170	U										
Dibenzo (a,h) anthracene	170	U										
Benzo (g,h,i) perylene	170	U										
2,3,4,6-Tetrachlorophenol	170	U										

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, BG - Background Sample.

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," June 2008.

U The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y9E95 (21)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 44248 Mod. Ref No.: _____ SDG No.: Y9E95

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-6425.01

Sample wt/vol: 30.30 (g/mL) G Lab File ID: D13397

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 2.7 Decanted: (Y/N) N Date Received: 04/17/2014

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/23/2014

Injection Volume: 1.0 (uL) Date Analyzed: 04/30/2014

GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-09	7.32	240	J
02		Unknown-01	10.08	560	J
03		Unknown-02	10.37	720	J
04		Unknown-03	10.43	630	J
05		Unknown-04	10.63	590	J
06	~~000984-06-1~~ Unknown	~~Cholestan-3-ol, 4-methyl-, (3~~	10.76	1100	~~NJ~~
07		Unknown-05	10.88	1300	J
08		Unknown-06	10.96	1400	J
09		Unknown-07	12.02	740	J
10		Unknown-08	13.78	690	J
11					
12		SL, 7/8/14.			
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

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1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: Y9E96

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 44248 Mod. Ref No.: _____ SDG No.: Y9E95

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-6425.02

Sample wt/vol: 30.10 (g/mL) G Lab File ID: D13270

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 04/17/2014

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/23/2014

Injection Volume: 1.0 (uL) Date Analyzed: 04/25/2014

GPC Cleanup: (Y/N) Y pH: 8.8 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	5.15	1100	J
02		Unknown-02	5.21	840	J
03		Unknown-03	5.33	1300	J
04		Unknown-04	5.37	810	J
05		~~Unknown-11~~ $C_{13}H_{28}$ Alkane	6.43	1100	NJ
06		Unknown-05	6.88	1700	J
07		Unknown-06 & $C_{12}H_{16}$ Aromatic HC	7.13	910	NJ
08		Unknown-07	7.29	1300	J
09		Unknown-08	7.59	1600	J
10		~~Unknown-15~~ $C_{16}H_{34}$ Alkane	8.10	1800	NJ
11		Unknown-22	9.09	1800	J
12		Unknown-09	10.07	720	J
13		Unknown-10	10.22	900	J
14		Unknown-12	10.49	720	J
15		Unknown-13	10.56	1600	J
16		Unknown-14	10.68	840	J
17		Unknown-16	10.93	1300	J
18	~~001560-88-9~~	~~Octadecane, 2-methyl-~~ $C_{17}H_{34}$ HC	11.01	1500	NJ
19		Unknown-17	11.10	1000	J
20		Unknown-18	11.14	800	J
21		Unknown-19	11.25	790	J
22		Unknown-20	11.60	860	J
23	~~000641-85-0~~ Unknown	~~Allopregnane~~	11.71	1200	~~NJ~~
24	~~087953-47-7~~ ↓	~~15-Isobutyl (13.alpha.H) isoc~~	11.97	1000	~~NJ~~
25		Unknown-21	12.03	1300	J
26		Unknown-23	12.25	1100	J
27		Unknown-24	12.38	710	J
28		Unknown-25	12.42	770	J
29					
30					
	E966796[2]	Total Alkanes	N/A	2600	J

[2] EPA-designated Registry Number.

HC = Hydrocarbon,

SL, 7/8/14.

SOM01.2 (6/2007)

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1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9E97

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 44248 Mod. Ref No.: _____ SDG No.: Y9E95

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-6425.03

Sample wt/vol: 30.40 (g/mL) G Lab File ID: D13271

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 04/17/2014

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/23/2014

Injection Volume: 1.0 (uL) Date Analyzed: 04/25/2014

GPC Cleanup: (Y/N) Y pH: 8.7 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	001678-93-9 ($C_{10}H_{20}$)	Cyclohexane, butyl-	4.88	950	NJ
02		Unknown-01	4.91	1100	J
03	071186-27-1 ($C_{11}H_{22}$)	1-Ethyl-2,2,6-trimethylcycloh	5.02	1200	NJ
04	000091-17-8	Naphthalene, decahydro-	5.15	2400	NJ
05		Unknown-02	5.33	2600	J
06		Unknown-03	5.37	1800	J
07		Unknown-07	5.48	6900	J
08		~~Unknown-08~~ $C_{12}H_{26}$ Alkane	6.33	790	~~NJ~~
09		~~Unknown-09~~ $C_{13}H_{28}$ ↓	6.45	620	~~NJ~~
10		Unknown-04	6.90	1500	J
11	003891-98-3 ($C_{15}H_{32}$)	Dodecane, 2,6,10-trimethyl-	7.61	1500	NJ
12		Unknown-05	7.75	1200	J
13		~~Unknown-12~~ $C_{16}H_{34}$ Alkane	8.13	460	~~NJ~~
14		Unknown-19	9.11	1800	J
15	~~054105-67-8~~ Alkane	~~Heptadecane, 2,6-dimethyl-~~	9.39	2300	~~NJ~~
16		Unknown-06	9.60	1200	J
17	~~000638-36-8~~ Alkane	~~Hexadecane, 2,6,10,14-tetrame~~	9.86	1500	~~NJ~~
18	~~054833-23-7~~ ↓	~~Eicosane, 10-methyl-~~	10.22	1700	~~NJ~~
19		Unknown-10	10.59	1600	J
20		Unknown-11	10.65	1100	J
21		Unknown-13	10.84	1900	J
22		Unknown-14	10.96	2500	J
23		Unknown-15	11.04	2000	J
24		Unknown-16	11.19	1800	J
25		Unknown-17	11.25	990	J
26	~~007098-22-8~~ Alkane	~~Tetratetracontane~~	11.85	940	~~NJ~~
27		Unknown-18	12.18	1100	J
28		Unknown-20	13.91	1200	J
29	~~000481-21-0~~	~~Cholestane~~ Unknown	14.03	1400	~~NJ~~
30		Unknown-21	14.84	1200	J
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SL 7/8/14.

SOM01.2 (6/2007)

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1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y9E98

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 44248 Mod. Ref No.: _____ SDG No.: Y9E95

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-6425.04

Sample wt/vol: 30.40 (g/mL) G Lab File ID: D13272

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 04/17/2014

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/23/2014

Injection Volume: 1.0 (uL) Date Analyzed: 04/25/2014

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.42	530	J
02		Unknown-02	10.90	810	J
03		Unknown-03	11.00	870	J
04		Unknown-04	11.14	850	J
05		Unknown-05	12.06	930	J
06	~~000112-84-5~~	~~13 Docosenamide, (Z)~~ Unknown	13.43	790	~~NJ~~ J
07		Unknown-06	13.72	690	J
08					
09		SL 7/8/14.			
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

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1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: Y9EC6

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 44248 Mod. Ref No.: _____ SDG No.: Y9E95

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-6425.05

Sample wt/vol: 30.20 (g/mL) G Lab File ID: D13394

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5.4 Decanted: (Y/N) N Date Received: 04/17/2014

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/23/2014

Injection Volume: 1.0 (uL) Date Analyzed: 04/30/2014

GPC Cleanup: (Y/N) Y pH: 9.2 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	7.51	230	J
02		Unknown-02	9.30	850	J
03		Unknown-03	9.52	310	J
04		Unknown-04	9.78	600	J
05	~~000084-74-2~~	~~Dibutyl phthalate~~	~~10.11~~	~~290~~	~~NJ~~
06		Unknown-05	10.22	280	J
07		Unknown-06	10.38	320	J
08		Unknown-07	10.57	230	J
09		Unknown-08	10.64	230	J
10		Unknown-09	10.75	350	J
11		Unknown-10	10.87	710	J
12		Unknown-11	11.04	420	J
13	($C_{16}H_{10}$)	Unknown-12 & Polynuclear Aromatic	11.19	410	NJ
14	($C_{18}H_{10}$)	Unknown-13 & ↓	12.34	390	NJ
15		Unknown-14	13.38	360	J
16		Unknown-15	15.49	350	J
17					
18		SC 7/8/14.			
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	470	J

[2] EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9EC7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 44248 Mod. Ref No.: _____ SDG No.: Y9E95

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-6425.06

Sample wt/vol: 30.30 (g/mL) G Lab File ID: D13273

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.8 Decanted: (Y/N) N Date Received: 04/17/2014

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/23/2014

Injection Volume: 1.0 (uL) Date Analyzed: 04/25/2014

GPC Cleanup: (Y/N) Y pH: 8.9 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		~~Unknown-01~~ $C_{20}H_{12}$ PNA	13.96	430	NJ
02	~~097664-18-1~~ Unknown	~~Benzene, 1-methyl-4-(1-methyl~~	15.59	460	NJ
03					
04		PNA = Polynuclear			
05		Aromatic			
06					
07		SL 6/26/14.			
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

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1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9EC9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 44248 Mod. Ref No.: _____ SDG No.: Y9E95

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-6425.08

Sample wt/vol: 30.10 (g/mL) G Lab File ID: D13302

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 21 Decanted: (Y/N) N Date Received: 04/17/2014

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/23/2014

Injection Volume: 1.0 (uL) Date Analyzed: 04/28/2014

GPC Cleanup: (Y/N) Y pH: 9.0 Dilution Factor: 1.0

CONCENTRATION UNITS:(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		~~Unknown-01 Phthalate~~	~~10.17~~	~~160~~	~~J~~
02	~~000301-02-0~~	~~9-Octadecenamide, (Z)-~~ Unknown	12.02	170	NJ
03		Unknown-02	12.70	140	J
04	~~000112-84-5~~	~~13-Docosenamide, (Z)-~~ Unknown	13.44	270	NJ
05		Unknown-03	15.03	180	J
06		Unknown-04	15.50	140	J
07		Unknown-05	15.60	220	J
08		Unknown-06	16.55	190	J
09		Unknown-07	17.88	170	J
10		Unknown-08	19.60	170	J
11					
12		SL, 7/8/14.			
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

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1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9ED0

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 44248 Mod. Ref No.: _____ SDG No.: Y9E95

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-6425.09

Sample wt/vol: 30.30 (g/mL) G Lab File ID: D13303

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 16 Decanted: (Y/N) N Date Received: 04/17/2014

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/23/2014

Injection Volume: 1.0 (uL) Date Analyzed: 04/28/2014

GPC Cleanup: (Y/N) Y pH: 9.0 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	~~000084-69-5~~	~~1,2-Benzenedicarboxylic acid,~~	~~10.17~~	~~270~~	~~NJ~~
02		~~Unknown-01~~	~~12.94~~	~~310~~	~~J~~
03	~~000301-02-0~~ Unknown	~~9-Octadecenamide, (Z)~~ Unknown	13.44	360	~~N~~J
04		~~Unknown-02~~	~~15.87~~	~~340~~	~~J~~
05					
06		SL 5/26/14			
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: Y9ED1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 44248 Mod. Ref No.: _____ SDG No.: Y9E95

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-6425.10

Sample wt/vol: 30.40 (g/mL) G Lab File ID: D13304

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 14 Decanted: (Y/N) N Date Received: 04/17/2014

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/23/2014

Injection Volume: 1.0 (uL) Date Analyzed: 04/28/2014

GPC Cleanup: (Y/N) Y pH: 9.2 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	~~000084-69-5~~	~~1,2-Benzenedicarboxylic acid,~~	~~10.17~~	~~270~~	~~NJ~~
02		~~Unknown 01~~	~~12.06~~	~~240~~	~~J~~
03		~~Unknown 02~~	~~12.70~~	~~240~~	~~J~~
04	~~000112-84-5~~ Unknown	~~13-Docosenamide, (Z)-~~	13.44	290	~~NJ~~
05	~~000111-02-4~~ ↓	~~2,6,10,14,18,22-Tetracosahexa~~	13.59	280	~~NJ~~
06					
07		SL 4/28/14.			
08					
09					
10					
11					
12					
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14					
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25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

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1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y9ED8 (JJ)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 44248 Mod. Ref No.: _____ SDG No.: Y9E95

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-6425.11

Sample wt/vol: 30.20 (g/mL) G Lab File ID: D13479

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.3 Decanted: (Y/N) N Date Received: 04/17/2014

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/23/2014

Injection Volume: 1.0 (uL) Date Analyzed: 05/07/2014

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	13.56	490	J
02		Unknown-02	14.17	520	J
03		Unknown-03	14.50	510	J
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
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18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9ED9 (D2)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 44248 Mod. Ref No.: _____ SDG No.: Y9E95

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-6425.12

Sample wt/vol: 30.30 (g/mL) G Lab File ID: D13460

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 5.1 Decanted: (Y/N) N Date Received: 04/17/2014

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/23/2014

Injection Volume: 1.0 (uL) Date Analyzed: 05/05/2014

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	12.27	550	J
02	~~038411-25-5~~ Unknown	~~1,1'-Biphenyl, 2,2',3,3',4,5,~~	12.44	200	~~NJ~~
03		Unknown-02	12.53	290	J
04		Unknown-03	13.17	420	J
05		Unknown-04	13.49	210	J
06		Unknown-05	13.59	280	J
07		Unknown-06	13.63	490	J
08		Unknown-07	13.76	350	J
09		Unknown-08	13.82	310	J
10		Unknown-09	13.86	1300	J
11		Unknown-10	14.03	71	J
12		Unknown-11	14.06	120	J
13		Unknown-12	14.08	150	J
14		Unknown-13	14.13	270	J
15		Unknown-14	14.21	180	J
16		Unknown-15	14.26	360	J
17		Unknown-16	14.35	410	J
18		Unknown-18	14.45	82	J
19		Unknown-19	14.50	250	J
20		Unknown-20	14.60	470	J
21		Unknown-21	14.66	81	J
22		Unknown-22	14.68	84	J
23		Unknown-23	14.75	300	J
24		Unknown-24	14.87	72	J
25		Unknown-25	14.92	230	J
26		Unknown-26	14.97	110	J
27		Unknown-27	15.01	85	J
28		Unknown-28	15.03	110	J
29		Unknown-29	15.12	130	J
30		Unknown-30	15.19	220	J
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SL 7/8/14.

SOM01.2 (6/2007)

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1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y9EE2 (D3)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 44248 Mod. Ref No.: _____ SDG No.: Y9E95

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-6425.15

Sample wt/vol: 30.40 (g/mL) G Lab File ID: D13306

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17 Decanted: (Y/N) N Date Received: 04/17/2014

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/23/2014

Injection Volume: 1.0 (uL) Date Analyzed: 04/28/2014

GPC Cleanup: (Y/N) Y pH: 9.0 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.87	130	J
02		Unknown-02	7.98	180	J
03	~~000084-69-5~~ Phthalate	~~1,2-Benzenedicarboxylic acid,~~	~~10.17~~	~~200~~	~~NJ~~
04	~~000301-02-0~~ Unknown	~~9-Octadecenamide, (Z)-~~	12.02	210	NJ
05		Unknown-03	12.70	170	J
06		Unknown-04	12.95	160	J
07		Unknown-05	13.20	130	J
08		Unknown-06	13.29	290	J
09		Unknown-07	13.44	350	J
10		Unknown-08	13.50	230	J
11		Unknown-09	13.59	130	J
12		Unknown-10	13.81	130	J
13		Unknown-11	14.12	180	J
14		Unknown-12	15.03	160	J
15		Unknown-13	15.60	170	J
16					
17		SL 7/8/14			
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	310	J

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

1127

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y9EE3 (53)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 44248 Mod. Ref No.: _____ SDG No.: Y9E95

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-6425.16

Sample wt/vol: 30.30 (g/mL) G Lab File ID: D13307

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 20 Decanted: (Y/N) N Date Received: 04/17/2014

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/23/2014

Injection Volume: 1.0 (uL) Date Analyzed: 04/28/2014

GPC Cleanup: (Y/N) Y pH: 8.8 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	~~000084-69-5~~ Phthalate	~~1,2-Benzenedicarboxylic acid,~~	~~10.17~~	~~230~~	~~NJ~~
02		~~Unknown-01~~	~~12.70~~	~~160~~	~~J~~
03		~~Unknown-02~~	~~13.29~~	~~170~~	~~J~~
04		Unknown-03	13.44	240	J
05					
06		SL 6/26/14			
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	180	J

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

1166

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y9EE4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 44248 Mod. Ref No.: _____ SDG No.: Y9E95

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-6425.17

Sample wt/vol: 30.20 (g/mL) G Lab File ID: D13308

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 18 Decanted: (Y/N) N Date Received: 04/17/2014

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/23/2014

Injection Volume: 1.0 (uL) Date Analyzed: 04/28/2014

GPC Cleanup: (Y/N) Y pH: 8.9 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	~~000301-02-0~~ Unknown	~~9-Octadecenamide, (Z)-~~	12.02	490	~~X~~J
02		Unknown-01	13.44	330	J
03		~~Unknown-02~~	~~16.55~~	~~240~~	~~J~~
04		~~Unknown-03~~	~~17.87~~	~~220~~	~~J~~
05		~~Unknown-04~~	~~19.58~~	~~350~~	~~J~~
06					
07		SL 6/26/14			
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

SOM01.2 (6/2007)

1186

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y9EF9

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 44248 Mod. Ref No.: _____ SDG No.: Y9E95

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-6425.18

Sample wt/vol: 30.40 (g/mL) G Lab File ID: D13395

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 8.8 Decanted: (Y/N) N Date Received: 04/17/2014

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/23/2014

Injection Volume: 1.0 (uL) Date Analyzed: 04/30/2014

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	13.37	530	J
02		Unknown-02	14.56	440	J
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
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20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9EG1 (D4)

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 44248 Mod. Ref No.: _____ SDG No.: Y9E95

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-6425.20

Sample wt/vol: 30.30 (g/mL) G Lab File ID: D13396

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 19 Decanted: (Y/N) N Date Received: 04/17/2014

Concentrated Extract Volume: 500 (uL) Date Extracted: 04/23/2014

Injection Volume: 1.0 (uL) Date Analyzed: 04/30/2014

GPC Cleanup: (Y/N) Y pH: 6.5 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	13.74	490	J
02		Unknown-02	14.56	490	J
03		Unknown-03	14.74	520	J
04		Unknown-04	15.48	480	J
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2] EPA-designated Registry Number.

Memorandum

To:	Karen Jurist, Remedial Project Manager Site Cleanup Section 3, SFD-7-3 USEPA Region 9
Through:	Joe Eidelberg, Chemist Quality Assurance Section, EMD-3-2 USEPA Region 9
From:	Kathy O'Brien, Project Manager KO ICF, Environmental Services Assistance Team (ESAT) Region 9 ESAT Contract No.: EP-W-13-029 Technical Direction No.: 10106186
Date:	February 23, 2018
Re:	Review of Analytical Data, **Tier 2**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Southern Avenue Industrial Area
Site Account No.:	09 WS QB 00
Case No.:	44248
SDG No.:	Y9EF8
Laboratory:	KAP Technologies, Inc. (KAP)
Analysis:	CLP Aroclors
Samples:	Y9EL7 (1 of 20 Soil Samples)
Collection Date:	April 16 and 17, 2014
Reviewer:	Santiago Lee, ESAT

EXES Data Manager has not been updated with results of this review because the data has been archived and the data editing functions have been disabled.

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Richard Freitas, CLP COR USEPA Region 9
Raymond Flores, CLP COR USEPA Region 6

CLP PO: [X] FYI [ ] Action

SAMPLING ISSUES: [ ] Yes [X] No

1337 South 46th Street, Building 201, Richmond, CA 94804 USA +1.510.412.2300 +1.510.412.2304 fax icf.com

Data Validation Report - **Tier 2**

Case No.: 44248
SDG No.: Y9EF8
Site: Southern Avenue Industrial Area
Laboratory: KAP Technologies, Inc. (KAP)
Analysis: CLP Aroclors
Reviewer: Santiago Lee, ESAT
Date: February 23, 2018

I. SDG SUMMARY

As instructed, ESAT has completed the review of aroclors data for sample Y9EL7. EXES Data Manager has not been updated with results of this review because the data has been archived and the data editing functions have been disabled.

For Sample Information and Laboratory Quality Control (QC), refer to EXES National Functional Guidelines (NFG) data validation reports *Analytical Sample Listing* and *Organic Analytic Sequence*. The data qualifier definitions, as described in pages 6 and 7 of the National Functional Guidelines, are attached to this report.

Field QC

Field Blanks (FB):	None.
Equipment Blanks (EB):	None.
Background Samples (BG):	None.
Field Duplicates:	Y9EL8 and Y9EL9.
Field Duplicates:	Y9EC5 and Y9EM3.

CLP PO Action

None.

Sampling Issues

None.

Additional Comments

The laboratory transposed the percent solids and percent moisture for sample Y9EL7 resulting in erroneous final results for all parameters. The error was corrected in the attached EDD, *380987_195062.SS44248.EPW11031.Y9EF8-ESAT_Edit. xls*; see entries in red font for specific changes.

All standards and spiking solutions were analyzed before the expiration date.

This report was prepared in accordance with the following documents:

- *USEPA Contract Laboratory Program Statement of Work for Multi-Media, Multi-Concentration, Organics Analytical Service for Superfund*, SOM01.2, August 2007 and
- *USEPA National Functional Guidelines for Superfund Organic Methods Data Review*, June 2008.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Multi-Media, Multi-Concentration, Organics Analytical Service for Superfund*, SOM01.2.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Data Completeness	Yes	
2	Preservation and Holding Times	Yes	
3	Initial Calibration	Yes	
4	Continuing Calibration Verification (CCV)	Yes	
5	Laboratory Blank	Yes	
6	Field/Equipment Blanks	N/A	
7	Surrogate Spikes	Yes	
8	Matrix Spike/Matrix Spike Duplicates (MS/MSDs)	No	A
9	Laboratory Control Samples (LCSs)	Yes	
10	GPC Performance Check	N/A	
11	Target Compound Identification	Yes	
12	GC/MS Confirmation	N/A	
13	Target Compound Quantitation and Reported CRQLs	Yes	
14	Field Duplicate Sample Analysis	N/A	
15	System Performance	Yes	
16	Overall Assessment of Data	Yes	

N/A = Not Applicable.

III. VALIDITY AND COMMENTS

A. Recoveries for Aroclor-1016 on the RTX-CLP column in QC samples Y9EF8MS and Y9EF8MSD do not meet the criterion for accuracy specified in the SOW, as shown below.

Analyte	Y9EF8MS	Y9EF8MSD	QC Limit
Aroclors-1016	155	154	29-135

These results may indicate poor laboratory technique or matrix effects which may interfere with analysis. This uncertainty should be evaluated in the context of project data quality objectives to determine data usability.

Memorandum

To:	Karen Jurist, Remedial Project Manager Site Cleanup Section 3, SFD-7-3 USEPA Region 9
Through:	Joe Eidelberg, Chemist Quality Assurance Section, EMD-3-2 USEPA Region 9
From:	Kathy O'Brien, Project Manager KO ICF, Environmental Services Assistance Team (ESAT) Region 9 ESAT Contract No.: EP-W-13-029 Technical Direction No.: 10106186
Date:	February 23, 2018
Re:	Review of Analytical Data, **Tier 2**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Southern Avenue Industrial Area
Site Account No.:	09 WS QB 00
Case No.:	44248
SDG No.:	Y9EF8
Laboratory:	KAP Technologies, Inc. (KAP)
Analysis:	CLP Low Level Volatiles
Samples:	Y9EL7 (1 of 20 Soil Samples)
Collection Date:	April 16 and 17, 2014
Reviewer:	Santiago Lee, ESAT

EXES Data Manager has not been updated with results of this review because the data has been archived and the data editing functions have been disabled.

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Richard Freitas, CLP COR USEPA Region 9
Raymond Flores, CLP COR USEPA Region 6

CLP PO: [X] FYI [ ] Action

SAMPLING ISSUES: [ ] Yes [X] No

1337 South 46th Street, Building 201, Richmond, CA 94804 USA +1.510.412.2300 +1.510.412.2304 fax icf.com

Data Validation Report - **Tier 2**

Case No.: 44248
SDG No.: Y9EF8
Site: Southern Avenue Industrial Area
Laboratory: KAP Technologies, Inc. (KAP)
Analysis: CLP Low Level Volatiles
Reviewer: Santiago Lee, ESAT
Date: February 23, 2018

I. SDG SUMMARY

As instructed, ESAT has completed the review of trichloroethene and 1,4-dioxane data for sample Y9EL7. EXES Data Manager has not been updated with results of this review because the data has been archived and the data editing functions have been disabled.

For Sample Information and Laboratory Quality Control (QC), refer to EXES National Functional Guidelines (NFG) data validation reports *Analytical Sample Listing* and *Organic Analytic Sequence*. The data qualifier definitions, as described in pages 6 and 7 of the National Functional Guidelines, are attached to this report.

Field QC

Field Blanks (FB):	None.
Equipment Blanks (EB):	None.
Background Samples (BG):	None.
Field Duplicates:	Y9EL8 and Y9EL9.
Field Duplicates:	Y9EC5 and Y9EM3.

CLP PO Action

None.

Sampling Issues

None.

Additional Comments

The laboratory transposed the percent solids and percent moisture for sample Y9EL7 resulting in erroneous final results for all parameters. The error was corrected in the attached EDD, *380987_195062.SS44248.EPW11031.Y9EF8-ESAT_Edit. xls*; see entries in red font for specific changes.

All standards and spiking solutions were analyzed before the expiration date.

This report was prepared in accordance with the following documents:

- *USEPA Contract Laboratory Program Statement of Work for Multi-Media, Multi-Concentration, Organics Analytical Service for Superfund*, SOM01.2, August 2007 and
- *USEPA National Functional Guidelines for Superfund Organic Methods Data Review*, June 2008.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Multi-Media, Multi-Concentration, Organics Analytical Service for Superfund*, SOM01.2.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Data Completeness	Yes	
2	Preservation and Holding Times	Yes	
3	GC/MS Instrument Performance Check	Yes	
4	Initial Calibration	Yes	
5	Continuing Calibration Verification (CCV)	Yes	
6	Laboratory Blank	Yes	
7	Field/Equipment/Trip Blanks	N/A	
8	Deuterated Monitoring Compounds (DMCs)	Yes	
9	Matrix Spike/Matrix Spike Duplicates (MS/MSDs)	Yes	
10	Internal Standards	Yes	
11	Target Compound Identification	Yes	
12	Target Compound Quantitation and Reported CRQLs	Yes	
13	Field Duplicate Sample Analysis	N/A	
14	System Performance	Yes	
15	Overall Assessment of Data	Yes	

N/A = Not Applicable.

III. VALIDITY AND COMMENTS

The data reviewed were found to be in compliance with the National Functional Guidelines criteria; no issues requiring qualification of data were observed.

ICF International
Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300; Fax: (510) 412-2304.

MEMORANDUM

TO: Karen Jurist, Remedial Project Manager
Site Cleanup Section 3, SFD-7-3
USEPA Region 9

THROUGH: Joe Eidelberg, Chemist
Quality Assurance (QA) Program, MTS-3
USEPA Region 9

Joseph Eidelberg
Digitally Signed

FROM: Kathy O'Brien, Data Review Task Manager
Environmental Services Assistance Team (ESAT) Region 9
ICF International

ESAT Contract No.: EP-W-13-029
Technical Direction Form No.: 10106058

DATE: October 28, 2014

SUBJECT: Review of Analytical Data, Tier 3

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Southern Avenue Industrial Area
Site Account No.:	09 WS QB 00
Case No.:	44632
SDG No.:	Y9M81
Laboratory:	CompuChem (LIBRTY)
Analysis:	Trace Volatiles
Samples:	8 Water Samples
Collection Date:	August 27, 2014
Reviewer:	Anna Pajarillo, ESAT

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Cynthia Gurley, CLP PO USEPA Region 4
Steve Remaley, CLP PO USEPA Region 9
Richard Bauer, CLP COR for ESAT Region 9

CLP PO: [ ] FYI [X] Action
SAMPLING ISSUES: [X] Yes [ ] No

Data Validation Report - Tier 3

Case No.: 44632
SDG No.: Y9M81
Site: Southern Avenue Industrial Area
Laboratory: CompuChem (LIBRTY)
Analysis: Trace Volatiles
Reviewer: Anna Pajarillo, ESAT
Date: October 28, 2014

I. SDG SUMMARY

For Sample Information and Laboratory Quality Control (QC), refer to EXES National Functional Guideline Report #06, *Analytical Sample Listing*.

Field QC

Field Blanks (FB):	Not Provided
Equipment Blanks (EB):	Y9M91
Travel Blanks (TB):	Y9M92
Background Samples (BG):	Not Provided
Field Duplicates (D1):	Not Provided

Tables

1A: Analytical Results with Qualifications
1B: Data Qualifier Definitions for Organic Data Review

CLP PO Action

Nondetected results for bromomethane in samples Y9M81, Y9M82, and Y9M86 and method blanks VBLKZV and VBLKAA are qualified as rejected (R) due to low relative response factors (<0.050) in the continuing calibration verifications (CCVs; see Comment A).

Sampling Issues

The detected result for acetone in sample Y9M86 is qualified as nondetected (U) due to equipment blank contamination (see Comment C).

Additional Comments

Sample Y9M84 was re-analyzed undiluted due to a missing closing CCV (see comment below); sample Y9M85, equipment blank Y9M91, and trip blank Y9M92 were re-analyzed undiluted because the associated CCVs failed QC criteria (see Comment A). Results from the re-analyses (sample ID ending in RE) are presented in Table 1A.

The laboratory indicates that the closing CCV for samples Y9M81, Y9M82, and Y9M84 and method blank VBLKZV was not analyzed due to an instrument failure. The reviewer examined the internal standard and DMC responses in the sequence to verify instrument stability. No trend or unusual variation was observed (i.e., the instrument was stable until

it stopped). The CCV VSTD005AA analyzed 21 hours from the opening CCV is considered to be the closing CCV for samples Y9M81 and Y9M82 and method blank VBLKZV.

The mass spectra for target analyte listed in Modification Reference Number (MRN) 2210.2 from the low point initial calibration standard were missing from the data package. The laboratory submitted the missing mass spectra upon request, on 10/23/14.

The preparation logbook page for solution 4H07028 was missing in the data package. The laboratory submitted the missing page upon request, on 10/23/14. All standards and spiking solutions associated with sample analysis were analyzed before the expiration date.

Aside from laboratory artifacts (retention times of 13.5/15.0 and 15.6 minutes), tentatively identified compounds (TICs) were found in samples Y9M83 and Y9M86 (see attached Form 1Js).

Manual integration was performed on calibrations and samples. Manual integrations were reviewed and found to be in compliance with CLP Statement of Work (SOW) requirements.

This report was prepared in accordance with the following documents:

- *Request for Quote (RFQ) for Modified Analysis*, Modification Reference Number: 2210.2, August 20, 2014;
- *USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration*, SOM01.1, May 2005;
- *Modifications Updating SOM01.1 to SOM01.2*, Amended April 11, 2007; and
- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, June 2008.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration*, SOM01.1, May 2005.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Holding Time/Preservation	Yes	
2	GC/MS Tune/GC Performance	Yes	
3	Initial Calibration	Yes	
4	Continuing Calibration Verification (CCV)	No	A, D
5	Laboratory Blanks	No	C
6	Field Blanks	No	C
7	Deuterated Monitoring Compounds (DMCs)	No	E
8	Matrix Spike/Matrix Spike Duplicates (MS/MSDs)	Yes	
9	Internal Standards	Yes	

	Parameter	Acceptable	Comment
10	Compound Identification	Yes	
11	Compound Quantitation	Yes	B, F
12	System Performance	Yes	
13	Field Duplicate Sample Analysis	N/A	

N/A = Not Applicable.

III. VALIDITY AND COMMENTS

A. Nondetected results for the following analyte are qualified as rejected due to low relative response factors (RRFs) in associated CCVs and are flagged "R" in Table 1A.

- Bromomethane in samples Y9M81, Y9M82, and Y9M86 and method blanks VBLKZV and VBLKAA.

The RRFs of 0.047 and 0.027 were reported for bromomethane in 09/04/14 15:50 and 09/04/14 21:55 CCVs, respectively, which are less than the 0.050 validation criterion. Results listed above are considered unusable (R) according to the National Functional Guidelines. Samples Y9M81, Y9M82, and Y9M86 were not re-analyzed undiluted.

B. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J" in Table 1A. Results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

C. The following results are qualified as nondetected due to method blank, storage blank, and equipment blank contamination and are flagged "U" in Table 1A.

- Acetone in sample Y9M86;
- Methylene chloride in sample Y9M92RE; and
- Toluene in samples Y9M83 and Y9M91RE.

Acetone was found in equipment blank Y9M91RE at 18 µg/L. Methylene chloride was found in method blank VBLKAA and storage blank VHBLKYL; toluene was found in method blanks VBLKAA, VBLKAI, VBLKAK, and VBLKFR and storage blank VHBLKYL (see Table 1A for concentrations). Results listed above are considered nondetected (U) according to the National Functional Guidelines.

D. Results for the following analyte are qualified as estimated due to large percent differences (%Ds) in associated CCVs and are flagged "UJ" in Table 1A.

- Bromomethane in samples Y9M84RE and Y9M85RE, equipment blank Y9M91RE, travel blank Y9M92RE, method blanks VBLKAK and VBLKFR, and storage blank VHBLKYL.

The %Ds of -36.0% and +39.5% were reported in 09/04/14 15:50 and 09/10/14 14:41 CCVs, respectively, which exceed the ±30.0% validation criterion for opening CCVs. The %Ds of -62.5% and -66.2% were reported in 09/04/14 21:55 and 09/06/14 05:14 CCVs, respectively, which exceed the ±50.0% validation criterion for closing CCVs.

E. Results for the following analytes are qualified as estimated due to high DMC recoveries and are flagged "J" in Table 1A.

{1,1-Dichloroethene-d2}
- 1,1-Dichloroethene in sample Y9M83.

{Chloroform-d}
- 1,1-Dichloroethane in sample Y9M83.

High DMC recoveries are shown below.

Sample	DMC	% Recovery	QC Limit
Y9M83	Chloroethane-d5	143	71-131
Y9M83	1,1-Dichloroethene-d2	107	55-104
Y9M83	Chloroform-d	122	78-121

Qualified results may be biased high. For DMC recoveries that exceed QC limits, only detected results for associated analytes are qualified.

F. Several samples (see table below) required dilution to obtain results within the calibration range for the indicated analytes. Results for these analytes are reported from the diluted analyses in Table 1A; other results are reported from the undiluted analyses.

Sample	Dilution	Analyte
Y9M81	83.3	trans-1,2-Dichloroethene cis-1,2-Dichloroethene
Y9M82	500	trans-1,2-Dichloroethene cis-1,2-Dichloroethene Trichloroethene
Y9M83	31.3	cis-1,2-Dichloroethene trans-1,2-Dichloroethene

Lab CompuChem (LIBRTY) **SDG** Y9M81 **Case** 44632 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9M81 SAIA-MW5A-0814 Field_Sample Water/Trace 1.0 ug/L			Y9M82 SAIA-MW5B-0814 Field_Sample Water/Trace 1.0 ug/L			Y9M83 SAIA-MW5C-0814 Field_Sample Water/Trace 1.0 ug/L			Y9M84RE SAIA-MW6A-0814 Field_Sample Water/Trace 1.0 ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
Vinyl chloride	0.72			4.5			0.50	U		0.50	U	
Bromomethane	0.50	R	A	0.50	R	A	0.50	U		0.50	UJ	D
Chloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Trichlorofluoromethane	0.50	U		0.50	U		0.50	U		0.50	U	
1,1-Dichloroethene	0.89			5.5			0.80	J	E	0.50	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Acetone	5.0	U		5.0	U		5.0	U		5.0	U	
Carbon disulfide	0.50	U		0.96			0.50	U		0.50	U	
Methyl acetate	0.50	U		0.50	U		0.50	U		0.50	U	
Methylene chloride	0.50	U		0.50	U		0.50	U		0.50	U	
trans-1,2-Dichloroethene	24		F	120	J	B,F	25		F	0.50	U	
Methyl tert-butyl ether	0.50	U		0.50	U		0.50	U		0.20	J	B
1,1-Dichloroethane	0.42	J	B	9.5			0.64	J	E	0.50	U	
cis-1,2-Dichloroethene	520		F	3600		F	320		F	0.098	J	B
2-Butanone	5.0	U		5.0	U		5.0	U		5.0	U	
Bromochloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chloroform	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,1-Trichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Cyclohexane	0.50	U		0.16	J	B	0.15	J	B	0.50	U	
Carbon tetrachloride	0.50	U		0.50	U		0.50	U		0.50	U	
Benzene	0.50	U		0.36	J	B	0.18	J	B	0.50	U	
1,2-Dichloroethane	0.50	U		0.52			1.9			0.50	U	

Lab CompuChem (LIBRTY) **SDG** Y9M81 **Case** 44632 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9M81 SAIA-MW5A-0814 Field_Sample Water/Trace 1.0 ug/L			Y9M82 SAIA-MW5B-0814 Field_Sample Water/Trace 1.0 ug/L			Y9M83 SAIA-MW5C-0814 Field_Sample Water/Trace 1.0 ug/L			Y9M84RE SAIA-MW6A-0814 Field_Sample Water/Trace 1.0 ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Trichloroethene	1.9			99	J	B,F	4.8			0.50	U	
Methylcyclohexane	0.090	J	B	0.22	J	B	0.50	U		0.50	U	
1,2-Dichloropropane	0.50	U		0.50	U		0.26	J	B	0.50	U	
Bromodichloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
cis-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U		0.50	U	
4-Methyl-2-pentanone	5.0	U		5.0	U		5.0	U		5.0	U	
Toluene	0.77			1.2			0.50	U	C	0.64		
trans-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,2-Trichloroethane	0.50	U		0.84			0.50	U		0.50	U	
Tetrachloroethene	0.50	U		0.50	U		0.50	U		0.50	U	
2-Hexanone	5.0	U		5.0	U		5.0	U		5.0	U	
Dibromochloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dibromoethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
Ethylbenzene	0.50	U		0.50	U		0.50	U		0.50	U	
o-Xylene	0.50	U		0.50	U		0.50	U		0.50	U	
m,p-Xylene	0.50	U		0.50	U		0.50	U		0.50	U	
Styrene	0.041	J	B	0.055	J	B	0.50	U		0.50	U	
Bromoform	0.50	U		0.50	U		0.50	U		0.50	U	
Isopropylbenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,2,2-Tetrachloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
1,3-Dichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,4-Dichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dibromo-3-chloropropane	0.50	U		0.50	U		0.50	U		0.50	U	
1,2,4-Trichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2,3-Trichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2,3-Trichloropropane	0.50	U		0.50	U		0.50	U		0.50	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample.

Lab CompuChem (LIBRTY) **SDG** Y9M81 **Case** 44632 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9M85RE SAIA-MW6B-0814 Field_Sample Water/Trace 1.0 ug/L			Y9M86 SAIA-MW6C-0814 Field_Sample Water/Trace 2.5 ug/L			Y9M91RE EB SAIA-EL01-0814 Field_Sample Water/Trace 1.0 ug/L			Y9M92RE TB SAIA-RL03-0814 Field_Sample Water/Trace 1.0 ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
Vinyl chloride	0.50	U		0.50	U		0.50	U		0.50	U	
Bromomethane	0.50	UJ	D	0.50	R	A	0.50	UJ	D	0.50	UJ	D
Chloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Trichlorofluoromethane	0.50	U		0.50	U		0.50	U		0.50	U	
1,1-Dichloroethene	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Acetone	5.0	U		5.0	U	C	18			5.0	U	
Carbon disulfide	0.50	U		0.24	J	B	0.50	U		0.50	U	
Methyl acetate	0.50	U		0.50	U		0.50	U		0.50	U	
Methylene chloride	0.50	U		0.50	U		0.50	U		0.50	U	C
trans-1,2-Dichloroethene	5.1			2.8			0.50	U		0.50	U	
Methyl tert-butyl ether	0.50	U		0.50	U		0.20	J	B	0.50	U	
1,1-Dichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
cis-1,2-Dichloroethene	15			21		F	0.50	U		0.50	U	
2-Butanone	5.0	U		5.0	U		5.0	U		5.0	U	
Bromochloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chloroform	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,1-Trichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Cyclohexane	0.50	U		0.50	U		0.50	U		0.50	U	
Carbon tetrachloride	0.50	U		0.50	U		0.50	U		0.50	U	
Benzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dichloroethane	0.14	J	B	0.50	U		0.50	U		0.50	U	

Lab CompuChem (LIBRTY) **SDG** Y9M81 **Case** 44632 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	Y9M85RE SAIA-MW6B-0814 Field_Sample Water/Trace 1.0 ug/L			Y9M86 SAIA-MW6C-0814 Field_Sample Water/Trace 2.5 ug/L			Y9M91RE EB SAIA-EL01-0814 Field_Sample Water/Trace 1.0 ug/L			Y9M92RE TB SAIA-RL03-0814 Field_Sample Water/Trace 1.0 ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Trichloroethene	3.5			2.4			0.50	U		0.50	U	
Methylcyclohexane	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-DichloropropanD	0.50	U		0.50	U		0.50	U		0.50	U	
Bromodichloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
cis-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U		0.50	U	
4-Methyl-2-pentanone	5.0	U		5.0	U		5.0	U		5.0	U	
Toluene	0.97			0.50	U		0.50	U	C	0.50	U	
trans-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,2-Trichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Tetrachloroethene	0.50	U		0.50	U		0.50	U		0.50	U	
2-Hexanone	5.0	U		5.0	U		5.0	U		5.0	U	
Dibromochloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dibromoethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
Ethylbenzene	0.50	U		0.50	U		0.50	U		0.50	U	
o-Xylene	0.50	U		0.50	U		0.50	U		0.50	U	
m,p-Xylene	0.50	U		0.50	U		0.50	U		0.50	U	
Styrene	0.040	J	B	0.50	U		0.50	U		0.50	U	
Bromoform	0.50	U		0.50	U		0.50	U		0.50	U	
Isopropylbenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,2,2-Tetrachloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
1,3-Dichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,4-Dichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dibromo-3-chloropropane	0.50	U		0.50	U		0.50	U		0.50	U	
1,2,4-Trichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2,3-Trichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2,3-Trichloropropane	0.50	U		0.50	U		0.50	U		0.50	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample.

Lab CompuChem (LIBRTY) **SDG** Y9M81 **Case** 44632 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	VBLKAA N/A Method_Blank WATER/TRACE 1.0 ug/L			VBLKAI N/A Method_Blank WATER/TRACE 1.0 ug/L			VBLKAK N/A Method_Blank WATER/TRACE 1.0 ug/L			VBLKFR N/A Method_Blank WATER/TRACE 1.0 ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
Vinyl chloride	0.50	U		0.50	U		0.50	U		0.50	U	
Bromomethane	0.50	R	A	0.50	U		0.50	UJ	D	0.50	UJ	D
Chloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Trichlorofluoromethane	0.50	U		0.50	U		0.50	U		0.50	U	
1,1-Dichloroethene	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Acetone	5.0	U		5.0	U		5.0	U		5.0	U	
Carbon disulfide	0.50	U		0.50	U		0.50	U		0.50	U	
Methyl acetate	0.50	U		0.50	U		0.50	U		0.50	U	
Methylene chloride	0.44	J	B	0.50	U		0.50	U		0.50	U	
trans-1,2-Dichloroethene	0.50	U		0.50	U		0.50	U		0.50	U	
Methyl tert-butyl ether	0.50	U		0.50	U		0.50	U		0.50	U	
1,1-Dichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
cis-1,2-Dichloroethene	0.18	J	B	0.50	U		0.50	U		0.50	U	
2-Butanone	5.0	U		5.0	U		5.0	U		5.0	U	
Bromochloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chloroform	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,1-Trichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Cyclohexane	0.50	U		0.50	U		0.50	U		0.50	U	
Carbon tetrachloride	0.50	U		0.50	U		0.50	U		0.50	U	
Benzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	

Lab CompuChem (LIBRTY) **SDG** Y9M81 **Case** 44632 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	VBLKAA N/A Method_Blank WATER/TRACE 1.0 ug/L			VBLKAI N/A Method_Blank WATER/TRACE 1.0 ug/L			VBLKAK N/A Method_Blank WATER/TRACE 1.0 ug/L			VBLKFR N/A Method_Blank WATER/TRACE 1.0 ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Trichloroethene	0.50	U		0.50	U		0.50	U		0.50	U	
Methylcyclohexane	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-DichloropropanD	0.50	U		0.50	U		0.50	U		0.50	U	
Bromodichloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
cis-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U		0.50	U	
4-Methyl-2-pentanone	5.0	U		5.0	U		5.0	U		5.0	U	
Toluene	0.14	J	B	0.072	J	B	0.078	J	B	0.050	J	B
trans-1,3-Dichloropropene	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,2-Trichloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
Tetrachloroethene	0.50	U		0.50	U		0.50	U		0.50	U	
2-Hexanone	5.0	U		5.0	U		5.0	U		5.0	U	
Dibromochloromethane	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dibromoethane	0.50	U		0.50	U		0.50	U		0.50	U	
Chlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
Ethylbenzene	0.050	J	B	0.50	U		0.50	U		0.50	U	
o-Xylene	0.038	J	B	0.50	U		0.50	U		0.50	U	
m,p-Xylene	0.19	J	B	0.50	U		0.50	U		0.50	U	
Styrene	0.50	U		0.50	U		0.50	U		0.50	U	
Bromoform	0.50	U		0.50	U		0.50	U		0.50	U	
Isopropylbenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,1,2,2-Tetrachloroethane	0.50	U		0.50	U		0.50	U		0.50	U	
1,3-Dichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,4-Dichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2-Dibromo-3-chloropropane	0.50	U		0.50	U		0.50	U		0.50	U	
1,2,4-Trichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2,3-Trichlorobenzene	0.50	U		0.50	U		0.50	U		0.50	U	
1,2,3-Trichloropropane	0.50	U		0.50	U		0.50	U		0.50	U	

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Lab CompuChem (LIBRTY) **SDG** Y9M81 **Case** 44632 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample Location Type Matrix/Level Dilution Factor % Moisture Units	**VBLKZV N/A Method_Blank WATER/TRACE 1.0 ug/L**			**VHBLKYL N/A Method_Blank WATER/TRACE 1.0 ug/L**								
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Dichlorodifluoromethane	0.50	U		0.50	U							
Chloromethane	0.50	U		0.50	U							
Vinyl chloride	0.50	U		0.50	U							
Bromomethane	0.50	R	A	0.50	UJ	D						
Chloroethane	0.50	U		0.50	U							
Trichlorofluoromethane	0.50	U		0.50	U							
1,1-Dichloroethene	0.50	U		0.50	U							
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U		0.50	U							
Acetone	5.0	U		5.0	U							
Carbon disulfide	0.50	U		0.50	U							
Methyl acetate	0.50	U		0.50	U							
Methylene chloride	0.50	U		0.32	J	B						
trans-1,2-Dichloroethene	0.50	U		0.50	U							
Methyl tert-butyl ether	0.50	U		0.50	U							
1,1-Dichloroethane	0.50	U		0.50	U							
cis-1,2-Dichloroethene	0.50	U		0.50	U							
2-Butanone	5.0	U		5.0	U							
Bromochloromethane	0.50	U		0.50	U							
Chloroform	0.50	U		0.11	J	B						
1,1,1-Trichloroethane	0.50	U		0.50	U							
Cyclohexane	0.50	U		0.50	U							
Carbon tetrachloride	0.50	U		0.50	U							
Benzene	0.50	U		0.50	U							
1,2-Dichloroethane	0.50	U		0.50	U							

Lab CompuChem (LIBRTY) **SDG** Y9M81 **Case** 44632 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample	**VBLKZV**			**VHBLKYL**								
Location	**N/A**			**N/A**								
Type	**Method_Blank**			**Method_Blank**								
Matrix/Level	**WATER/TRACE**			**WATER/TRACE**								
Dilution Factor	**1.0**			**1.0**								
% Moisture												
Units	**ug/L**			**ug/L**								
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
Trichloroethene	0.50	U		0.50	U							
Methylcyclohexane	0.50	U		0.50	U							
1,2-DichloropropanD	0.50	U		0.50	U							
Bromodichloromethane	0.50	U		0.50	U							
cis-1,3-Dichloropropene	0.50	U		0.50	U							
4-Methyl-2-pentanone	5.0	U		5.0	U							
Toluene	0.50	U		0.056	J	B						
trans-1,3-Dichloropropene	0.50	U		0.50	U							
1,1,2-Trichloroethane	0.50	U		0.50	U							
Tetrachloroethene	0.50	U		0.50	U							
2-Hexanone	5.0	U		5.0	U							
Dibromochloromethane	0.50	U		0.50	U							
1,2-Dibromoethane	0.50	U		0.50	U							
Chlorobenzene	0.50	U		0.50	U							
Ethylbenzene	0.50	U		0.50	U							
o-Xylene	0.50	U		0.50	U							
m,p-Xylene	0.50	U		0.50	U							
Styrene	0.50	U		0.50	U							
Bromoform	0.50	U		0.50	U							
Isopropylbenzene	0.50	U		0.50	U							
1,1,2,2-Tetrachloroethane	0.50	U		0.50	U							
1,3-Dichlorobenzene	0.50	U		0.50	U							
1,4-Dichlorobenzene	0.50	U		0.50	U							
1,2-Dichlorobenzene	0.50	U		0.50	U							
1,2-Dibromo-3-chloropropane	0.50	U		0.50	U							
1,2,4-Trichlorobenzene	0.50	U		0.50	U							
1,2,3-Trichlorobenzene	0.50	U		0.50	U							
1,2,3-Trichloropropane	0.50	U		0.50	U							

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample.

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," June 2008.

U The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9M83

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 44632 Mod. Ref No.: 2210.2 SDG No.: Y9M81

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1408088-03

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1408088-03R90.d

Level: (TRACE or LOW/MED) TRACE Date Received: 08/28/2014

% Moisture: not dec. Date Analyzed: 09/09/2014

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.48	1.6	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	3.5	J

[1]EPA-designated Registry Number.

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
Y9M86

Lab Name: COMPUCHEM Contract: EPW11032

Lab Code: LIBRTY Case No.: 44632 Mod. Ref No.: 2210.2 SDG No.: Y9M81

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1408088-06

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 1408088-0690.d

Level: (TRACE or LOW/MED) TRACE Date Received: 08/28/2014

% Moisture: not dec. Date Analyzed: 09/04/2014

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:(ug/L or ug/kg) ug/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	7446-09-5	Sulfur dioxide	4.87	3.3	JN
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	6.4	J

[1]EPA-designated Registry Number.

ICF International
Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300; Fax: (510) 412-2304.

MEMORANDUM

TO: Karen Jurist, Remedial Project Manager
Site Cleanup Section 3, SFD-7-3
USEPA Region 9

THROUGH: Joe Eidelberg, Chemist
Quality Assurance (QA) Program, MTS-3
USEPA Region 9

Joseph Eidelberg
Digitally Signed

FROM: Kathy O'Brien, Data Review Task Manager
Environmental Services Assistance Team (ESAT) Region 9
ICF International

ESAT Contract No.: EP-W-13-029
Technical Direction Form No.: 10106058

DATE: October 28, 2014

SUBJECT: Review of Analytical Data, Tier 3

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Southern Avenue Industrial Area
Site Account No.:	09 WS QB 00
Case No.:	44632
SDG No.:	Y9M81
Laboratory:	CompuChem (LIBRTY)
Analysis:	1,4-Dioxane by Semivolatile Selective Ion Monitoring (SIM)
Samples:	7 Water Samples
Collection Date:	August 27, 2014
Reviewer:	Anna Pajarillo, ESAT

If there are any questions, please contact Joe Eidelberg (QA Program/EPA) at (415) 972-3809.

Attachment

cc: Cynthia Gurley, CLP PO USEPA Region 4
Steve Remaley, CLP PO USEPA Region 9
Richard Bauer, CLP COR for ESAT Region 9

CLP PO: [X] FYI [ ] Action
SAMPLING ISSUES: [ ] Yes [X] No

Data Validation Report - Tier 3

Case No.: 44632
SDG No.: Y9M81
Site: Southern Avenue Industrial Area
Laboratory: CompuChem (LIBRTY)
Analysis: 1,4-Dioxane by Semivolatile Selective Ion Monitoring (SIM)
Reviewer: Anna Pajarillo, ESAT
Date: October 28, 2014

I. SDG SUMMARY

For Sample Information and Laboratory Quality Control (QC), refer to EXES National Functional Guideline Report #06, *Analytical Sample Listing*.

Field QC

Field Blanks (FB):	Not Provided
Equipment Blanks (EB):	Y9M91
Travel Blanks (TB):	Not Provided
Background Samples (BG):	Not Provided
Field Duplicates (D1):	Not Provided

Tables

1A:	Analytical Results with Qualifications
1B:	Data Qualifier Definitions for Organic Data Review

CLP PO Action

None.

Sampling Issues

None.

Additional Comments

Matrix spike/matrix spike duplicate (MS/MSD) analysis was not required.

Manual integration was performed on the surrogate 1,4-dioxane-d8 for sample Y9M82. The manual integration was reviewed and found to be in compliance with CLP Statement of Work (SOW) requirements.

This report was prepared in accordance with the following documents:

- *Request for Quote (RFQ) for Modified Analysis*, Modification Reference Number: 2103.5, August 20, 2014;
- *USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration*, SOM01.1, May 2005;
- *Modifications Updating SOM01.1 to SOM01.2*, Amended April 11, 2007; and

- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, June 2008.

For technical definitions, refer to *Exhibit G (Glossary of Terms), USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration*, SOM01.1, May 2005.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Holding Time/Preservation	Yes	
2	GC/MS Tune/GC Performance	N/A	
3	Initial Calibration	Yes	
4	Continuing Calibration Verification (CCV)	Yes	
5	Laboratory Blanks	Yes	
6	Field Blanks	Yes	
7	Deuterated Monitoring Compounds (DMCs)	Yes	
8	Matrix Spike/Matrix Spike Duplicates (MS/MSDs)	N/A	
9	GPC Performance Check	N/A	
10	Internal Standards	Yes	
11	Compound Identification	Yes	
12	Compound Quantitation	Yes	A, B
13	System Performance	Yes	
14	Field Duplicate Sample Analysis	N/A	

N/A = Not Applicable

III. VALIDITY AND COMMENTS

A. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) are estimated and flagged "J" in Table 1A. Results are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in analytical precision near the quantitation limit.

B. The extract for sample Y9M82 was reanalyzed at a 5-fold dilution due to the concentration of 1,4-dioxane exceeding the calibration range. The result from the diluted analysis is reported in Table 1A.

Lab CompuChem (LIBRTY) **SDG** Y9M81 **Case** 44632 **Site** Southern Avenue Industrial Area **SOW** SOM01.2

Sample	Y9M81			Y9M82			Y9M83			Y9M84		
Location	SAIA-MW5A-0814			SAIA-MW5B-0814			SAIA-MW5C-0814			SAIA-MW6A-0814		
Type	Field_Sample			Field_Sample			Field_Sample			Field_Sample		
Matrix	Water			Water			Water			Water		
Dilution Factor	1.0			5.0			1.0			1.0		
% Moisture												
Units	ug/L			ug/L			ug/L			ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
1,4-Dioxane	2.3			23		B	3.2			0.53		

Sample	Y9M85			Y9M86			Y9M91 EB			SBLKDF		
Location	SAIA-MW6B-0814			SAIA-MW6C-0814			SAIA-EL01-0814					
Type	Field_Sample			Field_Sample			Field_Sample			Method_Blank		
Matrix	Water			Water			Water			Water		
Dilution Factor	1.0			1.0			1.0			1.0		
% Moisture										0		
Units	ug/L			ug/L			ug/L			ug/L		
Compound	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**	**Result**	**Flag**	**Com**
1,4-Dioxane	0.26	J	A	0.52			0.46	U		0.50	U	

Com - Comments. Refer to the corresponding section in the Narrative for each letter.
D1, D2, etc. - Field Duplicate Pairs; FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample.

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," June 2008.

U The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

J The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

ATTACHMENT D

FIELD DUPLICATE SUMMARY REPORT

Data Quality Summary Report
Field Duplicate Report By Event and Site
Southern Avenue Industrial Area
SAIA SAP

Location	Analysis
5211-OA01	TO17

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jan 27 2016	5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	1,1,1-Trichloroethane	ND	ND	0.170		NA	OK
Jan 27 2016	5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	1,1,2-Trichloroethane	ND	ND	0.150		NA	OK
Jan 27 2016	5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	1,1-Dichloroethane	ND	ND	0.150		NA	OK
Jan 27 2016	5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	1,1-Dichloroethene	ND	ND	0.150		NA	OK
Jan 27 2016	5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	1,2,4-Trimethylbenzene	1.60	1.60	0.210	0.00	OK	NA
Jan 27 2016	5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	1,2-Dichloroethane	0.0700 J	ND	0.130		NA	OK
Jan 27 2016	5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	1,3,5-Trimethylbenzene	0.350	0.330	0.150	5.88	OK	NA
Jan 27 2016	5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	Benzene	1.60	1.20	0.520	28.6	OK	NA
Jan 27 2016	5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	cis-1,2-Dichloroethylene	ND	ND	0.150		NA	OK
Jan 27 2016	5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	Ethylbenzene	1.10	0.970	0.150	12.6	OK	NA
Jan 27 2016	5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	m,p-Xylene	3.70	3.30	0.300	11.4	OK	NA
Jan 27 2016	5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	Naphthalene	ND	ND	0.420		NA	OK
Jan 27 2016	5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	o-Xylene	1.30	1.20	0.160	8.00	OK	NA
Jan 27 2016	5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	Tetrachloroethene (PCE)	0.240	0.210	0.180	13.3	OK	NA
Jan 27 2016	5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	Toluene	5.30	4.40	0.140	18.6	OK	NA
Jan 27 2016	5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	trans-1,2-Dichloroethene	ND	ND	0.150		NA	OK
Jan 27 2016	5211-OA01-0116 / 5405-OA01-0116	1601047-09 / 1601047-10RE2	Trichloroethene (TCE)	ND	ND	0.150		NA	OK

Location	Analysis
5227-IA02	TO17

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jan 28 2016	5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	1,1,1-Trichloroethane	ND	ND	0.160		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Southern Avenue Industrial Area
SAIA SAP

Location	Analysis
5227-IA02	TO17

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jan 28 2016	5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	1,1,2-Trichloroethane	ND	ND	0.140		NA	OK
Jan 28 2016	5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	1,1-Dichloroethane	ND	ND	0.140		NA	OK
Jan 28 2016	5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	1,1-Dichloroethene	ND	ND	0.140		NA	OK
Jan 28 2016	5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	1,2,4-Trimethylbenzene	1.90	1.90	0.200	0.00	OK	NA
Jan 28 2016	5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	1,2-Dichloroethane	0.160	0.170	0.130	6.06	OK	NA
Jan 28 2016	5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	1,3,5-Trimethylbenzene	0.410	0.410	0.140	0.00	OK	NA
Jan 28 2016	5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	Benzene	1.60	1.60	0.500	0.00	OK	NA
Jan 28 2016	5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	cis-1,2-Dichloroethylene	ND	ND	0.140		NA	OK
Jan 28 2016	5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	Ethylbenzene	1.10	1.10	0.150	0.00	OK	NA
Jan 28 2016	5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	m,p-Xylene	3.60	3.60	0.280	0.00	OK	NA
Jan 28 2016	5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	Naphthalene	ND	ND	0.400		NA	OK
Jan 28 2016	5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	o-Xylene	1.30	1.30	0.150	0.00	OK	NA
Jan 28 2016	5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	Tetrachloroethene (PCE)	0.290	0.280	0.170	3.51	OK	NA
Jan 28 2016	5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	Toluene	5.90	5.70	0.130	3.45	OK	NA
Jan 28 2016	5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	trans-1,2-Dichloroethene	ND	ND	0.140		NA	OK
Jan 28 2016	5227-IA02-0116 / 5406-IA01-0116	1601047-13 / 1601047-15	Trichloroethene (TCE)	ND	ND	0.140		NA	OK

Location	Analysis
MW32	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	1,4-Dioxane (p-Dioxane)	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Southern Avenue Industrial Area
SAIA SAP

Location	Analysis
MW32	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	1,1-Dichloroethane	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	1,1-Dichloroethene	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	1,2-Dichloroethane	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	1,2-Dichloropropane	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	2-Butanone (MEK)	ND	ND	5.00		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	2-Hexanone	ND	ND	5.00		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	Acetone	ND	ND	5.00		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	Benzene	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	Bromochloromethane	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Southern Avenue Industrial Area
SAIA SAP

Location	Analysis
MW32	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	Bromodichloromethane	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	Bromoform	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	Bromomethane	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	Carbon Disulfide	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	Chlorobenzene	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	Chloroethane	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	Chloroform	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	Chloromethane	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	cis-1,2-Dichloroethylene	0.670	0.630	0.500	6.15	OK	NA
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	Cyclohexane	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	Dibromochloromethane	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	Ethylbenzene	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	m,p-Xylene	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	Methyl Acetate	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	Methylcyclohexane	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	Methylene Chloride	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	o-Xylene	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	Styrene	ND	ND	0.500		NA	OK

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Location	Analysis
MW32	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	Toluene	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	trans-1,2-Dichloroethene	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	Trichloroethene (TCE)	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	Trichlorofluoromethane	ND	ND	0.500		NA	OK
Jul 13 2016	MW32-0716 / MW132-0716	S-1622.04 / S-1622.05	Vinyl Chloride	ND	ND	0.500		NA	OK

Location	Analysis
MW34	A2320

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 26 2014	MW34-0314 / MW934-0314	1403070-09 / 1403070-07	Alkalinity, Bicarbonate (as CaCO3)	930	900	10.0	3.28	OK	NA
Mar 26 2014	MW34-0314 / MW934-0314	1403070-09 / 1403070-07	Alkalinity, Carbonate (as CaCO3)	ND	ND	10.0		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	1403070-09 / 1403070-07	Alkalinity, Hydroxide (as CaCO3)	ND	ND	10.0		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	1403070-09 / 1403070-07	Alkalinity, Total (as CaCO3)	930	900	10.0	3.28	OK	NA

Location	Analysis
MW34	A2540C

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 26 2014	MW34-0314 / MW934-0314	1403070-09 / 1403070-07	Total Dissolved Solids	1600	1600	20.0	0.00	OK	NA

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Location	Analysis
MW34	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	1,4-Dioxane (p-Dioxane)	1.30	1.50	0.500	14.3	OK	NA

Location	Analysis
MW34	C245.1

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 26 2014	MW34-0314 / MW934-0314	F1794-01 / F1794-02	Mercury	ND	ND	0.200		NA	OK

Location	Analysis
MW34	CI41CN

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 26 2014	MW34-0314 / MW934-0314	F1794-01 / F1794-02	Cyanide	ND	ND	10.0		NA	OK

Location	Analysis
MW34	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	1,2,4,5-Tetrachlorobenzene	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	2,3,4,6-Tetrachlorophenol	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	2,4,5-Trichlorophenol	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	2,4,6-Trichlorophenol	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	2,4-Dichlorophenol	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	2,4-Dimethylphenol	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	2,4-Dinitrophenol	ND	ND	10.0		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	2,4-Dinitrotoluene	ND	ND	5.00		NA	OK

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Location	Analysis
MW34	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	2,6-Dinitrotoluene	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	2-Chloronaphthalene	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	2-Chlorophenol	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	2-Methylnaphthalene	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	2-Methylphenol (o-Cresol)	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	2-Nitroaniline	ND	ND	10.0		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	2-Nitrophenol	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	3,3'-Dichlorobenzidine	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	3-Nitroaniline	ND	ND	10.0		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	4,6-Dinitro-2-Methylphenol	ND	ND	10.0		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	4-Bromophenyl phenyl ether	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	4-Chloro-3-Methylphenol	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	4-Chloroaniline	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	4-Chlorophenyl Phenyl Ether	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	4-Methylphenol (p-Cresol)	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	4-Nitroaniline	ND	ND	10.0		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	4-Nitrophenol	ND	ND	10.0		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Acenaphthene	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Acenaphthylene	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Acetophenone	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Anthracene	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Atrazine	ND	ND	5.00		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Benzaldehyde	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Benzo(a)anthracene	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Benzo(a)pyrene	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Benzo(b)fluoranthene	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Benzo(g,h,i)perylene	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Benzo(k)fluoranthene	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Benzyl butyl phthalate	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Biphenyl (Diphenyl)	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	bis(2-Chloroethoxy) Methane	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	bis(2-Chloroisopropyl) Ether	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	bis(2-Ethylhexyl) Phthalate	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Caprolactam	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Carbazole	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Chrysene	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Di-n-Butyl Phthalate	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Di-n-Octylphthalate	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Dibenz(a,h)anthracene	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Dibenzofuran	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Diethyl Phthalate	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Dimethyl Phthalate	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Fluoranthene	ND	ND	5.00		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Fluorene	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Hexachlorobenzene	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Hexachlorobutadiene	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Hexachlorocyclopentadiene	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Hexachloroethane	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Indeno(1,2,3-c,d)pyrene	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Isophorone	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	n-Nitrosodi-n-propylamine	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	n-Nitrosodiphenylamine	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Naphthalene	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Nitrobenzene	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Pentachlorophenol	ND	ND	10.0		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Phenanthrene	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Phenol	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Pyrene	ND	ND	5.00		NA	OK

Location	Analysis
MW34	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	1,1,1-Trichloroethane	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	1,1,2,2-Tetrachloroethane	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	2.50		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	1,1,2-Trichloroethane	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	1,1-Dichloroethane	1.60 J	1.30 J	2.50	20.7	NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	1,1-Dichloroethene	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	1,2,3-Trichlorobenzene	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	1,2,3-Trichloropropane	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	1,2,4-Trichlorobenzene	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	1,2-Dibromo-3-chloropropane	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	1,2-Dibromoethane (EDB)	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	1,2-Dichlorobenzene	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	1,2-Dichloroethane	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	1,2-Dichloropropane	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	1,3-Dichlorobenzene	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	1,4-Dichlorobenzene	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	2-Butanone (MEK)	ND	ND	25.0		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	2-Hexanone	ND	ND	25.0		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	4-Methyl-2-pentanone (MIBK)	ND	ND	25.0		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Acetone	ND	ND	25.0		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Benzene	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Bromochloromethane	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Bromodichloromethane	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Bromoform	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Bromomethane	ND	ND	2.50		NA	OK

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MW34	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Carbon Disulfide	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Carbon Tetrachloride	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Chlorobenzene	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Chloroethane	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Chloroform	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Chloromethane	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01DL / S-6386.02DL	cis-1,2-Dichloroethylene	470	450	20.0	4.35	OK	NA
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	cis-1,3-Dichloropropene	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Cyclohexane	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Dibromochloromethane	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Dichlorodifluoromethane	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Ethylbenzene	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Isopropylbenzene (Cumene)	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	m,p-Xylene	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Methyl Acetate	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Methylcyclohexane	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Methylene Chloride	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	o-Xylene	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Styrene	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	tert-Butyl Methyl Ether (MTBE)	1.80 J	1.50 J	2.50	18.2	NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Tetrachloroethene (PCE)	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Toluene	ND	ND	2.50		NA	OK

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Location	Analysis
MW34	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	trans-1,2-Dichloroethene	25.0	20.0	2.50	22.2	OK	NA
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	trans-1,3-Dichloropropene	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Trichloroethene (TCE)	45.0	38.0	2.50	16.9	OK	NA
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Trichlorofluoromethane	ND	ND	2.50		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	Vinyl Chloride	ND	ND	2.50		NA	OK

Location	Analysis
MW34	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 26 2014	MW34-0314 / MW934-0314	F1794-01 / F1794-02	Calcium	126000	126000	5000	0.00	OK	NA
Mar 26 2014	MW34-0314 / MW934-0314	F1794-01 / F1794-02	Iron	1340	1250	100	6.95	OK	NA
Mar 26 2014	MW34-0314 / MW934-0314	F1794-01 / F1794-02	Magnesium	40300	40500	5000	0.495	OK	NA
Mar 26 2014	MW34-0314 / MW934-0314	F1794-01 / F1794-02	Potassium	ND	ND	5000		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	F1794-01 / F1794-02	Sodium	374000	373000	5000	0.268	OK	NA

Location	Analysis
MW34	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 26 2014	MW34-0314 / MW934-0314	F1794-01 / F1794-02	Aluminum	ND	ND	20.0		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	F1794-01 / F1794-02	Antimony	ND	ND	2.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	F1794-01 / F1794-02	Arsenic	100	102	1.00	1.98	OK	NA
Mar 26 2014	MW34-0314 / MW934-0314	F1794-01 / F1794-02	Barium	52.6	54.6	10.0	3.73	OK	NA
Mar 26 2014	MW34-0314 / MW934-0314	F1794-01 / F1794-02	Beryllium	ND	ND	1.00		NA	OK

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Location	Analysis
MW34	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 26 2014	MW34-0314 / MW934-0314	F1794-01 / F1794-02	Cadmium	ND	ND	1.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	F1794-01 / F1794-02	Chromium	7.50	5.00	2.00	40.0	Out	NA
Mar 26 2014	MW34-0314 / MW934-0314	F1794-01 / F1794-02	Cobalt	11.3	11.5	1.00	1.75	OK	NA
Mar 26 2014	MW34-0314 / MW934-0314	F1794-01 / F1794-02	Copper	1.40 J	2.70	2.00	63.4	NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	F1794-01 / F1794-02	Lead	0.640 J	0.620 J	1.00	3.17	NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	F1794-01 / F1794-02	Manganese	816	844	1.00	3.37	OK	NA
Mar 26 2014	MW34-0314 / MW934-0314	F1794-01 / F1794-02	Nickel	4.30	3.90	1.00	9.76	OK	NA
Mar 26 2014	MW34-0314 / MW934-0314	F1794-01 / F1794-02	Selenium	2.30 J	1.60 J	5.00	35.9	NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	F1794-01 / F1794-02	Silver	0.0600 J	0.0730 J	1.00	19.5	NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	F1794-01 / F1794-02	Thallium	ND	ND	1.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	F1794-01 / F1794-02	Vanadium	ND	ND	5.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	F1794-01 / F1794-02	Zinc	5.40	6.20	2.00	13.8	OK	NA

Location	Analysis
MW34	E300

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 26 2014	MW34-0314 / MW934-0314	1403070-09 / 1403070-07	Chloride	40.0	40.0	1.00	0.00	OK	NA
Mar 26 2014	MW34-0314 / MW934-0314	1403070-09RE1 / 1403070-07RE1	Sulfate (as SO4)	400	400	10.0	0.00	OK	NA

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Location	Analysis
MW34	E331.0

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 26 2014	MW34-0314 / MW934-0314	1403070-09 / 1403070-07	Perchlorate	ND	ND	0.300		NA	OK

Location	Analysis
MW34	E415.3

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 26 2014	MW34-0314 / MW934-0314	1403070-09 / 1403070-07	Total Organic Carbon	4.50	5.10	0.500	12.5	OK	NA

Location	Analysis
MW34	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	PCB-1016 (Arochlor 1016)	ND	ND	1.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	PCB-1221 (Arochlor 1221)	ND	ND	1.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	PCB-1232 (Arochlor 1232)	ND	ND	1.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	PCB-1242 (Arochlor 1242)	ND	ND	1.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	PCB-1248 (Arochlor 1248)	ND	ND	1.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	PCB-1254 (Arochlor 1254)	ND	ND	1.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	PCB-1260 (Arochlor 1260)	ND	ND	1.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	PCB-1262 (Arochlor 1262)	ND	ND	1.00		NA	OK
Mar 26 2014	MW34-0314 / MW934-0314	S-6386.01 / S-6386.02	PCB-1268 (Arochlor 1268)	ND	ND	1.00		NA	OK

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Location	Analysis
MW46	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	1,4-Dioxane (p-Dioxane)	ND	ND	0.500		NA	OK

Location	Analysis
MW46	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	1,1-Dichloroethane	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	1,1-Dichloroethene	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	1,2-Dichloroethane	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	1,2-Dichloropropane	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	2-Butanone (MEK)	ND	ND	5.00		NA	OK

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Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	2-Hexanone	ND	ND	5.00		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	Acetone	ND	ND	5.00		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	Benzene	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	Bromochloromethane	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	Bromodichloromethane	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	Bromoform	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	Bromomethane	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	Carbon Disulfide	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	Chlorobenzene	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	Chloroethane	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	Chloroform	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	Chloromethane	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09DL / S-5552.10DL	cis-1,2-Dichloroethylene	54.0	44.0	5.00	20.4	OK	NA
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	Cyclohexane	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	Dibromochloromethane	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	Ethylbenzene	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	m,p-Xylene	ND	ND	0.500		NA	OK

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Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	Methyl Acetate	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	Methylcyclohexane	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	Methylene Chloride	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	o-Xylene	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	Styrene	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	Toluene	0.190 J	0.160 J	0.500	17.1	NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	trans-1,2-Dichloroethene	2.90	2.70	0.500	7.14	OK	NA
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	Trichloroethene (TCE)	4.50	4.40	0.500	2.25	OK	NA
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	Trichlorofluoromethane	ND	ND	0.500		NA	OK
Mar 5 2013	SAIA-MW46-0313 / SAIA-MW46-1313	S-5552.09 / S-5552.10	Vinyl Chloride	ND	ND	0.500		NA	OK

Location	Analysis
MW49	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	1,4-Dioxane (p-Dioxane)	ND	ND	0.500		NA	OK

Location	Analysis
MW49	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK

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MW49	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	1,1-Dichloroethane	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	1,1-Dichloroethene	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	1,2-Dichloroethane	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	1,2-Dichloropropane	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	2-Butanone (MEK)	ND	ND	5.00		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	2-Hexanone	ND	ND	5.00		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	Acetone	ND	ND	5.00		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	Benzene	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	Bromochloromethane	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	Bromodichloromethane	ND	ND	0.500		NA	OK

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MW49	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	Bromoform	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	Bromomethane	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	Carbon Disulfide	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	Chlorobenzene	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	Chloroethane	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	Chloroform	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	Chloromethane	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	cis-1,2-Dichloroethylene	49.0	55.0	2.50	11.5	OK	NA
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	Cyclohexane	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	Dibromochloromethane	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	Ethylbenzene	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	m,p-Xylene	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	Methyl Acetate	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	Methylcyclohexane	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	Methylene Chloride	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	o-Xylene	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	Styrene	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK

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Location	Analysis
MW49	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	Toluene	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	trans-1,2-Dichloroethene	6.30	5.90	0.500	6.56	OK	NA
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	Trichloroethene (TCE)	1.60	1.60	0.500	0.00	OK	NA
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	Trichlorofluoromethane	ND	ND	0.500		NA	OK
Jul 15 2016	MW49-0716 / MW149-0716	S-1634.04 / S-1634.05	Vinyl Chloride	ND	ND	0.500		NA	OK

Location	Analysis
MW52	A2320

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 25 2014	MW52-0314 / MW952-0314	1403065-05 / 1403065-06	Alkalinity, Bicarbonate (as CaCO3)	760	780	10.0	2.60	OK	NA
Mar 25 2014	MW52-0314 / MW952-0314	1403065-05 / 1403065-06	Alkalinity, Carbonate (as CaCO3)	ND	ND	10.0		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	1403065-05 / 1403065-06	Alkalinity, Hydroxide (as CaCO3)	ND	ND	10.0		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	1403065-05 / 1403065-06	Alkalinity, Total (as CaCO3)	760	780	10.0	2.60	OK	NA

Location	Analysis
MW52	A2540C

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 25 2014	MW52-0314 / MW952-0314	1403065-05 / 1403065-06	Total Dissolved Solids	3200	3200	20.0	0.00	OK	NA

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Location	Analysis
MW52	C245.1

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 25 2014	MW52-0314 / MW952-0314	F1763-13 / F1763-14	Mercury	ND	ND	0.200		NA	OK

Location	Analysis
MW52	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	1,2,4,5-Tetrachlorobenzene	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	1,4-Dioxane (p-Dioxane)	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	2,3,4,6-Tetrachlorophenol	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	2,4,5-Trichlorophenol	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	2,4,6-Trichlorophenol	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	2,4-Dichlorophenol	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	2,4-Dimethylphenol	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	2,4-Dinitrophenol	ND	ND	10.0		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	2,4-Dinitrotoluene	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	2,6-Dinitrotoluene	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	2-Chloronaphthalene	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	2-Chlorophenol	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	2-Methylnaphthalene	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	2-Methylphenol (o-Cresol)	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	2-Nitroaniline	ND	ND	10.0		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	2-Nitrophenol	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	3,3'-Dichlorobenzidine	ND	ND	5.00		NA	OK

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MW52	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	3-Nitroaniline	ND	ND	10.0		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	4,6-Dinitro-2-Methylphenol	ND	ND	10.0		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	4-Bromophenyl phenyl ether	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	4-Chloro-3-Methylphenol	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	4-Chloroaniline	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	4-Chlorophenyl Phenyl Ether	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	4-Methylphenol (p-Cresol)	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	4-Nitroaniline	ND	ND	10.0		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	4-Nitrophenol	ND	ND	10.0		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Acenaphthene	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Acenaphthylene	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Acetophenone	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Anthracene	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Atrazine	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Benzaldehyde	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Benzo(a)anthracene	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Benzo(a)pyrene	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Benzo(b)fluoranthene	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Benzo(g,h,i)perylene	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Benzo(k)fluoranthene	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Benzyl butyl phthalate	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Biphenyl (Diphenyl)	ND	ND	5.00		NA	OK

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Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	bis(2-Chloroethoxy) Methane	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	bis(2-Chloroisopropyl) Ether	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	bis(2-Ethylhexyl) Phthalate	2.30	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Caprolactam	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Carbazole	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Chrysene	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Di-n-Butyl Phthalate	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Di-n-Octylphthalate	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Dibenz(a,h)anthracene	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Dibenzofuran	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Diethyl Phthalate	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Dimethyl Phthalate	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Fluoranthene	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Fluorene	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Hexachlorobenzene	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Hexachlorobutadiene	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Hexachlorocyclopentadiene	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Hexachloroethane	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Indeno(1,2,3-c,d)pyrene	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Isophorone	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	n-Nitrosodi-n-propylamine	ND	ND	5.00		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	n-Nitrosodiphenylamine	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Naphthalene	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Nitrobenzene	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Pentachlorophenol	ND	ND	10.0		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Phenanthrene	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Phenol	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Pyrene	ND	ND	5.00		NA	OK

Location	Analysis
MW52	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	1,1-Dichloroethane	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	1,1-Dichloroethene	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	1,2-Dichloroethane	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	1,2-Dichloropropane	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	2-Butanone (MEK)	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	2-Hexanone	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Acetone	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Benzene	2.40	2.10	0.500	13.3	OK	NA
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Bromochloromethane	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Bromodichloromethane	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Bromoform	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Bromomethane	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Carbon Disulfide	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Chlorobenzene	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Chloroethane	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Chloroform	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Chloromethane	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	cis-1,2-Dichloroethylene	18.0	16.0	0.500	11.8	OK	NA
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK

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Location	Analysis
MW52	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Cyclohexane	0.960	0.780	0.500	20.7	OK	NA
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Dibromochloromethane	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Ethylbenzene	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	m,p-Xylene	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Methyl Acetate	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Methylcyclohexane	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Methylene Chloride	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	o-Xylene	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Styrene	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Toluene	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	trans-1,2-Dichloroethene	5.00	4.20	0.500	17.4	OK	NA
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Trichloroethene (TCE)	6.10	5.60	0.500	8.55	OK	NA
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Trichlorofluoromethane	ND	ND	0.500		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	S-6380.02 / S-6380.03	Vinyl Chloride	ND	ND	0.500		NA	OK

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Location	Analysis
MW52	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 25 2014	MW52-0314 / MW952-0314	F1763-13 / F1763-14	Calcium	395000	395000	5000	0.00	OK	NA
Mar 25 2014	MW52-0314 / MW952-0314	F1763-13 / F1763-14	Iron	3710	3740	100	0.805	OK	NA
Mar 25 2014	MW52-0314 / MW952-0314	F1763-13 / F1763-14	Magnesium	142000	142000	5000	0.00	OK	NA
Mar 25 2014	MW52-0314 / MW952-0314	F1763-13 / F1763-14	Potassium	5750	5740	5000	0.174	OK	NA
Mar 25 2014	MW52-0314 / MW952-0314	F1763-13 / F1763-14	Sodium	340000	340000	5000	0.00	OK	NA

Location	Analysis
MW52	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 25 2014	MW52-0314 / MW952-0314	F1763-13 / F1763-14	Aluminum	52.9	83.5	20.0	44.9	Out	NA
Mar 25 2014	MW52-0314 / MW952-0314	F1763-13 / F1763-14	Antimony	ND	ND	2.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	F1763-13 / F1763-14	Arsenic	26.8	23.3	1.00	14.0	OK	NA
Mar 25 2014	MW52-0314 / MW952-0314	F1763-13 / F1763-14	Barium	46.8	45.8	10.0	2.16	OK	NA
Mar 25 2014	MW52-0314 / MW952-0314	F1763-13 / F1763-14	Beryllium	ND	ND	1.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	F1763-13 / F1763-14	Cadmium	ND	ND	1.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	F1763-13 / F1763-14	Chromium	5.10	7.60	2.00	39.4	Out	NA
Mar 25 2014	MW52-0314 / MW952-0314	F1763-13 / F1763-14	Cobalt	0.680 J	0.720 J	1.00	5.71	NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	F1763-13 / F1763-14	Copper	2.40	2.60	2.00	8.00	OK	NA
Mar 25 2014	MW52-0314 / MW952-0314	F1763-13 / F1763-14	Lead	0.800 J	0.410 J	1.00	64.5	NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	F1763-13 / F1763-14	Manganese	3520	3370	25.0	4.35	OK	NA
Mar 25 2014	MW52-0314 / MW952-0314	F1763-13 / F1763-14	Nickel	5.00	4.70	1.00	6.19	OK	NA
Mar 25 2014	MW52-0314 / MW952-0314	F1763-13 / F1763-14	Selenium	ND	ND	5.00		NA	OK

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Location	Analysis
MW52	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 25 2014	MW52-0314 / MW952-0314	F1763-13 / F1763-14	Silver	0.0610 J	0.0760 J	1.00	21.9	NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	F1763-13 / F1763-14	Thallium	ND	ND	1.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	F1763-13 / F1763-14	Vanadium	ND	ND	5.00		NA	OK
Mar 25 2014	MW52-0314 / MW952-0314	F1763-13 / F1763-14	Zinc	11.0	9.10	2.00	18.9	OK	NA

Location	Analysis
MW52	E300

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 25 2014	MW52-0314 / MW952-0314	1403065-05RE1 / 1403065-06RE1	Chloride	170	180	50.0	5.71	OK	NA
Mar 25 2014	MW52-0314 / MW952-0314	1403065-05RE1 / 1403065-06RE1	Sulfate (as SO4)	1500	1500	25.0	0.00	OK	NA

Location	Analysis
MW52	E415.3

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 25 2014	MW52-0314 / MW952-0314	1403065-05 / 1403065-06	Total Organic Carbon	4.90	4.90	0.500	0.00	OK	NA

Location	Analysis
SAIA-CPT03	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	1,4-Dioxane (p-Dioxane)	0.420 J	0.420 J	0.500	0.00	NA	OK

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Location	Analysis
SAIA-CPT03	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	1,1-Dichloroethane	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	1,1-Dichloroethene	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	1,2-Dichloroethane	0.390 J	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	1,2-Dichloropropane	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	2-Butanone (MEK)	ND	ND	5.00		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	2-Hexanone	ND	ND	5.00		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	Acetone	6.30	3.10 J	5.00	68.1	NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	Benzene	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	Bromochloromethane	ND	ND	0.500		NA	OK

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Location	Analysis
SAIA-CPT03	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	Bromodichloromethane	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	Bromoform	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	Bromomethane	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	Carbon Disulfide	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	Chlorobenzene	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	Chloroethane	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	Chloroform	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	Chloromethane	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	cis-1,2-Dichloroethylene	0.310 J	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	Cyclohexane	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	Dibromochloromethane	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	Ethylbenzene	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	m,p-Xylene	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	Methyl Acetate	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	Methylcyclohexane	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	Methylene Chloride	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	o-Xylene	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	Styrene	ND	ND	0.500		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	Toluene	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	trans-1,2-Dichloroethene	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	Trichloroethene (TCE)	0.210 J	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	Trichlorofluoromethane	ND	ND	0.500		NA	OK
Mar 13 2013	SAIA-CPT03-70 / SAIA-CPT03-71	S-5568.03 / S-5568.04	Vinyl Chloride	ND	ND	0.500		NA	OK

Location	Analysis
SAIA-CPT07	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02DL / S-5548.01DL	1,4-Dioxane (p-Dioxane)	15.0	20.0	2.50	28.6	OK	NA

Location	Analysis
SAIA-CPT07	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	1,1,1-Trichloroethane	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	1,1,2,2-Tetrachloroethane	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	1,1,2-Trichloroethane	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	1,1-Dichloroethane	2.00 J	2.30 J	10.0	14.0	NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	1,1-Dichloroethene	ND	ND	10.0		NA	OK

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Location	Analysis
SAIA-CPT07	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	1,2,3-Trichlorobenzene	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	1,2,3-Trichloropropane	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	1,2,4-Trichlorobenzene	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	1,2-Dibromo-3-chloropropane	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	1,2-Dibromoethane (EDB)	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	1,2-Dichlorobenzene	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	1,2-Dichloroethane	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	1,2-Dichloropropane	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	1,3-Dichlorobenzene	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	1,4-Dichlorobenzene	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	2-Butanone (MEK)	ND	ND	100		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	2-Hexanone	ND	ND	100		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	4-Methyl-2-pentanone (MIBK)	ND	ND	100		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	Acetone	ND	ND	100		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	Benzene	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	Bromochloromethane	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	Bromodichloromethane	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	Bromoform	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	Bromomethane	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	Carbon Disulfide	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	Carbon Tetrachloride	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	Chlorobenzene	ND	ND	10.0		NA	OK

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Location	Analysis
SAIA-CPT07	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	Chloroethane	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	Chloroform	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	Chloromethane	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02DL / S-5548.01DL	cis-1,2-Dichloroethylene	780	810	30.0	3.77	OK	NA
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	cis-1,3-Dichloropropene	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	Cyclohexane	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	Dibromochloromethane	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	Dichlorodifluoromethane	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	Ethylbenzene	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	Isopropylbenzene (Cumene)	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	m,p-Xylene	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	Methyl Acetate	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	Methylcyclohexane	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	Methylene Chloride	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	o-Xylene	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	Styrene	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	tert-Butyl Methyl Ether (MTBE)	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	Tetrachloroethene (PCE)	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	Toluene	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	trans-1,2-Dichloroethene	36.0	40.0	10.0	10.5	OK	NA
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	trans-1,3-Dichloropropene	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	Trichloroethene (TCE)	16.0	17.0	10.0	6.06	OK	NA

Data Quality Summary Report
Field Duplicate Report By Event and Site
Southern Avenue Industrial Area
SAIA SAP

Location	Analysis
SAIA-CPT07	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	Trichlorofluoromethane	ND	ND	10.0		NA	OK
Mar 1 2013	SAIA-CPT07-50 / SAIA-CPT07-51	S-5548.02 / S-5548.01	Vinyl Chloride	ND	ND	10.0		NA	OK

Location	Analysis
SAIA-CPT09	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	1,4-Dioxane (p-Dioxane)	ND	ND	0.500		NA	OK

Location	Analysis
SAIA-CPT09	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	1,1,1-Trichloroethane	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	1,1,2,2-Tetrachloroethane	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	1,1,2-Trichloroethane	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	1,1-Dichloroethane	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	1,1-Dichloroethene	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	1,2,3-Trichlorobenzene	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	1,2,3-Trichloropropane	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	1,2,4-Trichlorobenzene	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	1,2-Dibromo-3-chloropropane	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	1,2-Dibromoethane (EDB)	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	1,2-Dichlorobenzene	ND	ND	2.00		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Southern Avenue Industrial Area
SAIA SAP

Location	Analysis
SAIA-CPT09	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	1,2-Dichloroethane	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	1,2-Dichloropropane	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	1,3-Dichlorobenzene	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	1,4-Dichlorobenzene	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	2-Butanone (MEK)	ND	ND	20.0		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	2-Hexanone	ND	ND	20.0		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	4-Methyl-2-pentanone (MIBK)	ND	ND	20.0		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	Acetone	ND	ND	20.0		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	Benzene	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	Bromochloromethane	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	Bromodichloromethane	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	Bromoform	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	Bromomethane	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	Carbon Disulfide	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	Carbon Tetrachloride	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	Chlorobenzene	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	Chloroethane	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	Chloroform	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	Chloromethane	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02DL / S-5555.01DL	cis-1,2-Dichloroethylene	110	140	4.00	24.0	OK	NA
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	cis-1,3-Dichloropropene	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	Cyclohexane	ND	ND	2.00		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Southern Avenue Industrial Area
SAIA SAP

Location	Analysis
SAIA-CPT09	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	Dibromochloromethane	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	Dichlorodifluoromethane	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	Ethylbenzene	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	Isopropylbenzene (Cumene)	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	m,p-Xylene	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	Methyl Acetate	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	Methylcyclohexane	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	Methylene Chloride	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	o-Xylene	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	Styrene	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	tert-Butyl Methyl Ether (MTBE)	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	Tetrachloroethene (PCE)	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	Toluene	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	trans-1,2-Dichloroethene	12.0	16.0	2.00	28.6	OK	NA
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	trans-1,3-Dichloropropene	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	Trichloroethene (TCE)	0.560 J	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	Trichlorofluoromethane	ND	ND	2.00		NA	OK
Mar 6 2013	SAIA-CPT09-50 / SAIA-CPT09-51	S-5554.02 / S-5555.01	Vinyl Chloride	ND	ND	2.00		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Southern Avenue Industrial Area
SAIA SAP

Location	Analysis
SAIA-CPT11	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	1,4-Dioxane (p-Dioxane)	1.60	1.10	0.500	37.0	Out	NA

Location	Analysis
SAIA-CPT11	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	1,1-Dichloroethane	0.380 J	0.400 J	0.500	5.13	NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	1,1-Dichloroethene	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	1,2-Dichloroethane	1.40	1.50	0.500	6.90	OK	NA
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	1,2-Dichloropropane	0.220 J	0.270 J	0.500	20.4	NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	2-Butanone (MEK)	ND	ND	5.00		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Southern Avenue Industrial Area
SAIA SAP

Location	Analysis
SAIA-CPT11	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	2-Hexanone	ND	ND	5.00		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	Acetone	ND	ND	5.00		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	Benzene	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	Bromochloromethane	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	Bromodichloromethane	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	Bromoform	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	Bromomethane	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	Carbon Disulfide	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	Chlorobenzene	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	Chloroethane	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	Chloroform	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	Chloromethane	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02DL / S-5593.01DL	cis-1,2-Dichloroethylene	160	160	10.0	0.00	OK	NA
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	Cyclohexane	0.120 J	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	Dibromochloromethane	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	Ethylbenzene	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	m,p-Xylene	ND	ND	0.500		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
Southern Avenue Industrial Area
SAIA SAP

Location	Analysis
SAIA-CPT11	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	Methyl Acetate	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	Methylcyclohexane	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	Methylene Chloride	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	o-Xylene	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	Styrene	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	Toluene	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	trans-1,2-Dichloroethene	13.0	14.0	0.500	7.41	OK	NA
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	Trichloroethene (TCE)	2.80	2.90	0.500	3.51	OK	NA
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	Trichlorofluoromethane	ND	ND	0.500		NA	OK
Mar 20 2013	SAIA-CPT11-90 / SAIA-CPT11-91	S-5593.02 / S-5593.01	Vinyl Chloride	ND	ND	0.500		NA	OK

Location	Analysis
SAIA-CPT14	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,4-Dioxane (p-Dioxane)	ND	0.370 J	0.500		NA	OK

Location	Analysis
SAIA-CPT14	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK

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Location	Analysis
SAIA-CPT14	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,1-Dichloroethane	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,1-Dichloroethene	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,2-Dichloroethane	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,2-Dichloropropane	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	2-Butanone (MEK)	ND	ND	5.00		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	2-Hexanone	ND	ND	5.00		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Acetone	ND	ND	5.00		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Benzene	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Bromochloromethane	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Bromodichloromethane	ND	ND	0.500		NA	OK

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Location	Analysis
SAIA-CPT14	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Bromoform	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Bromomethane	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Carbon Disulfide	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Chlorobenzene	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Chloroethane	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Chloroform	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Chloromethane	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	cis-1,2-Dichloroethylene	130	140	0.500	7.41	OK	NA
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Cyclohexane	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Dibromochloromethane	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Ethylbenzene	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	m,p-Xylene	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Methyl Acetate	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Methylcyclohexane	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Methylene Chloride	ND	0.260 J	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	o-Xylene	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Styrene	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK

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Location	Analysis
SAIA-CPT14	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Toluene	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	trans-1,2-Dichloroethene	7.10	8.40	0.500	16.8	OK	NA
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Trichloroethene (TCE)	2.70	3.10	0.500	13.8	OK	NA
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Trichlorofluoromethane	ND	ND	0.500		NA	OK
Jul 23 2015	SAIA-CPT14-75 / SAIA-CPT14-76	S-1123.03 / S-1123.02	Vinyl Chloride	ND	ND	0.500		NA	OK

Location	Analysis
SAIA-CPT15	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,4-Dioxane (p-Dioxane)	ND	ND	0.500		NA	OK

Location	Analysis
SAIA-CPT15	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,1,1-Trichloroethane	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,1,2,2-Tetrachloroethane	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,1,2-Trichloroethane	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,1-Dichloroethane	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,1-Dichloroethene	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,2,3-Trichlorobenzene	ND	ND	2.00		NA	OK

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Location	Analysis
SAIA-CPT15	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,2,3-Trichloropropane	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,2,4-Trichlorobenzene	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,2-Dibromo-3-chloropropane	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,2-Dibromoethane (EDB)	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,2-Dichlorobenzene	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,2-Dichloroethane	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,2-Dichloropropane	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,3-Dichlorobenzene	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	1,4-Dichlorobenzene	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	2-Butanone (MEK)	ND	ND	20.0		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	2-Hexanone	ND	ND	20.0		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	4-Methyl-2-pentanone (MIBK)	ND	ND	20.0		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Acetone	ND	ND	20.0		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Benzene	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Bromochloromethane	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Bromodichloromethane	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Bromoform	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Bromomethane	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Carbon Disulfide	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Carbon Tetrachloride	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Chlorobenzene	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Chloroethane	ND	ND	2.00		NA	OK

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Location	Analysis
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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Chloroform	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Chloromethane	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	cis-1,2-Dichloroethylene	250	270	2.00	7.69	OK	NA
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	cis-1,3-Dichloropropene	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Cyclohexane	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Dibromochloromethane	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Dichlorodifluoromethane	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Ethylbenzene	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Isopropylbenzene (Cumene)	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	m,p-Xylene	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Methyl Acetate	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Methylcyclohexane	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Methylene Chloride	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	o-Xylene	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Styrene	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	tert-Butyl Methyl Ether (MTBE)	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Tetrachloroethene (PCE)	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Toluene	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	trans-1,2-Dichloroethene	25.0	24.0	2.00	4.08	OK	NA
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	trans-1,3-Dichloropropene	ND	ND	2.00		NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Trichloroethene (TCE)	2.40	2.20 J	2.00	8.70	NA	OK
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Trichlorofluoromethane	ND	ND	2.00		NA	OK

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Location	Analysis
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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 28 2015	SAIA-CPT15-90 / SAIA-CPT15-91	S-1137.02 / S-1137.03	Vinyl Chloride	ND	ND	2.00		NA	OK

Location	Analysis
SAIA-CPT17	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,4-Dioxane (p-Dioxane)	2.10	1.40	0.500	40.0	Out	NA

Location	Analysis
SAIA-CPT17	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,1-Dichloroethane	1.30	1.40	0.500	7.41	OK	NA
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,1-Dichloroethene	3.40	3.60	0.500	5.71	OK	NA
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,2-Dichloroethane	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,2-Dichloropropane	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	2-Butanone (MEK)	ND	ND	5.00		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	2-Hexanone	ND	ND	5.00		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Acetone	ND	ND	5.00		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Benzene	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Bromochloromethane	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Bromodichloromethane	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Bromoform	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Bromomethane	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Carbon Disulfide	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Chlorobenzene	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Chloroethane	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Chloroform	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Chloromethane	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	cis-1,2-Dichloroethylene	37.0	40.0	0.500	7.79	OK	NA
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Cyclohexane	ND	ND	0.500		NA	OK

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Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Dibromochloromethane	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Ethylbenzene	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	m,p-Xylene	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Methyl Acetate	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Methylcyclohexane	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Methylene Chloride	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	o-Xylene	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Styrene	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Toluene	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	trans-1,2-Dichloroethene	5.10	5.60	0.500	9.35	OK	NA
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Trichloroethene (TCE)	13.0	14.0	0.500	7.41	OK	NA
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Trichlorofluoromethane	ND	ND	0.500		NA	OK
Jul 30 2015	SAIA-CPT17-75 / SAIA-CPT17-76	S-1145.03 / S-1145.04	Vinyl Chloride	ND	ND	0.500		NA	OK

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Location	Analysis
SAIA-CPT20	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,4-Dioxane (p-Dioxane)	0.350 J	0.420 J	0.500	18.2	NA	OK

Location	Analysis
SAIA-CPT20	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,1-Dichloroethane	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,1-Dichloroethene	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,2-Dichloroethane	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,2-Dichloropropane	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	2-Butanone (MEK)	ND	ND	5.00		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	2-Hexanone	ND	ND	5.00		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Acetone	ND	ND	5.00		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Benzene	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Bromochloromethane	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Bromodichloromethane	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Bromoform	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Bromomethane	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Carbon Disulfide	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Chlorobenzene	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Chloroethane	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Chloroform	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Chloromethane	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	cis-1,2-Dichloroethylene	20.0	18.0	0.500	10.5	OK	NA
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Cyclohexane	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Dibromochloromethane	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Ethylbenzene	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	m,p-Xylene	ND	ND	0.500		NA	OK

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Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Methyl Acetate	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Methylcyclohexane	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Methylene Chloride	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	o-Xylene	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Styrene	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Toluene	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	trans-1,2-Dichloroethene	3.50	3.60	0.500	2.82	OK	NA
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Trichloroethene (TCE)	2.00	2.00	0.500	0.00	OK	NA
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Trichlorofluoromethane	ND	ND	0.500		NA	OK
Jul 27 2015	SAIA-CPT20-75 / SAIA-CPT20-76	S-1127.02 / S-1127.03	Vinyl Chloride	ND	ND	0.500		NA	OK

Location	Analysis
SAIA-HP17	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	1,4-Dioxane (p-Dioxane)	1.70	1.10	0.500	42.9	Out	NA

Location	Analysis
SAIA-HP17	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	1,1,1-Trichloroethane	ND	ND	2.00		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	1,1,2,2-Tetrachloroethane	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	1,1,2-Trichloroethane	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	1,1-Dichloroethane	0.320 J	0.270 J	2.00	16.9	NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	1,1-Dichloroethene	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	1,2,3-Trichlorobenzene	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	1,2,3-Trichloropropane	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	1,2,4-Trichlorobenzene	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	1,2-Dibromo-3-chloropropane	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	1,2-Dibromoethane (EDB)	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	1,2-Dichlorobenzene	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	1,2-Dichloroethane	32.0	25.0	2.00	24.6	OK	NA
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	1,2-Dichloropropane	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	1,3-Dichlorobenzene	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	1,4-Dichlorobenzene	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	2-Butanone (MEK)	ND	ND	20.0		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	2-Hexanone	ND	ND	20.0		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	4-Methyl-2-pentanone (MIBK)	ND	ND	20.0		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	Acetone	12.0 J	10.0 J	20.0	18.2	NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	Benzene	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	Bromochloromethane	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	Bromodichloromethane	ND	ND	2.00		NA	OK

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Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	Bromoform	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	Bromomethane	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	Carbon Disulfide	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	Carbon Tetrachloride	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	Chlorobenzene	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	Chloroethane	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	Chloroform	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	Chloromethane	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	cis-1,2-Dichloroethylene	62.0	50.0	2.00	21.4	OK	NA
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	cis-1,3-Dichloropropene	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	Cyclohexane	1.40 J	1.10 J	2.00	24.0	NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	Dibromochloromethane	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	Dichlorodifluoromethane	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	Ethylbenzene	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	Isopropylbenzene (Cumene)	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	m,p-Xylene	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	Methyl Acetate	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	Methylcyclohexane	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	Methylene Chloride	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	o-Xylene	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	Styrene	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	tert-Butyl Methyl Ether (MTBE)	ND	ND	2.00		NA	OK

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Location	Analysis
SAIA-HP17	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	Tetrachloroethene (PCE)	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	Toluene	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	trans-1,2-Dichloroethene	3.50	2.90	2.00	18.8	OK	NA
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	trans-1,3-Dichloropropene	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02DL / S-5560.01DL	Trichloroethene (TCE)	88.0	110	5.00	22.2	OK	NA
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	Trichlorofluoromethane	ND	ND	2.00		NA	OK
Mar 11 2013	SAIA-HP17-50 / SAIA-HP17-51	S-5560.02 / S-5560.01	Vinyl Chloride	ND	ND	2.00		NA	OK

Location	Analysis
SAIA-HP18	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04DL / S-5561.05DL	1,4-Dioxane (p-Dioxane)	13.0	11.0	2.50	16.7	OK	NA

Location	Analysis
SAIA-HP18	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	1,1,1-Trichloroethane	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	1,1,2,2-Tetrachloroethane	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	1,1,2-Trichloroethane	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	1,1-Dichloroethane	5.80	8.50	5.00	37.8	Out	NA
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	1,1-Dichloroethene	7.30	11.0	5.00	40.4	Out	NA
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	1,2,3-Trichlorobenzene	ND	ND	5.00		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	1,2,3-Trichloropropane	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	1,2,4-Trichlorobenzene	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	1,2-Dibromo-3-chloropropane	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	1,2-Dibromoethane (EDB)	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	1,2-Dichlorobenzene	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	1,2-Dichloroethane	29.0	52.0	5.00	56.8	Out	NA
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	1,2-Dichloropropane	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	1,3-Dichlorobenzene	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	1,4-Dichlorobenzene	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	2-Butanone (MEK)	ND	ND	50.0		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	2-Hexanone	ND	ND	50.0		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	4-Methyl-2-pentanone (MIBK)	ND	ND	50.0		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	Acetone	21.0 J	ND	50.0		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	Benzene	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	Bromochloromethane	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	Bromodichloromethane	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	Bromoform	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	Bromomethane	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	Carbon Disulfide	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	Carbon Tetrachloride	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	Chlorobenzene	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	Chloroethane	ND	ND	5.00		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	Chloroform	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	Chloromethane	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04DL / S-5561.05DL	cis-1,2-Dichloroethylene	460	960	50.0	70.4	Out	NA
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	cis-1,3-Dichloropropene	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	Cyclohexane	2.20 J	3.80 J	5.00	53.3	NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	Dibromochloromethane	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	Dichlorodifluoromethane	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	Ethylbenzene	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	Isopropylbenzene (Cumene)	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	m,p-Xylene	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	Methyl Acetate	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	Methylcyclohexane	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	Methylene Chloride	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	o-Xylene	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	Styrene	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	tert-Butyl Methyl Ether (MTBE)	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	Tetrachloroethene (PCE)	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	Toluene	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	trans-1,2-Dichloroethene	66.0	100	5.00	41.0	Out	NA
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	trans-1,3-Dichloropropene	ND	ND	5.00		NA	OK
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04DL / S-5561.05DL	Trichloroethene (TCE)	180	410	50.0	78.0	Out	NA
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	Trichlorofluoromethane	ND	ND	5.00		NA	OK

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Location	Analysis
SAIA-HP18	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 12 2013	SAIA-HP18-90 / SAIA-HP18-91	S-5561.04 / S-5561.05	Vinyl Chloride	ND	ND	5.00		NA	OK

Location	Analysis
SAIA-MW11C	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	1,4-Dioxane (p-Dioxane)	ND	ND	0.500		NA	OK

Location	Analysis
SAIA-MW11C	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	1,1-Dichloroethane	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	1,1-Dichloroethene	0.270 J	0.300 J	0.500	10.5	NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK

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Location	Analysis
SAIA-MW11C	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	1,2-Dichloroethane	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	1,2-Dichloropropane	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	2-Butanone (MEK)	ND	ND	5.00		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	2-Hexanone	ND	ND	5.00		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	Acetone	ND	ND	5.00		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	Benzene	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	Bromochloromethane	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	Bromodichloromethane	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	Bromoform	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	Bromomethane	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	Carbon Disulfide	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	Chlorobenzene	ND	ND	0.500		NA	OK

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Location	Analysis
SAIA-MW11C	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	Chloroethane	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	Chloroform	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	Chloromethane	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	cis-1,2-Dichloroethylene	55.0	61.0	2.50	10.3	OK	NA
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	Cyclohexane	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	Dibromochloromethane	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	Ethylbenzene	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	m,p-Xylene	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	Methyl Acetate	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	Methylcyclohexane	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	Methylene Chloride	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	o-Xylene	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	Styrene	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK

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Location	Analysis
SAIA-MW11C	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	Toluene	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	trans-1,2-Dichloroethene	7.20	6.40	0.500	11.8	OK	NA
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	Trichloroethene (TCE)	11.0	9.40	0.500	15.7	OK	NA
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	Trichlorofluoromethane	ND	ND	0.500		NA	OK
Sep 22 2016	SAIA-MW11C-0916 / SAIA-MW111C-0916	501152203 / 501152204	Vinyl Chloride	ND	ND	0.500		NA	OK

Location	Analysis
SAIA-MW1B	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	1,4-Dioxane (p-Dioxane)	ND	ND	0.500		NA	OK

Location	Analysis
SAIA-MW1B	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	1,1-Dichloroethane	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	1,1-Dichloroethene	ND	ND	0.500		NA	OK

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Location	Analysis
SAIA-MW1B	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	1,2-Dichloroethane	0.580	0.640	0.500	9.84	OK	NA
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	1,2-Dichloropropane	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	2-Butanone (MEK)	ND	ND	5.00		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	2-Hexanone	ND	ND	5.00		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	Acetone	ND	ND	5.00		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	Benzene	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	Bromochloromethane	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	Bromodichloromethane	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	Bromoform	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	Bromomethane	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	Carbon Disulfide	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	Chlorobenzene	ND	ND	0.500		NA	OK

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Location	Analysis
SAIA-MW1B	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	Chloroethane	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	Chloroform	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	Chloromethane	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	cis-1,2-Dichloroethylene	14.0	15.0	0.500	6.90	OK	NA
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	Cyclohexane	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	Dibromochloromethane	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	Ethylbenzene	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	m,p-Xylene	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	Methyl Acetate	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	Methylcyclohexane	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	Methylene Chloride	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	o-Xylene	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	Styrene	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	Toluene	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	trans-1,2-Dichloroethene	2.00	2.50	0.500	22.2	OK	NA
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	Trichloroethene (TCE)	0.840	0.820	0.500	2.41	OK	NA

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Location	Analysis
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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	Trichlorofluoromethane	ND	ND	0.500		NA	OK
Jul 14 2016	SAIA-MW1B-0716 / SAIA-MW91B-0716	S-1629.02 / S-1629.03	Vinyl Chloride	ND	ND	0.500		NA	OK

Location	Analysis
SAIA-MW2A	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04RE1 / 1408075-05RE1	1,4-Dioxane (p-Dioxane)	16.0	15.0	1.40	6.45	OK	NA

Location	Analysis
SAIA-MW2A	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	1,1,2-Trichloroethane	0.450 J	0.470 J	0.500	4.35	NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	1,1-Dichloroethane	7.20	7.00	0.500	2.82	OK	NA
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	1,1-Dichloroethene	7.70	7.70	0.500	0.00	OK	NA
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK

Data Quality Summary Report
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Location	Analysis
SAIA-MW2A	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	1,2-Dichloroethane	0.250 J	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	1,2-Dichloropropane	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	2-Butanone (MEK)	ND	ND	5.00		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	2-Hexanone	ND	ND	5.00		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	Acetone	ND	ND	5.30		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	Benzene	0.350 J	0.350 J	0.500	0.00	NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	Bromochloromethane	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	Bromodichloromethane	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	Bromoform	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	Bromomethane	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	Carbon Disulfide	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	Chlorobenzene	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	Chloroethane	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	Chloroform	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	Chloromethane	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04RE1 / 1408075-05RE1	cis-1,2-Dichloroethylene	2500	2400	130	4.08	OK	NA
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK

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Location	Analysis
SAIA-MW2A	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	Cyclohexane	0.140 J	0.150 J	0.500	6.90	NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	Dibromochloromethane	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	Ethylbenzene	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	m,p-Xylene	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	Methyl Acetate	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	Methylcyclohexane	0.170 J	0.160 J	0.500	6.06	NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	Methylene Chloride	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	o-Xylene	0.0830 J	0.0870 J	0.500	4.71	NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	Styrene	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	Toluene	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04RE1 / 1408075-05RE1	trans-1,2-Dichloroethene	110 J	120 J	130	8.70	NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04RE1 / 1408075-05RE1	Trichloroethene (TCE)	1300	1300	130	0.00	OK	NA
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	Trichlorofluoromethane	ND	ND	0.500		NA	OK
Aug 25 2014	SAIA-MW2A-0814 / SAIA-MW92A-0814	1408075-04 / 1408075-05	Vinyl Chloride	5.50	5.30	0.500	3.70	OK	NA

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Location	Analysis
SAIA-MW3C	A2320

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	1403056-05 / 1403056-10	Alkalinity, Bicarbonate (as CaCO3)	510	490	10.0	4.00	OK	NA
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	1403056-05 / 1403056-10	Alkalinity, Carbonate (as CaCO3)	ND	ND	10.0		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	1403056-05 / 1403056-10	Alkalinity, Hydroxide (as CaCO3)	ND	ND	10.0		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	1403056-05 / 1403056-10	Alkalinity, Total (as CaCO3)	510	490	10.0	4.00	OK	NA

Location	Analysis
SAIA-MW3C	A2540C

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	1403056-05 / 1403056-10	Total Dissolved Solids	3300	3400	20.0	2.99	OK	NA

Location	Analysis
SAIA-MW3C	C245.1

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	F1763-05 / F1763-06	Mercury	ND	ND	0.200		NA	OK

Location	Analysis
SAIA-MW3C	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	1,2,4,5-Tetrachlorobenzene	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	1,4-Dioxane (p-Dioxane)	1.50	1.60	0.500	6.45	OK	NA
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	2,3,4,6-Tetrachlorophenol	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	2,4,5-Trichlorophenol	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	2,4,6-Trichlorophenol	ND	ND	5.00		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	2,4-Dichlorophenol	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	2,4-Dimethylphenol	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	2,4-Dinitrophenol	ND	ND	10.0		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	2,4-Dinitrotoluene	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	2,6-Dinitrotoluene	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	2-Chloronaphthalene	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	2-Chlorophenol	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	2-Methylnaphthalene	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	2-Methylphenol (o-Cresol)	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	2-Nitroaniline	ND	ND	10.0		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	2-Nitrophenol	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	3,3'-Dichlorobenzidine	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	3-Nitroaniline	ND	ND	10.0		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	4,6-Dinitro-2-Methylphenol	ND	ND	10.0		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	4-Bromophenyl phenyl ether	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	4-Chloro-3-Methylphenol	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	4-Chloroaniline	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	4-Chlorophenyl Phenyl Ether	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	4-Methylphenol (p-Cresol)	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	4-Nitroaniline	ND	ND	10.0		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	4-Nitrophenol	ND	ND	10.0		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Acenaphthene	ND	ND	5.00		NA	OK

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Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Acenaphthylene	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Acetophenone	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Anthracene	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Atrazine	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Benzaldehyde	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Benzo(a)anthracene	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Benzo(a)pyrene	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Benzo(b)fluoranthene	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Benzo(g,h,i)perylene	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Benzo(k)fluoranthene	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Benzyl butyl phthalate	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Biphenyl (Diphenyl)	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	bis(2-Chloroethoxy) Methane	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	bis(2-Chloroisopropyl) Ether	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	bis(2-Ethylhexyl) Phthalate	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Caprolactam	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Carbazole	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Chrysene	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Di-n-Butyl Phthalate	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Di-n-Octylphthalate	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Dibenz(a,h)anthracene	ND	ND	5.00		NA	OK

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Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Dibenzofuran	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Diethyl Phthalate	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Dimethyl Phthalate	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Fluoranthene	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Fluorene	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Hexachlorobenzene	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Hexachlorobutadiene	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Hexachlorocyclopentadiene	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Hexachloroethane	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Indeno(1,2,3-c,d)pyrene	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Isophorone	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	n-Nitrosodi-n-propylamine	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	n-Nitrosodiphenylamine	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Naphthalene	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Nitrobenzene	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Pentachlorophenol	ND	ND	10.0		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Phenanthrene	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Phenol	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Pyrene	ND	ND	5.00		NA	OK

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Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	1,1-Dichloroethane	0.200	0.200	0.500	0.00	NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	1,1-Dichloroethene	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	1,2,3-Trichlorobenzene	ND	0.320	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	1,2,4-Trichlorobenzene	ND	0.130	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	1,2-Dichloroethane	1.80	1.60	0.500	11.8	OK	NA
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	1,2-Dichloropropane	0.230	0.250	0.500	8.33	NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	1,3-Dichlorobenzene	ND	0.0950	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	2-Butanone (MEK)	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	2-Hexanone	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Acetone	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Benzene	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Bromochloromethane	ND	ND	0.500		NA	OK

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Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Bromodichloromethane	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Bromoform	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Bromomethane	ND	0.120	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Carbon Disulfide	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Chlorobenzene	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Chloroethane	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Chloroform	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Chloromethane	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06DL / S-6376.07DL	cis-1,2-Dichloroethylene	38.0	37.0	2.50	2.67	OK	NA
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Cyclohexane	0.160	0.160	0.500	0.00	NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Dibromochloromethane	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Ethylbenzene	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	m,p-Xylene	ND	0.0500	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Methyl Acetate	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Methylcyclohexane	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Methylene Chloride	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	o-Xylene	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Styrene	ND	0.0360	0.500		NA	OK

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Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Toluene	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	trans-1,2-Dichloroethene	2.50	2.50	0.500	0.00	OK	NA
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Trichloroethene (TCE)	2.10	2.00	0.500	4.88	OK	NA
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Trichlorofluoromethane	ND	ND	0.500		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	S-6376.06 / S-6376.07	Vinyl Chloride	ND	ND	0.500		NA	OK

Location	Analysis
SAIA-MW3C	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	F1763-05 / F1763-06	Calcium	497000	499000	5000	0.402	OK	NA
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	F1763-05 / F1763-06	Iron	3710	3490	100	6.11	OK	NA
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	F1763-05 / F1763-06	Magnesium	154000	155000	5000	0.647	OK	NA
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	F1763-05 / F1763-06	Potassium	6850	6750	5000	1.47	OK	NA
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	F1763-05 / F1763-06	Sodium	308000	307000	5000	0.325	OK	NA

Location	Analysis
SAIA-MW3C	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	F1763-05 / F1763-06	Aluminum	235	161	20.0	37.4	Out	NA
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	F1763-05 / F1763-06	Antimony	ND	ND	2.00		NA	OK

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Location	Analysis
SAIA-MW3C	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	F1763-05 / F1763-06	Arsenic	6.40	6.40	1.00	0.00	OK	NA
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	F1763-05 / F1763-06	Barium	59.8	58.1	10.0	2.88	OK	NA
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	F1763-05 / F1763-06	Beryllium	ND	ND	1.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	F1763-05 / F1763-06	Cadmium	ND	ND	1.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	F1763-05 / F1763-06	Chromium	7.80	8.40	2.00	7.41	OK	NA
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	F1763-05 / F1763-06	Cobalt	0.620 J	0.560 J	1.00	10.2	NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	F1763-05 / F1763-06	Copper	3.00	2.60	2.00	14.3	OK	NA
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	F1763-05 / F1763-06	Lead	0.750 J	0.460 J	1.00	47.9	NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	F1763-05 / F1763-06	Manganese	3050	2970	25.0	2.66	OK	NA
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	F1763-05 / F1763-06	Nickel	7.50	7.00	1.00	6.90	OK	NA
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	F1763-05 / F1763-06	Selenium	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	F1763-05 / F1763-06	Silver	0.0520 J	0.0660 J	1.00	23.7	NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	F1763-05 / F1763-06	Thallium	ND	ND	1.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	F1763-05 / F1763-06	Vanadium	ND	ND	5.00		NA	OK
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	F1763-05 / F1763-06	Zinc	14.2	8.70	2.00	48.0	Out	NA

Location	Analysis
SAIA-MW3C	E300

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	1403056-05RE1 / 1403056-10RE1	Chloride	680	670	50.0	1.48	OK	NA
Mar 24 2014	SAIA-MW3C-0314 / SAIA-MW93C-0314	1403056-05RE1 / 1403056-10RE1	Sulfate (as SO4)	1300	1200	25.0	8.00	OK	NA

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Location	Analysis
SAIA-MW4B	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16RE1 / 1408075-17RE1	1,4-Dioxane (p-Dioxane)	60.0	59.0	4.70	1.68	OK	NA

Location	Analysis
SAIA-MW4B	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	1,1,2-Trichloroethane	1.10	1.10	0.500	0.00	OK	NA
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	1,1-Dichloroethane	18.0	18.0	0.500	0.00	OK	NA
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	1,1-Dichloroethene	6.60	6.60	0.500	0.00	OK	NA
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	1,2-Dichloroethane	0.720	0.690	0.500	4.26	OK	NA
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	1,2-Dichloropropane	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	2-Butanone (MEK)	ND	ND	5.00		NA	OK

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Location	Analysis
SAIA-MW4B	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	2-Hexanone	ND	ND	5.00		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	Acetone	ND	ND	5.00		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	Benzene	0.550	0.550	0.500	0.00	OK	NA
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	Bromochloromethane	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	Bromodichloromethane	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	Bromoform	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	Bromomethane	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	Carbon Disulfide	1.30	1.20	0.500	8.00	OK	NA
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	Chlorobenzene	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	Chloroethane	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	Chloroform	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	Chloromethane	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16RE1 / 1408075-17RE1	cis-1,2-Dichloroethylene	4800	4800	250	0.00	OK	NA
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	Cyclohexane	0.170 J	0.170 J	0.500	0.00	NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	Dibromochloromethane	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	Ethylbenzene	0.0340 J	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	m,p-Xylene	ND	ND	0.500		NA	OK

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SAIA-MW4B	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	Methyl Acetate	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	Methylcyclohexane	0.190 J	0.180 J	0.500	5.41	NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	Methylene Chloride	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	o-Xylene	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	Styrene	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	Toluene	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16RE1 / 1408075-17RE1	trans-1,2-Dichloroethene	180 J	180 J	250	0.00	NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16RE1 / 1408075-17RE1	Trichloroethene (TCE)	150 J	150 J	250	0.00	NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	Trichlorofluoromethane	ND	ND	0.500		NA	OK
Aug 26 2014	SAIA-MW4B-0814 / SAIA-MW94B-0814	1408075-16 / 1408075-17	Vinyl Chloride	6.50	6.50	0.500	0.00	OK	NA

Location	Analysis
SAIA-MW5A	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	1,4-Dioxane (p-Dioxane)	1.00	1.30	0.500	26.1	OK	NA

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Location	Analysis
SAIA-MW5A	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	1,1-Dichloroethane	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	1,1-Dichloroethene	ND	0.660	0.500		NA	0.66
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	1,2-Dichloroethane	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	1,2-Dichloropropane	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	1,3-Dichlorobenzene	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	1,4-Dichlorobenzene	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	2-Butanone (MEK)	ND	ND	5.00		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	2-Hexanone	ND	ND	5.00		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	Acetone	ND	ND	5.00		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	Benzene	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	Bromochloromethane	ND	ND	0.500		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	Bromodichloromethane	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	Bromoform	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	Bromomethane	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	Carbon Disulfide	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	Chlorobenzene	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	Chloroethane	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	Chloroform	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	Chloromethane	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	cis-1,2-Dichloroethylene	210	220	10.0	4.65	OK	NA
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	Cyclohexane	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	Dibromochloromethane	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	Ethylbenzene	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	m,p-Xylene	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	Methyl Acetate	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	Methylcyclohexane	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	Methylene Chloride	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	o-Xylene	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	Styrene	ND	ND	0.500		NA	OK

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Location	Analysis
SAIA-MW5A	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	Toluene	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	trans-1,2-Dichloroethene	19.0	17.0	0.500	11.1	OK	NA
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	Trichloroethene (TCE)	1.30	1.20	0.500	8.00	OK	NA
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	Trichlorofluoromethane	ND	ND	0.500		NA	OK
Jul 20 2016	SAIA-MW5A-0716 / SAIA-MW95A-0716	S-1644.01 / S-1644.02	Vinyl Chloride	ND	ND	0.500		NA	OK

Location	Analysis
SAIA-MW7	A2320

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	1403072-03 / 1403072-04	Alkalinity, Bicarbonate (as CaCO3)	420	420	10.0	0.00	OK	NA
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	1403072-03 / 1403072-04	Alkalinity, Carbonate (as CaCO3)	ND	ND	10.0		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	1403072-03 / 1403072-04	Alkalinity, Hydroxide (as CaCO3)	ND	ND	10.0		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	1403072-03 / 1403072-04	Alkalinity, Total (as CaCO3)	420	420	10.0	0.00	OK	NA

Location	Analysis
SAIA-MW7	A2540C

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	1403072-03 / 1403072-04	Total Dissolved Solids	4800	4700	20.0	2.11	OK	NA

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Location	Analysis
SAIA-MW7	C245.1

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	F1794-18 / F1794-19	Mercury	ND	ND	0.200		NA	OK

Location	Analysis
SAIA-MW7	CI41CN

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	F1794-18 / F1794-19	Cyanide	ND	ND	10.0		NA	OK

Location	Analysis
SAIA-MW7	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	1,2,4,5-Tetrachlorobenzene	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	1,4-Dioxane (p-Dioxane)	1.90	2.00	0.500	5.13	OK	NA
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	2,3,4,6-Tetrachlorophenol	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	2,4,5-Trichlorophenol	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	2,4,6-Trichlorophenol	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	2,4-Dichlorophenol	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	2,4-Dimethylphenol	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	2,4-Dinitrophenol	ND	ND	10.0		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	2,4-Dinitrotoluene	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	2,6-Dinitrotoluene	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	2-Chloronaphthalene	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	2-Chlorophenol	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	2-Methylnaphthalene	ND	ND	5.00		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	2-Methylphenol (o-Cresol)	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	2-Nitroaniline	ND	ND	10.0		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	2-Nitrophenol	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	3,3'-Dichlorobenzidine	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	3-Nitroaniline	ND	ND	10.0		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	4,6-Dinitro-2-Methylphenol	ND	ND	10.0		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	4-Bromophenyl phenyl ether	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	4-Chloro-3-Methylphenol	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	4-Chloroaniline	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	4-Chlorophenyl Phenyl Ether	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	4-Methylphenol (p-Cresol)	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	4-Nitroaniline	ND	ND	10.0		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	4-Nitrophenol	ND	ND	10.0		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Acenaphthene	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Acenaphthylene	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Acetophenone	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Anthracene	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Atrazine	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Benzaldehyde	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Benzo(a)anthracene	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Benzo(a)pyrene	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Benzo(b)fluoranthene	ND	ND	5.00		NA	OK

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Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Benzo(g,h,i)perylene	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Benzo(k)fluoranthene	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Benzyl butyl phthalate	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Biphenyl (Diphenyl)	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	bis(2-Chloroethoxy) Methane	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	bis(2-Chloroisopropyl) Ether	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	bis(2-Ethylhexyl) Phthalate	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Caprolactam	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Carbazole	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Chrysene	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Di-n-Butyl Phthalate	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Di-n-Octylphthalate	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Dibenz(a,h)anthracene	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Dibenzofuran	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Diethyl Phthalate	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Dimethyl Phthalate	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Fluoranthene	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Fluorene	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Hexachlorobenzene	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Hexachlorobutadiene	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Hexachlorocyclopentadiene	ND	ND	5.00		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Hexachloroethane	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Indeno(1,2,3-c,d)pyrene	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Isophorone	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	n-Nitrosodi-n-propylamine	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	n-Nitrosodiphenylamine	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Naphthalene	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Nitrobenzene	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Pentachlorophenol	ND	ND	10.0		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Phenanthrene	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Phenol	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Pyrene	ND	ND	5.00		NA	OK

Location	Analysis
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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	1,1,1-Trichloroethane	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	1,1,2,2-Tetrachloroethane	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	1,1,2-Trichloroethane	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	1,1-Dichloroethane	0.300	0.370	0.500	20.9	NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	1,1-Dichloroethene	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	1,2,3-Trichlorobenzene	ND	ND	0.500		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	1,2,3-Trichloropropane	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	1,2,4-Trichlorobenzene	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	1,2-Dibromo-3-chloropropane	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	1,2-Dibromoethane (EDB)	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	1,2-Dichlorobenzene	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	1,2-Dichloroethane	0.960	1.10	0.500	13.6	OK	NA
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	1,2-Dichloropropane	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	1,3-Dichlorobenzene	0.110	0.120	0.500	8.70	NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	1,4-Dichlorobenzene	0.140	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	2-Butanone (MEK)	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	2-Hexanone	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	4-Methyl-2-pentanone (MIBK)	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Acetone	ND	ND	5.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Benzene	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Bromochloromethane	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Bromodichloromethane	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Bromoform	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Bromomethane	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Carbon Disulfide	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Carbon Tetrachloride	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Chlorobenzene	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Chloroethane	ND	ND	0.500		NA	OK

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Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Chloroform	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Chloromethane	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	cis-1,2-Dichloroethylene	16.0	17.0	0.500	6.06	OK	NA
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	cis-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Cyclohexane	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Dibromochloromethane	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Dichlorodifluoromethane	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Ethylbenzene	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Isopropylbenzene (Cumene)	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	m,p-Xylene	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Methyl Acetate	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Methylcyclohexane	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Methylene Chloride	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	o-Xylene	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Styrene	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	tert-Butyl Methyl Ether (MTBE)	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Tetrachloroethene (PCE)	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Toluene	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	trans-1,2-Dichloroethene	1.10	1.10	0.500	0.00	OK	NA
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	trans-1,3-Dichloropropene	ND	ND	0.500		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07DL / S-6390.08DL	Trichloroethene (TCE)	24.0	22.0	2.50	8.70	OK	NA
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Trichlorofluoromethane	ND	ND	0.500		NA	OK

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Location	Analysis
SAIA-MW7	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	Vinyl Chloride	ND	ND	0.500		NA	OK

Location	Analysis
SAIA-MW7	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	F1794-18 / F1794-19	Calcium	714000	737000	5000	3.17	OK	NA
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	F1794-18 / F1794-19	Iron	1370	419	100	106	Out	NA
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	F1794-18 / F1794-19	Magnesium	166000	171000	5000	2.97	OK	NA
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	F1794-18 / F1794-19	Potassium	5930	5850	5000	1.36	OK	NA
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	F1794-18 / F1794-19	Sodium	359000	368000	5000	2.48	OK	NA

Location	Analysis
SAIA-MW7	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	F1794-18 / F1794-19	Aluminum	927	302	40.0	102	Out	NA
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	F1794-18 / F1794-19	Antimony	ND	ND	2.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	F1794-18 / F1794-19	Arsenic	4.70	3.30	2.00	35.0		NA
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	F1794-18 / F1794-19	Barium	92.1	62.4	10.0	38.4	Out	NA
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	F1794-18 / F1794-19	Beryllium	ND	ND	2.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	F1794-18 / F1794-19	Cadmium	0.170 J	ND	1.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	F1794-18 / F1794-19	Chromium	12.2	3.20	4.00	117	Out	NA
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	F1794-18 / F1794-19	Cobalt	63.8	59.4	2.00	7.14	OK	NA

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Location	Analysis
SAIA-MW7	E200.8

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	F1794-18 / F1794-19	Copper	4.90	2.30	4.00	72.2	Out	NA
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	F1794-18 / F1794-19	Lead	1.60	0.740 J	1.00	73.5	NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	F1794-18 / F1794-19	Manganese	3550	3530	2.00	0.565	OK	NA
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	F1794-18 / F1794-19	Nickel	18.9	6.70	2.00	95.3	Out	NA
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	F1794-18 / F1794-19	Selenium	ND	ND	10.0		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	F1794-18 / F1794-19	Silver	ND	0.0600 J	1.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	F1794-18 / F1794-19	Thallium	ND	ND	1.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	F1794-18 / F1794-19	Vanadium	ND	ND	10.0		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	F1794-18 / F1794-19	Zinc	19.5	10.5	4.00	60.0	Out	NA

Location	Analysis
SAIA-MW7	E300

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	1403072-03RE1 / 1403072-04RE1	Chloride	730	740	100	1.36	OK	NA
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	1403072-03RE1 / 1403072-04RE1	Sulfate (as SO4)	2100	2200	50.0	4.65	OK	NA

Location	Analysis
SAIA-MW7	E331.0

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	1403072-03 / 1403072-04	Perchlorate	ND	ND	0.300		NA	OK

Data Quality Summary Report
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Location	Analysis
SAIA-MW7	E415.3

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	1403072-03 / 1403072-04	Total Organic Carbon	4.00	3.90	0.500	2.53	OK	NA

Location	Analysis
SAIA-MW7	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	PCB-1016 (Arochlor 1016)	ND	ND	1.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	PCB-1221 (Arochlor 1221)	ND	ND	1.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	PCB-1232 (Arochlor 1232)	ND	ND	1.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	PCB-1242 (Arochlor 1242)	ND	ND	1.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	PCB-1248 (Arochlor 1248)	ND	ND	1.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	PCB-1254 (Arochlor 1254)	ND	ND	1.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	PCB-1260 (Arochlor 1260)	ND	ND	1.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	PCB-1262 (Arochlor 1262)	ND	ND	1.00		NA	OK
Mar 27 2014	SAIA-MW7-0314 / SAIA-MW97-0314	S-6390.07 / S-6390.08	PCB-1268 (Arochlor 1268)	ND	ND	1.00		NA	OK

Location	Analysis
SAIA-MW9C	BNASIM

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	1,4-Dioxane (p-Dioxane)	3.60	1.70	0.500	71.7	Out	NA

Data Quality Summary Report
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Location	Analysis
SAIA-MW9C	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	1,1,1-Trichloroethane	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	1,1,2,2-Tetrachloroethane	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	1,1,2-Trichloroethane	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	1,1-Dichloroethane	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	1,1-Dichloroethene	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	1,2,3-Trichlorobenzene	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	1,2,3-Trichloropropane	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	1,2,4-Trichlorobenzene	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	1,2-Dibromo-3-chloropropane	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	1,2-Dibromoethane (EDB)	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	1,2-Dichlorobenzene	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	1,2-Dichloroethane	0.400 J	0.480 J	1.00	18.2	NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	1,2-Dichloropropane	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	1,3-Dichlorobenzene	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	1,4-Dichlorobenzene	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	2-Butanone (MEK)	ND	ND	10.0		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	2-Hexanone	ND	ND	10.0		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	4-Methyl-2-pentanone (MIBK)	ND	ND	10.0		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	Acetone	ND	ND	10.0		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	Benzene	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	Bromochloromethane	ND	ND	1.00		NA	OK

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Location	Analysis
SAIA-MW9C	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	Bromodichloromethane	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	Bromoform	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	Bromomethane	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	Carbon Disulfide	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	Carbon Tetrachloride	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	Chlorobenzene	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	Chloroethane	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	Chloroform	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	Chloromethane	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	cis-1,2-Dichloroethylene	250	310	20.0	21.4	OK	NA
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	cis-1,3-Dichloropropene	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	Cyclohexane	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	Dibromochloromethane	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	Dichlorodifluoromethane	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	Ethylbenzene	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	Isopropylbenzene (Cumene)	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	m,p-Xylene	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	Methyl Acetate	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	Methylcyclohexane	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	Methylene Chloride	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	o-Xylene	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	Styrene	ND	ND	1.00		NA	OK

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Location	Analysis
SAIA-MW9C	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	tert-Butyl Methyl Ether (MTBE)	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	Tetrachloroethene (PCE)	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	Toluene	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	trans-1,2-Dichloroethene	22.0	22.0	1.00	0.00	OK	NA
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	trans-1,3-Dichloropropene	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	Trichloroethene (TCE)	0.700 J	0.740 J	1.00	5.56	NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	Trichlorofluoromethane	ND	ND	1.00		NA	OK
Jul 18 2016	SAIA-MW9C-0716 / SAIA-MW99C-0716	S-1638.03 / S-1638.04	Vinyl Chloride	ND	ND	1.00		NA	OK

Location	Analysis
SAIA-SB/SG02	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 11 2013	SAIA-SG02-D05-E0413 / SG2-5 Rep, P5580cc	1304031-05 / E304043-08	1,1,1-Trichloroethane	ND	ND	100		NA	OK
Apr 11 2013	SAIA-SG02-D05-E0413 / SG2-5 Rep, P5580cc	1304031-05 / E304043-08	1,1,2,2-Tetrachloroethane	ND	ND	100		NA	OK
Apr 11 2013	SAIA-SG02-D05-E0413 / SG2-5 Rep, P5580cc	1304031-05 / E304043-08	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	100		NA	OK
Apr 11 2013	SAIA-SG02-D05-E0413 / SG2-5 Rep, P5580cc	1304031-05 / E304043-08	1,1,2-Trichloroethane	ND	ND	100		NA	OK
Apr 11 2013	SAIA-SG02-D05-E0413 / SG2-5 Rep, P5580cc	1304031-05 / E304043-08	1,1-Dichloroethane	40.0 J	ND	80.0		NA	OK
Apr 11 2013	SAIA-SG02-D05-E0413 / SG2-5 Rep, P5580cc	1304031-05 / E304043-08	1,1-Dichloroethene	ND	ND	80.0		NA	OK
Apr 11 2013	SAIA-SG02-D05-E0413 / SG2-5 Rep, P5580cc	1304031-05 / E304043-08	1,2,4-Trichlorobenzene	ND	ND	100		NA	OK
Apr 11 2013	SAIA-SG02-D05-E0413 / SG2-5 Rep, P5580cc	1304031-05 / E304043-08	1,2,4-Trimethylbenzene	ND	ND	90.0		NA	OK

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Location	Analysis
SAIA-SB/SG02	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 11 2013	SAIA-SG02-D05-E0413 / SG2-5 Rep, P5580cc	1304031-05 / E304043-08	1,2-Dichloroethane	ND	ND	80.0		NA	OK
Apr 11 2013	SAIA-SG02-D05-E0413 / SG2-5 Rep, P5580cc	1304031-05 / E304043-08	1,3,5-Trimethylbenzene	ND	ND	90.0		NA	OK
Apr 11 2013	SAIA-SG02-D05-E0413 / SG2-5 Rep, P5580cc	1304031-05 / E304043-08	1,4-Dichlorobenzene	ND	ND	100		NA	OK
Apr 11 2013	SAIA-SG02-D05-E0413 / SG2-5 Rep, P5580cc	1304031-05 / E304043-08	Benzene	ND	ND	60.0		NA	OK
Apr 11 2013	SAIA-SG02-D05-E0413 / SG2-5 Rep, P5580cc	1304031-05 / E304043-08	Bromomethane	ND	ND	70.0		NA	OK
Apr 11 2013	SAIA-SG02-D05-E0413 / SG2-5 Rep, P5580cc	1304031-05 / E304043-08	Carbon Tetrachloride	ND	ND	100		NA	OK
Apr 11 2013	SAIA-SG02-D05-E0413 / SG2-5 Rep, P5580cc	1304031-05 / E304043-08	Chloroethane	ND	ND	50.0		NA	OK
Apr 11 2013	SAIA-SG02-D05-E0413 / SG2-5 Rep, P5580cc	1304031-05 / E304043-08	Chloroform	ND	ND	90.0		NA	OK
Apr 11 2013	SAIA-SG02-D05-E0413 / SG2-5 Rep, P5580cc	1304031-05 / E304043-08	Chloromethane	ND	ND	40.0		NA	OK
Apr 11 2013	SAIA-SG02-D05-E0413 / SG2-5 Rep, P5580cc	1304031-05 / E304043-08	Ethylbenzene	ND	ND	80.0		NA	OK
Apr 11 2013	SAIA-SG02-D05-E0413 / SG2-5 Rep, P5580cc	1304031-05 / E304043-08	m,p-Xylene	ND	ND	200		NA	OK
Apr 11 2013	SAIA-SG02-D05-E0413 / SG2-5 Rep, P5580cc	1304031-05 / E304043-08	Methylene Chloride	ND	ND	70.0		NA	OK
Apr 11 2013	SAIA-SG02-D05-E0413 / SG2-5 Rep, P5580cc	1304031-05 / E304043-08	o-Xylene	ND	ND	80.0		NA	OK
Apr 11 2013	SAIA-SG02-D05-E0413 / SG2-5 Rep, P5580cc	1304031-05 / E304043-08	Toluene	ND	ND	70.0		NA	OK
Apr 11 2013	SAIA-SG02-D05-E0413 / SG2-5 Rep, P5580cc	1304031-05 / E304043-08	Trichloroethene (TCE)	1500	2400	100	46.2	Out	NA
Apr 11 2013	SAIA-SG02-D05-E0413 / SG2-5 Rep, P5580cc	1304031-05 / E304043-08	Trichlorofluoromethane	ND	ND	100		NA	OK
Apr 11 2013	SAIA-SG02-D05-E0413 / SG2-5 Rep, P5580cc	1304031-05 / E304043-08	Vinyl Chloride	50.0 J	ND	50.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	1,1,1,2-Tetrachloroethane	ND	ND	87.0		NA	OK

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Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	1,1,1-Trichloroethane	ND	ND	69.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	1,1,2,2-Tetrachloroethane	ND	ND	87.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	96.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	1,1,2-Trichloroethane	ND	ND	69.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	1,1-Dichloroethane	ND	ND	100		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	1,1-Dichloroethene	ND	ND	50.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	1,1-Difluoroethane	ND	ND	68.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	1,2,4-Trichlorobenzene	ND	ND	94.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	1,2,4-Trimethylbenzene	ND	ND	62.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	1,2-Dichloroethane	ND	ND	51.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	1,3,5-Trimethylbenzene	ND	ND	62.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	1,4-Dichlorobenzene	ND	ND	76.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	1,4-Dioxane (p-Dioxane)	ND	ND	91.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	Benzene	ND	ND	40.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	Bromodichloromethane	ND	ND	85.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	Bromomethane	ND	ND	99.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	Carbon Tetrachloride	ND	ND	32.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	Chloroethane	ND	ND	67.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	Chloroform	ND	ND	62.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	Chloromethane	ND	ND	52.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	cis-1,2-Dichloroethylene	1600	790	100	67.8	Out	NA
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	Dichlorodifluoromethane	ND	ND	63.0		NA	OK

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Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	Ethylbenzene	ND	ND	55.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	Isopropylbenzene (Cumene)	ND	ND	62.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	m,p-Xylene	ND	ND	110		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	Methylene Chloride	ND	ND	44.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	n-Butylbenzene	ND	ND	70.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	n-Propylbenzene	ND	ND	62.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	Naphthalene	ND	ND	66.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	o-Xylene	ND	ND	55.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	p-Cymene (p-Isopropyltoluene)	ND	ND	70.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	sec-Butylbenzene	ND	ND	70.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	tert-Butylbenzene	ND	ND	70.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	Tetrachloroethene (PCE)	3400	3200	86.0	6.06	OK	NA
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	Toluene	ND	ND	48.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	trans-1,2-Dichloroethene	ND	ND	100		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	Trichloroethene (TCE)	1700	2400	68.0	34.1	OK	NA
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	Trichlorofluoromethane	ND	ND	71.0		NA	OK
Apr 11 2013	SG2-5, P4330cc / SG2-5 Rep, P5580cc	E304043-07 / E304043-08	Vinyl Chloride	ND	ND	32.0		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	1,1,1,2-Tetrachloroethane	ND	ND	3500		NA	OK

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Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	1,1,1-Trichloroethane	ND	ND	2800		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	1,1,2,2-Tetrachloroethane	ND	ND	3500		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	3900		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	1,1,2-Trichloroethane	ND	ND	2800		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	1,1-Dichloroethane	17000	21000	4100	21.1	OK	NA
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	1,1-Dichloroethene	ND	ND	2000		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	1,1-Difluoroethane	ND	ND	2700		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	1,2,4-Trichlorobenzene	ND	ND	3800		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	1,2,4-Trimethylbenzene	14000	23000	2500	48.6	Out	NA
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	1,2-Dichloroethane	ND	ND	2100		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	1,3,5-Trimethylbenzene	4300	6100	2500	34.6	OK	NA
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	1,4-Dichlorobenzene	ND	ND	3000		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	1,4-Dioxane (p-Dioxane)	ND	ND	3600		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	Benzene	ND	ND	1600		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	Bromodichloromethane	ND	ND	3400		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	Bromomethane	ND	ND	3900		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	Carbon Tetrachloride	ND	ND	1300		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	Chloroethane	ND	ND	2700		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	Chloroform	ND	ND	2500		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	Chloromethane	ND	ND	2100		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	cis-1,2-Dichloroethylene	210000	330000	4000	44.4	Out	NA
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	Dichlorodifluoromethane	ND	ND	2500		NA	OK

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Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	Ethylbenzene	ND	ND	2200		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	Isopropylbenzene (Cumene)	ND	ND	2500		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	m,p-Xylene	ND	4800	4400		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	Methylene Chloride	ND	ND	1800		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	n-Butylbenzene	ND	ND	2800		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	n-Propylbenzene	ND	ND	2500		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	Naphthalene	ND	ND	2700		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	o-Xylene	3200	3400	2200	6.06	OK	NA
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	p-Cymene (p-Isopropyltoluene)	4400	7800	2800	55.7	Out	NA
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	sec-Butylbenzene	ND	ND	2800		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	tert-Butylbenzene	ND	ND	2800		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	Tetrachloroethene (PCE)	ND	ND	3400		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	Toluene	2500	2900	1900	14.8	OK	NA
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	trans-1,2-Dichloroethene	ND	ND	4000		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	Trichloroethene (TCE)	140000	270000	2700	63.4	Out	NA
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	Trichlorofluoromethane	ND	ND	2800		NA	OK
Apr 10 2013	SG3-5, P4330cc / SG3-5 Rep, P4380cc	E304035-09 / E304035-10	Vinyl Chloride	88000	91000	1300	3.35	OK	NA

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Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	1,1,1,2-Tetrachloroethane	ND	ND	35.0		NA	OK

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Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	1,1,1-Trichloroethane	ND	ND	28.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	1,1,2,2-Tetrachloroethane	ND	ND	35.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	39.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	1,1,2-Trichloroethane	ND	ND	28.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	1,1-Dichloroethane	ND	ND	41.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	1,1-Dichloroethene	ND	ND	20.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	1,1-Difluoroethane	ND	ND	27.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	1,2,4-Trichlorobenzene	ND	ND	38.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	1,2,4-Trimethylbenzene	ND	ND	25.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	1,2-Dichloroethane	ND	ND	21.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	1,3,5-Trimethylbenzene	ND	ND	25.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	1,4-Dichlorobenzene	ND	ND	30.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	1,4-Dioxane (p-Dioxane)	ND	ND	36.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	Benzene	ND	ND	16.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	Bromodichloromethane	ND	ND	34.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	Bromomethane	ND	ND	39.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	Carbon Tetrachloride	ND	ND	13.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	Chloroethane	ND	ND	27.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	Chloroform	ND	ND	25.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	Chloromethane	ND	ND	21.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	cis-1,2-Dichloroethylene	210	240	40.0	13.3	OK	NA
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	Dichlorodifluoromethane	ND	ND	25.0		NA	OK

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Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	Ethylbenzene	ND	ND	22.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	Isopropylbenzene (Cumene)	ND	ND	25.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	m,p-Xylene	ND	ND	44.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	Methylene Chloride	ND	ND	18.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	n-Butylbenzene	ND	ND	28.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	n-Propylbenzene	ND	ND	25.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	Naphthalene	ND	ND	27.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	o-Xylene	ND	ND	22.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	p-Cymene (p-Isopropyltoluene)	ND	ND	28.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	sec-Butylbenzene	ND	ND	28.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	tert-Butylbenzene	ND	ND	28.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	Tetrachloroethene (PCE)	990	970	34.0	2.04	OK	NA
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	Toluene	ND	ND	19.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	trans-1,2-Dichloroethene	ND	ND	40.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	Trichloroethene (TCE)	1200	1200	27.0	0.00	OK	NA
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	Trichlorofluoromethane	ND	ND	28.0		NA	OK
Apr 16 2013	SG5-5, P4330cc / SG5-5 Rep, P4380cc	E304065-04 / E304065-05	Vinyl Chloride	ND	ND	13.0		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	1,1,1,2-Tetrachloroethane	ND	ND	1700		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	1,1,1-Trichloroethane	ND	ND	1400		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	1,1,2,2-Tetrachloroethane	ND	ND	1700		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	1900		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	1,1,2-Trichloroethane	ND	ND	1400		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	1,1-Dichloroethane	ND	ND	2100		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	1,1-Dichloroethene	ND	ND	1000		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	1,1-Difluoroethane	ND	ND	1400		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	1,2,4-Trichlorobenzene	ND	ND	1900		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	1,2,4-Trimethylbenzene	ND	ND	1200		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	1,2-Dichloroethane	ND	ND	1000		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	1,3,5-Trimethylbenzene	ND	ND	1200		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	1,4-Dichlorobenzene	ND	ND	1500		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	1,4-Dioxane (p-Dioxane)	ND	ND	1800		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	Benzene	ND	ND	810		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	Bromodichloromethane	ND	ND	1700		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	Bromomethane	ND	ND	2000		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	Carbon Tetrachloride	ND	ND	640		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	Chloroethane	ND	ND	1300		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	Chloroform	ND	ND	1200		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	Chloromethane	ND	ND	1000		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	cis-1,2-Dichloroethylene	6300	2200	2000	96.5	Out	NA
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	Dichlorodifluoromethane	ND	ND	1300		NA	OK

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Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	Ethylbenzene	ND	ND	1100		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	Isopropylbenzene (Cumene)	ND	ND	1200		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	m,p-Xylene	ND	ND	2200		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	Methylene Chloride	ND	ND	880		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	n-Butylbenzene	ND	ND	1400		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	n-Propylbenzene	ND	ND	1200		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	Naphthalene	ND	ND	1300		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	o-Xylene	ND	ND	1100		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	p-Cymene (p-Isopropyltoluene)	ND	ND	1400		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	sec-Butylbenzene	ND	ND	1400		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	tert-Butylbenzene	ND	ND	1400		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	Tetrachloroethene (PCE)	ND	ND	1700		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	Toluene	ND	ND	950		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	trans-1,2-Dichloroethene	ND	ND	2000		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	Trichloroethene (TCE)	12000	18000	1400	40.0	Out	NA
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	Trichlorofluoromethane	ND	ND	1400		NA	OK
Apr 15 2013	SG7-5, P4330cc / SG7-5 Rep, P4380cc	E304060-11 / E304060-12	Vinyl Chloride	ND	ND	650		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	1,1,1,2-Tetrachloroethane	ND	ND	35.0		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	1,1,1-Trichloroethane	ND	ND	28.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	1,1,2,2-Tetrachloroethane	ND	ND	35.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	39.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	1,1,2-Trichloroethane	ND	ND	28.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	1,1-Dichloroethane	ND	ND	41.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	1,1-Dichloroethene	ND	ND	20.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	1,1-Difluoroethane	ND	ND	27.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	1,2,4-Trichlorobenzene	ND	ND	38.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	1,2,4-Trimethylbenzene	ND	ND	25.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	1,2-Dichloroethane	ND	ND	21.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	1,3,5-Trimethylbenzene	ND	ND	25.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	1,4-Dichlorobenzene	ND	ND	30.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	1,4-Dioxane (p-Dioxane)	ND	ND	36.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	Benzene	ND	ND	16.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	Bromodichloromethane	ND	ND	34.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	Bromomethane	ND	ND	39.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	Carbon Tetrachloride	ND	ND	13.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	Chloroethane	ND	ND	27.0		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	Chloroform	ND	ND	25.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	Chloromethane	ND	ND	21.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	cis-1,2-Dichloroethylene	ND	ND	40.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	Dichlorodifluoromethane	ND	ND	25.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	Ethylbenzene	ND	ND	22.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	Isopropylbenzene (Cumene)	ND	ND	25.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	m,p-Xylene	ND	ND	44.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	Methylene Chloride	ND	ND	18.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	n-Butylbenzene	ND	ND	28.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	n-Propylbenzene	ND	ND	25.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	Naphthalene	ND	ND	27.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	o-Xylene	ND	ND	22.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	p-Cymene (p-Isopropyltoluene)	ND	30.0	28.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	sec-Butylbenzene	ND	ND	28.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	tert-Butylbenzene	ND	ND	28.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	Tetrachloroethene (PCE)	ND	ND	34.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	Toluene	ND	34.0	19.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	trans-1,2-Dichloroethene	ND	ND	40.0		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	Trichloroethene (TCE)	ND	35.0	27.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	Trichlorofluoromethane	ND	ND	28.0		NA	OK
Apr 9 2013	SG14-15, P4814cc / SG14-15 Rep, P4864cc	E304025-09 / E304025-10	Vinyl Chloride	ND	ND	13.0		NA	OK

Location	Analysis
SAIA-SB/SG16	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	1,1,1,2-Tetrachloroethane	ND	ND	35.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	1,1,1-Trichloroethane	ND	ND	28.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	1,1,2,2-Tetrachloroethane	ND	ND	35.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	39.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	1,1,2-Trichloroethane	ND	ND	28.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	1,1-Dichloroethane	ND	ND	41.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	1,1-Dichloroethene	ND	ND	20.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	1,1-Difluoroethane	ND	ND	27.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	1,2,4-Trichlorobenzene	ND	ND	38.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	1,2,4-Trimethylbenzene	ND	ND	25.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	1,2-Dichloroethane	ND	ND	21.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	1,3,5-Trimethylbenzene	ND	ND	25.0		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	1,4-Dichlorobenzene	ND	ND	30.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	1,4-Dioxane (p-Dioxane)	ND	ND	36.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	Benzene	ND	ND	16.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	Bromodichloromethane	ND	ND	34.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	Bromomethane	ND	ND	39.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	Carbon Tetrachloride	ND	ND	13.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	Chloroethane	ND	ND	27.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	Chloroform	ND	ND	25.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	Chloromethane	ND	ND	21.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	cis-1,2-Dichloroethylene	120	66.0	40.0	58.1	Out	NA
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	Dichlorodifluoromethane	ND	ND	25.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	Ethylbenzene	ND	ND	22.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	Isopropylbenzene (Cumene)	ND	ND	25.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	m,p-Xylene	ND	ND	44.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	Methylene Chloride	ND	ND	18.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	n-Butylbenzene	ND	ND	28.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	n-Propylbenzene	ND	ND	25.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	Naphthalene	ND	ND	27.0		NA	OK

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SAIA SAP

Location	Analysis
SAIA-SB/SG16	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	o-Xylene	ND	ND	22.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	p-Cymene (p-Isopropyltoluene)	ND	ND	28.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	sec-Butylbenzene	ND	ND	28.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	tert-Butylbenzene	ND	ND	28.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	Tetrachloroethene (PCE)	280	390	34.0	32.8	OK	NA
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	Toluene	ND	ND	19.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	trans-1,2-Dichloroethene	ND	ND	40.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	Trichloroethene (TCE)	110	49.0	27.0	76.7	Out	NA
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	Trichlorofluoromethane	ND	ND	28.0		NA	OK
Apr 12 2013	SG16-5, P4330cc / SG16-5 Rep, P4380cc	E304054-12 / E304054-13	Vinyl Chloride	ND	ND	13.0		NA	OK

Location	Analysis
SAIA-SB/SG19	C245.5

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	F2018-22 / F2027-01	Mercury	0.0230 J	0.0200 J	0.0940	14.0	NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	F2018-19 / F2018-20	Mercury	0.0320 J	0.0340 J	0.100	6.06	NA	OK

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Location	Analysis
SAIA-SB/SG19	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	1,2,4,5-Tetrachlorobenzene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	1,2,4,5-Tetrachlorobenzene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	2,3,4,6-Tetrachlorophenol	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	2,3,4,6-Tetrachlorophenol	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	2,4,5-Trichlorophenol	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	2,4,5-Trichlorophenol	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	2,4,6-Trichlorophenol	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	2,4,6-Trichlorophenol	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	2,4-Dichlorophenol	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	2,4-Dichlorophenol	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	2,4-Dimethylphenol	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	2,4-Dimethylphenol	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	2,4-Dinitrophenol	ND	ND	340		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	2,4-Dinitrophenol	ND	ND	340		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	2,4-Dinitrotoluene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	2,4-Dinitrotoluene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	2,6-Dinitrotoluene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	2,6-Dinitrotoluene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	2-Chloronaphthalene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	2-Chloronaphthalene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	2-Chlorophenol	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	2-Chlorophenol	ND	ND	170		NA	OK

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Location	Analysis
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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	2-Methylnaphthalene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	2-Methylnaphthalene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	2-Methylphenol (o-Cresol)	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	2-Methylphenol (o-Cresol)	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	2-Nitroaniline	ND	ND	340		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	2-Nitroaniline	ND	ND	340		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	2-Nitrophenol	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	2-Nitrophenol	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	3,3'-Dichlorobenzidine	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	3,3'-Dichlorobenzidine	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	3-Nitroaniline	ND	ND	340		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	3-Nitroaniline	ND	ND	340		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	4,6-Dinitro-2-Methylphenol	ND	ND	340		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	4,6-Dinitro-2-Methylphenol	ND	ND	340		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	4-Bromophenyl phenyl ether	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	4-Bromophenyl phenyl ether	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	4-Chloro-3-Methylphenol	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	4-Chloro-3-Methylphenol	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	4-Chloroaniline	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	4-Chloroaniline	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	4-Chlorophenyl Phenyl Ether	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	4-Chlorophenyl Phenyl Ether	ND	ND	170		NA	OK

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Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	4-Methylphenol (p-Cresol)	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	4-Methylphenol (p-Cresol)	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	4-Nitroaniline	ND	ND	340		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	4-Nitroaniline	ND	ND	340		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	4-Nitrophenol	ND	ND	340		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	4-Nitrophenol	ND	ND	340		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Acenaphthene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Acenaphthene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Acenaphthylene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Acenaphthylene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Acetophenone	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Acetophenone	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Anthracene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Anthracene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Atrazine	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Atrazine	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Benzaldehyde	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Benzaldehyde	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Benzo(a)anthracene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Benzo(a)anthracene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Benzo(a)pyrene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Benzo(a)pyrene	ND	ND	170		NA	OK

Data Quality Summary Report
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Location	Analysis
SAIA-SB/SG19	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Benzo(b)fluoranthene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Benzo(b)fluoranthene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Benzo(g,h,i)perylene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Benzo(g,h,i)perylene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Benzo(k)fluoranthene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Benzo(k)fluoranthene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Benzyl butyl phthalate	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Benzyl butyl phthalate	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Biphenyl (Diphenyl)	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Biphenyl (Diphenyl)	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	bis(2-Chloroethoxy) Methane	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	bis(2-Chloroethoxy) Methane	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	bis(2-Chloroisopropyl) Ether	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	bis(2-Chloroisopropyl) Ether	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	bis(2-Ethylhexyl) Phthalate	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	bis(2-Ethylhexyl) Phthalate	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Caprolactam	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Caprolactam	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Carbazole	ND	ND	170		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Carbazole	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Chrysene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Chrysene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Di-n-Butyl Phthalate	ND	84.0 J	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Di-n-Butyl Phthalate	99.0 J	85.0 J	170	15.2	NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Di-n-Octylphthalate	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Di-n-Octylphthalate	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Dibenz(a,h)anthracene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Dibenz(a,h)anthracene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Dibenzofuran	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Dibenzofuran	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Diethyl Phthalate	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Diethyl Phthalate	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Dimethyl Phthalate	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Dimethyl Phthalate	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Fluoranthene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Fluoranthene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Fluorene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Fluorene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Hexachlorobenzene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Hexachlorobenzene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Hexachlorobutadiene	ND	ND	170		NA	OK

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Location	Analysis
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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Hexachlorobutadiene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Hexachlorocyclopentadiene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Hexachlorocyclopentadiene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Hexachloroethane	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Hexachloroethane	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Indeno(1,2,3-c,d)pyrene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Indeno(1,2,3-c,d)pyrene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Isophorone	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Isophorone	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	n-Nitrosodi-n-propylamine	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	n-Nitrosodi-n-propylamine	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	n-Nitrosodiphenylamine	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	n-Nitrosodiphenylamine	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Naphthalene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Naphthalene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Nitrobenzene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Nitrobenzene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Pentachlorophenol	ND	ND	340		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Pentachlorophenol	ND	ND	340		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Phenanthrene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Phenanthrene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Phenol	ND	ND	170		NA	OK

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Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Phenol	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Pyrene	ND	ND	170		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Pyrene	ND	ND	170		NA	OK

Location	Analysis
SAIA-SB/SG19	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	1,1,1-Trichloroethane	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	1,1,1-Trichloroethane	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	1,1,2,2-Tetrachloroethane	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	1,1,2,2-Tetrachloroethane	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	1,1,2-Trichloroethane	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	1,1,2-Trichloroethane	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	1,1-Dichloroethane	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	1,1-Dichloroethane	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	1,1-Dichloroethene	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	1,1-Dichloroethene	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	1,2,3-Trichlorobenzene	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	1,2,3-Trichlorobenzene	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	1,2,3-Trichloropropane	ND	ND	5.00		NA	OK

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Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	1,2,3-Trichloropropane	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	1,2,4-Trichlorobenzene	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	1,2,4-Trichlorobenzene	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	1,2-Dibromo-3-chloropropane	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	1,2-Dibromo-3-chloropropane	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	1,2-Dibromoethane (EDB)	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	1,2-Dibromoethane (EDB)	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	1,2-Dichlorobenzene	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	1,2-Dichlorobenzene	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	1,2-Dichloroethane	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	1,2-Dichloroethane	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	1,2-Dichloropropane	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	1,2-Dichloropropane	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	1,3-Dichlorobenzene	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	1,3-Dichlorobenzene	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	1,4-Dichlorobenzene	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	1,4-Dichlorobenzene	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	1,4-Dioxane (p-Dioxane)	ND	ND	110		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	1,4-Dioxane (p-Dioxane)	ND	ND	99.0		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	2-Butanone (MEK)	ND	ND	11.0		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	2-Butanone (MEK)	ND	ND	9.90		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	2-Hexanone	ND	ND	11.0		NA	OK

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Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	2-Hexanone	ND	ND	9.90		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	4-Methyl-2-pentanone (MIBK)	ND	ND	11.0		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	4-Methyl-2-pentanone (MIBK)	ND	ND	9.90		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Acetone	ND	ND	11.0		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Acetone	ND	ND	9.90		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Benzene	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Benzene	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Bromochloromethane	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Bromochloromethane	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Bromodichloromethane	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Bromodichloromethane	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Bromoform	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Bromoform	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Bromomethane	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Bromomethane	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Carbon Disulfide	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Carbon Disulfide	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Carbon Tetrachloride	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Carbon Tetrachloride	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Chlorobenzene	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Chlorobenzene	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Chloroethane	ND	ND	5.00		NA	OK

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Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Chloroethane	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Chloroform	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Chloroform	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Chloromethane	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Chloromethane	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	cis-1,2-Dichloroethylene	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	cis-1,2-Dichloroethylene	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	cis-1,3-Dichloropropene	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	cis-1,3-Dichloropropene	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Cyclohexane	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Cyclohexane	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Dibromochloromethane	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Dibromochloromethane	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Dichlorodifluoromethane	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Dichlorodifluoromethane	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Ethylbenzene	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Ethylbenzene	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Isopropylbenzene (Cumene)	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Isopropylbenzene (Cumene)	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	m,p-Xylene	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	m,p-Xylene	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Methyl Acetate	ND	ND	5.00		NA	OK

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Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Methyl Acetate	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Methylcyclohexane	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Methylcyclohexane	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Methylene Chloride	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Methylene Chloride	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	o-Xylene	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	o-Xylene	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Styrene	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Styrene	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	tert-Butyl Methyl Ether (MTBE)	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	tert-Butyl Methyl Ether (MTBE)	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Tetrachloroethene (PCE)	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Tetrachloroethene (PCE)	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Toluene	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Toluene	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	trans-1,2-Dichloroethene	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	trans-1,2-Dichloroethene	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	trans-1,3-Dichloropropene	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	trans-1,3-Dichloropropene	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Trichloroethene (TCE)	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Trichloroethene (TCE)	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Trichlorofluoromethane	ND	ND	5.00		NA	OK

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Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Trichlorofluoromethane	ND	ND	5.50		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	Vinyl Chloride	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	Vinyl Chloride	ND	ND	5.50		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	F2018-19 / F2018-20	Aluminum	11600	10900	14.0	6.22	OK	NA
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	F2018-22 / F2027-01	Aluminum	9800	10100	14.2	3.02	OK	NA
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	F2018-19 / F2018-20	Antimony	ND	ND	4.20		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	F2018-22 / F2027-01	Antimony	ND	ND	4.20		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	F2018-19 / F2018-20	Arsenic	3.30	3.40	0.700	2.99	OK	NA
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	F2018-22 / F2027-01	Arsenic	2.50	2.40	0.710	4.08	OK	NA
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	F2018-19 / F2018-20	Barium	108	104	14.0	3.77	OK	NA
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	F2018-22 / F2027-01	Barium	97.1	96.7	14.2	0.413	OK	NA
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	F2018-19 / F2018-20	Beryllium	0.470	0.440	0.350	6.59	OK	NA
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	F2018-22 / F2027-01	Beryllium	0.410	0.410	0.350	0.00	OK	NA
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	F2018-19 / F2018-20	Cadmium	0.710	0.800	0.350	11.9	OK	NA
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	F2018-22 / F2027-01	Cadmium	ND	ND	0.350		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	F2018-19 / F2018-20	Calcium	8200	8680	350	5.69	OK	NA
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	F2018-22 / F2027-01	Calcium	5060	4890	354	3.42	OK	NA
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	F2018-19 / F2018-20	Chromium	20.3	47.5	0.700	80.2	Out	NA

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SAIA-SB/SG19	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	F2018-22 / F2027-01	Chromium	19.9	12.5	0.710	45.7	Out	NA
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	F2018-19 / F2018-20	Cobalt	9.90	9.80	3.50	1.02	OK	NA
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	F2018-22 / F2027-01	Cobalt	7.80	7.80	3.50	0.00	OK	NA
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	F2018-22 / F2027-01	Copper	192	140	1.80	31.3	OK	NA
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	F2018-19 / F2018-20	Copper	4350	1690	17.5	88.1	Out	NA
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	F2018-19 / F2018-20	Iron	21700	22700	7.00	4.50	OK	NA
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	F2018-22 / F2027-01	Iron	18200	17200	7.10	5.65	OK	NA
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	F2018-19 / F2018-20	Lead	198	196	0.700	1.02	OK	NA
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	F2018-22 / F2027-01	Lead	40.3	23.6	0.710	52.3	Out	NA
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	F2018-19 / F2018-20	Magnesium	5740	5510	350	4.09	OK	NA
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	F2018-22 / F2027-01	Magnesium	5250	5200	354	0.957	OK	NA
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	F2018-19 / F2018-20	Manganese	278	287	1.10	3.19	OK	NA
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	F2018-22 / F2027-01	Manganese	239	239	1.10	0.00	OK	NA
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	F2018-19 / F2018-20	Nickel	46.3	32.8	2.80	34.1	OK	NA
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	F2018-22 / F2027-01	Nickel	11.0	9.40	2.80	15.7	OK	NA
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	F2018-19 / F2018-20	Potassium	3600	3430	350	4.84	OK	NA
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	F2018-22 / F2027-01	Potassium	3410	3470	354	1.74	OK	NA
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	F2018-19 / F2018-20	Selenium	2.60	2.80	2.50	7.41	OK	NA
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	F2018-22 / F2027-01	Selenium	2.20 J	1.90 J	2.50	14.6	NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	F2018-19 / F2018-20	Silver	ND	ND	0.700		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	F2018-22 / F2027-01	Silver	ND	ND	0.710		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	F2018-19 / F2018-20	Sodium	332 J	326 J	350	1.82	NA	OK

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Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	F2018-22 / F2027-01	Sodium	244 J	307 J	354	22.9	NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	F2018-19 / F2018-20	Thallium	ND	ND	1.80		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	F2018-22 / F2027-01	Thallium	ND	ND	1.80		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	F2018-19 / F2018-20	Vanadium	37.8	37.2	3.50	1.60	OK	NA
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	F2018-22 / F2027-01	Vanadium	32.0	31.6	3.50	1.26	OK	NA
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	F2018-19 / F2018-20	Zinc	891	885	4.20	0.676	OK	NA
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	F2018-22 / F2027-01	Zinc	98.6	80.9	4.20	19.7	OK	NA

Location	Analysis
SAIA-SB/SG19	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	PCB-1016 (Arochlor 1016)	ND	ND	34.0		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	PCB-1016 (Arochlor 1016)	ND	ND	34.0		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	PCB-1221 (Arochlor 1221)	ND	ND	34.0		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	PCB-1221 (Arochlor 1221)	ND	ND	34.0		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	PCB-1232 (Arochlor 1232)	ND	ND	34.0		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	PCB-1232 (Arochlor 1232)	ND	ND	34.0		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	PCB-1242 (Arochlor 1242)	ND	ND	34.0		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	PCB-1242 (Arochlor 1242)	ND	ND	34.0		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	PCB-1248 (Arochlor 1248)	ND	ND	34.0		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	PCB-1248 (Arochlor 1248)	ND	ND	34.0		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	PCB-1254 (Arochlor 1254)	30.0 J	26.0 J	34.0	14.3	NA	OK

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Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	PCB-1254 (Arochlor 1254)	ND	ND	34.0		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	PCB-1260 (Arochlor 1260)	11.0 J	11.0 J	34.0	0.00	NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	PCB-1260 (Arochlor 1260)	ND	ND	34.0		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	PCB-1262 (Arochlor 1262)	ND	ND	34.0		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	PCB-1262 (Arochlor 1262)	ND	ND	34.0		NA	OK
Apr 16 2014	SAIA-SB19-0.5 / SAIA-SB19-0.6	S-6424.01 / S-6424.02	PCB-1268 (Arochlor 1268)	ND	ND	34.0		NA	OK
Apr 16 2014	SAIA-SB19-5 / SAIA-SB19-6	S-6424.04 / S-6425.01	PCB-1268 (Arochlor 1268)	ND	ND	34.0		NA	OK

Location	Analysis
SAIA-SB/SG21	C245.5

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	F2060-02 / F2060-03	Mercury	ND	ND	0.100		NA	OK
Apr 18 2014	SAIA-SB21-2 / SAIA-SB21-3	F2057-21 / F2057-22	Mercury	0.0240 J	0.0230 J	0.110	4.26	NA	OK

Location	Analysis
SAIA-SB/SG21	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	1,2,4,5-Tetrachlorobenzene	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	2,3,4,6-Tetrachlorophenol	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	2,4,5-Trichlorophenol	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	2,4,6-Trichlorophenol	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	2,4-Dichlorophenol	ND	ND	200		NA	OK

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Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	2,4-Dimethylphenol	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	2,4-Dinitrophenol	ND	ND	380		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	2,4-Dinitrotoluene	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	2,6-Dinitrotoluene	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	2-Chloronaphthalene	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	2-Chlorophenol	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	2-Methylnaphthalene	200	240	200	18.2	NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	2-Methylphenol (o-Cresol)	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	2-Nitroaniline	ND	ND	380		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	2-Nitrophenol	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	3,3'-Dichlorobenzidine	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	3-Nitroaniline	ND	ND	380		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	4,6-Dinitro-2-Methylphenol	ND	ND	380		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	4-Bromophenyl phenyl ether	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	4-Chloro-3-Methylphenol	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	4-Chloroaniline	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	4-Chlorophenyl Phenyl Ether	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	4-Methylphenol (p-Cresol)	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	4-Nitroaniline	ND	ND	380		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	4-Nitrophenol	ND	ND	380		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Acenaphthene	81.0 J	92.0 J	200	12.7	NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Acenaphthylene	ND	ND	200		NA	OK

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Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Acetophenone	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Anthracene	ND	92.0 J	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Atrazine	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Benzaldehyde	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Benzo(a)anthracene	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Benzo(a)pyrene	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Benzo(b)fluoranthene	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Benzo(g,h,i)perylene	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Benzo(k)fluoranthene	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Benzyl butyl phthalate	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Biphenyl (Diphenyl)	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	bis(2-Chloroethoxy) Methane	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	bis(2-Chloroisopropyl) Ether	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	bis(2-Ethylhexyl) Phthalate	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Caprolactam	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Carbazole	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Chrysene	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Di-n-Butyl Phthalate	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Di-n-Octylphthalate	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Dibenz(a,h)anthracene	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Dibenzofuran	ND	ND	200		NA	OK

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Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Diethyl Phthalate	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Dimethyl Phthalate	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Fluoranthene	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Fluorene	150 J	190	200	23.5	NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Hexachlorobenzene	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Hexachlorobutadiene	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Hexachlorocyclopentadiene	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Hexachloroethane	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Indeno(1,2,3-c,d)pyrene	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Isophorone	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	n-Nitrosodi-n-propylamine	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	n-Nitrosodiphenylamine	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Naphthalene	110 J	140 J	200	24.0	NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Nitrobenzene	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Pentachlorophenol	ND	ND	380		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Phenanthrene	510	650	200	24.1	OK	NA
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Phenol	ND	ND	200		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Pyrene	ND	ND	200		NA	OK

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Location	Analysis
SAIA-SB/SG21	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	1,1,1-Trichloroethane	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	1,1,2,2-Tetrachloroethane	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	1,1,2-Trichloroethane	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	1,1-Dichloroethane	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	1,1-Dichloroethene	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	1,2,3-Trichlorobenzene	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	1,2,3-Trichloropropane	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	1,2,4-Trichlorobenzene	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	1,2-Dibromo-3-chloropropane	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	1,2-Dibromoethane (EDB)	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	1,2-Dichlorobenzene	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	1,2-Dichloroethane	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	1,2-Dichloropropane	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	1,3-Dichlorobenzene	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	1,4-Dichlorobenzene	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	1,4-Dioxane (p-Dioxane)	ND	ND	130		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	2-Butanone (MEK)	ND	ND	13.0		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	2-Hexanone	ND	ND	13.0		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	4-Methyl-2-pentanone (MIBK)	ND	ND	13.0		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Acetone	ND	ND	13.0		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Benzene	ND	ND	6.30		NA	OK

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SAIA SAP

Location	Analysis
SAIA-SB/SG21	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Bromochloromethane	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Bromodichloromethane	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Bromoform	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Bromomethane	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Carbon Disulfide	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Carbon Tetrachloride	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Chlorobenzene	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Chloroethane	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Chloroform	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Chloromethane	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	cis-1,2-Dichloroethylene	1.90 J	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	cis-1,3-Dichloropropene	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Cyclohexane	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Dibromochloromethane	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Dichlorodifluoromethane	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Ethylbenzene	1.20 J	0.940 J	6.30	24.3	NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Isopropylbenzene (Cumene)	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	m,p-Xylene	4.00 J	3.30 J	6.30	19.2	NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Methyl Acetate	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Methylcyclohexane	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Methylene Chloride	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	o-Xylene	1.50 J	1.10 J	6.30	30.8	NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Styrene	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	tert-Butyl Methyl Ether (MTBE)	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Tetrachloroethene (PCE)	1.10 J	0.950 J	6.30	14.6	NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Toluene	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	trans-1,2-Dichloroethene	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	trans-1,3-Dichloropropene	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Trichloroethene (TCE)	2.10 J	1.20 J	6.30	54.5	NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Trichlorofluoromethane	ND	ND	6.30		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	Vinyl Chloride	ND	ND	6.30		NA	OK

Location	Analysis
SAIA-SB/SG21	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	F2060-02 / F2060-03	Aluminum	14900	14500	16.3	2.72	OK	NA
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	F2060-02 / F2060-03	Antimony	0.820 J	0.760 J	4.90	7.59	NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	F2060-02 / F2060-03	Arsenic	4.20	3.90	0.820	7.41	OK	NA
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	F2060-02 / F2060-03	Barium	142	137	16.3	3.58	OK	NA
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	F2060-02 / F2060-03	Beryllium	0.570	0.600	0.410	5.13	OK	NA
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	F2060-02 / F2060-03	Cadmium	0.590	0.870	0.410	38.4	Out	NA
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	F2060-02 / F2060-03	Calcium	9990	9420	408	5.87	OK	NA
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	F2060-02 / F2060-03	Chromium	40.5	79.4	0.820	64.9	Out	NA
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	F2060-02 / F2060-03	Cobalt	11.2	10.8	4.10	3.64	OK	NA

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Location	Analysis
SAIA-SB/SG21	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	F2060-02 / F2060-03	Copper	53.8	74.4	2.00	32.1	OK	NA
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	F2060-02 / F2060-03	Iron	31300	29600	8.20	5.58	OK	NA
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	F2060-02 / F2060-03	Lead	7.70	9.70	0.820	23.0	OK	NA
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	F2060-02 / F2060-03	Magnesium	7840	7760	408	1.03	OK	NA
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	F2060-02 / F2060-03	Manganese	461	434	1.20	6.03	OK	NA
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	F2060-02 / F2060-03	Nickel	30.3	43.6	3.30	36.0	Out	NA
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	F2060-02 / F2060-03	Potassium	4390	4390	408	0.00	OK	NA
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	F2060-02 / F2060-03	Selenium	4.80	5.20	2.90	8.00	OK	NA
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	F2060-02 / F2060-03	Silver	ND	ND	0.820		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	F2060-02 / F2060-03	Sodium	427	412 J	408	3.58	NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	F2060-02 / F2060-03	Thallium	ND	ND	2.00		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	F2060-02 / F2060-03	Vanadium	44.9	47.9	4.10	6.47	OK	NA
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	F2060-02 / F2060-03	Zinc	74.8	88.3	4.90	16.6	OK	NA
Apr 18 2014	SAIA-SB21-2 / SAIA-SB21-3	F2057-21 / F2057-22	Aluminum	11700	11700	15.9	0.00	OK	NA
Apr 18 2014	SAIA-SB21-2 / SAIA-SB21-3	F2057-21 / F2057-22	Antimony	ND	ND	4.80		NA	OK
Apr 18 2014	SAIA-SB21-2 / SAIA-SB21-3	F2057-21 / F2057-22	Arsenic	5.30	5.20	0.800	1.90	OK	NA
Apr 18 2014	SAIA-SB21-2 / SAIA-SB21-3	F2057-21 / F2057-22	Barium	115	114	15.9	0.873	OK	NA
Apr 18 2014	SAIA-SB21-2 / SAIA-SB21-3	F2057-21 / F2057-22	Beryllium	0.440	0.410	0.400	7.06	OK	NA
Apr 18 2014	SAIA-SB21-2 / SAIA-SB21-3	F2057-21 / F2057-22	Cadmium	2.40	2.30	0.400	4.26	OK	NA
Apr 18 2014	SAIA-SB21-2 / SAIA-SB21-3	F2057-21 / F2057-22	Calcium	4900	4910	398	0.204	OK	NA
Apr 18 2014	SAIA-SB21-2 / SAIA-SB21-3	F2057-21 / F2057-22	Chromium	357	210	0.800	51.9	Out	NA
Apr 18 2014	SAIA-SB21-2 / SAIA-SB21-3	F2057-21 / F2057-22	Cobalt	12.6	11.4	4.00	10.0	OK	NA

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Location	Analysis
SAIA-SB/SG21	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 18 2014	SAIA-SB21-2 / SAIA-SB21-3	F2057-21 / F2057-22	Copper	176	246	2.00	33.2	OK	NA
Apr 18 2014	SAIA-SB21-2 / SAIA-SB21-3	F2057-21 / F2057-22	Iron	29200	28400	8.00	2.78	OK	NA
Apr 18 2014	SAIA-SB21-2 / SAIA-SB21-3	F2057-21 / F2057-22	Lead	20.9	26.5	0.800	23.6	OK	NA
Apr 18 2014	SAIA-SB21-2 / SAIA-SB21-3	F2057-21 / F2057-22	Magnesium	6610	6540	398	1.06	OK	NA
Apr 18 2014	SAIA-SB21-2 / SAIA-SB21-3	F2057-21 / F2057-22	Manganese	432	420	1.20	2.82	OK	NA
Apr 18 2014	SAIA-SB21-2 / SAIA-SB21-3	F2057-21 / F2057-22	Nickel	223	103	3.20	73.6	Out	NA
Apr 18 2014	SAIA-SB21-2 / SAIA-SB21-3	F2057-21 / F2057-22	Potassium	4230	4190	398	0.950	OK	NA
Apr 18 2014	SAIA-SB21-2 / SAIA-SB21-3	F2057-21 / F2057-22	Selenium	4.30	2.50 J	2.80	52.9	NA	OK
Apr 18 2014	SAIA-SB21-2 / SAIA-SB21-3	F2057-21 / F2057-22	Silver	ND	ND	0.800		NA	OK
Apr 18 2014	SAIA-SB21-2 / SAIA-SB21-3	F2057-21 / F2057-22	Sodium	314 J	304 J	398	3.24	NA	OK
Apr 18 2014	SAIA-SB21-2 / SAIA-SB21-3	F2057-21 / F2057-22	Thallium	ND	ND	2.00		NA	OK
Apr 18 2014	SAIA-SB21-2 / SAIA-SB21-3	F2057-21 / F2057-22	Vanadium	36.9	35.7	4.00	3.31	OK	NA
Apr 18 2014	SAIA-SB21-2 / SAIA-SB21-3	F2057-21 / F2057-22	Zinc	142	170	4.80	17.9	OK	NA

Location	Analysis
SAIA-SB/SG21	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	PCB-1016 (Arochlor 1016)	ND	ND	38.0		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	PCB-1221 (Arochlor 1221)	ND	ND	38.0		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	PCB-1232 (Arochlor 1232)	ND	ND	38.0		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	PCB-1242 (Arochlor 1242)	ND	ND	38.0		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	PCB-1248 (Arochlor 1248)	7200	9000	1900	22.2	OK	NA

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Location	Analysis
SAIA-SB/SG21	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	PCB-1254 (Arochlor 1254)	ND	ND	38.0		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	PCB-1260 (Arochlor 1260)	ND	2400	38.0		NA	2400
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	PCB-1262 (Arochlor 1262)	ND	ND	38.0		NA	OK
Apr 18 2014	SAIA-SB21-15 / SAIA-SB21-16	S-6431.02 / S-6431.03	PCB-1268 (Arochlor 1268)	ND	ND	38.0		NA	OK

Location	Analysis
SAIA-SB/SG22	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	1,1,1,2-Tetrachloroethane	ND	ND	35.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	1,1,1,2-Tetrachloroethane	ND	ND	35.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	1,1,1-Trichloroethane	ND	ND	28.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	1,1,1-Trichloroethane	ND	ND	28.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	1,1,2,2-Tetrachloroethane	ND	ND	35.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	1,1,2,2-Tetrachloroethane	ND	ND	35.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	39.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	39.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	1,1,2-Trichloroethane	ND	ND	28.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	1,1,2-Trichloroethane	ND	ND	28.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	1,1-Dichloroethane	ND	ND	41.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	1,1-Dichloroethane	ND	ND	41.0		NA	OK

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Location	Analysis
SAIA-SB/SG22	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	1,1-Dichloroethene	26.0	40.0	20.0	42.4	Out	NA
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	1,1-Dichloroethene	ND	ND	20.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	1,1-Difluoroethane	ND	ND	27.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	1,1-Difluoroethane	ND	ND	27.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	1,2,4-Trichlorobenzene	ND	ND	38.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	1,2,4-Trichlorobenzene	ND	ND	38.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	1,2,4-Trimethylbenzene	ND	ND	25.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	1,2,4-Trimethylbenzene	69.0	43.0	25.0	46.4	Out	NA
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	1,2-Dichloroethane	ND	ND	21.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	1,2-Dichloroethane	ND	ND	21.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	1,3,5-Trimethylbenzene	ND	ND	25.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	1,3,5-Trimethylbenzene	ND	ND	25.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	1,4-Dichlorobenzene	ND	ND	30.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	1,4-Dichlorobenzene	ND	ND	30.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	1,4-Dioxane (p-Dioxane)	ND	ND	36.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	1,4-Dioxane (p-Dioxane)	ND	ND	36.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	Benzene	ND	ND	16.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	Benzene	ND	ND	16.0		NA	OK

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Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	Bromodichloromethane	ND	ND	34.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	Bromodichloromethane	ND	ND	34.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	Bromomethane	ND	ND	39.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	Bromomethane	ND	ND	39.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	Carbon Tetrachloride	ND	ND	13.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	Carbon Tetrachloride	ND	ND	13.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	Chloroethane	ND	ND	27.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	Chloroethane	ND	ND	27.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	Chloroform	ND	ND	25.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	Chloroform	ND	ND	25.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	Chloromethane	ND	ND	21.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	Chloromethane	ND	ND	21.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	cis-1,2-Dichloroethylene	190	210	40.0	10.0	OK	NA
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	cis-1,2-Dichloroethylene	ND	ND	40.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	Dichlorodifluoromethane	47.0	51.0	25.0	8.16	OK	NA
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	Dichlorodifluoromethane	ND	ND	25.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	Ethylbenzene	ND	ND	22.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	Ethylbenzene	ND	ND	22.0		NA	OK

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Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	Isopropylbenzene (Cumene)	ND	ND	25.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	Isopropylbenzene (Cumene)	ND	ND	25.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	m,p-Xylene	ND	ND	44.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	m,p-Xylene	ND	ND	44.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	Methylene Chloride	ND	ND	18.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	Methylene Chloride	ND	ND	18.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	n-Butylbenzene	ND	ND	28.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	n-Butylbenzene	76.0	59.0	28.0	25.2	OK	NA
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	n-Propylbenzene	ND	ND	25.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	n-Propylbenzene	ND	ND	25.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	Naphthalene	ND	ND	27.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	Naphthalene	ND	ND	27.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	o-Xylene	ND	ND	22.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	o-Xylene	ND	ND	22.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	p-Cymene (p-Isopropyltoluene)	ND	ND	28.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	p-Cymene (p-Isopropyltoluene)	61.0	46.0	28.0	28.0	OK	NA
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	sec-Butylbenzene	ND	ND	28.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	sec-Butylbenzene	44.0	ND	28.0		NA	OK

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Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	tert-Butylbenzene	ND	ND	28.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	tert-Butylbenzene	ND	ND	28.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	Tetrachloroethene (PCE)	ND	ND	34.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	Tetrachloroethene (PCE)	35.0	ND	34.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	Toluene	23.0	20.0	19.0	14.0	OK	NA
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	Toluene	ND	ND	19.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	trans-1,2-Dichloroethene	ND	ND	40.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	trans-1,2-Dichloroethene	ND	ND	40.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	Trichloroethene (TCE)	120	110	27.0	8.70	OK	NA
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	Trichloroethene (TCE)	86.0	100	27.0	15.1	OK	NA
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	Trichlorofluoromethane	ND	ND	28.0		NA	OK
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	Trichlorofluoromethane	ND	ND	28.0		NA	OK
Apr 30 2014	SAIA-SB/SG-22-35, P578cc / SAIA-SB/SG-22-35 Rep, P628cc	E404099-01 / E404099-02	Vinyl Chloride	90.0	73.0	13.0	20.9	OK	NA
Apr 29 2014	SAIA-SB/SG-22-5, P816cc / SAIA-SB/SG-22-5 Rep, P866cc	E404095-06 / E404095-07	Vinyl Chloride	64.0	32.0	13.0	66.7	Out	NA

Location	Analysis
SAIA-SB/SG25	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	1,1,1,2-Tetrachloroethane	ND	ND	35.0		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	1,1,1-Trichloroethane	ND	ND	28.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	1,1,2,2-Tetrachloroethane	ND	ND	35.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	39.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	1,1,2-Trichloroethane	ND	ND	28.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	1,1-Dichloroethane	ND	ND	41.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	1,1-Dichloroethene	ND	ND	20.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	1,1-Difluoroethane	ND	ND	27.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	1,2,4-Trichlorobenzene	ND	ND	38.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	1,2,4-Trimethylbenzene	ND	ND	25.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	1,2-Dichloroethane	ND	ND	21.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	1,3,5-Trimethylbenzene	ND	ND	25.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	1,4-Dichlorobenzene	ND	ND	30.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	1,4-Dioxane (p-Dioxane)	ND	ND	36.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	Benzene	20.0	26.0	16.0	26.1	OK	NA
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	Bromodichloromethane	ND	ND	34.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	Bromomethane	ND	ND	39.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	Carbon Tetrachloride	ND	ND	13.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	Chloroethane	ND	ND	27.0		NA	OK

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Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	Chloroform	ND	ND	25.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	Chloromethane	ND	ND	21.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	cis-1,2-Dichloroethylene	ND	ND	40.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	Dichlorodifluoromethane	ND	ND	25.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	Ethylbenzene	ND	ND	22.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	Isopropylbenzene (Cumene)	ND	ND	25.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	m,p-Xylene	ND	ND	44.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	Methylene Chloride	ND	ND	18.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	n-Butylbenzene	ND	ND	28.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	n-Propylbenzene	ND	ND	25.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	Naphthalene	ND	ND	27.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	o-Xylene	ND	ND	22.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	p-Cymene (p-Isopropyltoluene)	ND	ND	28.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	sec-Butylbenzene	ND	ND	28.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	tert-Butylbenzene	ND	ND	28.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	Tetrachloroethene (PCE)	4100	3400	34.0	18.7	OK	NA
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	Toluene	ND	ND	19.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	trans-1,2-Dichloroethene	ND	ND	40.0		NA	OK

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Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	Trichloroethene (TCE)	ND	ND	27.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	Trichlorofluoromethane	ND	ND	28.0		NA	OK
Apr 28 2014	SAIA-SB/SG-25-15, P913cc / SAIA-SB/SG-25-15 Rep, P963cc	E404090-06 / E404090-07	Vinyl Chloride	ND	ND	13.0		NA	OK

Location	Analysis
SAIA-SB/SG26	C245.5

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	F2027-13 / F2027-14	Mercury	0.210	0.150	0.110	33.3	OK	NA
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	F2027-17 / F2027-18	Mercury	0.140	0.0480 J	0.110	97.9	NA	OK

Location	Analysis
SAIA-SB/SG26	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	1,2,4,5-Tetrachlorobenzene	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	1,2,4,5-Tetrachlorobenzene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	2,3,4,6-Tetrachlorophenol	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	2,3,4,6-Tetrachlorophenol	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	2,4,5-Trichlorophenol	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	2,4,5-Trichlorophenol	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	2,4,6-Trichlorophenol	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	2,4,6-Trichlorophenol	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	2,4-Dichlorophenol	ND	ND	180		NA	OK

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Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	2,4-Dichlorophenol	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	2,4-Dimethylphenol	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	2,4-Dimethylphenol	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	2,4-Dinitrophenol	ND	ND	350		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	2,4-Dinitrophenol	ND	ND	390		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	2,4-Dinitrotoluene	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	2,4-Dinitrotoluene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	2,6-Dinitrotoluene	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	2,6-Dinitrotoluene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	2-Chloronaphthalene	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	2-Chloronaphthalene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	2-Chlorophenol	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	2-Chlorophenol	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	2-Methylnaphthalene	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	2-Methylnaphthalene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	2-Methylphenol (o-Cresol)	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	2-Methylphenol (o-Cresol)	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	2-Nitroaniline	ND	ND	350		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	2-Nitroaniline	ND	ND	390		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	2-Nitrophenol	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	2-Nitrophenol	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	3,3'-Dichlorobenzidine	ND	ND	180		NA	OK

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Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	3,3'-Dichlorobenzidine	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	3-Nitroaniline	ND	ND	350		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	3-Nitroaniline	ND	ND	390		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	4,6-Dinitro-2-Methylphenol	ND	ND	350		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	4,6-Dinitro-2-Methylphenol	ND	ND	390		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	4-Bromophenyl phenyl ether	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	4-Bromophenyl phenyl ether	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	4-Chloro-3-Methylphenol	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	4-Chloro-3-Methylphenol	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	4-Chloroaniline	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	4-Chloroaniline	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	4-Chlorophenyl Phenyl Ether	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	4-Chlorophenyl Phenyl Ether	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	4-Methylphenol (p-Cresol)	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	4-Methylphenol (p-Cresol)	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	4-Nitroaniline	ND	ND	350		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	4-Nitroaniline	ND	ND	390		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	4-Nitrophenol	ND	ND	350		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	4-Nitrophenol	ND	ND	390		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Acenaphthene	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Acenaphthene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Acenaphthylene	ND	ND	180		NA	OK

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Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Acenaphthylene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Acetophenone	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Acetophenone	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Anthracene	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Anthracene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Atrazine	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Atrazine	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Benzaldehyde	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Benzaldehyde	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Benzo(a)anthracene	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Benzo(a)anthracene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Benzo(a)pyrene	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Benzo(a)pyrene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Benzo(b)fluoranthene	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Benzo(b)fluoranthene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Benzo(g,h,i)perylene	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Benzo(g,h,i)perylene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Benzo(k)fluoranthene	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Benzo(k)fluoranthene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Benzyl butyl phthalate	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Benzyl butyl phthalate	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Biphenyl (Diphenyl)	ND	ND	180		NA	OK

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Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Biphenyl (Diphenyl)	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	bis(2-Chloroethoxy) Methane	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	bis(2-Chloroethoxy) Methane	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	bis(2-Chloroisopropyl) Ether	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	bis(2-Chloroisopropyl) Ether	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	bis(2-Ethylhexyl) Phthalate	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	bis(2-Ethylhexyl) Phthalate	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Caprolactam	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Caprolactam	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Carbazole	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Carbazole	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Chrysene	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Chrysene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Di-n-Butyl Phthalate	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Di-n-Butyl Phthalate	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Di-n-Octylphthalate	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Di-n-Octylphthalate	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Dibenz(a,h)anthracene	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Dibenz(a,h)anthracene	ND	ND	200		NA	OK

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Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Dibenzofuran	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Dibenzofuran	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Diethyl Phthalate	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Diethyl Phthalate	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Dimethyl Phthalate	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Dimethyl Phthalate	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Fluoranthene	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Fluoranthene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Fluorene	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Fluorene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Hexachlorobenzene	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Hexachlorobenzene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Hexachlorobutadiene	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Hexachlorobutadiene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Hexachlorocyclopentadiene	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Hexachlorocyclopentadiene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Hexachloroethane	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Hexachloroethane	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Indeno(1,2,3-c,d)pyrene	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Indeno(1,2,3-c,d)pyrene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Isophorone	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Isophorone	ND	ND	200		NA	OK

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Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	n-Nitrosodi-n-propylamine	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	n-Nitrosodi-n-propylamine	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	n-Nitrosodiphenylamine	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	n-Nitrosodiphenylamine	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Naphthalene	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Naphthalene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Nitrobenzene	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Nitrobenzene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Pentachlorophenol	ND	ND	350		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Pentachlorophenol	ND	ND	390		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Phenanthrene	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Phenanthrene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Phenol	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Phenol	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Pyrene	ND	ND	180		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Pyrene	ND	ND	200		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	1,1,1-Trichloroethane	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	1,1,1-Trichloroethane	ND	ND	6.10		NA	OK

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Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	1,1,2,2-Tetrachloroethane	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	1,1,2,2-Tetrachloroethane	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	1,1,2-Trichloroethane	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	1,1,2-Trichloroethane	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	1,1-Dichloroethane	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	1,1-Dichloroethane	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	1,1-Dichloroethene	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	1,1-Dichloroethene	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	1,2,3-Trichlorobenzene	6.60	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	1,2,3-Trichlorobenzene	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	1,2,3-Trichloropropane	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	1,2,3-Trichloropropane	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	1,2,4-Trichlorobenzene	48.0	ND	5.20		NA	48
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	1,2,4-Trichlorobenzene	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	1,2-Dibromo-3-chloropropane	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	1,2-Dibromo-3-chloropropane	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	1,2-Dibromoethane (EDB)	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	1,2-Dibromoethane (EDB)	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	1,2-Dichlorobenzene	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	1,2-Dichlorobenzene	ND	ND	6.10		NA	OK

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Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	1,2-Dichloroethane	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	1,2-Dichloroethane	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	1,2-Dichloropropane	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	1,2-Dichloropropane	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	1,3-Dichlorobenzene	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	1,3-Dichlorobenzene	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	1,4-Dichlorobenzene	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	1,4-Dichlorobenzene	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	1,4-Dioxane (p-Dioxane)	ND	ND	100		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	1,4-Dioxane (p-Dioxane)	ND	ND	120		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	2-Butanone (MEK)	ND	ND	10.0		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	2-Butanone (MEK)	ND	ND	12.0		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	2-Hexanone	ND	ND	10.0		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	2-Hexanone	ND	ND	12.0		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	4-Methyl-2-pentanone (MIBK)	ND	ND	10.0		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	4-Methyl-2-pentanone (MIBK)	ND	ND	12.0		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Acetone	ND	ND	10.0		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Acetone	ND	ND	12.0		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Benzene	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Benzene	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Bromochloromethane	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Bromochloromethane	ND	ND	6.10		NA	OK

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Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Bromodichloromethane	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Bromodichloromethane	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Bromoform	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Bromoform	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Bromomethane	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Bromomethane	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Carbon Disulfide	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Carbon Disulfide	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Carbon Tetrachloride	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Carbon Tetrachloride	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Chlorobenzene	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Chlorobenzene	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Chloroethane	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Chloroethane	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Chloroform	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Chloroform	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Chloromethane	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Chloromethane	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	cis-1,2-Dichloroethylene	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	cis-1,2-Dichloroethylene	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	cis-1,3-Dichloropropene	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	cis-1,3-Dichloropropene	ND	ND	6.10		NA	OK

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Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Cyclohexane	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Cyclohexane	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Dibromochloromethane	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Dibromochloromethane	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Dichlorodifluoromethane	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Dichlorodifluoromethane	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Ethylbenzene	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Ethylbenzene	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Isopropylbenzene (Cumene)	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Isopropylbenzene (Cumene)	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	m,p-Xylene	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	m,p-Xylene	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Methyl Acetate	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Methyl Acetate	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Methylcyclohexane	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Methylcyclohexane	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Methylene Chloride	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Methylene Chloride	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	o-Xylene	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	o-Xylene	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Styrene	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Styrene	ND	ND	6.10		NA	OK

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Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	tert-Butyl Methyl Ether (MTBE)	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	tert-Butyl Methyl Ether (MTBE)	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Tetrachloroethene (PCE)	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Tetrachloroethene (PCE)	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Toluene	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Toluene	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	trans-1,2-Dichloroethene	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	trans-1,2-Dichloroethene	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	trans-1,3-Dichloropropene	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	trans-1,3-Dichloropropene	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Trichloroethene (TCE)	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Trichloroethene (TCE)	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Trichlorofluoromethane	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Trichlorofluoromethane	ND	ND	6.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	Vinyl Chloride	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	Vinyl Chloride	ND	ND	6.10		NA	OK

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Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	F2027-13 / F2027-14	Aluminum	9650	10200	16.3	5.54	OK	NA
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	F2027-17 / F2027-18	Aluminum	21700	20600	16.8	5.20	OK	NA

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Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	F2027-13 / F2027-14	Antimony	20.1	29.3	4.90	37.2	Out	NA
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	F2027-17 / F2027-18	Antimony	ND	ND	5.00		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	F2027-13 / F2027-14	Arsenic	6.20	6.70	0.810	7.75	OK	NA
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	F2027-17 / F2027-18	Arsenic	4.20	3.90	0.840	7.41	OK	NA
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	F2027-13 / F2027-14	Barium	189	211	16.3	11.0	OK	NA
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	F2027-17 / F2027-18	Barium	170	167	16.8	1.78	OK	NA
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	F2027-13 / F2027-14	Beryllium	0.470	0.440	0.410	6.59	OK	NA
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	F2027-17 / F2027-18	Beryllium	0.730	0.710	0.420	2.78	OK	NA
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	F2027-13 / F2027-14	Cadmium	26.7	31.0	0.410	14.9	OK	NA
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	F2027-17 / F2027-18	Cadmium	0.890	0.910	0.420	2.22	OK	NA
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	F2027-13 / F2027-14	Calcium	4150	6970	407	50.7	Out	NA
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	F2027-17 / F2027-18	Calcium	14300	13700	420	4.29	OK	NA
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	F2027-13 / F2027-14	Chromium	240	234	0.810	2.53	OK	NA
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	F2027-17 / F2027-18	Chromium	24.2	24.0	0.840	0.830	OK	NA
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	F2027-13 / F2027-14	Cobalt	21.6	21.3	4.10	1.40	OK	NA
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	F2027-17 / F2027-18	Cobalt	13.2	13.3	4.20	0.755	OK	NA
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	F2027-13 / F2027-14	Copper	187	199	2.00	6.22	OK	NA
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	F2027-17 / F2027-18	Copper	26.3	25.3	2.10	3.88	OK	NA
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	F2027-13 / F2027-14	Iron	22100	22000	8.10	0.454	OK	NA
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	F2027-17 / F2027-18	Iron	31400	31500	8.40	0.318	OK	NA
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	F2027-13 / F2027-14	Lead	1360	1850	0.810	30.5	OK	NA
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	F2027-17 / F2027-18	Lead	6.80	6.20	0.840	9.23	OK	NA

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Location	Analysis
SAIA-SB/SG26	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	F2027-13 / F2027-14	Magnesium	4310	4490	407	4.09	OK	NA
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	F2027-17 / F2027-18	Magnesium	9300	9000	420	3.28	OK	NA
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	F2027-13 / F2027-14	Manganese	404	418	1.20	3.41	OK	NA
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	F2027-17 / F2027-18	Manganese	452	448	1.30	0.889	OK	NA
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	F2027-13 / F2027-14	Nickel	152	136	3.30	11.1	OK	NA
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	F2027-17 / F2027-18	Nickel	19.5	19.1	3.40	2.07	OK	NA
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	F2027-13 / F2027-14	Potassium	2080	2450	407	16.3	OK	NA
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	F2027-17 / F2027-18	Potassium	4660	4520	420	3.05	OK	NA
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	F2027-13 / F2027-14	Selenium	2.90	2.70	2.80	7.14		OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	F2027-17 / F2027-18	Selenium	3.20	3.00	2.90	6.45		OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	F2027-13 / F2027-14	Silver	1.90	2.40	0.810	23.3	OK	NA
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	F2027-17 / F2027-18	Silver	ND	ND	0.840		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	F2027-13 / F2027-14	Sodium	334 J	331 J	407	0.902	NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	F2027-17 / F2027-18	Sodium	561	524	420	6.82	OK	NA
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	F2027-13 / F2027-14	Thallium	ND	ND	2.00		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	F2027-17 / F2027-18	Thallium	ND	ND	2.10		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	F2027-13 / F2027-14	Vanadium	39.1	41.6	4.10	6.20	OK	NA
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	F2027-17 / F2027-18	Vanadium	63.3	63.3	4.20	0.00	OK	NA
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	F2027-13 / F2027-14	Zinc	1350	1550	4.90	13.8	OK	NA
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	F2027-17 / F2027-18	Zinc	70.1	66.6	5.00	5.12	OK	NA

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Location	Analysis
SAIA-SB/SG26	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	PCB-1016 (Arochlor 1016)	ND	ND	35.0		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	PCB-1016 (Arochlor 1016)	ND	ND	39.0		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	PCB-1221 (Arochlor 1221)	ND	ND	35.0		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	PCB-1221 (Arochlor 1221)	ND	ND	39.0		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	PCB-1232 (Arochlor 1232)	ND	ND	35.0		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	PCB-1232 (Arochlor 1232)	ND	ND	39.0		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	PCB-1242 (Arochlor 1242)	ND	ND	35.0		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	PCB-1242 (Arochlor 1242)	ND	ND	39.0		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	PCB-1248 (Arochlor 1248)	ND	ND	35.0		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	PCB-1248 (Arochlor 1248)	ND	ND	39.0		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	PCB-1254 (Arochlor 1254)	ND	ND	35.0		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	PCB-1254 (Arochlor 1254)	ND	ND	39.0		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	PCB-1260 (Arochlor 1260)	7300	3000	1800	83.5	Out	NA
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	PCB-1260 (Arochlor 1260)	ND	ND	39.0		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	PCB-1262 (Arochlor 1262)	ND	ND	35.0		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	PCB-1262 (Arochlor 1262)	ND	ND	39.0		NA	OK
Apr 16 2014	SAIA-SB26-0.5 / SAIA-SB26-0.6	S-6425.11 / S-6425.12	PCB-1268 (Arochlor 1268)	ND	ND	35.0		NA	OK
Apr 16 2014	SAIA-SB26-15 / SAIA-SB26-16	S-6425.15 / S-6425.16	PCB-1268 (Arochlor 1268)	ND	ND	39.0		NA	OK

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Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	1,1,1,2-Tetrachloroethane	ND	ND	35.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	1,1,1-Trichloroethane	ND	ND	28.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	1,1,2,2-Tetrachloroethane	ND	ND	35.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	39.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	1,1,2-Trichloroethane	ND	ND	28.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	1,1-Dichloroethane	ND	ND	41.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	1,1-Dichloroethene	ND	ND	20.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	1,1-Difluoroethane	ND	ND	27.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	1,2,4-Trichlorobenzene	65.0	72.0	38.0	10.2	OK	NA
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	1,2,4-Trimethylbenzene	ND	ND	25.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	1,2-Dichloroethane	ND	ND	21.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	1,3,5-Trimethylbenzene	ND	ND	25.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	1,4-Dichlorobenzene	770	770	30.0	0.00	OK	NA
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	1,4-Dioxane (p-Dioxane)	ND	ND	36.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	Benzene	41.0	46.0	16.0	11.5	OK	NA
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	Bromodichloromethane	ND	ND	34.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	Bromomethane	ND	ND	39.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	Carbon Tetrachloride	ND	ND	13.0		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	Chloroethane	ND	ND	27.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	Chloroform	ND	ND	25.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	Chloromethane	ND	ND	21.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	cis-1,2-Dichloroethylene	290	240	40.0	18.9	OK	NA
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	Dichlorodifluoromethane	ND	ND	25.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	Ethylbenzene	ND	ND	22.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	Isopropylbenzene (Cumene)	ND	ND	25.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	m,p-Xylene	ND	ND	44.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	Methylene Chloride	ND	ND	18.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	n-Butylbenzene	ND	ND	28.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	n-Propylbenzene	ND	ND	25.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	Naphthalene	ND	ND	27.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	o-Xylene	ND	ND	22.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	p-Cymene (p-Isopropyltoluene)	ND	ND	28.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	sec-Butylbenzene	ND	ND	28.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	tert-Butylbenzene	ND	ND	28.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	Tetrachloroethene (PCE)	65.0	36.0	34.0	57.4	Out	NA
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	Toluene	ND	ND	19.0		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	trans-1,2-Dichloroethene	ND	ND	40.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	Trichloroethene (TCE)	950	740	27.0	24.9	OK	NA
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	Trichlorofluoromethane	ND	ND	28.0		NA	OK
Apr 23 2014	SAIA-SB/SG-26-5, P816cc / SAIA-SB/SG-26-5 Rep, P866cc	E404074-09 / E404074-10	Vinyl Chloride	ND	ND	13.0		NA	OK

Location	Analysis
SAIA-SB/SG28	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	1,1,1,2-Tetrachloroethane	ND	ND	35.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	1,1,1-Trichloroethane	ND	ND	28.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	1,1,2,2-Tetrachloroethane	ND	ND	35.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	39.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	1,1,2-Trichloroethane	ND	ND	28.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	1,1-Dichloroethane	ND	ND	41.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	1,1-Dichloroethene	ND	ND	20.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	1,1-Difluoroethane	ND	ND	27.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	1,2,4-Trichlorobenzene	ND	ND	38.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	1,2,4-Trimethylbenzene	ND	ND	25.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	1,2-Dichloroethane	ND	ND	21.0		NA	OK

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SAIA-SB/SG28	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	1,3,5-Trimethylbenzene	ND	ND	25.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	1,4-Dichlorobenzene	ND	ND	30.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	1,4-Dioxane (p-Dioxane)	ND	ND	36.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	Benzene	ND	ND	16.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	Bromodichloromethane	ND	ND	34.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	Bromomethane	ND	ND	39.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	Carbon Tetrachloride	ND	ND	13.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	Chloroethane	ND	ND	27.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	Chloroform	ND	ND	25.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	Chloromethane	ND	ND	21.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	cis-1,2-Dichloroethylene	ND	ND	40.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	Dichlorodifluoromethane	ND	ND	25.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	Ethylbenzene	ND	ND	22.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	Isopropylbenzene (Cumene)	ND	ND	25.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	m,p-Xylene	ND	ND	44.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	Methylene Chloride	ND	ND	18.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	n-Butylbenzene	ND	ND	28.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	n-Propylbenzene	ND	ND	25.0		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	Naphthalene	ND	ND	27.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	o-Xylene	ND	ND	22.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	p-Cymene (p-Isopropyltoluene)	ND	ND	28.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	sec-Butylbenzene	ND	ND	28.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	tert-Butylbenzene	ND	ND	28.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	Tetrachloroethene (PCE)	690	540	34.0	24.4	OK	NA
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	Toluene	ND	ND	19.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	trans-1,2-Dichloroethene	ND	ND	40.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	Trichloroethene (TCE)	ND	ND	27.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	Trichlorofluoromethane	ND	ND	28.0		NA	OK
Apr 24 2014	SAIA-SB/SG-28-15, P913cc / SAIA-SB/SG-28-15 Rep, P963cc	E404080-07 / E404080-08	Vinyl Chloride	ND	ND	13.0		NA	OK

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Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	F2027-21 / F2027-22	Mercury	0.0320 J	0.0820 J	0.100	87.7	NA	OK

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Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	1,2,4,5-Tetrachlorobenzene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	2,3,4,6-Tetrachlorophenol	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	2,4,5-Trichlorophenol	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	2,4,6-Trichlorophenol	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	2,4-Dichlorophenol	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	2,4-Dimethylphenol	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	2,4-Dinitrophenol	ND	ND	400		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	2,4-Dinitrotoluene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	2,6-Dinitrotoluene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	2-Chloronaphthalene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	2-Chlorophenol	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	2-Methylnaphthalene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	2-Methylphenol (o-Cresol)	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	2-Nitroaniline	ND	ND	400		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	2-Nitrophenol	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	3,3'-Dichlorobenzidine	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	3-Nitroaniline	ND	ND	400		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	4,6-Dinitro-2-Methylphenol	ND	ND	400		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	4-Bromophenyl phenyl ether	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	4-Chloro-3-Methylphenol	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	4-Chloroaniline	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	4-Chlorophenyl Phenyl Ether	ND	ND	200		NA	OK

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Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	4-Methylphenol (p-Cresol)	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	4-Nitroaniline	ND	ND	400		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	4-Nitrophenol	ND	ND	400		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Acenaphthene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Acenaphthylene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Acetophenone	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Anthracene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Atrazine	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Benzaldehyde	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Benzo(a)anthracene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Benzo(a)pyrene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Benzo(b)fluoranthene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Benzo(g,h,i)perylene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Benzo(k)fluoranthene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Benzyl butyl phthalate	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Biphenyl (Diphenyl)	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	bis(2-Chloroethoxy) Methane	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	bis(2-Chloroisopropyl) Ether	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	bis(2-Ethylhexyl) Phthalate	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Caprolactam	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Carbazole	ND	ND	200		NA	OK

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Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Chrysene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Di-n-Butyl Phthalate	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Di-n-Octylphthalate	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Dibenz(a,h)anthracene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Dibenzofuran	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Diethyl Phthalate	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Dimethyl Phthalate	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Fluoranthene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Fluorene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Hexachlorobenzene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Hexachlorobutadiene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Hexachlorocyclopentadiene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Hexachloroethane	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Indeno(1,2,3-c,d)pyrene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Isophorone	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	n-Nitrosodi-n-propylamine	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	n-Nitrosodiphenylamine	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Naphthalene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Nitrobenzene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Pentachlorophenol	ND	ND	400		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Phenanthrene	ND	ND	200		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Phenol	ND	ND	200		NA	OK

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Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Pyrene	ND	ND	200		NA	OK

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Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	1,1,1-Trichloroethane	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	1,1,2,2-Tetrachloroethane	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	1,1,2-Trichloroethane	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	1,1-Dichloroethane	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	1,1-Dichloroethene	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	1,2,3-Trichlorobenzene	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	1,2,3-Trichloropropane	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	1,2,4-Trichlorobenzene	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	1,2-Dibromo-3-chloropropane	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	1,2-Dibromoethane (EDB)	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	1,2-Dichlorobenzene	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	1,2-Dichloroethane	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	1,2-Dichloropropane	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	1,3-Dichlorobenzene	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	1,4-Dichlorobenzene	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	1,4-Dioxane (p-Dioxane)	ND	ND	110		NA	OK

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Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	2-Butanone (MEK)	ND	ND	11.0		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	2-Hexanone	ND	ND	11.0		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	4-Methyl-2-pentanone (MIBK)	ND	ND	11.0		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Acetone	ND	ND	11.0		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Benzene	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Bromochloromethane	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Bromodichloromethane	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Bromoform	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Bromomethane	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Carbon Disulfide	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Carbon Tetrachloride	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Chlorobenzene	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Chloroethane	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Chloroform	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Chloromethane	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	cis-1,2-Dichloroethylene	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	cis-1,3-Dichloropropene	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Cyclohexane	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Dibromochloromethane	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Dichlorodifluoromethane	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Ethylbenzene	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Isopropylbenzene (Cumene)	ND	ND	5.70		NA	OK

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Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	m,p-Xylene	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Methyl Acetate	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Methylcyclohexane	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Methylene Chloride	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	o-Xylene	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Styrene	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	tert-Butyl Methyl Ether (MTBE)	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Tetrachloroethene (PCE)	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Toluene	ND	1.20 J	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	trans-1,2-Dichloroethene	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	trans-1,3-Dichloropropene	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Trichloroethene (TCE)	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Trichlorofluoromethane	ND	ND	5.70		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	Vinyl Chloride	ND	ND	5.70		NA	OK

Location	Analysis
SAIA-SB/SG29	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	F2027-21 / F2027-22	Aluminum	19100	14700	17.4	26.0	OK	NA
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	F2027-21 / F2027-22	Antimony	ND	ND	5.20		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	F2027-21 / F2027-22	Arsenic	3.50	2.80	0.870	22.2	OK	NA
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	F2027-21 / F2027-22	Barium	176	138	17.4	24.2	OK	NA

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Location	Analysis
SAIA-SB/SG29	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	F2027-21 / F2027-22	Beryllium	0.680	0.500	0.440	30.5	OK	NA
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	F2027-21 / F2027-22	Cadmium	1.00	0.620	0.440	46.9	Out	NA
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	F2027-21 / F2027-22	Calcium	9500	7720	435	20.7	OK	NA
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	F2027-21 / F2027-22	Chromium	46.8	21.3	0.870	74.9	Out	NA
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	F2027-21 / F2027-22	Cobalt	25.0	10.1	4.40	84.9	Out	NA
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	F2027-21 / F2027-22	Copper	28.9	17.9	2.20	47.0	Out	NA
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	F2027-21 / F2027-22	Iron	31700	23800	8.70	28.5	OK	NA
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	F2027-21 / F2027-22	Lead	18.3	5.50	0.870	108	Out	NA
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	F2027-21 / F2027-22	Magnesium	8540	6570	435	26.1	OK	NA
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	F2027-21 / F2027-22	Manganese	444	321	1.30	32.2	OK	NA
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	F2027-21 / F2027-22	Nickel	20.4	13.3	3.50	42.1	Out	NA
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	F2027-21 / F2027-22	Potassium	5300	4140	435	24.6	OK	NA
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	F2027-21 / F2027-22	Selenium	4.20	2.50 J	3.00	50.7	NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	F2027-21 / F2027-22	Silver	1.00	ND	0.870		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	F2027-21 / F2027-22	Sodium	ND	ND	435		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	F2027-21 / F2027-22	Thallium	ND	ND	2.20		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	F2027-21 / F2027-22	Vanadium	66.8	46.0	4.40	36.9	Out	NA
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	F2027-21 / F2027-22	Zinc	86.6	54.4	5.20	45.7	Out	NA

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Location	Analysis
SAIA-SB/SG29	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	PCB-1016 (Arochlor 1016)	ND	ND	39.0		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	PCB-1221 (Arochlor 1221)	ND	ND	39.0		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	PCB-1232 (Arochlor 1232)	ND	ND	39.0		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	PCB-1242 (Arochlor 1242)	ND	ND	39.0		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	PCB-1248 (Arochlor 1248)	ND	ND	39.0		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	PCB-1254 (Arochlor 1254)	ND	ND	39.0		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	PCB-1260 (Arochlor 1260)	5.30 J	15.0 J	39.0	95.6	NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	PCB-1262 (Arochlor 1262)	ND	ND	39.0		NA	OK
Apr 16 2014	SAIA-SB29-5 / SAIA-SB29-6	S-6425.19 / S-6425.20	PCB-1268 (Arochlor 1268)	ND	ND	39.0		NA	OK

Location	Analysis
SAIA-SB/SG31	C245.5

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	F1998-19 / F1998-18	Mercury	ND	ND	0.0900		NA	OK

Location	Analysis
SAIA-SB/SG31	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	1,2,4,5-Tetrachlorobenzene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	2,3,4,6-Tetrachlorophenol	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	2,4,5-Trichlorophenol	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	2,4,6-Trichlorophenol	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	2,4-Dichlorophenol	ND	ND	180		NA	OK

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Location	Analysis
SAIA-SB/SG31	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	2,4-Dimethylphenol	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	2,4-Dinitrophenol	ND	ND	340		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	2,4-Dinitrotoluene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	2,6-Dinitrotoluene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	2-Chloronaphthalene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	2-Chlorophenol	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	2-Methylnaphthalene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	2-Methylphenol (o-Cresol)	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	2-Nitroaniline	ND	ND	340		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	2-Nitrophenol	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	3,3'-Dichlorobenzidine	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	3-Nitroaniline	ND	ND	340		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	4,6-Dinitro-2-Methylphenol	ND	ND	340		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	4-Bromophenyl phenyl ether	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	4-Chloro-3-Methylphenol	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	4-Chloroaniline	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	4-Chlorophenyl Phenyl Ether	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	4-Methylphenol (p-Cresol)	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	4-Nitroaniline	ND	ND	340		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	4-Nitrophenol	ND	ND	340		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Acenaphthene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Acenaphthylene	ND	ND	180		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Acetophenone	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Anthracene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Atrazine	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Benzaldehyde	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Benzo(a)anthracene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Benzo(a)pyrene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Benzo(b)fluoranthene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Benzo(g,h,i)perylene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Benzo(k)fluoranthene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Benzyl butyl phthalate	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Biphenyl (Diphenyl)	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	bis(2-Chloroethoxy) Methane	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	bis(2-Chloroisopropyl) Ether	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	bis(2-Ethylhexyl) Phthalate	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Caprolactam	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Carbazole	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Chrysene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Di-n-Butyl Phthalate	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Di-n-Octylphthalate	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Dibenz(a,h)anthracene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Dibenzofuran	ND	ND	180		NA	OK

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SAIA-SB/SG31	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Diethyl Phthalate	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Dimethyl Phthalate	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Fluoranthene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Fluorene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Hexachlorobenzene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Hexachlorobutadiene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Hexachlorocyclopentadiene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Hexachloroethane	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Indeno(1,2,3-c,d)pyrene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Isophorone	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	n-Nitrosodi-n-propylamine	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	n-Nitrosodiphenylamine	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Naphthalene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Nitrobenzene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Pentachlorophenol	ND	ND	340		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Phenanthrene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Phenol	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Pyrene	ND	ND	180		NA	OK

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Location	Analysis
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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	1,1,1-Trichloroethane	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	1,1,2,2-Tetrachloroethane	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	1,1,2-Trichloro-1,2,2-trifluoroethane	1.00 J	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	1,1,2-Trichloroethane	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	1,1-Dichloroethane	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	1,1-Dichloroethene	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	1,2,3-Trichlorobenzene	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	1,2,3-Trichloropropane	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	1,2,4-Trichlorobenzene	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	1,2-Dibromo-3-chloropropane	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	1,2-Dibromoethane (EDB)	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	1,2-Dichlorobenzene	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	1,2-Dichloroethane	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	1,2-Dichloropropane	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	1,3-Dichlorobenzene	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	1,4-Dichlorobenzene	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	1,4-Dioxane (p-Dioxane)	ND	ND	110		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	2-Butanone (MEK)	ND	ND	11.0		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	2-Hexanone	ND	ND	11.0		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	4-Methyl-2-pentanone (MIBK)	ND	ND	11.0		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Acetone	ND	ND	11.0		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Benzene	ND	ND	5.60		NA	OK

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Location	Analysis
SAIA-SB/SG31	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Bromochloromethane	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Bromodichloromethane	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Bromoform	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Bromomethane	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Carbon Disulfide	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Carbon Tetrachloride	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Chlorobenzene	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Chloroethane	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Chloroform	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Chloromethane	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	cis-1,2-Dichloroethylene	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	cis-1,3-Dichloropropene	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Cyclohexane	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Dibromochloromethane	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Dichlorodifluoromethane	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Ethylbenzene	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Isopropylbenzene (Cumene)	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	m,p-Xylene	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Methyl Acetate	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Methylcyclohexane	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Methylene Chloride	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	o-Xylene	ND	ND	5.60		NA	OK

Data Quality Summary Report
Field Duplicate Report By Event and Site
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Location	Analysis
SAIA-SB/SG31	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Styrene	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	tert-Butyl Methyl Ether (MTBE)	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Tetrachloroethene (PCE)	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Toluene	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	trans-1,2-Dichloroethene	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	trans-1,3-Dichloropropene	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Trichloroethene (TCE)	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Trichlorofluoromethane	ND	ND	5.60		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	Vinyl Chloride	ND	ND	5.60		NA	OK

Location	Analysis
SAIA-SB/SG31	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	F1998-19 / F1998-18	Aluminum	8090	7570	15.5	6.64	OK	NA
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	F1998-19 / F1998-18	Antimony	ND	0.160 J	4.70		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	F1998-19 / F1998-18	Arsenic	10.0	9.10	0.780	9.42	OK	NA
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	F1998-19 / F1998-18	Barium	84.0	75.6	15.5	10.5	OK	NA
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	F1998-19 / F1998-18	Beryllium	0.330 J	0.320 J	0.390	3.08	NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	F1998-19 / F1998-18	Cadmium	ND	ND	0.390		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	F1998-19 / F1998-18	Calcium	4710	4260	388	10.0	OK	NA
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	F1998-19 / F1998-18	Chromium	8.80	7.90	0.780	10.8	OK	NA
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	F1998-19 / F1998-18	Cobalt	6.20	5.70	3.90	8.40	OK	NA

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Location	Analysis
SAIA-SB/SG31	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	F1998-19 / F1998-18	Copper	8.50	8.20	1.90	3.59	OK	NA
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	F1998-19 / F1998-18	Iron	14100	13000	7.80	8.12	OK	NA
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	F1998-19 / F1998-18	Lead	2.10	2.10	0.780	0.00	OK	NA
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	F1998-19 / F1998-18	Magnesium	4560	4230	388	7.51	OK	NA
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	F1998-19 / F1998-18	Manganese	221	200	1.20	9.98	OK	NA
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	F1998-19 / F1998-18	Nickel	7.00	6.40	3.10	8.96	OK	NA
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	F1998-19 / F1998-18	Potassium	2400	2230	388	7.34	OK	NA
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	F1998-19 / F1998-18	Selenium	1.40 J	1.20 J	2.70	15.4	NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	F1998-19 / F1998-18	Silver	ND	ND	0.780		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	F1998-19 / F1998-18	Sodium	376 J	371 J	388	1.34	NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	F1998-19 / F1998-18	Thallium	ND	ND	1.90		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	F1998-19 / F1998-18	Vanadium	24.3	22.3	3.90	8.58	OK	NA
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	F1998-19 / F1998-18	Zinc	33.7	31.3	4.70	7.38	OK	NA

Location	Analysis
SAIA-SB/SG31	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	PCB-1016 (Arochlor 1016)	ND	ND	34.0		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	PCB-1221 (Arochlor 1221)	ND	ND	34.0		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	PCB-1232 (Arochlor 1232)	ND	ND	34.0		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	PCB-1242 (Arochlor 1242)	ND	ND	34.0		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	PCB-1248 (Arochlor 1248)	ND	ND	34.0		NA	OK

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Location	Analysis
SAIA-SB/SG31	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	PCB-1254 (Arochlor 1254)	ND	ND	34.0		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	PCB-1260 (Arochlor 1260)	ND	ND	34.0		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	PCB-1262 (Arochlor 1262)	ND	ND	34.0		NA	OK
Apr 15 2014	SAIA-SB31-35 / SAIA-SB31-36	S-6422.13 / S-6422.12	PCB-1268 (Arochlor 1268)	ND	ND	34.0		NA	OK

Location	Analysis
SAIA-SB/SG33	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	1,1,1,2-Tetrachloroethane	ND	ND	35.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	1,1,1-Trichloroethane	ND	ND	28.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	1,1,2,2-Tetrachloroethane	ND	ND	35.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	39.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	1,1,2-Trichloroethane	ND	ND	28.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	1,1-Dichloroethane	ND	ND	41.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	1,1-Dichloroethene	ND	ND	20.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	1,1-Difluoroethane	ND	ND	27.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	1,2,4-Trichlorobenzene	ND	ND	38.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	1,2,4-Trimethylbenzene	ND	ND	25.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	1,2-Dichloroethane	ND	ND	21.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	1,3,5-Trimethylbenzene	ND	ND	25.0		NA	OK

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Location	Analysis
SAIA-SB/SG33	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	1,4-Dichlorobenzene	ND	ND	30.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	1,4-Dioxane (p-Dioxane)	ND	ND	36.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	Benzene	ND	ND	16.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	Bromodichloromethane	ND	ND	34.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	Bromomethane	ND	ND	39.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	Carbon Tetrachloride	ND	ND	13.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	Chloroethane	ND	ND	27.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	Chloroform	ND	ND	25.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	Chloromethane	ND	ND	21.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	cis-1,2-Dichloroethylene	ND	ND	40.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	Dichlorodifluoromethane	ND	ND	25.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	Ethylbenzene	ND	ND	22.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	Isopropylbenzene (Cumene)	ND	ND	25.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	m,p-Xylene	ND	ND	44.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	Methylene Chloride	ND	ND	18.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	n-Butylbenzene	ND	ND	28.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	n-Propylbenzene	ND	ND	25.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	Naphthalene	ND	ND	27.0		NA	OK

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Location	Analysis
SAIA-SB/SG33	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	o-Xylene	ND	ND	22.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	p-Cymene (p-Isopropyltoluene)	ND	ND	28.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	sec-Butylbenzene	ND	ND	28.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	tert-Butylbenzene	ND	ND	28.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	Tetrachloroethene (PCE)	470	410	34.0	13.6	OK	NA
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	Toluene	ND	ND	19.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	trans-1,2-Dichloroethene	ND	ND	40.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	Trichloroethene (TCE)	ND	ND	27.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	Trichlorofluoromethane	ND	ND	28.0		NA	OK
Apr 25 2014	SAIA-SB/SG-33-5, P816cc / SAIA-SB/SG-33-5 Rep, P866cc	E404085-07 / E404085-08	Vinyl Chloride	ND	ND	13.0		NA	OK

Location	Analysis
SAIA-SB/SG34	C245.5

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	F2018-15 / F2018-16	Mercury	0.0270 J	0.0270 J	0.0950	0.00	NA	OK

Location	Analysis
SAIA-SB/SG34	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	1,2,4,5-Tetrachlorobenzene	ND	ND	180		NA	OK

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Location	Analysis
SAIA-SB/SG34	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	2,3,4,6-Tetrachlorophenol	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	2,4,5-Trichlorophenol	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	2,4,6-Trichlorophenol	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	2,4-Dichlorophenol	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	2,4-Dimethylphenol	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	2,4-Dinitrophenol	ND	ND	350		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	2,4-Dinitrotoluene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	2,6-Dinitrotoluene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	2-Chloronaphthalene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	2-Chlorophenol	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	2-Methylnaphthalene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	2-Methylphenol (o-Cresol)	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	2-Nitroaniline	ND	ND	350		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	2-Nitrophenol	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	3,3'-Dichlorobenzidine	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	3-Nitroaniline	ND	ND	350		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	4,6-Dinitro-2-Methylphenol	ND	ND	350		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	4-Bromophenyl phenyl ether	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	4-Chloro-3-Methylphenol	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	4-Chloroaniline	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	4-Chlorophenyl Phenyl Ether	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	4-Methylphenol (p-Cresol)	ND	ND	180		NA	OK

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Location	Analysis
SAIA-SB/SG34	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	4-Nitroaniline	ND	ND	350		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	4-Nitrophenol	ND	ND	350		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Acenaphthene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Acenaphthylene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Acetophenone	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Anthracene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Atrazine	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Benzaldehyde	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Benzo(a)anthracene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Benzo(a)pyrene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Benzo(b)fluoranthene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Benzo(g,h,i)perylene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Benzo(k)fluoranthene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Benzyl butyl phthalate	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Biphenyl (Diphenyl)	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	bis(2-Chloroethoxy) Methane	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	bis(2-Chloroisopropyl) Ether	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	bis(2-Ethylhexyl) Phthalate	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Caprolactam	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Carbazole	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Chrysene	ND	ND	180		NA	OK

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Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Di-n-Butyl Phthalate	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Di-n-Octylphthalate	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Dibenz(a,h)anthracene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Dibenzofuran	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Diethyl Phthalate	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Dimethyl Phthalate	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Fluoranthene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Fluorene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Hexachlorobenzene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Hexachlorobutadiene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Hexachlorocyclopentadiene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Hexachloroethane	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Indeno(1,2,3-c,d)pyrene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Isophorone	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	n-Nitrosodi-n-propylamine	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	n-Nitrosodiphenylamine	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Naphthalene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Nitrobenzene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Pentachlorophenol	ND	ND	350		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Phenanthrene	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Phenol	ND	ND	180		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Pyrene	ND	ND	180		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	1,1,1-Trichloroethane	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	1,1,2,2-Tetrachloroethane	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	1,1,2-Trichloroethane	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	1,1-Dichloroethane	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	1,1-Dichloroethene	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	1,2,3-Trichlorobenzene	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	1,2,3-Trichloropropane	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	1,2,4-Trichlorobenzene	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	1,2-Dibromo-3-chloropropane	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	1,2-Dibromoethane (EDB)	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	1,2-Dichlorobenzene	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	1,2-Dichloroethane	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	1,2-Dichloropropane	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	1,3-Dichlorobenzene	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	1,4-Dichlorobenzene	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	1,4-Dioxane (p-Dioxane)	ND	ND	100		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	2-Butanone (MEK)	ND	ND	10.0		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	2-Hexanone	ND	ND	10.0		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	4-Methyl-2-pentanone (MIBK)	ND	ND	10.0		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Acetone	ND	ND	10.0		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Benzene	ND	ND	5.10		NA	OK

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Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Bromochloromethane	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Bromodichloromethane	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Bromoform	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Bromomethane	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Carbon Disulfide	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Carbon Tetrachloride	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Chlorobenzene	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Chloroethane	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Chloroform	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Chloromethane	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	cis-1,2-Dichloroethylene	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	cis-1,3-Dichloropropene	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Cyclohexane	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Dibromochloromethane	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Dichlorodifluoromethane	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Ethylbenzene	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Isopropylbenzene (Cumene)	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	m,p-Xylene	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Methyl Acetate	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Methylcyclohexane	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Methylene Chloride	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	o-Xylene	ND	ND	5.10		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Styrene	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	tert-Butyl Methyl Ether (MTBE)	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Tetrachloroethene (PCE)	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Toluene	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	trans-1,2-Dichloroethene	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	trans-1,3-Dichloropropene	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Trichloroethene (TCE)	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Trichlorofluoromethane	ND	ND	5.10		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	Vinyl Chloride	ND	ND	5.10		NA	OK

Location	Analysis
SAIA-SB/SG34	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	F2018-15 / F2018-16	Aluminum	12100	13900	15.7	13.8	OK	NA
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	F2018-15 / F2018-16	Antimony	ND	ND	4.70		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	F2018-15 / F2018-16	Arsenic	3.40	3.70	0.790	8.45	OK	NA
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	F2018-15 / F2018-16	Barium	111	129	15.7	15.0	OK	NA
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	F2018-15 / F2018-16	Beryllium	0.520	0.580	0.390	10.9	OK	NA
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	F2018-15 / F2018-16	Cadmium	ND	ND	0.390		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	F2018-15 / F2018-16	Calcium	20200	12300	393	48.6	Out	NA
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	F2018-15 / F2018-16	Chromium	16.4	18.8	0.790	13.6	OK	NA
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	F2018-15 / F2018-16	Cobalt	9.60	11.3	3.90	16.3	OK	NA

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SAIA-SB/SG34	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	F2018-15 / F2018-16	Copper	14.0	16.2	2.00	14.6	OK	NA
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	F2018-15 / F2018-16	Iron	21200	23200	7.90	9.01	OK	NA
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	F2018-15 / F2018-16	Lead	3.10	3.60	0.790	14.9	OK	NA
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	F2018-15 / F2018-16	Magnesium	7370	7960	393	7.70	OK	NA
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	F2018-15 / F2018-16	Manganese	343	344	1.20	0.291	OK	NA
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	F2018-15 / F2018-16	Nickel	12.6	15.0	3.10	17.4	OK	NA
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	F2018-15 / F2018-16	Potassium	3690	4070	393	9.79	OK	NA
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	F2018-15 / F2018-16	Selenium	2.50 J	2.90	2.80	14.8	NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	F2018-15 / F2018-16	Silver	ND	ND	0.790		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	F2018-15 / F2018-16	Sodium	1170	1360	393	15.0	OK	NA
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	F2018-15 / F2018-16	Thallium	ND	ND	2.00		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	F2018-15 / F2018-16	Vanadium	40.9	44.9	3.90	9.32	OK	NA
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	F2018-15 / F2018-16	Zinc	49.9	56.1	4.70	11.7	OK	NA

Location	Analysis
SAIA-SB/SG34	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	PCB-1016 (Arochlor 1016)	ND	ND	35.0		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	PCB-1221 (Arochlor 1221)	ND	ND	35.0		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	PCB-1232 (Arochlor 1232)	ND	ND	35.0		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	PCB-1242 (Arochlor 1242)	ND	ND	35.0		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	PCB-1248 (Arochlor 1248)	ND	ND	35.0		NA	OK

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Location	Analysis
SAIA-SB/SG34	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	PCB-1254 (Arochlor 1254)	ND	ND	35.0		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	PCB-1260 (Arochlor 1260)	ND	ND	35.0		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	PCB-1262 (Arochlor 1262)	ND	ND	35.0		NA	OK
Apr 15 2014	SAIA-SB34-15 / SAIA-SB34-16	S-6423.13 / S-6423.14	PCB-1268 (Arochlor 1268)	ND	ND	35.0		NA	OK

Location	Analysis
SAIA-SB/SG35	C245.5

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	F2060-15 / F2060-16	Mercury	ND	ND	0.110		NA	OK

Location	Analysis
SAIA-SB/SG35	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	1,2,4,5-Tetrachlorobenzene	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	2,3,4,6-Tetrachlorophenol	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	2,4,5-Trichlorophenol	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	2,4,6-Trichlorophenol	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	2,4-Dichlorophenol	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	2,4-Dimethylphenol	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	2,4-Dinitrophenol	ND	ND	350		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	2,4-Dinitrotoluene	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	2,6-Dinitrotoluene	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	2-Chloronaphthalene	ND	ND	180		NA	OK

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Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	2-Chlorophenol	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	2-Methylnaphthalene	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	2-Methylphenol (o-Cresol)	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	2-Nitroaniline	ND	ND	350		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	2-Nitrophenol	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	3,3'-Dichlorobenzidine	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	3-Nitroaniline	ND	ND	350		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	4,6-Dinitro-2-Methylphenol	ND	ND	350		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	4-Bromophenyl phenyl ether	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	4-Chloro-3-Methylphenol	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	4-Chloroaniline	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	4-Chlorophenyl Phenyl Ether	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	4-Methylphenol (p-Cresol)	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	4-Nitroaniline	ND	ND	350		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	4-Nitrophenol	ND	ND	350		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Acenaphthene	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Acenaphthylene	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Acetophenone	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Anthracene	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Atrazine	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Benzaldehyde	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Benzo(a)anthracene	ND	ND	180		NA	OK

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Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Benzo(a)pyrene	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Benzo(b)fluoranthene	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Benzo(g,h,i)perylene	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Benzo(k)fluoranthene	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Benzyl butyl phthalate	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Biphenyl (Diphenyl)	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	bis(2-Chloroethoxy) Methane	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	bis(2-Chloroisopropyl) Ether	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	bis(2-Ethylhexyl) Phthalate	ND	87.0 J	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Caprolactam	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Carbazole	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Chrysene	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Di-n-Butyl Phthalate	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Di-n-Octylphthalate	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Dibenz(a,h)anthracene	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Dibenzofuran	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Diethyl Phthalate	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Dimethyl Phthalate	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Fluoranthene	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Fluorene	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Hexachlorobenzene	ND	ND	180		NA	OK

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Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Hexachlorobutadiene	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Hexachlorocyclopentadiene	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Hexachloroethane	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Indeno(1,2,3-c,d)pyrene	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Isophorone	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	n-Nitrosodi-n-propylamine	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	n-Nitrosodiphenylamine	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Naphthalene	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Nitrobenzene	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Pentachlorophenol	ND	ND	350		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Phenanthrene	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Phenol	ND	ND	180		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Pyrene	ND	ND	180		NA	OK

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Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	1,1,1-Trichloroethane	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	1,1,2,2-Tetrachloroethane	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	1,1,2-Trichloroethane	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	1,1-Dichloroethane	ND	ND	5.10		NA	OK

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Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	1,1-Dichloroethene	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	1,2,3-Trichlorobenzene	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	1,2,3-Trichloropropane	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	1,2,4-Trichlorobenzene	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	1,2-Dibromo-3-chloropropane	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	1,2-Dibromoethane (EDB)	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	1,2-Dichlorobenzene	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	1,2-Dichloroethane	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	1,2-Dichloropropane	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	1,3-Dichlorobenzene	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	1,4-Dichlorobenzene	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	1,4-Dioxane (p-Dioxane)	ND	ND	100		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	2-Butanone (MEK)	ND	ND	10.0		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	2-Hexanone	ND	ND	10.0		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	4-Methyl-2-pentanone (MIBK)	ND	ND	10.0		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Acetone	ND	ND	10.0		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Benzene	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Bromochloromethane	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Bromodichloromethane	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Bromoform	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Bromomethane	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Carbon Disulfide	ND	ND	5.10		NA	OK

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Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Carbon Tetrachloride	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Chlorobenzene	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Chloroethane	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Chloroform	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Chloromethane	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	cis-1,2-Dichloroethylene	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	cis-1,3-Dichloropropene	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Cyclohexane	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Dibromochloromethane	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Dichlorodifluoromethane	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Ethylbenzene	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Isopropylbenzene (Cumene)	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	m,p-Xylene	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Methyl Acetate	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Methylcyclohexane	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Methylene Chloride	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	o-Xylene	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Styrene	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	tert-Butyl Methyl Ether (MTBE)	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Tetrachloroethene (PCE)	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Toluene	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	trans-1,2-Dichloroethene	ND	ND	5.10		NA	OK

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Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	trans-1,3-Dichloropropene	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Trichloroethene (TCE)	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Trichlorofluoromethane	ND	ND	5.10		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	Vinyl Chloride	ND	ND	5.10		NA	OK

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Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	F2060-15 / F2060-16	Aluminum	13100	14400	15.6	9.45	OK	NA
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	F2060-15 / F2060-16	Antimony	0.690 J	0.690 J	4.70	0.00	NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	F2060-15 / F2060-16	Arsenic	2.60	2.60	0.780	0.00	OK	NA
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	F2060-15 / F2060-16	Barium	131	143	15.6	8.76	OK	NA
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	F2060-15 / F2060-16	Beryllium	0.450	0.510	0.390	12.5	OK	NA
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	F2060-15 / F2060-16	Cadmium	0.210 J	0.220 J	0.390	4.65	NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	F2060-15 / F2060-16	Calcium	7280	7960	390	8.92	OK	NA
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	F2060-15 / F2060-16	Chromium	17.7	19.3	0.780	8.65	OK	NA
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	F2060-15 / F2060-16	Cobalt	9.30	10.2	3.90	9.23	OK	NA
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	F2060-15 / F2060-16	Copper	19.7	18.3	1.90	7.37	OK	NA
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	F2060-15 / F2060-16	Iron	22100	24200	7.80	9.07	OK	NA
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	F2060-15 / F2060-16	Lead	6.50	5.40	0.780	18.5	OK	NA
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	F2060-15 / F2060-16	Magnesium	6830	7560	390	10.1	OK	NA
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	F2060-15 / F2060-16	Manganese	330	361	1.20	8.97	OK	NA

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Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	F2060-15 / F2060-16	Nickel	13.3	14.2	3.10	6.55	OK	NA
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	F2060-15 / F2060-16	Potassium	4570	5110	390	11.2	OK	NA
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	F2060-15 / F2060-16	Selenium	3.40	3.80	2.70	11.1	OK	NA
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	F2060-15 / F2060-16	Silver	ND	ND	0.780		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	F2060-15 / F2060-16	Sodium	299 J	334 J	390	11.1	NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	F2060-15 / F2060-16	Thallium	ND	ND	1.90		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	F2060-15 / F2060-16	Vanadium	41.6	44.5	3.90	6.74	OK	NA
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	F2060-15 / F2060-16	Zinc	52.3	59.0	4.70	12.0	OK	NA

Location	Analysis
SAIA-SB/SG35	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	PCB-1016 (Arochlor 1016)	ND	ND	35.0		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	PCB-1221 (Arochlor 1221)	ND	ND	35.0		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	PCB-1232 (Arochlor 1232)	ND	ND	35.0		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	PCB-1242 (Arochlor 1242)	ND	ND	35.0		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	PCB-1248 (Arochlor 1248)	ND	ND	35.0		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	PCB-1254 (Arochlor 1254)	ND	ND	35.0		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	PCB-1260 (Arochlor 1260)	ND	ND	35.0		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	PCB-1262 (Arochlor 1262)	ND	ND	35.0		NA	OK
Apr 18 2014	SAIA-SB35-2 / SAIA-SB35-3	S-6431.13 / S-6431.14	PCB-1268 (Arochlor 1268)	ND	ND	35.0		NA	OK

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Location	Analysis
SAIA-SB/SG36	C245.5

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	F2031-12 / F2031-13	Mercury	0.0650 J	0.100 J	0.110	42.4	NA	OK

Location	Analysis
SAIA-SB/SG36	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	1,2,4,5-Tetrachlorobenzene	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	2,3,4,6-Tetrachlorophenol	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	2,4,5-Trichlorophenol	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	2,4,6-Trichlorophenol	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	2,4-Dichlorophenol	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	2,4-Dimethylphenol	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	2,4-Dinitrophenol	ND	ND	410		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	2,4-Dinitrotoluene	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	2,6-Dinitrotoluene	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	2-Chloronaphthalene	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	2-Chlorophenol	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	2-Methylnaphthalene	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	2-Methylphenol (o-Cresol)	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	2-Nitroaniline	ND	ND	410		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	2-Nitrophenol	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	3,3'-Dichlorobenzidine	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	3-Nitroaniline	ND	ND	410		NA	OK

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Southern Avenue Industrial Area
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Location	Analysis
SAIA-SB/SG36	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	4,6-Dinitro-2-Methylphenol	ND	ND	410		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	4-Bromophenyl phenyl ether	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	4-Chloro-3-Methylphenol	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	4-Chloroaniline	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	4-Chlorophenyl Phenyl Ether	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	4-Methylphenol (p-Cresol)	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	4-Nitroaniline	ND	ND	410		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	4-Nitrophenol	ND	ND	410		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Acenaphthene	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Acenaphthylene	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Acetophenone	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Anthracene	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Atrazine	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Benzaldehyde	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Benzo(a)anthracene	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Benzo(a)pyrene	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Benzo(b)fluoranthene	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Benzo(g,h,i)perylene	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Benzo(k)fluoranthene	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Benzyl butyl phthalate	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Biphenyl (Diphenyl)	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	bis(2-Chloroethoxy) Methane	ND	ND	210		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	bis(2-Chloroisopropyl) Ether	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	bis(2-Ethylhexyl) Phthalate	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Caprolactam	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Carbazole	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Chrysene	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Di-n-Butyl Phthalate	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Di-n-Octylphthalate	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Dibenz(a,h)anthracene	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Dibenzofuran	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Diethyl Phthalate	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Dimethyl Phthalate	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Fluoranthene	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Fluorene	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Hexachlorobenzene	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Hexachlorobutadiene	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Hexachlorocyclopentadiene	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Hexachloroethane	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Indeno(1,2,3-c,d)pyrene	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Isophorone	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	n-Nitrosodi-n-propylamine	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	n-Nitrosodiphenylamine	ND	ND	210		NA	OK

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Location	Analysis
SAIA-SB/SG36	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Naphthalene	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Nitrobenzene	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Pentachlorophenol	ND	ND	410		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Phenanthrene	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Phenol	ND	ND	210		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Pyrene	ND	ND	210		NA	OK

Location	Analysis
SAIA-SB/SG36	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	1,1,1-Trichloroethane	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	1,1,2,2-Tetrachloroethane	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	1,1,2-Trichloroethane	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	1,1-Dichloroethane	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	1,1-Dichloroethene	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	1,2,3-Trichlorobenzene	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	1,2,3-Trichloropropane	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	1,2,4-Trichlorobenzene	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	1,2-Dibromo-3-chloropropane	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	1,2-Dibromoethane (EDB)	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	1,2-Dichlorobenzene	ND	ND	6.70		NA	OK

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Location	Analysis
SAIA-SB/SG36	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	1,2-Dichloroethane	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	1,2-Dichloropropane	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	1,3-Dichlorobenzene	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	1,4-Dichlorobenzene	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	1,4-Dioxane (p-Dioxane)	ND	ND	130		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	2-Butanone (MEK)	ND	ND	13.0		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	2-Hexanone	ND	ND	13.0		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	4-Methyl-2-pentanone (MIBK)	ND	ND	13.0		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Acetone	ND	ND	13.0		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Benzene	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Bromochloromethane	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Bromodichloromethane	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Bromoform	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Bromomethane	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Carbon Disulfide	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Carbon Tetrachloride	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Chlorobenzene	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Chloroethane	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Chloroform	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Chloromethane	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	cis-1,2-Dichloroethylene	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	cis-1,3-Dichloropropene	ND	ND	6.70		NA	OK

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Location	Analysis
SAIA-SB/SG36	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Cyclohexane	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Dibromochloromethane	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Dichlorodifluoromethane	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Ethylbenzene	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Isopropylbenzene (Cumene)	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	m,p-Xylene	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Methyl Acetate	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Methylcyclohexane	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Methylene Chloride	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	o-Xylene	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Styrene	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	tert-Butyl Methyl Ether (MTBE)	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Tetrachloroethene (PCE)	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Toluene	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	trans-1,2-Dichloroethene	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	trans-1,3-Dichloropropene	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Trichloroethene (TCE)	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Trichlorofluoromethane	ND	ND	6.70		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	Vinyl Chloride	ND	ND	6.70		NA	OK

Data Quality Summary Report
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Southern Avenue Industrial Area
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Location	Analysis
SAIA-SB/SG36	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	F2031-12 / F2031-13	Aluminum	20000	20400	17.2	1.98	OK	NA
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	F2031-12 / F2031-13	Antimony	ND	ND	5.20		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	F2031-12 / F2031-13	Arsenic	6.40	8.30	0.860	25.9	OK	NA
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	F2031-12 / F2031-13	Barium	197	195	17.2	1.02	OK	NA
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	F2031-12 / F2031-13	Beryllium	0.820	0.850	0.430	3.59	OK	NA
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	F2031-12 / F2031-13	Cadmium	ND	ND	0.430		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	F2031-12 / F2031-13	Calcium	13100	14300	430	8.76	OK	NA
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	F2031-12 / F2031-13	Chromium	26.3	27.7	0.860	5.19	OK	NA
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	F2031-12 / F2031-13	Cobalt	14.3	14.4	4.30	0.697	OK	NA
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	F2031-12 / F2031-13	Copper	29.8	33.8	2.10	12.6	OK	NA
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	F2031-12 / F2031-13	Iron	30400	31200	8.60	2.60	OK	NA
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	F2031-12 / F2031-13	Lead	7.30	8.40	0.860	14.0	OK	NA
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	F2031-12 / F2031-13	Magnesium	10100	10300	430	1.96	OK	NA
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	F2031-12 / F2031-13	Manganese	593	573	1.30	3.43	OK	NA
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	F2031-12 / F2031-13	Nickel	20.4	22.2	3.40	8.45	OK	NA
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	F2031-12 / F2031-13	Potassium	4930	4580	430	7.36	OK	NA
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	F2031-12 / F2031-13	Selenium	2.60 J	3.10 J	3.00	17.5	NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	F2031-12 / F2031-13	Silver	0.270 J	0.290 J	0.860	7.14	NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	F2031-12 / F2031-13	Sodium	482	481 J	430	0.208	NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	F2031-12 / F2031-13	Thallium	ND	ND	2.10		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	F2031-12 / F2031-13	Vanadium	57.2	58.1	4.30	1.56	OK	NA
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	F2031-12 / F2031-13	Zinc	72.4	71.9	5.20	0.693	OK	NA

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Location	Analysis
SAIA-SB/SG36	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	PCB-1016 (Arochlor 1016)	ND	ND	41.0		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	PCB-1221 (Arochlor 1221)	ND	ND	41.0		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	PCB-1232 (Arochlor 1232)	ND	ND	41.0		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	PCB-1242 (Arochlor 1242)	ND	ND	41.0		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	PCB-1248 (Arochlor 1248)	ND	ND	41.0		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	PCB-1254 (Arochlor 1254)	ND	ND	41.0		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	PCB-1260 (Arochlor 1260)	ND	ND	41.0		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	PCB-1262 (Arochlor 1262)	ND	ND	41.0		NA	OK
Apr 17 2014	SAIA-SB36-25 / SAIA-SB36-26	S-6428.06 / S-6428.07	PCB-1268 (Arochlor 1268)	ND	ND	41.0		NA	OK

Location	Analysis
SAIA-SB/SG37	C245.5

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	F2031-17 / F2031-07	Mercury	0.0380 J	0.0210 J	0.100	57.6	NA	OK

Location	Analysis
SAIA-SB/SG37	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	1,2,4,5-Tetrachlorobenzene	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	2,3,4,6-Tetrachlorophenol	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	2,4,5-Trichlorophenol	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	2,4,6-Trichlorophenol	ND	ND	180		NA	OK

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Location	Analysis
SAIA-SB/SG37	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	2,4-Dichlorophenol	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	2,4-Dimethylphenol	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	2,4-Dinitrophenol	ND	ND	350		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	2,4-Dinitrotoluene	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	2,6-Dinitrotoluene	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	2-Chloronaphthalene	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	2-Chlorophenol	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	2-Methylnaphthalene	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	2-Methylphenol (o-Cresol)	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	2-Nitroaniline	ND	ND	350		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	2-Nitrophenol	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	3,3'-Dichlorobenzidine	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	3-Nitroaniline	ND	ND	350		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	4,6-Dinitro-2-Methylphenol	ND	ND	350		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	4-Bromophenyl phenyl ether	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	4-Chloro-3-Methylphenol	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	4-Chloroaniline	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	4-Chlorophenyl Phenyl Ether	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	4-Methylphenol (p-Cresol)	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	4-Nitroaniline	ND	ND	350		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	4-Nitrophenol	ND	ND	350		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Acenaphthene	ND	ND	180		NA	OK

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Location	Analysis
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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Acenaphthylene	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Acetophenone	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Anthracene	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Atrazine	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Benzaldehyde	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Benzo(a)anthracene	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Benzo(a)pyrene	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Benzo(b)fluoranthene	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Benzo(g,h,i)perylene	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Benzo(k)fluoranthene	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Benzyl butyl phthalate	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Biphenyl (Diphenyl)	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	bis(2-Chloroethoxy) Methane	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	bis(2-Chloroisopropyl) Ether	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	bis(2-Ethylhexyl) Phthalate	ND	100 J	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Caprolactam	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Carbazole	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Chrysene	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Di-n-Butyl Phthalate	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Di-n-Octylphthalate	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Dibenz(a,h)anthracene	ND	ND	180		NA	OK

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Location	Analysis
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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Dibenzofuran	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Diethyl Phthalate	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Dimethyl Phthalate	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Fluoranthene	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Fluorene	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Hexachlorobenzene	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Hexachlorobutadiene	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Hexachlorocyclopentadiene	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Hexachloroethane	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Indeno(1,2,3-c,d)pyrene	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Isophorone	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	n-Nitrosodi-n-propylamine	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	n-Nitrosodiphenylamine	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Naphthalene	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Nitrobenzene	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Pentachlorophenol	ND	ND	350		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Phenanthrene	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Phenol	ND	ND	180		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Pyrene	ND	ND	180		NA	OK

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Location	Analysis
SAIA-SB/SG37	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	1,1,1-Trichloroethane	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	1,1,2,2-Tetrachloroethane	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	1,1,2-Trichloroethane	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	1,1-Dichloroethane	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	1,1-Dichloroethene	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	1,2,3-Trichlorobenzene	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	1,2,3-Trichloropropane	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	1,2,4-Trichlorobenzene	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	1,2-Dibromo-3-chloropropane	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	1,2-Dibromoethane (EDB)	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	1,2-Dichlorobenzene	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	1,2-Dichloroethane	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	1,2-Dichloropropane	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	1,3-Dichlorobenzene	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	1,4-Dichlorobenzene	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	1,4-Dioxane (p-Dioxane)	ND	ND	120		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	2-Butanone (MEK)	ND	ND	12.0		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	2-Hexanone	ND	ND	12.0		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	4-Methyl-2-pentanone (MIBK)	ND	ND	12.0		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Acetone	ND	ND	12.0		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Benzene	ND	ND	6.20		NA	OK

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Location	Analysis
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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Bromochloromethane	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Bromodichloromethane	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Bromoform	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Bromomethane	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Carbon Disulfide	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Carbon Tetrachloride	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Chlorobenzene	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Chloroethane	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Chloroform	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Chloromethane	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	cis-1,2-Dichloroethylene	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	cis-1,3-Dichloropropene	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Cyclohexane	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Dibromochloromethane	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Dichlorodifluoromethane	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Ethylbenzene	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Isopropylbenzene (Cumene)	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	m,p-Xylene	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Methyl Acetate	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Methylcyclohexane	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Methylene Chloride	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	o-Xylene	ND	ND	6.20		NA	OK

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Location	Analysis
SAIA-SB/SG37	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Styrene	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	tert-Butyl Methyl Ether (MTBE)	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Tetrachloroethene (PCE)	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Toluene	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	trans-1,2-Dichloroethene	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	trans-1,3-Dichloropropene	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Trichloroethene (TCE)	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Trichlorofluoromethane	ND	ND	6.20		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	Vinyl Chloride	ND	ND	6.20		NA	OK

Location	Analysis
SAIA-SB/SG37	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	F2031-17 / F2031-07	Aluminum	11600	11100	16.8	4.41	OK	NA
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	F2031-17 / F2031-07	Antimony	ND	ND	5.10		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	F2031-17 / F2031-07	Arsenic	2.70	2.50	0.840	7.69	OK	NA
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	F2031-17 / F2031-07	Barium	111	102	16.8	8.45	OK	NA
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	F2031-17 / F2031-07	Beryllium	0.440	0.480	0.420	8.70	OK	NA
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	F2031-17 / F2031-07	Cadmium	ND	ND	0.420		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	F2031-17 / F2031-07	Calcium	11800	11800	421	0.00	OK	NA
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	F2031-17 / F2031-07	Chromium	16.6	16.0	0.840	3.68	OK	NA
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	F2031-17 / F2031-07	Cobalt	8.50	8.40	4.20	1.18	OK	NA

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SAIA-SB/SG37	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	F2031-17 / F2031-07	Copper	14.2	13.4	2.10	5.80	OK	NA
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	F2031-17 / F2031-07	Iron	22100	22200	8.40	0.451	OK	NA
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	F2031-17 / F2031-07	Lead	3.50	3.20	0.840	8.96	OK	NA
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	F2031-17 / F2031-07	Magnesium	6480	6340	421	2.18	OK	NA
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	F2031-17 / F2031-07	Manganese	370	370	1.30	0.00	OK	NA
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	F2031-17 / F2031-07	Nickel	10.9	10.6	3.40	2.79	OK	NA
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	F2031-17 / F2031-07	Potassium	3870	3700	421	4.49	OK	NA
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	F2031-17 / F2031-07	Selenium	1.90 J	2.10 J	2.90	10.0	NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	F2031-17 / F2031-07	Silver	0.140 J	0.130 J	0.840	7.41	NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	F2031-17 / F2031-07	Sodium	347 J	337 J	421	2.92	NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	F2031-17 / F2031-07	Thallium	ND	ND	2.10		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	F2031-17 / F2031-07	Vanadium	44.2	44.5	4.20	0.676	OK	NA
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	F2031-17 / F2031-07	Zinc	47.2	46.3	5.10	1.93	OK	NA

Location	Analysis
SAIA-SB/SG37	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	PCB-1016 (Arochlor 1016)	ND	ND	35.0		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	PCB-1221 (Arochlor 1221)	ND	ND	35.0		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	PCB-1232 (Arochlor 1232)	ND	ND	35.0		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	PCB-1242 (Arochlor 1242)	ND	ND	35.0		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	PCB-1248 (Arochlor 1248)	ND	ND	35.0		NA	OK

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Location	Analysis
SAIA-SB/SG37	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	PCB-1254 (Arochlor 1254)	ND	ND	35.0		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	PCB-1260 (Arochlor 1260)	ND	ND	35.0		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	PCB-1262 (Arochlor 1262)	ND	ND	35.0		NA	OK
Apr 17 2014	SAIA-SB37-5 / SAIA-SB37-6	S-6428.11 / S-6428.01	PCB-1268 (Arochlor 1268)	ND	ND	35.0		NA	OK

Location	Analysis
SAIA-SB/SG38	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	1,1,1,2-Tetrachloroethane	ND	ND	35.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	1,1,1-Trichloroethane	ND	ND	28.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	1,1,2,2-Tetrachloroethane	ND	ND	35.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	39.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	1,1,2-Trichloroethane	ND	ND	28.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	1,1-Dichloroethane	ND	ND	41.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	1,1-Dichloroethene	ND	ND	20.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	1,1-Difluoroethane	ND	ND	27.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	1,2,4-Trichlorobenzene	ND	ND	38.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	1,2,4-Trimethylbenzene	ND	ND	25.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	1,2-Dichloroethane	ND	ND	21.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	1,3,5-Trimethylbenzene	ND	ND	25.0		NA	OK

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SAIA-SB/SG38	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	1,4-Dichlorobenzene	ND	ND	30.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	1,4-Dioxane (p-Dioxane)	ND	ND	36.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	Benzene	52.0	49.0	16.0	5.94	OK	NA
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	Bromodichloromethane	ND	ND	34.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	Bromomethane	ND	ND	39.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	Carbon Tetrachloride	ND	ND	13.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	Chloroethane	ND	ND	27.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	Chloroform	ND	ND	25.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	Chloromethane	ND	ND	21.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	cis-1,2-Dichloroethylene	350	330	40.0	5.88	OK	NA
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	Dichlorodifluoromethane	ND	ND	25.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	Ethylbenzene	ND	ND	22.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	Isopropylbenzene (Cumene)	ND	ND	25.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	m,p-Xylene	ND	ND	44.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	Methylene Chloride	ND	ND	18.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	n-Butylbenzene	ND	ND	28.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	n-Propylbenzene	ND	ND	25.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	Naphthalene	ND	ND	27.0		NA	OK

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Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	o-Xylene	ND	ND	22.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	p-Cymene (p-Isopropyltoluene)	ND	ND	28.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	sec-Butylbenzene	ND	ND	28.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	tert-Butylbenzene	ND	ND	28.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	Tetrachloroethene (PCE)	ND	57.0	34.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	Toluene	53.0	37.0	19.0	35.6	Out	NA
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	trans-1,2-Dichloroethene	ND	ND	40.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	Trichloroethene (TCE)	330	270	27.0	20.0	OK	NA
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	Trichlorofluoromethane	ND	ND	28.0		NA	OK
Apr 22 2014	SAIA-SB/SG-38-15, P913cc / SAIA-SB/SG-38-15 Rep, P963cc	E404070-06 / E404070-07	Vinyl Chloride	ND	ND	13.0		NA	OK

Location	Analysis
SAIA-SB/SG39	C245.5

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 17 2014	SAIA-SB39-2 / SAIA-SB39-3	F2057-08 / F2057-09	Mercury	0.460	0.110	0.0980	123	Out	NA

Location	Analysis
SAIA-SB/SG39	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 17 2014	SAIA-SB39-2 / SAIA-SB39-3	F2057-08 / F2057-09	Aluminum	8490	8330	15.5	1.90	OK	NA

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SAIA-SB/SG39	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 17 2014	SAIA-SB39-2 / SAIA-SB39-3	F2057-08 / F2057-09	Antimony	ND	ND	4.70		NA	OK
Apr 17 2014	SAIA-SB39-2 / SAIA-SB39-3	F2057-08 / F2057-09	Arsenic	7.40	7.10	0.780	4.14	OK	NA
Apr 17 2014	SAIA-SB39-2 / SAIA-SB39-3	F2057-08 / F2057-09	Barium	95.4	94.0	15.5	1.48	OK	NA
Apr 17 2014	SAIA-SB39-2 / SAIA-SB39-3	F2057-08 / F2057-09	Beryllium	0.380 J	0.370	0.390	2.67	NA	OK
Apr 17 2014	SAIA-SB39-2 / SAIA-SB39-3	F2057-08 / F2057-09	Cadmium	1.10	1.60	0.390	37.0	Out	NA
Apr 17 2014	SAIA-SB39-2 / SAIA-SB39-3	F2057-08 / F2057-09	Calcium	10800	12500	388	14.6	OK	NA
Apr 17 2014	SAIA-SB39-2 / SAIA-SB39-3	F2057-08 / F2057-09	Chromium	28.9	25.2	0.780	13.7	OK	NA
Apr 17 2014	SAIA-SB39-2 / SAIA-SB39-3	F2057-08 / F2057-09	Cobalt	7.40	7.00	3.90	5.56	OK	NA
Apr 17 2014	SAIA-SB39-2 / SAIA-SB39-3	F2057-08 / F2057-09	Copper	50.5	47.4	1.90	6.33	OK	NA
Apr 17 2014	SAIA-SB39-2 / SAIA-SB39-3	F2057-08 / F2057-09	Iron	20900	22200	7.80	6.03	OK	NA
Apr 17 2014	SAIA-SB39-2 / SAIA-SB39-3	F2057-08 / F2057-09	Lead	200	213	0.780	6.30	OK	NA
Apr 17 2014	SAIA-SB39-2 / SAIA-SB39-3	F2057-08 / F2057-09	Magnesium	4250	4190	388	1.42	OK	NA
Apr 17 2014	SAIA-SB39-2 / SAIA-SB39-3	F2057-08 / F2057-09	Manganese	510	467	1.20	8.80	OK	NA
Apr 17 2014	SAIA-SB39-2 / SAIA-SB39-3	F2057-08 / F2057-09	Nickel	20.5	17.6	3.10	15.2	OK	NA
Apr 17 2014	SAIA-SB39-2 / SAIA-SB39-3	F2057-08 / F2057-09	Potassium	2090	2090	388	0.00	OK	NA
Apr 17 2014	SAIA-SB39-2 / SAIA-SB39-3	F2057-08 / F2057-09	Selenium	0.730 J	0.830 J	2.70	12.8	NA	OK
Apr 17 2014	SAIA-SB39-2 / SAIA-SB39-3	F2057-08 / F2057-09	Silver	ND	0.0700 J	0.780		NA	OK
Apr 17 2014	SAIA-SB39-2 / SAIA-SB39-3	F2057-08 / F2057-09	Sodium	396	441	388	10.8	OK	NA
Apr 17 2014	SAIA-SB39-2 / SAIA-SB39-3	F2057-08 / F2057-09	Thallium	ND	ND	1.90		NA	OK
Apr 17 2014	SAIA-SB39-2 / SAIA-SB39-3	F2057-08 / F2057-09	Vanadium	31.9	30.8	3.90	3.51	OK	NA
Apr 17 2014	SAIA-SB39-2 / SAIA-SB39-3	F2057-08 / F2057-09	Zinc	207	257	4.70	21.6	OK	NA

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May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	1,1,1,2-Tetrachloroethane	ND	ND	35.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	1,1,1-Trichloroethane	ND	ND	28.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	1,1,2,2-Tetrachloroethane	ND	ND	35.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	39.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	1,1,2-Trichloroethane	ND	ND	28.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	1,1-Dichloroethane	ND	ND	41.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	1,1-Dichloroethene	ND	ND	20.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	1,1-Difluoroethane	ND	ND	27.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	1,2,4-Trichlorobenzene	ND	ND	38.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	1,2,4-Trimethylbenzene	ND	ND	25.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	1,2-Dichloroethane	ND	ND	21.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	1,3,5-Trimethylbenzene	ND	ND	25.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	1,4-Dichlorobenzene	ND	ND	30.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	1,4-Dioxane (p-Dioxane)	ND	ND	36.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	Benzene	ND	ND	16.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	Bromodichloromethane	ND	ND	34.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	Bromomethane	ND	ND	39.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	Carbon Tetrachloride	ND	ND	13.0		NA	OK

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May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	Chloroethane	ND	ND	27.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	Chloroform	ND	ND	25.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	Chloromethane	ND	ND	21.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	cis-1,2-Dichloroethylene	900	730	40.0	20.9	OK	NA
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	Dichlorodifluoromethane	ND	ND	25.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	Ethylbenzene	ND	ND	22.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	Isopropylbenzene (Cumene)	ND	ND	25.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	m,p-Xylene	ND	ND	44.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	Methylene Chloride	ND	ND	18.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	n-Butylbenzene	ND	ND	28.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	n-Propylbenzene	ND	ND	25.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	Naphthalene	ND	ND	27.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	o-Xylene	ND	ND	22.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	p-Cymene (p-Isopropyltoluene)	ND	ND	28.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	sec-Butylbenzene	ND	ND	28.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	tert-Butylbenzene	ND	ND	28.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	Tetrachloroethene (PCE)	ND	ND	34.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	Toluene	ND	ND	19.0		NA	OK

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May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	trans-1,2-Dichloroethene	96.0	88.0	40.0	8.70	OK	NA
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	Trichloroethene (TCE)	430	320	27.0	29.3	OK	NA
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	Trichlorofluoromethane	ND	ND	28.0		NA	OK
May 1 2014	SAIA-SB/SG-40-35, P578cc / SAIA-SB/SG-40-35 Rep, P628cc	E405001-05 / E405001-06	Vinyl Chloride	ND	ND	13.0		NA	OK

Location	Analysis
SAIA-SB/SG43	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	1,1,1,2-Tetrachloroethane	ND	ND	35.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	1,1,1-Trichloroethane	ND	ND	28.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	1,1,2,2-Tetrachloroethane	ND	ND	35.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	39.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	1,1,2-Trichloroethane	ND	ND	28.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	1,1-Dichloroethane	ND	ND	41.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	1,1-Dichloroethene	ND	ND	20.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	1,1-Difluoroethane	ND	ND	27.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	1,2,4-Trichlorobenzene	ND	ND	38.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	1,2,4-Trimethylbenzene	ND	ND	25.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	1,2-Dichloroethane	ND	ND	21.0		NA	OK

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May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	1,3,5-Trimethylbenzene	ND	ND	25.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	1,4-Dichlorobenzene	ND	ND	30.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	1,4-Dioxane (p-Dioxane)	ND	ND	36.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	Benzene	ND	ND	16.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	Bromodichloromethane	ND	ND	34.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	Bromomethane	ND	ND	39.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	Carbon Tetrachloride	ND	ND	13.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	Chloroethane	ND	ND	27.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	Chloroform	ND	ND	25.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	Chloromethane	ND	ND	21.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	cis-1,2-Dichloroethylene	ND	ND	40.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	Dichlorodifluoromethane	ND	ND	25.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	Ethylbenzene	ND	ND	22.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	Isopropylbenzene (Cumene)	ND	ND	25.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	m,p-Xylene	ND	ND	44.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	Methylene Chloride	ND	ND	18.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	n-Butylbenzene	ND	ND	28.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	n-Propylbenzene	ND	ND	25.0		NA	OK

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May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	Naphthalene	ND	ND	27.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	o-Xylene	ND	ND	22.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	p-Cymene (p-Isopropyltoluene)	ND	ND	28.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	sec-Butylbenzene	ND	ND	28.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	tert-Butylbenzene	ND	ND	28.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	Tetrachloroethene (PCE)	ND	ND	34.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	Toluene	ND	ND	19.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	trans-1,2-Dichloroethene	ND	ND	40.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	Trichloroethene (TCE)	ND	ND	27.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	Trichlorofluoromethane	ND	ND	28.0		NA	OK
May 2 2014	SAIA-SB/SG-43-35, P578cc / SAIA-SB/SG-43-35 Rep, P628cc	E405007-03 / E405007-04	Vinyl Chloride	ND	ND	13.0		NA	OK

Location	Analysis
SAIA-SB/SG44	C245.5

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	7040298-05 / 7040298-06	Mercury	0.0970 J	0.0780 J	0.130	21.7	NA	OK

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SAIA-SB/SG44	CSVOL12

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Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	1,2,4,5-Tetrachlorobenzene	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	1,4-Dioxane (p-Dioxane)	ND	ND	88.0		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	2,3,4,6-Tetrachlorophenol	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	2,4,5-Trichlorophenol	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	2,4,6-Trichlorophenol	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	2,4-Dichlorophenol	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	2,4-Dimethylphenol	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	2,4-Dinitrophenol	ND	ND	430		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	2,4-Dinitrotoluene	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	2,6-Dinitrotoluene	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	2-Chloronaphthalene	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	2-Chlorophenol	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	2-Methylnaphthalene	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	2-Methylphenol (o-Cresol)	ND	ND	430		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	2-Nitroaniline	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	2-Nitrophenol	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	3,3'-Dichlorobenzidine	ND	ND	430		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	3-Nitroaniline	ND	ND	430		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	4,6-Dinitro-2-Methylphenol	ND	ND	430		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	4-Bromophenyl phenyl ether	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	4-Chloro-3-Methylphenol	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	4-Chloroaniline	ND	ND	430		NA	OK

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Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	4-Chlorophenyl Phenyl Ether	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	4-Methylphenol (p-Cresol)	ND	ND	430		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	4-Nitroaniline	ND	ND	430		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	4-Nitrophenol	ND	ND	430		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Acenaphthene	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Acenaphthylene	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Acetophenone	ND	ND	430		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Anthracene	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Atrazine	ND	ND	430		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Benzaldehyde	ND	ND	430		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Benzo(a)anthracene	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Benzo(a)pyrene	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Benzo(b)fluoranthene	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Benzo(g,h,i)perylene	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Benzo(k)fluoranthene	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Benzyl butyl phthalate	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Biphenyl (Diphenyl)	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	bis(2-Chloroethoxy) Methane	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	430		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	bis(2-Chloroisopropyl) Ether	ND	ND	430		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	bis(2-Ethylhexyl) Phthalate	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Caprolactam	ND	ND	430		NA	OK

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Southern Avenue Industrial Area
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Location	Analysis
SAIA-SB/SG44	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Carbazole	ND	ND	430		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Chrysene	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Di-n-Butyl Phthalate	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Di-n-Octylphthalate	ND	ND	430		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Dibenz(a,h)anthracene	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Dibenzofuran	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Diethyl Phthalate	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Dimethyl Phthalate	530	400	220	28.0	OK	NA
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Fluoranthene	ND	ND	430		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Fluorene	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Hexachlorobenzene	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Hexachlorobutadiene	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Hexachlorocyclopentadiene	ND	ND	430		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Hexachloroethane	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Indeno(1,2,3-c,d)pyrene	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Isophorone	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	n-Nitrosodi-n-propylamine	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	n-Nitrosodiphenylamine	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Naphthalene	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Nitrobenzene	ND	ND	220		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Pentachlorophenol	ND	ND	430		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Phenanthrene	ND	ND	220		NA	OK

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Location	Analysis
SAIA-SB/SG44	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Phenol	ND	ND	430		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Pyrene	ND	ND	220		NA	OK

Location	Analysis
SAIA-SB/SG44	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	1,1,1-Trichloroethane	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	1,1,2,2-Tetrachloroethane	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	1,1,2-Trichloroethane	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	1,1-Dichloroethane	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	1,1-Dichloroethene	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	1,2,3-Trichlorobenzene	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	1,2,3-Trichloropropane	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	1,2,4-Trichlorobenzene	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	1,2-Dibromo-3-chloropropane	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	1,2-Dibromoethane (EDB)	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	1,2-Dichlorobenzene	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	1,2-Dichloroethane	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	1,2-Dichloropropane	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	1,3-Dichlorobenzene	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	1,4-Dichlorobenzene	ND	ND	6.20		NA	OK

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Location	Analysis
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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	2-Butanone (MEK)	ND	ND	12.0		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	2-Hexanone	ND	ND	12.0		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	4-Methyl-2-pentanone (MIBK)	ND	ND	12.0		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Acetone	ND	ND	12.0		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Benzene	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Bromochloromethane	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Bromodichloromethane	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Bromoform	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Bromomethane	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Carbon Disulfide	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Carbon Tetrachloride	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Chlorobenzene	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Chloroethane	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Chloroform	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Chloromethane	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	cis-1,2-Dichloroethylene	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	cis-1,3-Dichloropropene	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Cyclohexane	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Dibromochloromethane	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Dichlorodifluoromethane	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Ethylbenzene	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Isopropylbenzene (Cumene)	ND	ND	6.20		NA	OK

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Location	Analysis
SAIA-SB/SG44	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	m,p-Xylene	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Methyl Acetate	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Methylcyclohexane	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Methylene Chloride	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	o-Xylene	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Styrene	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	tert-Butyl Methyl Ether (MTBE)	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Tetrachloroethene (PCE)	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Toluene	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	trans-1,2-Dichloroethene	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	trans-1,3-Dichloropropene	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Trichloroethene (TCE)	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Trichlorofluoromethane	ND	ND	6.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	Vinyl Chloride	ND	ND	6.20		NA	OK

Location	Analysis
SAIA-SB/SG44	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	7040298-05 / 7040298-06	Aluminum	29700	23800	25.8	22.1	OK	NA
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	7040298-05 / 7040298-06	Antimony	1.70 J	1.80 J	7.70	5.71	NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	7040298-05 / 7040298-06	Arsenic	3.80	3.80	1.30	0.00	OK	NA
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	7040298-05 / 7040298-06	Barium	194	167	25.8	15.0	OK	NA

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Location	Analysis
SAIA-SB/SG44	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	7040298-05 / 7040298-06	Beryllium	0.820	0.640	0.650	24.7	OK	NA
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	7040298-05 / 7040298-06	Cadmium	ND	ND	0.650		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	7040298-05 / 7040298-06	Calcium	12500	23200	645	59.9	Out	NA
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	7040298-05 / 7040298-06	Chromium	33.3	27.7	1.30	18.4	OK	NA
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	7040298-05 / 7040298-06	Cobalt	17.8	16.1	6.50	10.0	OK	NA
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	7040298-05 / 7040298-06	Copper	38.4	25.7	3.20	39.6	Out	NA
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	7040298-05 / 7040298-06	Iron	33700	30400	12.9	10.3	OK	NA
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	7040298-05 / 7040298-06	Lead	8.40	6.20	1.30	30.1	OK	NA
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	7040298-05 / 7040298-06	Magnesium	11800	10700	645	9.78	OK	NA
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	7040298-05 / 7040298-06	Manganese	439	559	1.90	24.0	OK	NA
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	7040298-05 / 7040298-06	Nickel	23.3	18.4	5.20	23.5	OK	NA
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	7040298-05 / 7040298-06	Potassium	4700	4800	645	2.11	OK	NA
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	7040298-05 / 7040298-06	Selenium	ND	0.810 J	4.50		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	7040298-05 / 7040298-06	Silver	ND	ND	1.30		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	7040298-05 / 7040298-06	Sodium	1340	1100	645	19.7	OK	NA
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	7040298-05 / 7040298-06	Thallium	ND	ND	3.20		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	7040298-05 / 7040298-06	Vanadium	68.5	64.6	6.50	5.86	OK	NA
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	7040298-05 / 7040298-06	Zinc	93.5	83.3	7.70	11.5	OK	NA

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Location	Analysis
SAIA-SB/SG44	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	PCB-1016 (Arochlor 1016)	ND	ND	43.0		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	PCB-1221 (Arochlor 1221)	ND	ND	43.0		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	PCB-1232 (Arochlor 1232)	ND	ND	43.0		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	PCB-1242 (Arochlor 1242)	ND	ND	43.0		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	PCB-1248 (Arochlor 1248)	ND	ND	43.0		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	PCB-1254 (Arochlor 1254)	ND	ND	43.0		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	PCB-1260 (Arochlor 1260)	ND	ND	43.0		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	PCB-1262 (Arochlor 1262)	ND	ND	43.0		NA	OK
Apr 25 2017	SAIA-SB44-25 / SAIA-SB44-26	I2871-07 / I2871-08	PCB-1268 (Arochlor 1268)	ND	ND	43.0		NA	OK

Location	Analysis
SAIA-SB/SG45	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	1,1,1-Trichloroethane	ND	ND	10.0		NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	1,1,2,2-Tetrachloroethane	ND	ND	20.0		NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	20.0		NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	1,1,2-Trichloroethane	ND	ND	10.0		NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	1,1-Dichloroethane	ND	ND	9.00		NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	1,1-Dichloroethene	ND	ND	9.00		NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	1,2,4-Trichlorobenzene	ND	ND	20.0		NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	1,2,4-Trimethylbenzene	ND	ND	10.0		NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	1,2-Dibromoethane (EDB)	ND	ND	20.0		NA	OK

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Location	Analysis
SAIA-SB/SG45	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	1,2-Dichlorobenzene	ND	ND	10.0		NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	1,2-Dichloroethane	ND	ND	9.00		NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	1,2-Dichloropropane	ND	ND	10.0		NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	1,2-Dichlorotetrafluoroethane	ND	ND	20.0		NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	1,3,5-Trimethylbenzene	ND	ND	10.0		NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	1,3-Dichlorobenzene	ND	ND	10.0		NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	1,4-Dichlorobenzene	ND	ND	10.0		NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	1,4-Dioxane (p-Dioxane)	ND	ND	8.00		NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	Benzene	30.0	40.0	7.00	28.6	OK	NA
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	Bromomethane	ND	ND	9.00		NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	Carbon Tetrachloride	ND	ND	10.0		NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	Chlorobenzene	ND	ND	10.0		NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	Chloroethane	ND	ND	6.00		NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	Chloroform	30.0	40.0	10.0	28.6	OK	NA
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	Chloromethane	ND	ND	5.00		NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	cis-1,2-Dichloroethylene	ND	ND	9.00		NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	cis-1,3-Dichloropropene	ND	ND	10.0		NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	Ethylbenzene	6.00 J	8.00 J	10.0	28.6	NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	Hexachlorobutadiene	ND	ND	20.0		NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	Isopropanol	20.0	10.0	5.00	66.7	Out	NA
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	m,p-Xylene	20.0	20.0	20.0	0.00	NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	Methylene Chloride	6.00 J	6.00 J	8.00	0.00	NA	OK

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SAIA-SB/SG45	TO15

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	o-Xylene	7.00 J	8.00 J	10.0	13.3	NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	Styrene	ND	ND	9.00		NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	Tetrachloroethene (PCE)	10.0 J	10.0	20.0	0.00	NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07RE1	Toluene	100	200	8.00	66.7	Out	NA
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	trans-1,3-Dichloropropene	ND	ND	10.0		NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	Trichloroethene (TCE)	20.0	20.0	10.0	0.00	OK	NA
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	Trichlorofluoromethane	ND	ND	10.0		NA	OK
Apr 27 2017	SAIA-SG45-15 / SAIA-SG45-16	1704057-06 / 1704057-07	Vinyl Chloride	ND	ND	6.00		NA	OK

Location	Analysis
SAIA-SB/SG46	C245.5

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	7050025-01 / 7050025-02	Mercury	0.0820 J	0.0870 J	0.110	5.92	NA	OK

Location	Analysis
SAIA-SB/SG46	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	1,2,4,5-Tetrachlorobenzene	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	1,4-Dioxane (p-Dioxane)	ND	ND	72.0		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	2,3,4,6-Tetrachlorophenol	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	2,4,5-Trichlorophenol	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	2,4,6-Trichlorophenol	ND	ND	180		NA	OK

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Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	2,4-Dichlorophenol	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	2,4-Dimethylphenol	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	2,4-Dinitrophenol	ND	ND	350		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	2,4-Dinitrotoluene	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	2,6-Dinitrotoluene	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	2-Chloronaphthalene	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	2-Chlorophenol	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	2-Methylnaphthalene	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	2-Methylphenol (o-Cresol)	ND	ND	350		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	2-Nitroaniline	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	2-Nitrophenol	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	3,3'-Dichlorobenzidine	ND	ND	350		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	3-Nitroaniline	ND	ND	350		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	4,6-Dinitro-2-Methylphenol	ND	ND	350		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	4-Bromophenyl phenyl ether	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	4-Chloro-3-Methylphenol	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	4-Chloroaniline	ND	ND	350		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	4-Chlorophenyl Phenyl Ether	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	4-Methylphenol (p-Cresol)	ND	ND	350		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	4-Nitroaniline	ND	ND	350		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	4-Nitrophenol	ND	ND	350		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Acenaphthene	ND	ND	180		NA	OK

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Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Acenaphthylene	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Acetophenone	ND	ND	350		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Anthracene	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Atrazine	ND	ND	350		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Benzaldehyde	ND	ND	350		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Benzo(a)anthracene	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Benzo(a)pyrene	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Benzo(b)fluoranthene	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Benzo(g,h,i)perylene	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Benzo(k)fluoranthene	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Benzyl butyl phthalate	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Biphenyl (Diphenyl)	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	bis(2-Chloroethoxy) Methane	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	350		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	bis(2-Chloroisopropyl) Ether	ND	ND	350		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	bis(2-Ethylhexyl) Phthalate	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Caprolactam	ND	ND	350		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Carbazole	ND	ND	350		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Chrysene	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Di-n-Butyl Phthalate	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Di-n-Octylphthalate	ND	ND	350		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Dibenz(a,h)anthracene	ND	ND	180		NA	OK

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Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Dibenzofuran	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Diethyl Phthalate	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Dimethyl Phthalate	77.0 J	100 J	180	26.0	NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Fluoranthene	ND	ND	350		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Fluorene	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Hexachlorobenzene	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Hexachlorobutadiene	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Hexachlorocyclopentadiene	ND	ND	350		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Hexachloroethane	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Indeno(1,2,3-c,d)pyrene	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Isophorone	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	n-Nitrosodi-n-propylamine	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	n-Nitrosodiphenylamine	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Naphthalene	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Nitrobenzene	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Pentachlorophenol	ND	ND	350		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Phenanthrene	ND	ND	180		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Phenol	ND	ND	350		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Pyrene	ND	ND	180		NA	OK

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Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	1,1,1-Trichloroethane	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	1,1,2,2-Tetrachloroethane	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	1,1,2-Trichloroethane	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	1,1-Dichloroethane	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	1,1-Dichloroethene	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	1,2,3-Trichlorobenzene	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	1,2,3-Trichloropropane	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	1,2,4-Trichlorobenzene	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	1,2-Dibromo-3-chloropropane	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	1,2-Dibromoethane (EDB)	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	1,2-Dichlorobenzene	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	1,2-Dichloroethane	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	1,2-Dichloropropane	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	1,3-Dichlorobenzene	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	1,4-Dichlorobenzene	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	2-Butanone (MEK)	ND	ND	18.0		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	2-Hexanone	ND	ND	18.0		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	4-Methyl-2-pentanone (MIBK)	ND	ND	18.0		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Acetone	ND	ND	18.0		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Benzene	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Bromochloromethane	ND	ND	8.90		NA	OK

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Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Bromodichloromethane	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Bromoform	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Bromomethane	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Carbon Disulfide	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Carbon Tetrachloride	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Chlorobenzene	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Chloroethane	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Chloroform	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Chloromethane	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	cis-1,2-Dichloroethylene	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	cis-1,3-Dichloropropene	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Cyclohexane	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Dibromochloromethane	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Dichlorodifluoromethane	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Ethylbenzene	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Isopropylbenzene (Cumene)	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	m,p-Xylene	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Methyl Acetate	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Methylcyclohexane	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Methylene Chloride	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	o-Xylene	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Styrene	ND	ND	8.90		NA	OK

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Location	Analysis
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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	tert-Butyl Methyl Ether (MTBE)	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Tetrachloroethene (PCE)	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Toluene	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	trans-1,2-Dichloroethene	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	trans-1,3-Dichloropropene	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Trichloroethene (TCE)	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Trichlorofluoromethane	ND	ND	8.90		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	Vinyl Chloride	ND	ND	8.90		NA	OK

Location	Analysis
SAIA-SB/SG46	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	7050025-01 / 7050025-02	Aluminum	11200	10400	21.6	7.41	OK	NA
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	7050025-01 / 7050025-02	Antimony	1.70 J	1.60 J	6.50	6.06	NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	7050025-01 / 7050025-02	Arsenic	4.10	3.70	1.10	10.3	OK	NA
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	7050025-01 / 7050025-02	Barium	117	103	21.6	12.7	OK	NA
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	7050025-01 / 7050025-02	Beryllium	ND	ND	0.540		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	7050025-01 / 7050025-02	Cadmium	1.40	1.10	0.540	24.0	OK	NA
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	7050025-01 / 7050025-02	Calcium	7930	6700	539	16.8	OK	NA
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	7050025-01 / 7050025-02	Chromium	22.4	19.6	1.10	13.3	OK	NA
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	7050025-01 / 7050025-02	Cobalt	9.70	10.2	5.40	5.03	OK	NA
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	7050025-01 / 7050025-02	Copper	33.3	28.8	2.70	14.5	OK	NA

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SAIA-SB/SG46	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	7050025-01 / 7050025-02	Iron	21900	21300	10.8	2.78	OK	NA
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	7050025-01 / 7050025-02	Lead	305	243	1.10	22.6	OK	NA
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	7050025-01 / 7050025-02	Magnesium	5660	5440	539	3.96	OK	NA
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	7050025-01 / 7050025-02	Manganese	484	388	1.60	22.0	OK	NA
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	7050025-01 / 7050025-02	Nickel	21.3	17.8	4.30	17.9	OK	NA
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	7050025-01 / 7050025-02	Potassium	3040	2870	539	5.75	OK	NA
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	7050025-01 / 7050025-02	Selenium	ND	0.380 J	3.80		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	7050025-01 / 7050025-02	Silver	ND	ND	1.10		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	7050025-01 / 7050025-02	Sodium	ND	ND	539		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	7050025-01 / 7050025-02	Thallium	ND	ND	2.70		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	7050025-01 / 7050025-02	Vanadium	37.5	35.2	5.40	6.33	OK	NA
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	7050025-01 / 7050025-02	Zinc	306	245	6.50	22.1	OK	NA

Location	Analysis
SAIA-SB/SG46	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	PCB-1016 (Arochlor 1016)	ND	ND	35.0		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	PCB-1221 (Arochlor 1221)	ND	ND	35.0		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	PCB-1232 (Arochlor 1232)	ND	ND	35.0		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	PCB-1242 (Arochlor 1242)	ND	ND	35.0		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	PCB-1248 (Arochlor 1248)	ND	ND	35.0		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	PCB-1254 (Arochlor 1254)	ND	ND	35.0		NA	OK

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Location	Analysis
SAIA-SB/SG46	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	PCB-1260 (Arochlor 1260)	8.00 J	13.0 J	35.0	47.6	NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	PCB-1262 (Arochlor 1262)	ND	ND	35.0		NA	OK
Apr 26 2017	SAIA-SB46-0.5 / SAIA-SB46-0.6	I2871-17 / I2871-18	PCB-1268 (Arochlor 1268)	ND	ND	35.0		NA	OK

Location	Analysis
SAIA-SB/SG47	C245.5

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	7050025-09 / 7050025-10	Mercury	0.0320 J	0.0450 J	0.110	33.8	NA	OK

Location	Analysis
SAIA-SB/SG47	CSVOL12

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	1,2,4,5-Tetrachlorobenzene	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	1,4-Dioxane (p-Dioxane)	ND	ND	74.0		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	2,3,4,6-Tetrachlorophenol	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	2,4,5-Trichlorophenol	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	2,4,6-Trichlorophenol	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	2,4-Dichlorophenol	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	2,4-Dimethylphenol	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	2,4-Dinitrophenol	ND	ND	360		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	2,4-Dinitrotoluene	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	2,6-Dinitrotoluene	ND	ND	190		NA	OK

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Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	2-Chloronaphthalene	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	2-Chlorophenol	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	2-Methylnaphthalene	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	2-Methylphenol (o-Cresol)	ND	ND	360		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	2-Nitroaniline	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	2-Nitrophenol	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	3,3'-Dichlorobenzidine	ND	ND	360		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	3-Nitroaniline	ND	ND	360		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	4,6-Dinitro-2-Methylphenol	ND	ND	360		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	4-Bromophenyl phenyl ether	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	4-Chloro-3-Methylphenol	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	4-Chloroaniline	ND	ND	360		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	4-Chlorophenyl Phenyl Ether	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	4-Methylphenol (p-Cresol)	ND	ND	360		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	4-Nitroaniline	ND	ND	360		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	4-Nitrophenol	ND	ND	360		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Acenaphthene	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Acenaphthylene	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Acetophenone	ND	ND	360		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Anthracene	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Atrazine	ND	ND	360		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Benzaldehyde	ND	ND	360		NA	OK

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Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Benzo(a)anthracene	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Benzo(a)pyrene	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Benzo(b)fluoranthene	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Benzo(g,h,i)perylene	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Benzo(k)fluoranthene	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Benzyl butyl phthalate	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Biphenyl (Diphenyl)	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	bis(2-Chloroethoxy) Methane	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	ND	ND	360		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	bis(2-Chloroisopropyl) Ether	ND	ND	360		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	bis(2-Ethylhexyl) Phthalate	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Caprolactam	ND	ND	360		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Carbazole	ND	ND	360		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Chrysene	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Di-n-Butyl Phthalate	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Di-n-Octylphthalate	ND	ND	360		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Dibenz(a,h)anthracene	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Dibenzofuran	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Diethyl Phthalate	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Dimethyl Phthalate	330	300	190	9.52	OK	NA
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Fluoranthene	ND	ND	360		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Fluorene	ND	ND	190		NA	OK

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Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Hexachlorobenzene	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Hexachlorobutadiene	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Hexachlorocyclopentadiene	ND	ND	360		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Hexachloroethane	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Indeno(1,2,3-c,d)pyrene	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Isophorone	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	n-Nitrosodi-n-propylamine	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	n-Nitrosodiphenylamine	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Naphthalene	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Nitrobenzene	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Pentachlorophenol	ND	ND	360		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Phenanthrene	ND	ND	190		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Phenol	67.0 J	65.0 J	360	3.03	NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Pyrene	ND	ND	190		NA	OK

Location	Analysis
SAIA-SB/SG47	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	1,1,1-Trichloroethane	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	1,1,2,2-Tetrachloroethane	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	1,1,2-Trichloroethane	ND	ND	5.90		NA	OK

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SAIA-SB/SG47	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	1,1-Dichloroethane	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	1,1-Dichloroethene	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	1,2,3-Trichlorobenzene	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	1,2,3-Trichloropropane	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	1,2,4-Trichlorobenzene	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	1,2-Dibromo-3-chloropropane	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	1,2-Dibromoethane (EDB)	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	1,2-Dichlorobenzene	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	1,2-Dichloroethane	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	1,2-Dichloropropane	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	1,3-Dichlorobenzene	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	1,4-Dichlorobenzene	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	2-Butanone (MEK)	ND	ND	12.0		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	2-Hexanone	ND	ND	12.0		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	4-Methyl-2-pentanone (MIBK)	ND	ND	12.0		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Acetone	ND	ND	12.0		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Benzene	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Bromochloromethane	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Bromodichloromethane	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Bromoform	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Bromomethane	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Carbon Disulfide	ND	ND	5.90		NA	OK

Data Quality Summary Report
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Southern Avenue Industrial Area
SAIA SAP

Location	Analysis
SAIA-SB/SG47	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Carbon Tetrachloride	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Chlorobenzene	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Chloroethane	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Chloroform	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Chloromethane	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	cis-1,2-Dichloroethylene	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	cis-1,3-Dichloropropene	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Cyclohexane	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Dibromochloromethane	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Dichlorodifluoromethane	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Ethylbenzene	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Isopropylbenzene (Cumene)	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	m,p-Xylene	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Methyl Acetate	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Methylcyclohexane	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Methylene Chloride	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	o-Xylene	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Styrene	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	tert-Butyl Methyl Ether (MTBE)	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Tetrachloroethene (PCE)	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Toluene	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	trans-1,2-Dichloroethene	ND	ND	5.90		NA	OK

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Location	Analysis
SAIA-SB/SG47	CVOL

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	trans-1,3-Dichloropropene	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Trichloroethene (TCE)	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Trichlorofluoromethane	ND	ND	5.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	Vinyl Chloride	ND	ND	5.90		NA	OK

Location	Analysis
SAIA-SB/SG47	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	7050025-09 / 7050025-10	Aluminum	13300	14500	22.4	8.63	OK	NA
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	7050025-09 / 7050025-10	Antimony	0.510 J	0.380 J	6.70	29.2	NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	7050025-09 / 7050025-10	Arsenic	0.930 J	1.50	1.10	46.9	NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	7050025-09 / 7050025-10	Barium	115	121	22.4	5.08	OK	NA
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	7050025-09 / 7050025-10	Beryllium	ND	ND	0.560		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	7050025-09 / 7050025-10	Cadmium	ND	ND	0.560		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	7050025-09 / 7050025-10	Calcium	7420	8050	559	8.14	OK	NA
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	7050025-09 / 7050025-10	Chromium	17.0	18.5	1.10	8.45	OK	NA
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	7050025-09 / 7050025-10	Cobalt	11.1	11.8	5.60	6.11	OK	NA
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	7050025-09 / 7050025-10	Copper	13.9	15.8	2.80	12.8	OK	NA
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	7050025-09 / 7050025-10	Iron	21200	22800	11.2	7.27	OK	NA
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	7050025-09 / 7050025-10	Lead	8.00	19.1	1.10	81.9	Out	NA
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	7050025-09 / 7050025-10	Magnesium	6950	7470	559	7.21	OK	NA
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	7050025-09 / 7050025-10	Manganese	346	388	1.70	11.4	OK	NA

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SAIA SAP

Location	Analysis
SAIA-SB/SG47	E200.7

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	7050025-09 / 7050025-10	Nickel	11.2	12.5	4.50	11.0	OK	NA
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	7050025-09 / 7050025-10	Potassium	4240	4490	559	5.73	OK	NA
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	7050025-09 / 7050025-10	Selenium	0.450 J	ND	3.90		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	7050025-09 / 7050025-10	Silver	ND	ND	1.10		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	7050025-09 / 7050025-10	Sodium	ND	ND	559		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	7050025-09 / 7050025-10	Thallium	ND	ND	2.80		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	7050025-09 / 7050025-10	Vanadium	41.5	44.5	5.60	6.98	OK	NA
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	7050025-09 / 7050025-10	Zinc	64.6	79.7	6.70	20.9	OK	NA

Location	Analysis
SAIA-SB/SG47	SW8082

Sample Date	Field ID - Primary/Field Dup	Lab ID - Primary/Field Dup	Analyte	Primary Result	FD Result	RL	RPD	RPD Check	RL Check
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	PCB-1016 (Arochlor 1016)	ND	ND	36.0		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	PCB-1221 (Arochlor 1221)	ND	ND	36.0		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	PCB-1232 (Arochlor 1232)	ND	ND	36.0		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	PCB-1242 (Arochlor 1242)	ND	ND	36.0		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	PCB-1248 (Arochlor 1248)	ND	ND	36.0		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	PCB-1254 (Arochlor 1254)	ND	ND	36.0		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	PCB-1260 (Arochlor 1260)	ND	ND	36.0		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	PCB-1262 (Arochlor 1262)	ND	ND	36.0		NA	OK
Apr 26 2017	SAIA-SB47-2 / SAIA-SB47-3	I2884-02 / I2884-03	PCB-1268 (Arochlor 1268)	ND	ND	36.0		NA	OK

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FD = Field Duplicate
RL = Reporting Limit
RPD = Relative Percent Difference

RL Check = If either the primary sample or field duplicate result is less than 1 times the RL then the criteria used to determine if the field duplicate is outside QC limits is +/- RL for Water and +/- 2 times RL for Soil

The RPD criteria used for organic analysis is: 35
The RPD criteria used for non-organic analysis is: 35

APPENDIX G

PUMP TEST AND MODELING TECHNICAL MEMORANDUM

ATTACHMENT 4

Aquifer Pumping Test and Development and Results of Groundwater Flow and Fate-and-Transport Model

URS

TECHNICAL MEMORANDUM

TO: Don Gruber, Project Manager, ITSI

FROM: Eddy Teasdale, PG

DATE: December 16, 2009

SUBECT: **Development and Results of Groundwater Flow and Fate-and-Transport Model for the Cooper Drum Superfund Site, South Gate, California**

I. INTRODUCTION

This technical memorandum describes the numerical groundwater model developed for the Cooper Drum Superfund Project (Site) in South Gate, California The model uses particle-tracking simulations to predict capture zones of the proposed extraction system. The model also includes a fate-and-transport component that can be used to predict migration of chemicals of concern (COCs) in groundwater at the Site.

II. HYDROGEOLOGIC CONCEPTUAL MODEL

The conceptual model serves as a basis for the numerical model. The conceptual model summarized here is based on information in existing Site documents and discussions with the long-time Project Manager. Input to the numerical model included hydraulic conductivity, groundwater recharge, and chemical properties of COCs. Groundwater model boundaries are based on real world conditions. Input parameters may have been modified during model calibration, but the modifications were restricted to reasonable real world ranges.

Site-Specific Geology

The local geology and hydrogeology is briefly described below. A more complete description of the regional and local geology and hydrogeology can be found in the *Remedial Design Technical Memorandum Field Sampling Results, and Monitoring Well Installation and Groundwater Sampling Results, Addendum Number 4* (Innovative Technical Solutions Inc. [ITSI], 2010), which is based in part on the *Geohydrology, Geochemistry, and Ground-Water Simulation-Optimization of the Central and West Coast Basin, Los Angeles, County California* (United States Geological Survey [USGS], 2003).

The Site is located in the West Coast Basin of the Los Angeles Coastal Plain and extends from Santa Monica Bay east to the Newport-Inglewood uplift, and from the Ballona Escarpment on the north to Palos Verdes and San Pedro Bay to the south. The Site is underlain by approximately 1,500 feet of fresh water-bearing strata consisting of (from youngest to oldest) the Older Dune Sands, the upper Lakewood Formation (including the semi-perched aquifer and the Bellflower aquitard), the lower Lakewood Formation (including the Gage aquifer), the San Pedro Formation (including the Silverado aquifer), and the Upper Pico Formation.

Stratigraphy is generally consistent across the Site. Interbedded silts, clays, and silty sands occur from the ground surface to approximately 60 feet below ground surface (bgs). These sediments are representative of the Bellflower aquiclude, which incorporates the perched aquifer system. The Bellflower aquiclude overlays the Gaspur aquifer, which extends to a depth of approximately 110 feet bgs. The Gaspur aquifer

then overlays the Exposition aquifer. Municipal groundwater production occurs from the Exposition aquifer (part of the Lakewood Formation).

Site-Specific Hydrogeology

Groundwater elevations beneath the Site occur at elevations of approximately 51 to 52 feet about mean seal level (msl). The semi-perched Bellflower aquiclude is underlain by silty sands of the Gaspur aquifer. The Gaspur aquifer has been furthered divided into shallow, intermediate, and lower aquifer for better representation of the volatile organic compounds (VOC) concentration.

On this basis, the groundwater beneath the Site has been separated into five zones: shallow perched, the shallow Gaspur, intermediate Gaspur, lower Gaspur, and Exposition. Groundwater within the semi-perched and Gaspur aquifers primarily flows to the south; but it also has a southwesterly component in the lower Gaspur aquifer, especially near the southern portion of Southern Avenue. A north to south flow direction is generally consistent with historical water levels measured at the Site as referenced in groundwater monitoring reports. Flow variations in this area may be or may have been influenced by several factors that include but are not limited to the natural topography, which would suggest that groundwater flow would be predominantly to the southwest, toward the ocean.

In general, VOCs and 1,4-dioxane (1,4-D) are in the shallow, intermediate, and lower intervals of the Gaspur aquifer.

Aquifer Parameters

Aquifer parameters initially input in the model were based on results from historical pilot study injection tests and historical and 2009 aquifer tests performed at the Site. Table 1 summarizes the hydraulic conductivities calculated in these aquifer tests, and Appendix A provides details about the 2009 aquifer test. Effective porosity was estimated at 0.3 based on the lithology. Values for total organic carbon (TOC) and bulk density were derived from soil samples collected during the Cooper Drum remedial investigation feasibility study (RI/FS) (URS, 2002). Total organic carbon ranged from 0.2 to 0.03 percent, and bulk density ranged from 91.02 pounds per cubic foot (lbs/ft^3) to 101.92 lbs/ft^3 (URS, 2002).

Table 1. Summary of Hydraulic Conductivity, Cooper Drum Site

Test Area	Aquifer Test Date	Hydraulic Conductivity (feet/day)
EW-3 (McCallum Avenue)	May 2009	32 to 57
EW-1 (Source Area)	April 1999	33 to 54
EW-2 (Source Area)	March 2001	26 to 47

Groundwater Elevations, Flow Directions, and Gradients

Information on locations of wells used to collect data for interpretation of groundwater elevation, flow direction, and gradient at the Site and well specifications are included in the *Remedial Design Technical Memorandum for Field Sampling Results, and Monitoring Well Installation and Groundwater Sampling*

Results, Addendum Number 4 (ITSI, 2010). Hydrographs of shallow zone wells show minor seasonal groundwater level fluctuations and larger multi-year fluctuations that may be related to regional pumping and recharge. Historical shallow zone groundwater elevations (from 1990 to present) range from approximately 51 to 56 feet msl. A comparison of water levels in well pairs indicates vertical gradients are generally less than a few tenths of a foot and may be either upward or downward in a given well pair. This relatively flat gradient is expected in a system with no significant layering and high permeability.

Contoured potentiometric surface maps of historical groundwater levels indicate a generally southward flow direction. The hydraulic gradient across the model area is approximately 0.001 based on May 2009 water level data (URS, 2009).

Groundwater Recharge

Because the Site is almost entirely covered with asphalt and concrete, limited recharge was assigned to the model. Irrigation and precipitation in small areas of grass and vegetation and other areas not covered by impermeable surfaces within the model domain may provide some recharge to groundwater in this area. Recharge rates were assigned to the model based on precipitation data collected by the Los Angeles Civic Center (LLC) rain gauging station, located in the Los Angeles River Basin of the South Coast Hydrologic Area, near Los Angeles, California. (California Data Exchange Center [CDEC], 2009). Rates of 1 percent (%) of the average daily precipitation (professional judgment based on asphalt coverage) were input to the model as groundwater recharge. There are no unlined rivers or streams near the Site or model domain.

Groundwater Pumping

No active groundwater pumping occurs on the Site; however, there are municipal supply wells completed within the Exposition aquifer. Several of these municipal wells are close to the Site. Based on recent aquifer test data (Appendix A), there does not appear to be a hydraulic connection between the Gasper and Exposition aquifers in the vicinity of the Site.

Contaminant Distribution

Trichloroethene (TCE), cis-1,2-dichloroethane (cis-1,2-DCE) and 1,4-D are the primary COCs in groundwater at the Site. Contoured isoconcentrations for these three contaminants using May 2009 data are included in the *Remedial Design Technical Memorandum for Field Sampling Results, and Monitoring Well Installation and Groundwater Sampling Results, Addendum Number 4* (URS, 2009).

III. GROUNDWATER FLOW AND FATE-AND-TRANSPORT MODEL DEVELOPMENT

The Site numerical model consists of two models: a groundwater flow model and a fate-and-transport model. The two are linked by an interface in the model processor. Depending on the modeling objectives, the groundwater flow model can be operated independently of the transport model; however, when transport simulation is needed, both the flow and the transport models are required.

Model Software

The groundwater flow and fate-and-transport models were developed using the Brigham Young University Environmental Modeling Research Laboratory (EMRL) Groundwater Modeling System (GMS), Version 6.5 (EMRL, 2008). GMS is a comprehensive graphical user interface (GUI) for performing groundwater simulations. GMS provides a graphical preprocessor/postprocessor interface to several groundwater modeling codes: MODFLOW, MODPATH, MT3DMS, RT3D, FEMWATER, SEEP2D, NUFT, and UTCHEM. The EMRL of Brigham Young University, in partnership with the WES, developed the GMS interface. The GMS was used to develop the Cooper Drum Site conceptual hydrogeological model and to convert it into groundwater flow and transport models. All modeling codes and geological software tools used during this modeling effort are summarized below.

EarthVision 7 Geological Model. EarthVision 7 is a three-dimensional (3-D) modeling tool commonly used in oil exploration. It was used for this effort to update the 3-D geological model that has been used to support the groundwater monitoring program at the Site. Use of this sophisticated 3-D modeling tool was the most accurate, efficient, and convenient method for developing the structure of the groundwater model for this Site.

MODFLOW Groundwater Flow Model. The computer code selected to model groundwater flow beneath the Site was MODFLOW, a 3-D, cell-centered, finite difference, saturated flow model developed by the USGS (McDonald and Harbaugh, 1988). GMS provides an interface to the updated version, MODFLOW 2000 (Hill et al., 2000). Based on the information available, the uncertainties in site-specific information, the hydrogeologic complexity at the Site, and the modeling objectives, MODFLOW was considered an appropriate groundwater flow code.

MODPATH Particle-Tracking Model. Particle-tracking simulations provide a convenient means of visualizing groundwater flow paths. This is particularly useful in evaluating capture zones around a pumping well. MODPATH was selected as the particle-tracking program for this effort. MODPATH is a 3-D particle-tracking program that enables reverse and forward tracking from sinks (wells) and sources, respectively. MODPATH was developed by the USGS (Pollock, 1994). GMS has updated the interface for MODPATH to a seamless module that couples with MODFLOW 2000. MODFLOW flow modeling results (direction and rates of groundwater movement) are among the inputs for MODPATH runs.

MT3DMS Groundwater Transport Model. Contaminant transport simulations were conducted using the MT3DMS groundwater contaminant transport model code (Zheng and Wang, 1999). MT3DMS is an improved version of the MT3D model developed in 1990 (Zheng, 1990). It has improved numerical solvers that make the model more stable and help prevent model-induced numerical oscillations. GMS provides a module that links MODFLOW groundwater flow information to MT3DMS. MT3DMS uses this modeling output to simulate contaminant transport using the MODFLOW simulated groundwater flow field.

Parameter Estimation System (PEST). PEST is a model-independent parameter optimizer (Doherty, 2002). It was selected to shorten the time and improve the groundwater model calibration process. The typical calibration process for groundwater flow or transport models is iterative. The model with a specific set of parameter inputs is started; then the model results are compared to calibration targets (e.g., groundwater elevations at specific locations). After the comparison, the model is revised, and the process

is repeated until the model output adequately simulates the calibration data set. GMS provides a module that links PEST with MODFLOW and MT3DMS to facilitate calibration.

Model Construction

The flow model simulates the perched sediments, the Bellflower aquitard, the shallow, intermediate, and lower Gaspur aquifer, and the regional Exposition aquifer. The model domain was defined to incorporate an area much larger than the Site to mitigate irregularities that occur along the model edges. The model grid consists of 196 rows and 122 columns, creating model cells ranging from 10 by 10 feet to 100 by 100 feet in area (Figure 1). The model was divided into six layers: two layers represent the shallow perched zone and the Bellflower aquiclude; three layers represent the shallow, intermediate, and lower Gaspur aquifer; and the bottom layer represents the Exposition aquifer. There is no lithologic basis for these divisions, but more layers allow greater discretization of well screen intervals, greater particle tracking resolution, and better representation of VOC concentration. The top of Layer 1 is ground surface. The tops of Layers 2, 3, 4, 5, and 6 were specified as 60, 40, 25, 0, and -20 feet msl, respectively. The bottom of Layer 5 is -20 feet msl, which corresponds to the top of the Exposition aquifer. The saturated aquifer thickness is approximately 150 feet for the entire model domain and approximately 60 feet for the Gaspur aquifer.

The spatial distributions of hydraulic conductivity values for the flow model were based on several factors, including Site geology, aquifer test results, literature review, and other groundwater models in the area. The hydraulic conductivity values were categorized into zones (polygons) in the conceptual model based on interpretation of the geologic data into a solid geology model. These hydraulic conductivity values were then mapped into the numerical groundwater model and adjusted later in the flow model calibration.

A 3-D geological model was produced to support visualization of the groundwater system at the Cooper Drum Site. This 3-D geological model was developed from lithologic data within the screen intervals of Site groundwater wells. Computer modeling of the geology was performed with a 3-D modeling software tool, EarthVision 7, following an interpretation of the lithologic information by a geologist. EarthVision 7 was used to develop 3-D correlations between the boreholes. The development was accomplished by interpolating numerically coded lithology onto a 3-D grid. The 3-D grid was then filled to produce a solid geologic model and fence diagrams. This method allows for rigorous analysis of the data and the geologic system through any location within the volume. In addition, EarthVision 7 contains a database of lithologic information, cone penetrometer testing data, and water levels with depth. This method saves time because fence diagrams and 3-D models can be viewed on a monitor from several oblique angles prior to printing.

The geologic model was directly imported into GMS. The geology was discretized into two separate, independent geological grids; a course grid with dimensions of 10 feet vertically by 500 feet laterally, and a refined grid with dimensions of 10 feet vertically by 50 feet laterally. The grids were interpolated to the MODFLOW 2000 grid. The refined grid was used to enhance the geology in the general area of the Site. The 10-foot-thick lithologic data were averaged over the total thickness for each MODFLOW 2000 layer. These layer-specific lithologic interpolations were verified by comparing boring logs and cross-sections of the area.

After the lithologic data were interpolated, individual hydraulic conductivity zones were digitized based on the interpolated lithology for each layer. The conductivity zones are refined within and around the Site because of the large amount of lithologic information available from the refined geologic grid. The hydraulic conductivity zones are larger and less variable farther from the Site, because the lithologic data density decreases.

Initial conductivity values were modified and refined during iterative PEST simulations to achieve a higher degree of calibration with measured water levels. Hydraulic conductivity values in PEST simulations were allowed to vary within a range of 10 to 200 feet per day. Hydraulic conductivity distributions estimated by PEST were then modified based on historical Site information, current contaminant plume distributions, and MODPATH particle-tracking simulations. Hydraulic conductivity values range from 0.1 to 200 feet per day; hydraulic conductivity distributions for the shallow, intermediate, and lower Gaspur aquifer (Layers 3, 4, and 5) are shown on Figure 2. Vertical anisotropy ratios (Kh/Kv) ranged from 0.1 to 10 in the Gaspur aquifer. Porosity in all layers was specified as 0.30.

Groundwater flow is essentially north to south; therefore, the boundaries were specified as general head boundaries (GHBs). GHBs were determined by extrapolating the contoured potentiometric surface across the model domain and incorporating these head values into the model boundaries. GHBs were assigned high conductance values (1,000 square feet per day [ft^2/day]) and essentially behave as specified heads. Assigned northern GHB heads range from approximately 48 to 56 feet msl; and assigned southern GHB heads range from approximately 46 to 50 feet msl. Initial flow model steady state simulations were based on May 2009 groundwater level data.

Flow Calibration

The flow model was calibrated to steady-state conditions and compared to the measured groundwater elevation data from May 2009. Once head errors at calibration target locations (existing monitoring wells) met predetermined criteria, the steady-state model was considered adequately calibrated.

An additional calibration technique using particle tracking was used. Simulated groundwater velocities were compared to measured velocities over time. Calibrated average model errors across the Site are listed in Table 2.

Table 2. Groundwater Flow Calibration Results, Cooper Drum Site

Error Type	Error	Calibration Criterion
Mean Error	0.26 feet	Not applicable
Mean Absolute Error	0.36 feet	Not applicable
Root Mean Squared Error	0.42 feet	± 1 foot
Model Error	6.5%	10%

This high degree of model calibration was probably due to the relative homogeneity and simplicity of the hydrogeologic system as well as the regularity of the potentiometric surface in this area. Simulated observed head data for the model is summarized on Figure 3.

Transport Model Setup

Based on the Site history and the historical analytical groundwater data, the contaminants modeled were TCE, cis-1,2-DCE, and 14D. These three contaminants were selected because of their relatively large plumes.

The simulated contaminant transport processes include advection, dispersion, and adsorption (retardation). Given the lack of geochemical data available during model construction, residual source mass, biodegradation, or other chemical transformations were not simulated. Future model updates could incorporate revised parameters as additional data are collected. The modeled processes are discussed hereafter.

Initial Transport Model Parameters

The transport model simulates the processes of advection, dispersion, and adsorption (retardation) based on the simulated groundwater flow conditions, the initial TCE, cis-1,2-DCE, and 14D concentration distributions, and the transport properties. The following subsections discuss specific parameters used in the transport model development.

Dispersion

Dispersion refers to the process whereby a dissolved contaminant will be spatially distributed longitudinally (along the direction of groundwater flow), transversely (perpendicular to groundwater flow), and vertically (downward or upward or both) because of mechanical mixing and chemical diffusion in the aquifer. These processes contribute to the development of the plume shapes and dimensions (the spatial concentration distributions of the dissolved contaminant mass in the aquifer). Selection of values for dispersivity (the parameter used here to represent dispersion) is a difficult process given the impracticability of measuring dispersion in the field; however, simple estimation techniques based on the length of the contaminant plumes are available.

A large number of field data compiled by Gelhar, Welty, and Rehfeldt (1992), presented in *A Critical Review of Data on Field-Scale Dispersion in Aquifers*, suggest that longitudinal dispersivity is a function of the travel distance and the aquifer type. For porous media and plume length scales on the order of a few hundred feet to a few thousand feet, the longitudinal dispersivity varies between 1% and 10% of the travel distance. Transverse and vertical dispersivity are often set to be 10% and 5% of the longitudinal dispersivity, respectively (Aziz et al., 2000; Domenico and Schwartz, 1997; ASTM, 1995). For this transport model, the longitudinal dispersivity was set to be 30 feet. After verification, the transverse and vertical dispersivity were set to be 10 percent and 0.1 percent of the longitudinal dispersivity, or 3.0 and 0.03 feet, respectively. The effective molecular diffusion coefficient was set to be 0.0008 ft^2/day, based on the literature values of molecular diffusion in water.

Retardation

Several geochemical reactions influencing the transport of contaminants result in the retardation of contaminant migration (dissolved contaminants moving slower than groundwater). The dominating reaction is adsorption of contaminants to the surface of soil particles. Adsorption can reduce the migration of dissolved contaminants moving through the groundwater by holding contaminant mass on the surface

of soil particles. The retardation factor is the ratio of the groundwater seepage velocity to the rate that organic chemicals migrate in the groundwater. The degree of retardation depends on aquifer and constituent properties.

The retardation factor (R_e) is often estimated from soil properties and chemical data using the following variables: bulk density (ρ_b), effective porosity (n), organic carbon-water partition coefficient (K_{oc}), and fraction of organic carbon in uncontaminated soil (f_{oc}). The following expression was used to determine the retardation factor (Wiedemeier et al., 1999):

$$\mathrm{Re} = 1 + \frac{K_d \rho_b}{n}$$

where:

K_d = is distribution coefficient and $K_d = f_{oc} \times K_{oc}$

Organic carbon-water partition coefficients were set to literature values of 126 liters per kilogram (L/kg) for TCE, 49 L/kg for cis-1,2-DCE, and 17 L/kg for 14D (PNL, 1989).

The ρ_b, n, and f_{oc} values in uncontaminated soil were determined based on Site-specific analytical data. Based on these values, the retardation factors were calculated by the MT3DMS model code using the retardation factor equation shown above.

Degradation

The model was developed based on the assumption that TCE, cis-1,2-DCE, and 14D are not undergoing significant biodegradation or chemical transformation. This assumption is conservative because it leads to higher estimated contaminant concentrations than the assumption that biodegradation or chemical transformations act to reduce contaminant mass.

Transport Verification

A fate-and-transport model is rarely calibrated using specific information about contaminant releases (e.g., masses of original releases, times of releases, etc.) because the factors are usually not known with adequate certainty. This information for the Site is not known. Consequently, transport model verification was conducted by simulating historical conditions and changes over time and comparing the simulated results to measured concentration data. Historical concentration data are included in the *Remedial Design Technical Memorandum for Field Sampling Results, and Monitoring Well Installation and Groundwater Sampling Results, Addendum Number 4* (URS, 2009). Transport model verifications were performed with TCE as the simulated contaminants. Although two treatability studies were completed in June 2006 that resulted in the reduction of TCE mass, this model validation approach was still considered an adequate method to use for verification.

Similar to flow calibration criteria, transport verification criteria, or the acceptable differences between model-predicted (computed) and observed concentrations (May 2009), were selected based on an empirical understanding of the potential errors in observed Site groundwater concentrations.

The simulation times for the verification runs were determined based on the availability of and the uncertainty associated with the historical groundwater concentration data. For the transport verification run, concentration data from 2004 were used as the initial concentration conditions. The verification simulation extended from 2004 through 2009. The transport for five years was simulated, and the simulated concentration plume shapes at the end of simulation period (2009) were compared to the sampled concentration data for 2009.

The observed concentrations in 2009 and the simulated concentration distributions in 2009 are provided on Figure 4. The simulated concentration distributions at the end of the simulation (2009) were compared with the concentrations observed in May 2009. The qualitative comparison indicates that, in general, the simulated concentration distributions matched the interpolated concentration distributions of sampled concentration data from 2009, verifying that contaminant transport could be simulated adequately.

IV. CAPTURE ZONE ANALYSIS AND PARTICLE TRACKING

After the steady-state flow model calibration was successfully completed, particle tracking was performed. Particles generated using MODPATH may be calculated to travel either forward (downgradient) through the model simulation or backward (upgradient from a specific point, such as an extraction well). Forward traveling particles provide information about the predicted route of groundwater over the model run. The particle starting locations are selected to predict groundwater migration from specific locations through time. Forward traveling particles that are captured in an extraction well might not, however, predict the full capture zone for that well. They only predict the travel route from the starting location of the particle. Backward traveling particles predict where groundwater has traveled to reach a specific location. Particles traveling backward from an extraction well would predict the extent of that well's capture zone. Use of forward and backward traveling particles, therefore, depends on the particular questions being asked in the modeling effort. Particles on the figures are shown as black squares initially (year 0) and then as arrows (year 0 + n years); lines and arrows indicate particle flow paths, and the distance between arrows represents a period of five years.

For this model, particles were set to begin upgradient of the Site and were expected to travel through the area of groundwater impacted by the Site COCs (TCE, cis-1,2-DCE, and 1,4-D).

Predictive Scenarios were conducted to evaluate groundwater capture within the Cooper Drum Site model. Figure 5 illustrates the predicted flow regime or initial conditions without the influence of extraction and/or injection wells (current condition). Figures 6 through 8 show the results of predictive scenarios for the model using recently installed Extraction Well Number 3 (EW-3) pumping at 15, 20, and 30 gallons per minute (gpm). The purpose of the pumping scenarios was to see how different pumping rates would influence the particle flow paths. Starting locations for the forward traveling particles were set along the perimeters of the target area. Backward traveling particles are not used for this analysis because the forward traveling particles (and their starting locations) are most relevant for evaluating target area capture. Particles on the figures are shown as black squares initially (year 0) and then as arrows (year 0 + n years); lines and arrows indicate particle flow paths, and the distance between arrows represents a period of five years.

Figure 6 illustrates that predictive capture would occur within the Site using one extraction well with a pumping rate of 15 gpm. Predicted travel times for particles beginning at the north end of the target zone to the extraction well ranges from approximately 15 to 20 years. All of the particle flow paths to the

southwest, southeast, and northeast, beginning outside of the target zone, remain outside of the area of predicted capture.

Figure 7 illustrates that predictive capture would occur within the Site using one extraction well with a pumping rate of 20 gpm. Predicted travel times for particles beginning at the north end of the target zone to the extraction well are approximately 15 years. Some of the particle flow paths to the southwest and northeast, beginning outside of the target zone, remain outside of the area of predicted capture.

Figure 8 illustrates that predictive capture would occur within the Site using one extraction well with a pumping rate of 30 gpm. Predicted travel times for particles beginning at the north end of the target zone to the extraction well are approximately 15 years. Particle flow paths to the northeast, beginning outside of the target zone, remain outside of the area of predicted capture; however, particle flow paths to the southwest and southeast are predicted to be captured. This capture zone encompasses an area larger than the Site and could influence off-site plume migration, specifically in the southeast area.

V. FATE-AND-TRANSPORT SIMULATIONS

The model predictions were carried out based on the calibrated 3-D transport model. Eleven fate-and-transport scenarios were chosen to be simulated. A brief description of each of those scenarios is presented in Table 3.

The total model simulation time was 50 years from 2009. All estimated times to cleanup summarized in Table 3 at 50 years should be considered the minimum time to reach cleanup standards. The model was used to predict the times required for the COC plumes to reach the applicable cleanup standards of 5 µg/L for TCE, 6 µg/L for cis-1,2-DCE, and 6.1 µg/L for 14D.

Table 3. Fate-and-Transport Model Simulations, Cooper Drum Site

Scenario	Description	Purpose
1	EW-3 pumping at 30 gpm	Assess time to cleanup source area using one well.
2	EW-3 (30 gpm), SEW-1 (25 gpm)	Assess time to cleanup source area using two wells.
3	EW-3 (30 gpm), SEW-1 (15 gpm)	Assess impact of reducing SEW-1 from 25 to 15 gpm.
4	EW-3 (30 gpm), EW-2 (8 gpm) and EW-4 (4 gpm). EW-2 and EW-4 screened across Shallow and Intermediate Gaspur Aquifer only.	Assess impact in source area by adding two additional wells.
5	EW-3 (30 gpm), SEW-1 (10 gpm), EW-2 (8 gpm), and EW-4 (4 gpm)	Assess impact on cleanup time by adding four wells to pumping array.
6	Same as Scenario 4, but all wells screened across entire Gaspur Aquifer.	Assess impact to cleanup time by increasing screen length.
7	Same as Scenario 5, but all wells screened across entire Gaspur Aquifer.	Assess impact to cleanup time by increasing screen length.

Table 3. (Continued)

Scenario	Description	Purpose
8	Same as Scenario 2, but added two injection (IW-1 and IW-2) wells (12.5 gpm per well) in source area.	Assess impact to cleanup time by adding two additional injection wells.
9	Same as Scenario 2, but reduced mass within treatment zone to 50 µg/L.	Assess impact of implementing ISCO mass removal (removing mass to 50 µg/L).
10	Same as Scenario 9, but reduced mass within treatment zone to applicable MCL.	Assess impact of implementing ISCO mass removal (removing mass to applicable MCL).
11	Added 350-foot bio-barrier across entire Gaspur Aquifer (down to Lower Gaspur) along Southern Avenue. Source reduced to 50 µg/L and EW3 pumping at 30 gpm.	Assess impact to cleanup times for entire plume by implementing a bio-barrier.

gpm = gallons per minute
ISCO = in situ chemical oxidation
MCL = maximum contaminant limit
µg/L = micrograms per liter

For these simulations, it was assumed that there was no further contaminant input into the groundwater flow system as of 2009, i.e., all modeled source boundary conditions were turned off in the model. While this is unlikely based on field observations, no information is available to improve this assumption. However, it is noted that concentrations at the suspected source areas around certain wells have been dropping, suggesting that contaminant input is gradually decreasing.

Figure 9 shows the model predictions for the time required to reach the cleanup standard for each chemical within the shallow, intermediate and lower Gaspur aquifer. It is important to note that for these predictions, it was assumed that all sources are inactive and each estimated time to cleanup should be considered as a best-case scenario and non-conservative. Table 4 summarizes the results of each of the fate and transport model scenarios. Figure 10 shows the location of downgradient extraction well (EW-3), source area extraction wells (EW-2, EW-4 and SEW-1), source area injection wells (IW-1 and IW-2) and the proposed bio-barrier (Scenario 11).

Table 4. Results of Fate-and-Transport Model Simulations, Cooper Drum Site

Scenario	Cleanup Times in Year TCE -Shallow/Intermediate/Lower Gaspur Aquifer cis-1,2-DCE - Shallow/Intermediate/Lower Gaspur Aquifer 14D- Shallow/Intermediate/Lower Gaspur Aquifer
1	TCE - 43/50/50 cis-1,2-DCE - 45/50/50 14D - 14/50/43
2	TCE - 12/50/47 cis-1,2-DCE - 23/50/47 14D - 5/36/18

Table 4. (Continued)

Scenario	Cleanup Times in Year TCE -Shallow/Intermediate/Lower Gaspur Aquifer cis-1,2-DCE - Shallow/Intermediate/Lower Gaspur Aquifer 14D- Shallow/Intermediate/Lower Gaspur Aquifer
3	TCE - 25/50/50 cis-1,2-DCE - 23/50/50 1,4-D - 7/47/24
4	TCE - 10/44/47 cis-1,2-DCE - 15/50/39 1,4-D - 5/37/18
5	TCE - 8/36/43 cis-1,2-DCE - 10/43/34 1,4-D - 4/22/17
6	TCE - 12/44/49 cis-1,2-DCE - 12/50/39 1,4-D - 11/27/21
7	TCE - 9/36/43 cis-1,2-DCE - 10/43/34 1,4-D - 4/22/17
8	TCE - 5/25/40 cis-1,2-DCE - 9/28/30 1,4-D - 3/13/15
9	TCE - 10/50/48 cis-1,2-DCE - 6/43/30 1,4-D - 5/32/23
10	TCE - 6/27/25 cis-1,2-DCE - 5/32/23 1,4-D - 4/21/10
11	TCE - 36/35/36 cis-1,2-DCE - 24/27/25 1,4-D - 15/17/12

cis-1,2-DCE = cis-1,2-dichloroethene
TCE = trichloroethene
1,4-D = 1,4-dioxane

VI. SUMMARY

The six-layer transient groundwater flow and transport models, developed using available Site-specific data, were calibrated to mimic 2009 groundwater elevations to within 10 percent.

Particle tracking, based on the flow model, was used to help predict the migration path of groundwater particles associated with contaminant plumes at the Site. Based on particle tracking capture zone analysis, EW-3 could be operated at less than 30 gpm and still provide adequate plume capture.

Eleven fate-and-transport scenarios were simulated to evaluate the impacts different remediation technologies would have on overall cleanup times. All transport model simulations assume no source mass is present at the site and that decay is not occurring at the site. The conclusions are as follows:

- Addition of source area extraction (SEW-1, EW-2 or EW-4) reduces cleanup times (Scenarios 2 through 10).
- Scenario 8 (two injection wells (IW-1 and IW-2) added near source area) appears to have a beneficial use in reducing cleanup times to 40 years.
- Scenario 10 reduced cleanup time to 25 years, but this assumed that all mass in the source area is reduced to the applicable maximum contaminant limit (MCL) by in situ chemical oxidation (ISCO), prior to groundwater extraction.
- Scenario 11 (bio-barrier) may reduce cleanup time by approximately 3-6 years.

VII. MODEL USE, LIMITATIONS, AND UNCERTAINTY

Data for edge boundary conditions interpolated over distance are sparse, leading to unquantifiable errors along the edges of the model. This error could be mitigated with additional groundwater elevation data farther from the site. With those data, the model domain could be enlarged so that residual errors around the edges of the model would have even less relevance to the areas of interest.

Particle-tracking calibration cannot account for retardation of chlorinated solvents, so the simulated groundwater velocities may be greater than actual plume migration velocities.

This groundwater flow model is a useful predictive tool that incorporates nearly all available data within the model domain. Numerical models can be powerful tools, if used appropriately, to assist in making management decisions for the former Cooper Drum groundwater cleanup program. This model can be used to help quantify the effectiveness of current cleanup efforts at the Site. Use of this model is subject to limitations; like any computer model, it has inherent uncertainty.

Groundwater models are simplifications of the natural environment and, therefore, have recognized limitations. Hence, some uncertainty exists in the ability of this model to predict groundwater flow. Effort was expended to minimize model uncertainty by using real world values as model input whenever available. Uncertainty of the model output reflects uncertainties in the conceptual model, the input parameters, and the ability of the mathematical model to simulate real world conditions adequately.

VIII. DISCLAIMER

The limited objective of this effort, the ongoing nature of the project, and the evolving knowledge of Site conditions and chemical effects on the environment and human health all must be considered when evaluating this memorandum because facts may become known that may make this document premature or inaccurate.

This memorandum was prepared by URS under the review of registered professionals. The conclusions and recommendations in this memorandum are based on URS' evaluation of the data. The interpretation of the data and the conclusions drawn were governed by URS' experience and professional judgment.

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Attachments

Figure 1 – Cooper Drum Site and MODFLOW Grid
Figure 2 - Hydraulic Conductivity Distribution, Layers 3, 4, and 5
Figure 3 – Simulated Versus Observed Heads (All Layers)
Figure 4 – Fate-and-Transport Verification (Simulated Versus Observed)
Figure 5 – Particle Tracking (No Pumping)
Figure 6 – Particle Tracking (15 gpm)
Figure 7 – Particle Tracking (20 gpm)
Figure 8 – Particle Tracking (30 gpm)
Figure 9 – Fate-and-Transport Cleanup Scenarios
Figure 10 –Location of Extraction Wells and Proposed Bio-Barrier

Appendix A – Results of May 2009 Aquifer Test

FIGURES

N
W E
S

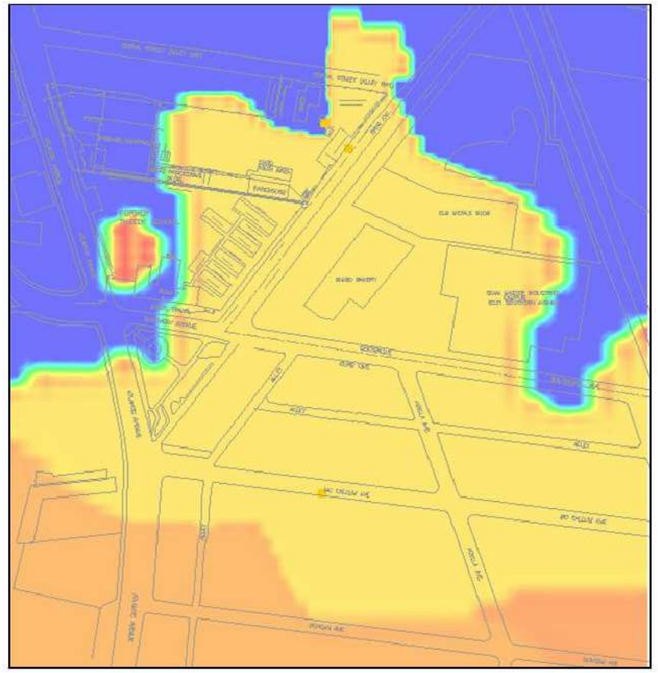
750 325 0 750 1500

SCALE IN FEET

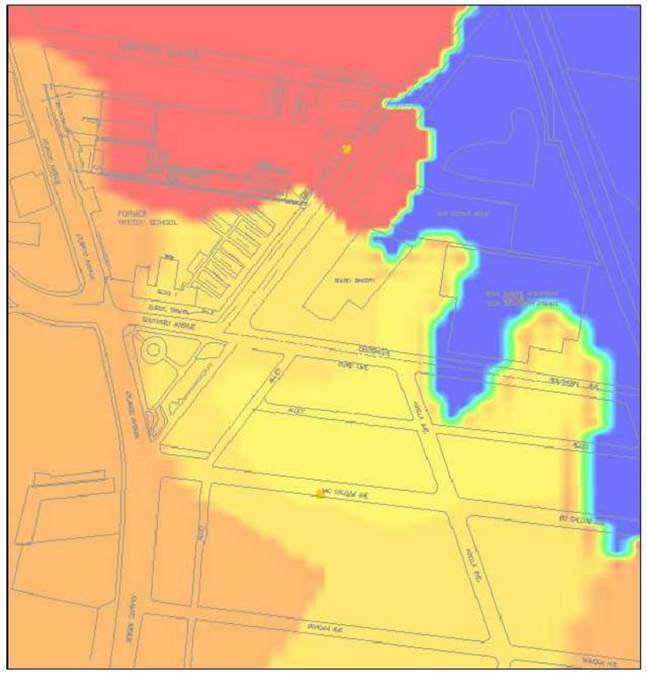
URS
2870 Gateway Oaks Dr., Ste. 150
Sacramento, CA 95833-3200
TEL: (916) 679-2000
FAX: (916) 679-2900

Cooper Drum Superfund Site
South Gate, CA

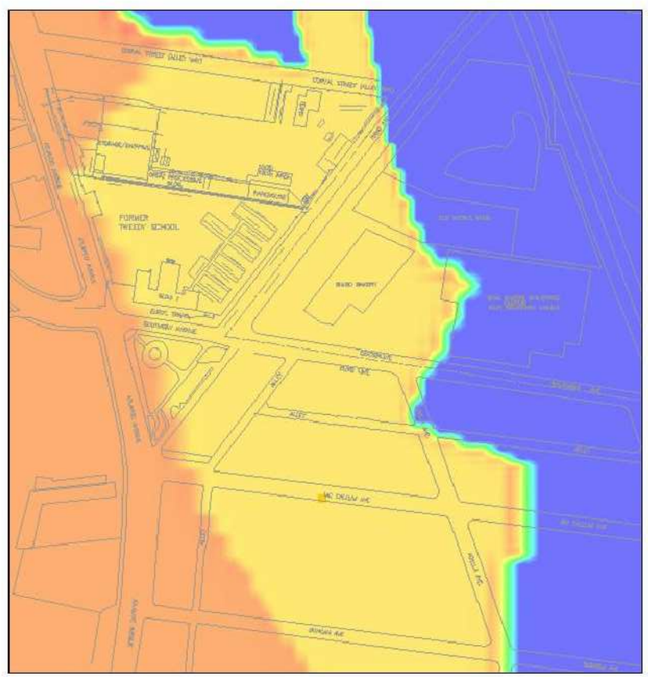
Figure 1
COOPER DRUM PROJECT SITE AND MODFLOW GRID



Cooper Drum Hydraulic Conductivity (Shallow Gaspur)



Cooper Drum Hydraulic Conductivity (Intermediate Gaspur)



Cooper Drum Hydraulic Conductivity (Lower Gaspur)

URS
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Cooper Drum Company
South Gate, California

FIGURE 2
HYDRAULIC CONDUCTIVITY DISTRIBUTION
SHALLOW, INTERMEDIATE, LOWER GASPUR

PLOT BY: ROBERT_P_TAYLOR - Jan 04, 2010 - 1:35:19pm
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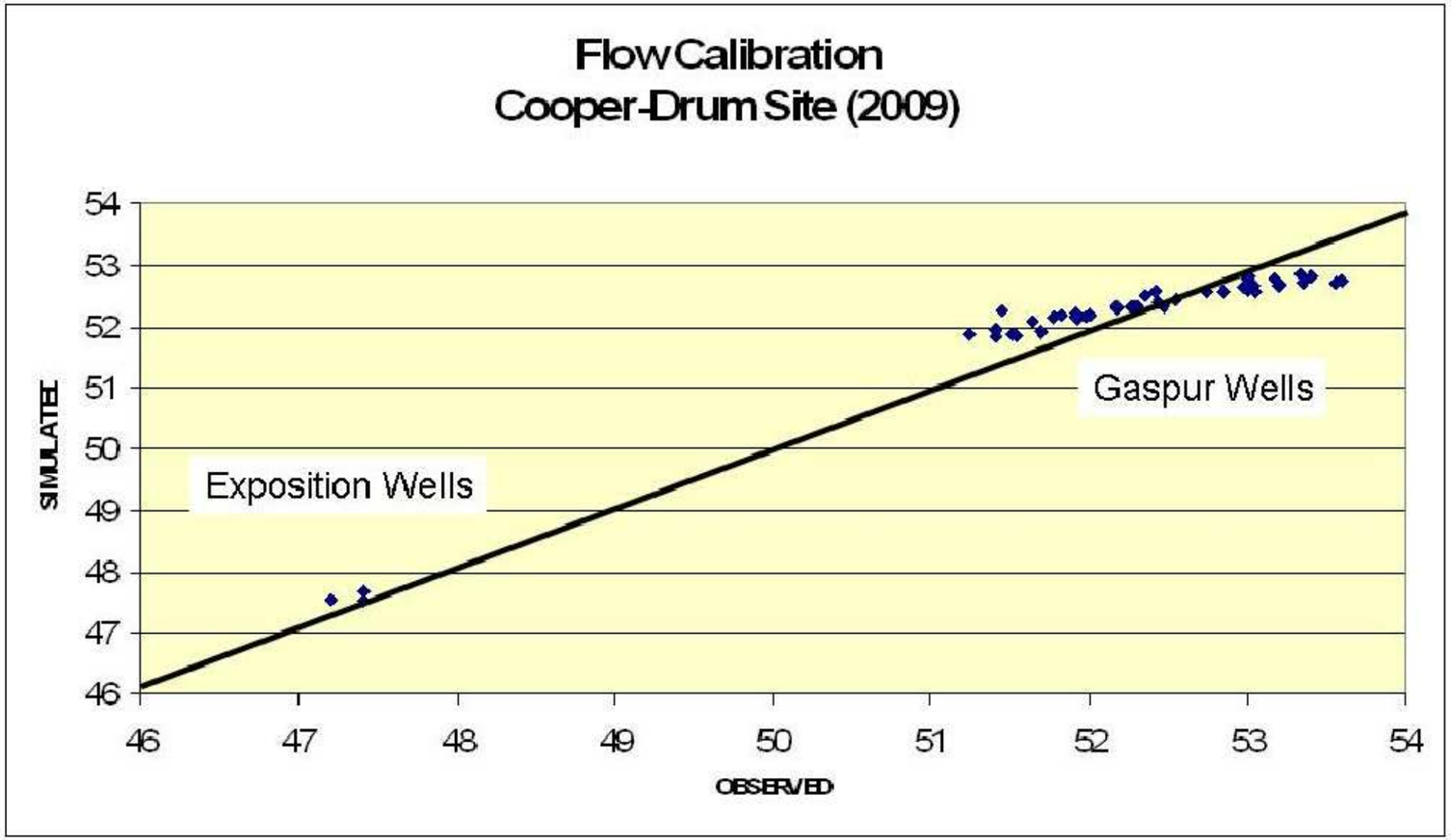

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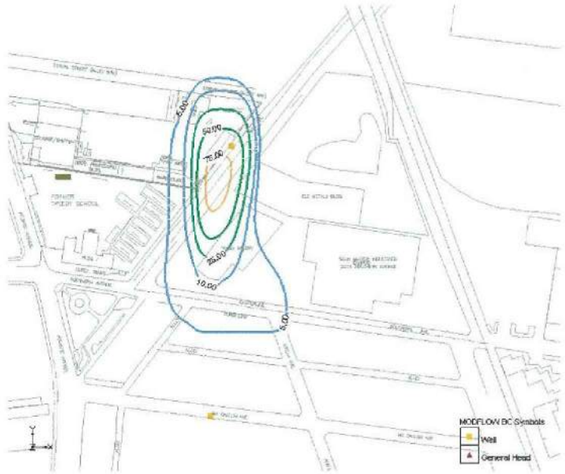
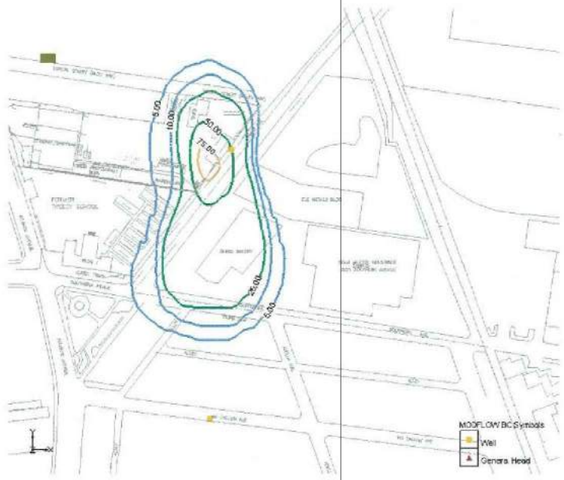
Cooper Drum Company
South Gate, California

FIGURE 3
FLOW CALIBRATION ALL LAYERS

PLOT BY: ROBERT_P_TAYLOR - Dec 23, 2009 - 10:03:16am

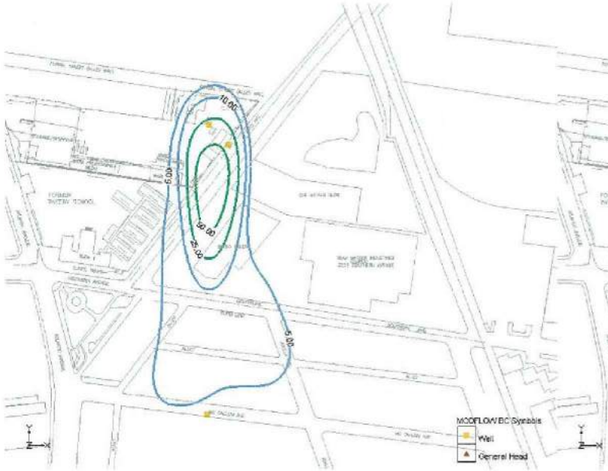


TCE 2004-2009 Simulated

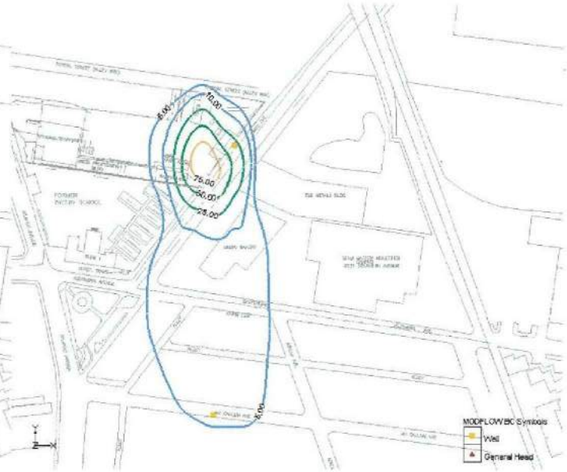


TCE 2009 Observed

(CONTOURED INTERVAL 5, 10, 25, AND 75 ug/L)

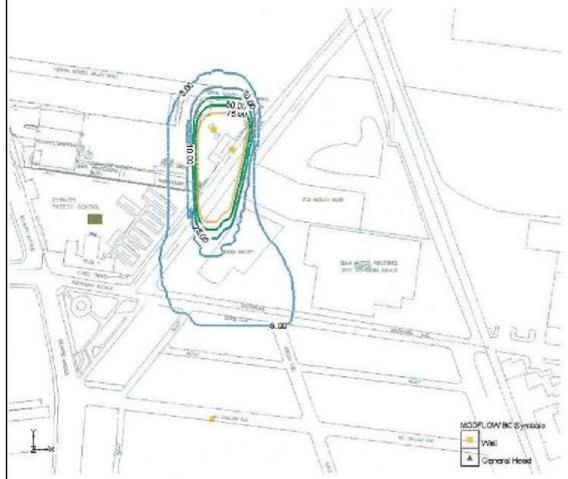


DCE 2004-2009 Simulated

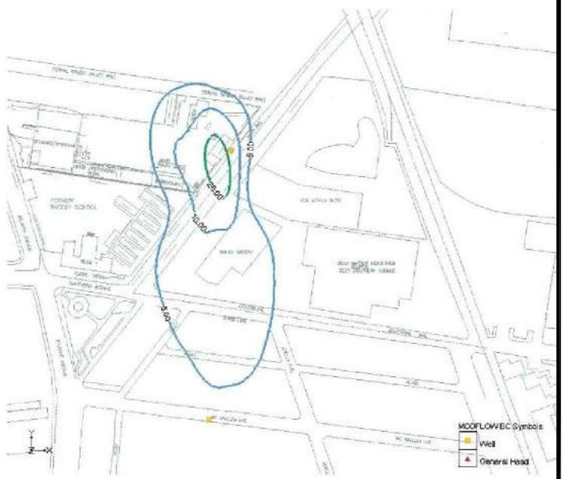


DCE 2009 Observed

(CONTOURED INTERVAL 5, 10, 25, AND 75 ug/L)



1-4 Dioxane 2004-2009 Simulated



1-4 Dioxane 2009 Observed

(CONTOURED INTERVAL 5, 10, 25, AND 75 ug/L)

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FIGURE 4
TRANSPORT VERIFICATION
TCE, DCE, DIOX

DRAWING: O:\Projects\Groundwater Modeling\Cooper Drum\2009\CooperDrum-Eddy-102209\
DRAWING: Eddy-102209-FIG-4-tce-dce-dlox.dwg

DRAWING: Eddy-102209-FIG-5-Gen-Part-Trck-NO-PUMP.dwg

DRAWING: O:\Projects\Groundwater Modeling\Cooper Drum\2009\CooperDrum-Eddy-102209\

PLOT BY: ROBERT_P_TAYLOR - Jan 04, 2010 - 1:08:37pm

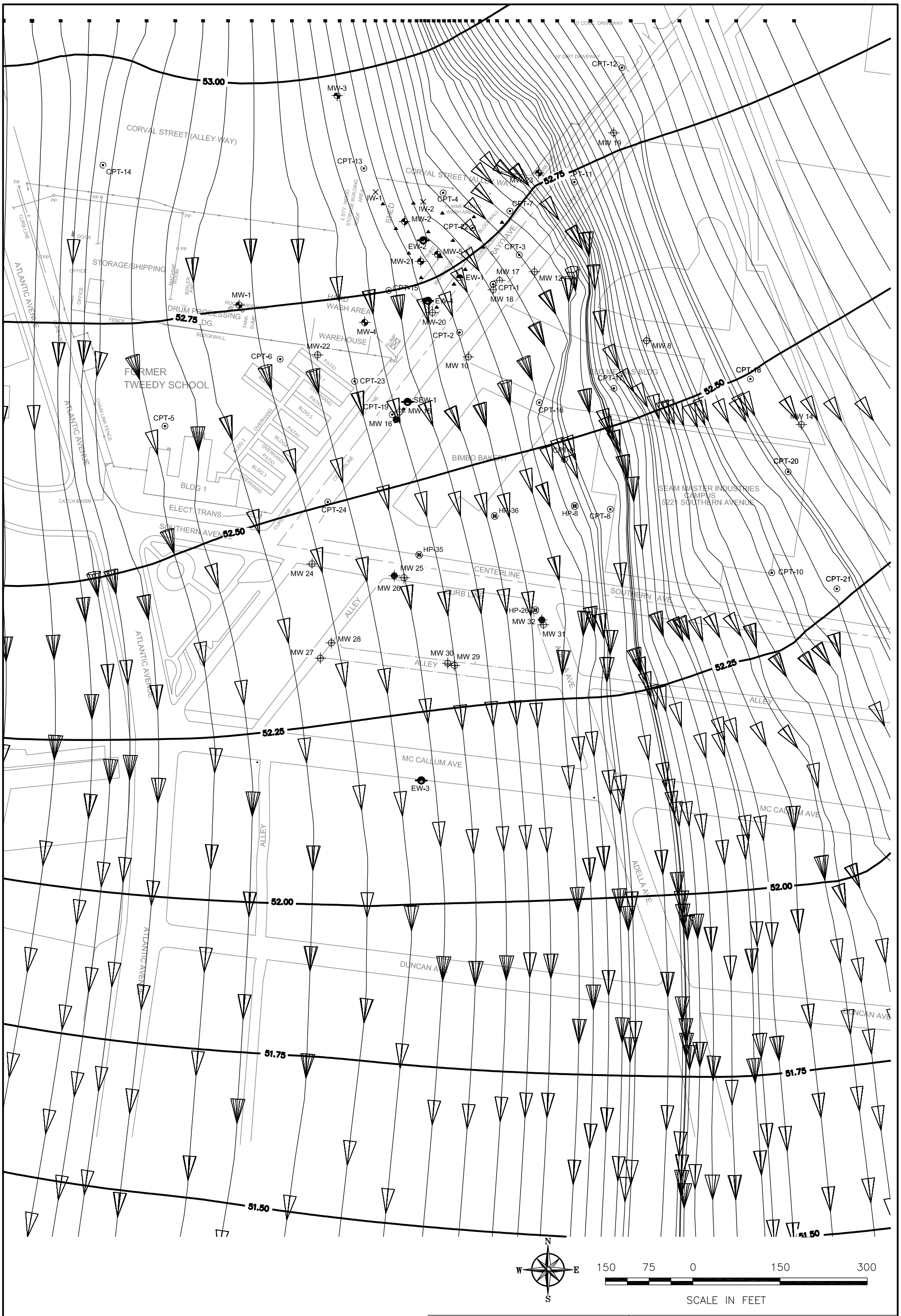

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Figure 5
PARTICLE TRACKING
(NO PUMPING)

DRAWING: Eddy-102209-FIG-6-Gen-Part-Trck(15).dwg

DRAWING: O:\Projects\Groundwater Modeling\Cooper Drum\2009\CooperDrum-Eddy-102209\

PLOT BY: ROBERT_P_TAYLOR - Jan 04, 2010 - 1:23:44pm

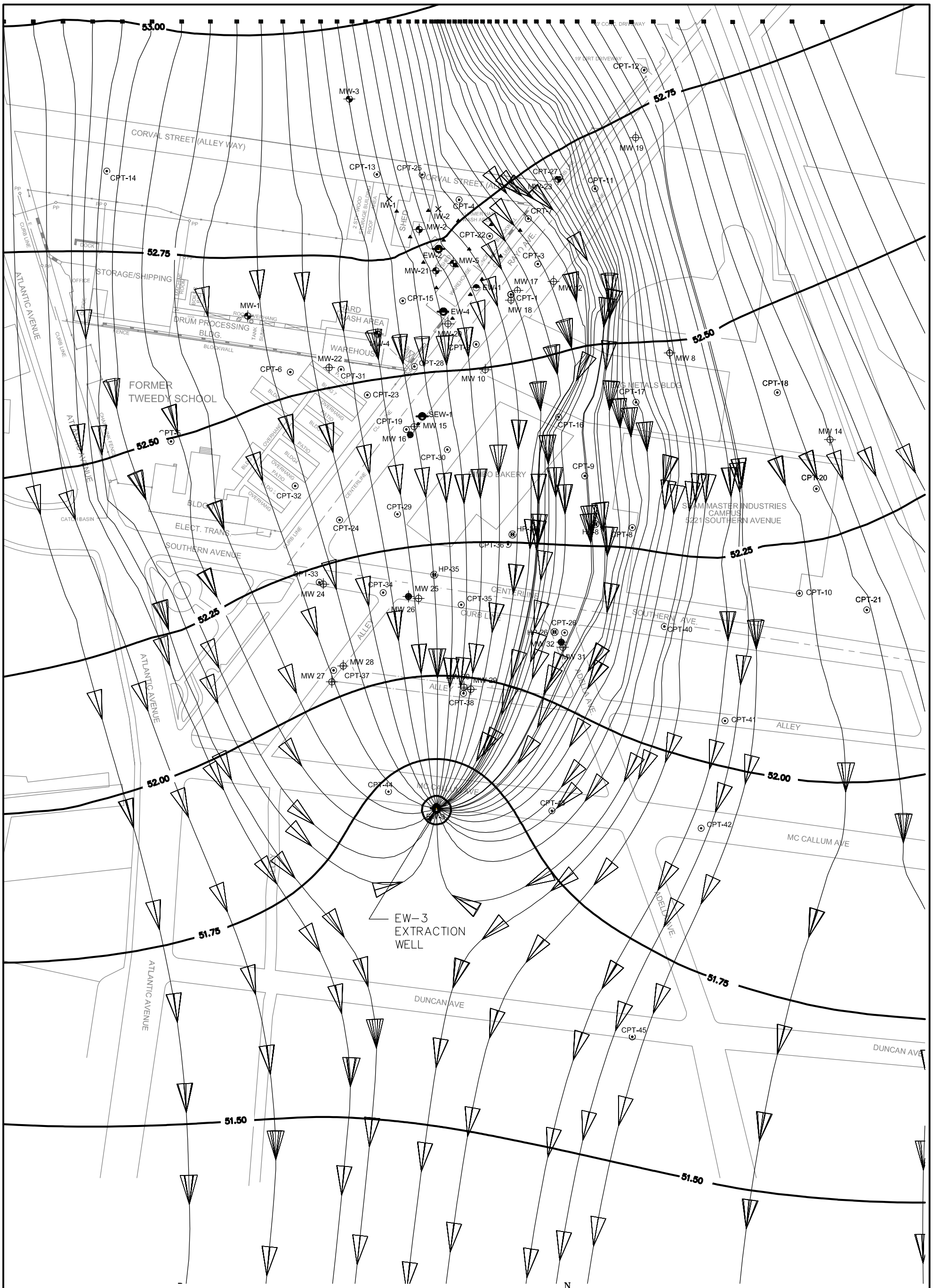

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Figure 6
PARTICLE TRACKING
(15 gpm)

DRAWING: Eddy-102209-FIG-7-Gen-Part-Trck(20).dwg

DRAWING: O:\Projects\Groundwater Modeling\Cooper Drum\2009\CooperDrum-Eddy-102209\

PLOT BY: ROBERT_P_TAYLOR - Jan 04, 2010 - 1:21:42pm

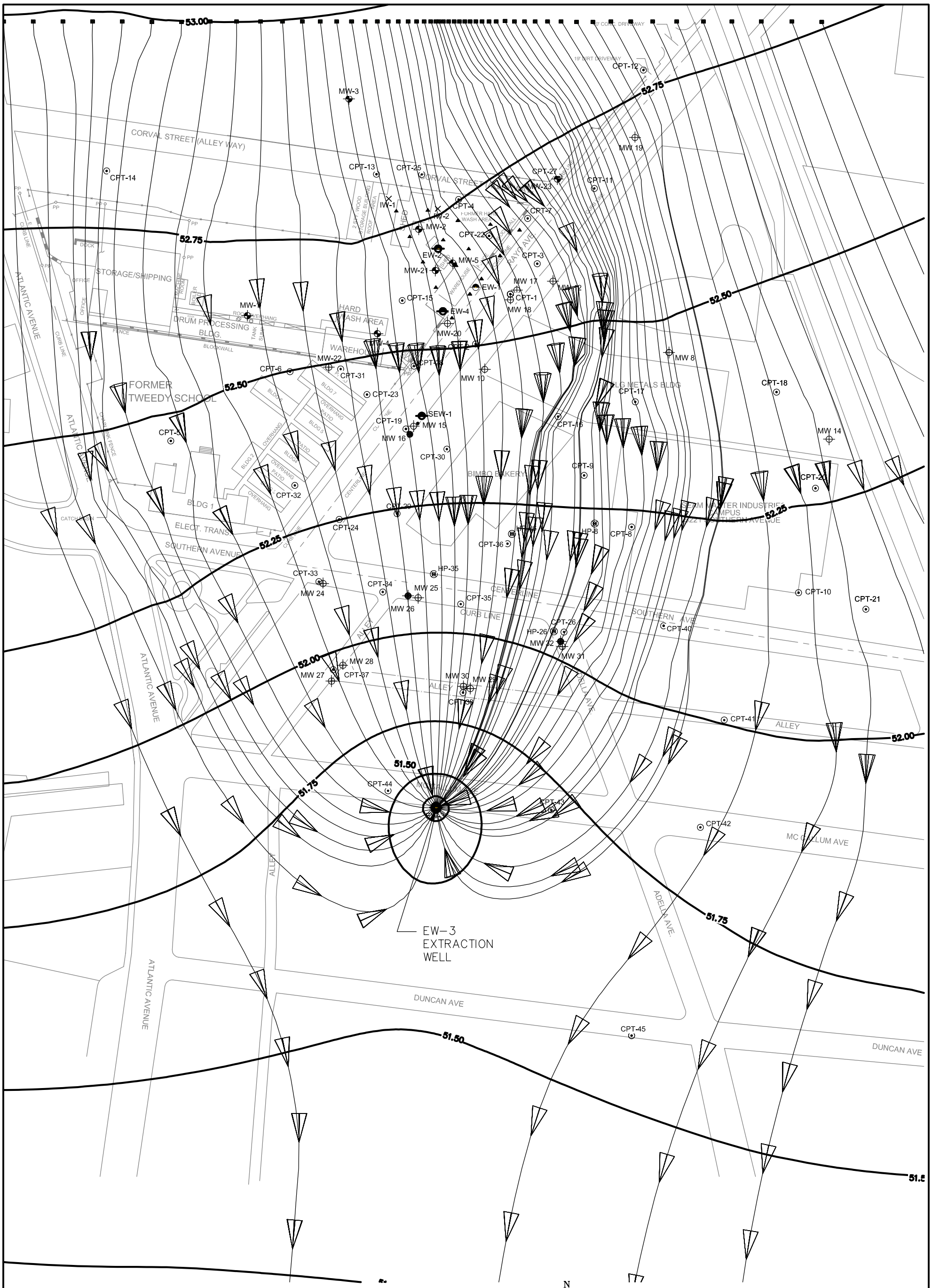

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Figure 7
PARTICLE TRACKING
(20 GPM)

DRAWING: Eddy-102209-FIG-8-Gen-Part-Trck(30).dwg

DRAWING: O:\Projects\Groundwater Modeling\Cooper Drum\2009\CooperDrum-Eddy-102209\

PLOT BY: ROBERT_P_TAYLOR - Jan 04, 2010 - 1:20:24pm

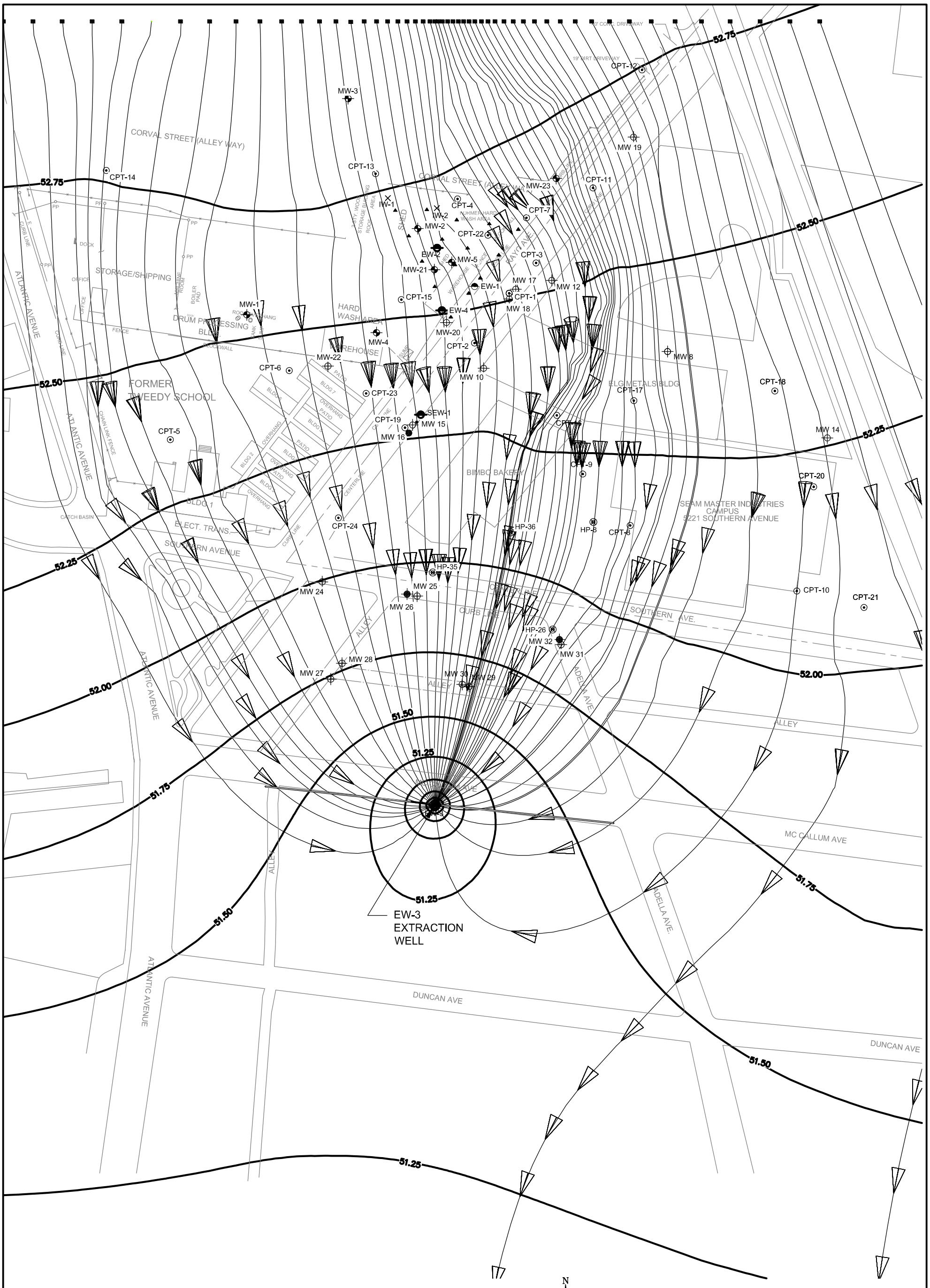

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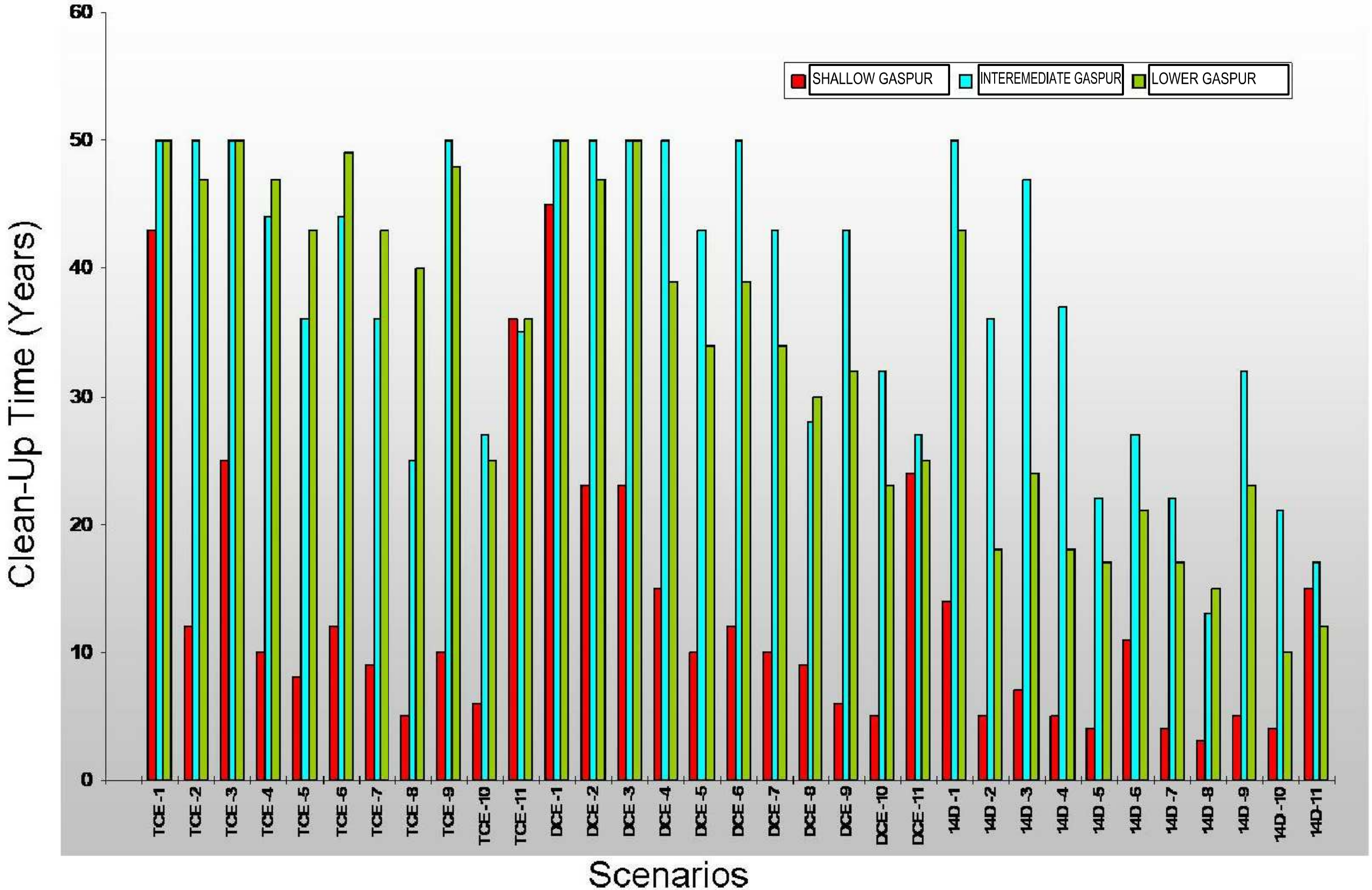
Figure 8
PARTICLE TRACKING
(30 GPM)



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DRAWING: O:\Projects\Groundwater Modeling\Cooper Drum\2009\CooperDrum-Eddy-102209\
DRAWING: Eddy-102209-FIG-9-FATE-CLN-SCENO.dwg

DRAWING: Eddy-102209-FIG-10-barrier.dwg

DRAWING: O:\Projects\Groundwater Modeling\Cooper Drum\2009\CooperDrum-Eddy-102209\

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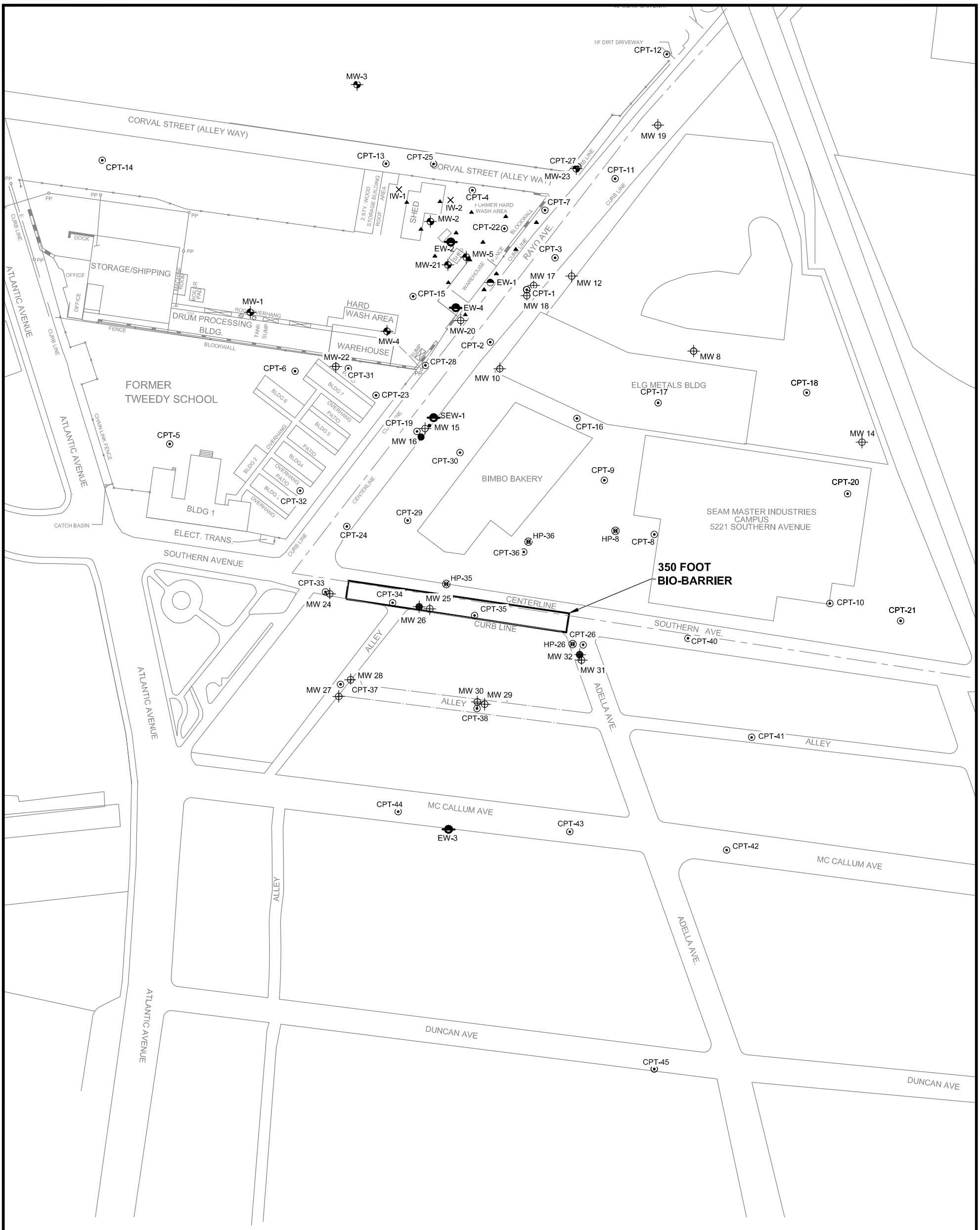

LEGEND

- MW-5 Monitoring Well
- Soil Boring Location.
- EW-3 Extraction Well Location.
- IW-1 Injection Well Location.

N W E S

150 75 0 150 300

SCALE IN FEET

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Figure 10
APPROXIMATE LOCATION OF PROPOSED BIO-BARRIER LOCATION